Astrodienst Ephemeris Tables

from the year 200 BCE for 50 years

tropical geocentric zodiac

contains Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, True Node, Moon's Node, Lilith, Chiron

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris

Code D5EPX

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

ASTRODIENST EPHEMERIS for the year 200 BCE
geocentric

JANUARY 200 BCE (-199) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 27 32	7♑57'27	19♏56	13♐39	13♒16	4♑59	20♏38	7°R28	19♏45	1°R 7	6♑34	26°R31	26♍58	2♊18	n.a.	M 1
T 2	6 31 28	8°58'24	4♐47	14°52	14°29	5°46	20°49	7♍26	19°48	1♍ 6	6°36	26♍23	26°55	2°25	n.a.	T 2
W 3	6 35 25	9°59'20	19°50	16° 6	15°42	6°33	21° 0	7°25	19°50	1° 5	6°38	26°13	26°52	2°32	n.a.	W 3
T 4	6 39 22	11° 0'14	4♑55	17°21	16°55	7°20	21°11	7°23	19°53	1° 4	6°40	26° 1	26°49	2°38	n.a.	T 4
F 5	6 43 18	12° 1'07	19°51	18°39	18° 8	8° 8	21°22	7°22	19°56	1° 3	6°42	25°50	26°45	2°45	n.a.	F 5
S 6	6 47 15	13° 1'59	4♒29	19°57	19°20	8°55	21°33	7°20	19°58	1° 2	6°44	25°40	26°42	2°52	n.a.	S 6
S 7	6 51 11	14° 2'49	18°43	21°17	20°33	9°42	21°43	7°18	20° 1	1° 1	6°46	25°33	26°39	2°58	n.a.	S 7
M 8	6 55 8	15° 3'38	2♓28	22°38	21°45	10°29	21°54	7°17	20° 3	1° 0	6°48	25°28	26°36	3° 5	n.a.	M 8
T 9	6 59 4	16° 4'24	15°45	24° 0	22°58	11°17	22° 5	7°15	20° 6	0°59	6°50	25°26	26°33	3°12	n.a.	T 9
W10	7 3 1	17° 5'09	28°35	25°24	24°10	12° 4	22°15	7°12	20° 8	0°58	6°51	25°D25	26°29	3°19	n.a.	W10
T 11	7 6 58	18° 5'53	11♈ 3	26°48	25°22	12°51	22°25	7°10	20°10	0°57	6°53	25°26	26°26	3°25	n.a.	T 11
F 12	7 10 54	19° 6'34	23°14	28°14	26°34	13°39	22°36	7° 8	20°13	0°56	6°55	25°R26	26°23	3°32	n.a.	F 12
S 13	7 14 51	20° 7'14	5♉12	29°40	27°46	14°26	22°46	7° 6	20°15	0°55	6°57	25°24	26°20	3°39	n.a.	S 13
S 14	7 18 47	21° 7'52	17° 4	1♑ 8	28°58	15°13	22°56	7° 3	20°17	0°53	6°59	25°21	26°17	3°45	n.a.	S 14
M15	7 22 44	22° 8'28	28°54	2°37	0♓10	16° 0	23° 6	7° 1	20°20	0°52	7° 1	25°15	26°14	3°52	n.a.	M15
T 16	7 26 40	23° 9'03	10♊46	4° 6	1°22	16°48	23°16	6°58	20°22	0°51	7° 2	25° 6	26°10	3°59	n.a.	T 16
W17	7 30 37	24° 9'35	22°43	5°37	2°34	17°35	23°25	6°55	20°24	0°50	7° 4	24°56	26° 7	4° 6	n.a.	W17
T 18	7 34 33	25°10'06	4♋48	7° 8	3°45	18°22	23°35	6°52	20°26	0°49	7° 6	24°44	26° 4	4°12	n.a.	T 18
F 19	7 38 30	26°10'35	17° 2	8°40	4°57	19°10	23°45	6°50	20°28	0°47	7° 8	24°33	26° 1	4°19	n.a.	F 19
S 20	7 42 27	27°11'02	29°27	10°14	6° 8	19°57	23°54	6°47	20°30	0°46	7°10	24°22	25°58	4°26	n.a.	S 20
S 21	7 46 23	28°11'27	12♌ 2	11°48	7°19	20°44	24° 3	6°44	20°32	0°45	7°12	24°13	25°55	4°32	n.a.	S 21
M22	7 50 20	29°11'51	24°48	13°23	8°31	21°32	24°12	6°40	20°34	0°43	7°13	24° 7	25°51	4°39	n.a.	M22
T 23	7 54 16	0♒12'13	7♍45	14°59	9°42	22°19	24°21	6°37	20°36	0°42	7°15	24° 3	25°48	4°46	n.a.	T 23
W24	7 58 13	1°12'33	20°53	16°36	10°53	23° 6	24°30	6°34	20°37	0°41	7°17	24°D 2	25°45	4°53	n.a.	W24
T 25	8 2 9	2°12'52	4♎13	18°14	12° 3	23°53	24°39	6°31	20°39	0°39	7°19	24° 2	25°42	4°59	n.a.	T 25
F 26	8 6 6	3°13'09	17°47	19°54	13°14	24°41	24°48	6°27	20°41	0°38	7°20	24° 3	25°39	5° 6	n.a.	F 26
S 27	8 10 2	4°13'24	1♏35	21°34	14°25	25°28	24°56	6°24	20°42	0°36	7°22	24°R 4	25°35	5°13	n.a.	S 27
S 28	8 13 59	5°13'38	15°39	23°15	15°35	26°15	25° 5	6°20	20°44	0°35	7°24	24° 3	25°32	5°19	n.a.	S 28
M29	8 17 55	6°13'51	29°56	24°57	16°46	27° 2	25°13	6°16	20°46	0°33	7°26	24° 1	25°29	5°26	n.a.	M29
T 30	8 21 52	7°14'02	14♐25	26°40	17°56	27°50	25°21	6°13	20°47	0°32	7°27	23°57	25°26	5°33	n.a.	T 30
W31	8 25 49	8♒14'11	29♐ 2	28♑24	19♓ 6	28♑37	25♏29	6♍ 9	20♏49	0♍31	7♑29	23♍51	25♍23	5♊40	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	23s28	14s 2	4n 2	22s 0	0n43	18s30	1s32	24s34	0s57	17s24	0n44	11n 0	2n18	17s41	0n12	12n28	1n21	28s14	4s42	1n24	1n13	16n17			n.a.
T 2	23 25	16 45	4 40	22 17	0 34	18 7	1 30	24 33	0 57	17 27	0 44	11 1	2 19	17 42	0 12	12 28	1 21	28 14	4 42	1 27	1 14	16 18			n.a.
W 3	23 20	18 21	4 59	22 34	0 25	17 43	1 29	24 31	0 58	17 30	0 44	11 2	2 19	17 43	0 12	12 28	1 21	28 14	4 42	1 31	1 16	16 18			n.a.
T 4	23 15	18 40	4 57	22 50	0 16	17 20	1 27	24 29	0 58	17 33	0 44	11 3	2 19	17 43	0 12	12 29	1 21	28 14	4 42	1 36	1 17	16 19			n.a.
F 5	23 10	17 41	4 35	23 6	0 8	16 55	1 25	24 26	0 58	17 36	0 44	11 3	2 19	17 44	0 12	12 29	1 21	28 14	4 42	1 41	1 18	16 20			n.a.
S 6	23 4	15 33	3 55	23 20	0s 1	16 30	1 23	24 23	0 59	17 39	0 44	11 4	2 20	17 45	0 12	12 29	1 21	28 14	4 42	1 44	1 20	16 21			n.a.
S 7	22 58	12 31	3 2	23 34	0 9	16 5	1 21	24 20	0 59	17 42	0 44	11 5	2 20	17 45	0 12	12 30	1 21	28 14	4 42	1 47	1 21	16 22			n.a.
M 8	22 51	8 52	1 59	23 47	0 17	15 40	1 19	24 17	0 59	17 44	0 44	11 6	2 20	17 46	0 12	12 30	1 21	28 14	4 42	1 49	1 22	16 23			n.a.
T 9	22 44	4 54	0 51	23 59	0 24	15 13	1 17	24 13	1 0	17 47	0 44	11 7	2 20	17 47	0 12	12 31	1 21	28 14	4 42	1 50	1 23	16 24			n.a.
W10	22 37	0 50	0s17	24 10	0 32	14 47	1 14	24 10	1 0	17 50	0 44	11 8	2 21	17 47	0 12	12 31	1 21	28 14	4 42	1 50	1 25	16 25			n.a.
T 11	22 29	3n10	1 22	24 20	0 39	14 20	1 12	24 5	1 0	17 52	0 44	11 9	2 21	17 48	0 12	12 32	1 21	28 14	4 42	1 50	1 26	16 26			n.a.
F 12	22 20	6 56	2 22	24 28	0 46	13 53	1 9	24 1	1 1	17 55	0 44	11 10	2 21	17 49	0 12	12 32	1 21	28 14	4 43	1 50	1 27	16 27			n.a.
S 13	22 11	10 21	3 15	24 36	0 53	13 26	1 7	23 56	1 1	17 58	0 44	11 12	2 22	17 49	0 12	12 32	1 21	28 14	4 43	1 51	1 28	16 28			n.a.
S 14	22 2	13 18	3 59	24 42	1 0	12 58	1 4	23 51	1 1	18 0	0 44	11 13	2 22	17 50	0 12	12 33	1 21	28 14	4 43	1 52	1 30	16 29			n.a.
M15	21 52	15 43	4 32	24 47	1 6	12 30	1 1	23 46	1 1	18 3	0 44	11 14	2 22	17 50	0 12	12 33	1 21	28 14	4 43	1 55	1 31	16 30			n.a.
T 16	21 42	17 28	4 54	24 51	1 12	12 2	0 59	23 40	1 2	18 5	0 45	11 15	2 22	17 51	0 12	12 34	1 21	28 14	4 43	1 58	1 32	16 30			n.a.
W17	21 32	18 28	5 3	24 53	1 18	11 33	0 56	23 34	1 2	18 8	0 45	11 16	2 22	17 52	0 12	12 34	1 21	28 14	4 43	2 2	1 34	16 31			n.a.
T 18	21 21	18 39	4 59	24 54	1 23	11 4	0 53	23 28	1 2	18 10	0 45	11 18	2 23	17 52	0 12	12 35	1 21	28 14	4 43	2 7	1 35	16 32			n.a.
F 19	21 10	17 58	4 41	24 54	1 28	10 35	0 50	23 22	1 2	18 12	0 45	11 19	2 23	17 53	0 12	12 35	1 21	28 14	4 43	2 11	1 36	16 33			n.a.
S 20	20 58	16 26	4 9	24 52	1 33	10 5	0 47	23 15	1 3	18 15	0 45	11 20	2 23	17 53	0 12	12 36	1 21	28 14	4 43	2 16	1 37	16 34			n.a.
S 21	20 46	14 6	3 25	24 48	1 38	9 36	0 44	23 8	1 3	18 17	0 45	11 22	2 23	17 54	0 12	12 36	1 22	28 14	4 44	2 19	1 39	16 35			n.a.
M22	20 33	11 3	2 30	24 43	1 42	9 6	0 40	23 1	1 3	18 19	0 45	11 23	2 24	17 54	0 12	12 37	1 22	28 14	4 44	2 22	1 40	16 36			n.a.
T 23	20 20	7 26	1 26	24 37	1 46	8 36	0 37	22 53	1 3	18 21	0 45	11 24	2 24	17 55	0 12	12 37	1 22	28 14	4 44	2 23	1 41	16 37			n.a.
W24	20 7	3 24	0 17	24 29	1 49	8 6	0 34	22 45	1 4	18 24	0 45	11 26	2 24	17 55	0 12	12 38	1 22	28 14	4 44	2 24	1 42	16 38			n.a.
T 25	19 54	0s52	0n55	24 19	1 52	7 35	0 30	22 37	1 4	18 26	0 45	11 27	2 24	17 56	0 12	12 38	1 22	28 14	4 44	2 24	1 44	16 38			n.a.
F 26	19 40	5 9	2 4	24 7	1 55	7 5	0 27	22 29	1 4	18 28	0 45	11 29	2 24	17 56	0 12	12 39	1 22	28 14	4 44	2 23	1 45	16 39			n.a.
S 27	19 25	9 14	3 8	23 54	1 58	6 34	0 23	22 21	1 4	18 30	0 45	11 30	2 25	17 57	0 12	12 39	1 22	28 14	4 44	2 23	1 46	16 40			n.a.
S 28	19 11	12 52	4 2	23 39	2 0	6 3	0 20	22 12	1 4	18 32	0 45	11 32	2 25	17 57	0 12	12 40	1 22	28 14	4 45	2 23	1 48	16 41			n.a.
M29	18 56	15 47	4 41	23 23	2 2	5 32	0 16	22 3	1 5	18 34	0 45	11 33	2 25	17 57	0 12	12 41	1 22	28 15	4 45	2 24	1 49	16 42			n.a.
T 30	18 41	17 46	5 4	23 4	2 3	5 1	0 12	21 54	1 5	18 36	0 45	11 35	2 25	17 58	0 12	12 41	1 22	28 15	4 45	2 26	1 50	16 43			n.a.
W31	18s25	18s36	5n 7	22s44	2s 4	4s30	0s 9	21s44	1s 5	18s38	0n45	11n37	2n25	17s58	0n12	12n42	1n22	28s15	4s45	2n28	1n51	16n44			n.a.

Julian Day Number = 1648373.5, Delta T = 03h32m25s
Ecliptic obliquity = 23°43'00, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°49'47, Lahiri = - 6°42'47 Julian Calendar 1 Jan. 200 BCE == Greg. Calendar 29 Dec. 201 BCE

The year -199 astronomical counting style corresponds to year 200 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 200 BCE
geocentric

FEBRUARY 200 BCE (-199) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 29 45	9♒14'18	13♑40	0♒ 9	20♓16	29♑24	25♏37	6°R 5	20♏50	0°R29	7♑31	23°R44	25♍20	5♊46	n.a.	T 1
F 2	8 33 42	10°14'24	28°13	1°56	21°26	0♒11	25°45	6♍ 1	20°51	0♍27	7°32	23♍36	25°16	5°53	n.a.	F 2
S 3	8 37 38	11°14'27	12♒34	3°43	22°35	0°59	25°53	5°57	20°53	0°26	7°34	23°30	25°13	6° 0	n.a.	S 3
S 4	8 41 35	12°14'29	26°36	5°32	23°45	1°46	26° 0	5°53	20°54	0°24	7°36	23°25	25°10	6° 6	n.a.	S 4
M 5	8 45 31	13°14'28	10♓15	7°21	24°54	2°33	26° 8	5°49	20°55	0°23	7°37	23°23	25° 7	6°13	n.a.	M 5
T 6	8 49 28	14°14'25	23°31	9°12	26° 4	3°20	26°15	5°45	20°56	0°21	7°39	23°D22	25° 4	6°20	n.a.	T 6
W 7	8 53 24	15°14'20	6♈24	11° 4	27°13	4° 7	26°22	5°41	20°57	0°20	7°40	23°23	25° 1	6°27	n.a.	W 7
T 8	8 57 21	16°14'13	18°55	12°57	28°22	4°54	26°29	5°37	20°58	0°18	7°42	23°24	24°57	6°33	n.a.	T 8
F 9	9 1 18	17°14'03	1♉10	14°50	29°30	5°42	26°36	5°32	20°59	0°17	7°43	23°26	24°54	6°40	n.a.	F 9
S 10	9 5 14	18°13'51	13°12	16°45	0♈39	6°29	26°42	5°28	21° 0	0°15	7°45	23°R27	24°51	6°47	n.a.	S 10
S 11	9 9 11	19°13'37	25° 6	18°41	1°47	7°16	26°49	5°24	21° 1	0°13	7°46	23°27	24°48	6°54	n.a.	S 11
M12	9 13 7	20°13'20	6♊58	20°38	2°56	8° 3	26°55	5°19	21° 2	0°12	7°48	23°25	24°45	7° 0	n.a.	M12
T 13	9 17 4	21°13'01	18°52	22°36	4° 4	8°50	27° 1	5°15	21° 3	0°10	7°49	23°22	24°41	7° 7	n.a.	T 13
W14	9 21 0	22°12'40	0♋52	24°35	5°12	9°37	27° 7	5°10	21° 4	0° 8	7°51	23°18	24°38	7°14	n.a.	W14
T 15	9 24 57	23°12'17	13° 2	26°34	6°19	10°24	27°13	5° 6	21° 4	0° 7	7°52	23°13	24°35	7°20	n.a.	T 15
F 16	9 28 53	24°11'51	25°24	28°34	7°27	11°11	27°19	5° 1	21° 5	0° 5	7°54	23° 8	24°32	7°27	n.a.	F 16
S 17	9 32 50	25°11'22	8♌ 0	0♓34	8°34	11°58	27°24	4°57	21° 6	0° 3	7°55	23° 3	24°29	7°34	n.a.	S 17
S 18	9 36 47	26°10'52	20°51	2°34	9°41	12°45	27°30	4°52	21° 6	0° 2	7°56	22°59	24°26	7°41	n.a.	S 18
M19	9 40 43	27°10'19	3♍57	4°34	10°48	13°32	27°35	4°48	21° 7	0° 0	7°58	22°57	24°22	7°47	n.a.	M19
T 20	9 44 40	28° 9'45	17°17	6°34	11°55	14°18	27°40	4°43	21° 7	29♌59	7°59	22°D56	24°19	7°54	n.a.	T 20
W21	9 48 36	29° 9'08	0♎50	8°34	13° 1	15° 5	27°45	4°38	21° 7	29°57	8° 1	22°56	24°16	8° 1	n.a.	W21
T 22	9 52 33	0♓ 8'29	14°34	10°32	14° 8	15°52	27°50	4°34	21° 8	29°55	8° 2	22°57	24°13	8° 7	n.a.	T 22
F 23	9 56 29	1° 7'48	28°27	12°30	15°14	16°39	27°54	4°29	21° 8	29°54	8° 3	22°58	24°10	8°14	n.a.	F 23
S 24	10 0 26	2° 7'05	12♏28	14°25	16°19	17°26	27°59	4°25	21° 8	29°52	8° 4	22°59	24° 7	8°21	n.a.	S 24
S 25	10 4 22	3° 6'21	26°36	16°19	17°25	18°13	28° 3	4°20	21° 8	29°50	8° 6	23° 0	24° 3	8°28	n.a.	S 25
M26	10 8 19	4° 5'35	10♐48	18°10	18°30	18°59	28° 7	4°15	21° 8	29°49	8° 7	23°R 0	24° 0	8°34	n.a.	M26
T 27	10 12 15	5° 4'47	25° 2	19°58	19°35	19°46	28°11	4°11	21°R 8	29°47	8° 8	22°59	23°57	8°41	n.a.	T 27
W28	10 16 12	6♓ 3'57	9♑17	21♓44	20♈40	20♒33	28♏14	4♍ 6	21♏ 8	29♌45	8♑ 9	22♍58	23♍54	8♊48	n.a.	W28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s 9	18s12	4n50	22s22	2s 4	3s58	0s 5	21s34	1s 5	18s40	0n45	11n38	2n26	17s59	0n12	12n42	1n22	28s15	4s45	2n31	1n53	16n45		n.a.
F 2	17 53	16 37	4 14	21 59	2 4	3 27	0 1	21 24	1 5	18 42	0 45	11 40	2 26	17 59	0 12	12 43	1 22	28 15	4 45	2 34	1 54	16 45		n.a.
S 3	17 36	14 0	3 23	21 33	2 4	2 56	0n 3	21 14	1 5	18 43	0 45	11 41	2 26	17 59	0 12	12 43	1 22	28 15	4 45	2 37	1 55	16 46		n.a.
S 4	17 19	10 36	2 20	21 5	2 3	2 24	0 7	21 4	1 5	18 45	0 45	11 43	2 26	18 0	0 12	12 44	1 22	28 15	4 46	2 38	1 56	16 47		n.a.
M 5	17 2	6 43	1 11	20 36	2 1	1 53	0 11	20 53	1 6	18 47	0 45	11 45	2 26	18 0	0 12	12 45	1 22	28 15	4 46	2 40	1 58	16 48		n.a.
T 6	16 45	2 37	0s 1	20 5	1 59	1 21	0 15	20 42	1 6	18 49	0 45	11 46	2 26	18 0	0 12	12 45	1 22	28 15	4 46	2 40	1 59	16 49		n.a.
W 7	16 27	1n30	1 10	19 32	1 57	0 49	0 19	20 31	1 6	18 50	0 45	11 48	2 27	18 1	0 12	12 46	1 22	28 15	4 46	2 40	2 0	16 50		n.a.
T 8	16 9	5 25	2 15	18 57	1 54	0 18	0 24	20 19	1 6	18 52	0 45	11 50	2 27	18 1	0 12	12 46	1 22	28 15	4 46	2 39	2 2	16 51		n.a.
F 9	15 51	9 2	3 11	18 20	1 51	0n14	0 28	20 8	1 6	18 53	0 45	11 52	2 27	18 1	0 12	12 47	1 22	28 15	4 46	2 38	2 3	16 51		n.a.
S 10	15 32	12 12	3 59	17 41	1 46	0 45	0 32	19 56	1 6	18 55	0 45	11 53	2 27	18 1	0 12	12 47	1 22	28 15	4 46	2 38	2 4	16 52		n.a.
S 11	15 14	14 49	4 35	17 1	1 42	1 17	0 36	19 44	1 6	18 56	0 45	11 55	2 27	18 2	0 12	12 48	1 22	28 15	4 47	2 38	2 5	16 53		n.a.
M12	14 55	16 48	4 59	16 18	1 37	1 48	0 41	19 32	1 6	18 58	0 45	11 57	2 27	18 2	0 12	12 49	1 22	28 15	4 47	2 39	2 7	16 54		n.a.
T 13	14 36	18 5	5 11	15 34	1 31	2 19	0 45	19 19	1 6	18 59	0 45	11 59	2 27	18 2	0 12	12 49	1 22	28 15	4 47	2 40	2 8	16 55		n.a.
W14	14 16	18 33	5 9	14 48	1 24	2 51	0 50	19 7	1 6	19 1	0 45	12 0	2 28	18 2	0 12	12 50	1 22	28 15	4 47	2 41	2 9	16 56		n.a.
T 15	13 56	18 12	4 54	14 1	1 17	3 22	0 54	18 54	1 6	19 2	0 45	12 2	2 28	18 2	0 12	12 50	1 22	28 16	4 47	2 43	2 11	16 56		n.a.
F 16	13 37	16 58	4 24	13 12	1 10	3 53	0 58	18 41	1 6	19 3	0 45	12 4	2 28	18 3	0 12	12 51	1 22	28 16	4 47	2 45	2 12	16 57		n.a.
S 17	13 16	14 55	3 42	12 22	1 2	4 24	1 3	18 28	1 6	19 4	0 45	12 6	2 28	18 3	0 12	12 52	1 22	28 16	4 48	2 47	2 13	16 58		n.a.
S 18	12 56	12 4	2 47	11 30	0 53	4 55	1 7	18 15	1 7	19 6	0 45	12 8	2 28	18 3	0 12	12 52	1 22	28 16	4 48	2 49	2 14	16 59		n.a.
M19	12 36	8 35	1 42	10 37	0 44	5 25	1 12	18 1	1 7	19 7	0 45	12 9	2 28	18 3	0 12	12 53	1 22	28 16	4 48	2 50	2 16	17 0		n.a.
T 20	12 15	4 36	0 31	9 43	0 34	5 56	1 16	17 47	1 7	19 8	0 45	12 11	2 28	18 3	0 12	12 53	1 22	28 16	4 48	2 50	2 17	17 0		n.a.
W21	11 54	0 20	0n43	8 49	0 23	6 27	1 21	17 33	1 7	19 9	0 45	12 13	2 28	18 3	0 12	12 54	1 22	28 16	4 48	2 50	2 18	17 1		n.a.
T 22	11 33	4s 1	1 56	7 54	0 13	6 57	1 26	17 19	1 7	19 10	0 46	12 15	2 28	18 3	0 12	12 55	1 22	28 16	4 49	2 50	2 19	17 2		n.a.
F 23	11 12	8 12	3 3	6 58	0 1	7 27	1 30	17 5	1 7	19 11	0 46	12 16	2 28	18 3	0 12	12 55	1 22	28 16	4 49	2 49	2 21	17 3		n.a.
S 24	10 50	11 57	4 0	6 3	0n10	7 57	1 35	16 51	1 7	19 12	0 46	12 18	2 28	18 3	0 12	12 56	1 22	28 16	4 49	2 49	2 22	17 4		n.a.
S 25	10 29	15 2	4 43	5 7	0 22	8 26	1 39	16 36	1 7	19 13	0 46	12 20	2 29	18 3	0 12	12 56	1 22	28 17	4 49	2 48	2 23	17 4		n.a.
M26	10 7	17 14	5 8	4 12	0 35	8 56	1 44	16 21	1 7	19 14	0 46	12 22	2 29	18 3	0 12	12 57	1 22	28 17	4 49	2 48	2 25	17 5		n.a.
T 27	9 45	18 22	5 15	3 18	0 47	9 25	1 48	16 7	1 6	19 15	0 46	12 24	2 29	18 4	0 12	12 58	1 22	28 17	4 49	2 49	2 26	17 6		n.a.
W28	9s23	18s21	5n 3	2s25	0n59	9n54	1n53	15s51	1s 6	19s15	0n46	12n25	2n29	18s 4	0n12	12n58	1n22	28s17	4s50	2n49	2n27	17n 7		n.a.

Julian Day Number = 1648404.5, Delta T = 03h32m24s
Ecliptic obliquity = 23°43'01, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°49'43, Lahiri = - 6°42'43 Julian Calendar 1 Feb. 200 BCE == Greg. Calendar 29 Jan. 200 BCE

The year -199 astronomical counting style corresponds to year 200 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 200 BCE
geocentric

MARCH 200 BCE (-199) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 20 9	7♓ 3'05	23♉27	23♓25	21♈45	21♒19	28♏18	4°R 1	21°R 8	29°R44	8♉10	22°R56	23♍51	8♊54	n.a.	T 1
F 2	10 24 5	8° 2'11	7♒30	25° 2	22°49	22° 6	28°21	3♍57	21♏ 8	29♌42	8°11	22♍54	23°47	9° 1	n.a.	F 2
S 3	10 28 2	9° 1'15	21°23	26°36	23°53	22°52	28°24	3°52	21° 8	29°40	8°13	22°52	23°44	9° 8	n.a.	S 3
S 4	10 31 58	10° 0'18	5♓ 1	28° 4	24°57	23°39	28°27	3°47	21° 8	29°39	8°14	22°51	23°41	9°15	n.a.	S 4
M 5	10 35 55	10°59'17	18°23	29°27	26° 0	24°26	28°30	3°43	21° 8	29°37	8°15	22°D50	23°38	9°21	n.a.	M 5
T 6	10 39 51	11°58'15	1♈27	0♈45	27° 3	25°12	28°33	3°38	21° 7	29°36	8°16	22°50	23°35	9°28	n.a.	T 6
W 7	10 43 48	12°57'11	14°14	1°58	28° 6	25°58	28°35	3°34	21° 7	29°34	8°17	22°51	23°32	9°35	n.a.	W 7
T 8	10 47 44	13°56'04	26°43	3° 4	29° 9	26°45	28°38	3°29	21° 7	29°32	8°18	22°52	23°28	9°41	n.a.	T 8
F 9	10 51 41	14°54'55	8♉58	4° 5	0♉11	27°31	28°40	3°24	21° 6	29°31	8°19	22°53	23°25	9°48	n.a.	F 9
S 10	10 55 38	15°53'44	21° 1	5° 0	1°13	28°18	28°42	3°20	21° 6	29°29	8°20	22°53	23°22	9°55	n.a.	S 10
S 11	10 59 34	16°52'30	2♊57	5°48	2°14	29° 4	28°43	3°15	21° 5	29°28	8°20	22°54	23°19	10° 2	n.a.	S 11
M12	11 3 31	17°51'15	14°50	6°30	3°15	29°50	28°45	3°11	21° 4	29°26	8°21	22°R54	23°16	10° 8	n.a.	M12
T 13	11 7 27	18°49'56	26°44	7° 6	4°16	0♓36	28°46	3° 7	21° 4	29°24	8°22	22°54	23°12	10°15	n.a.	T 13
W14	11 11 24	19°48'36	8♋45	7°35	5°16	1°23	28°47	3° 2	21° 3	29°23	8°23	22°54	23° 9	10°22	n.a.	W14
T 15	11 15 20	20°47'13	20°56	7°58	6°16	2° 9	28°48	2°58	21° 2	29°21	8°24	22°53	23° 6	10°29	n.a.	T 15
F 16	11 19 17	21°45'48	3♌22	8°14	7°16	2°55	28°49	2°54	21° 1	29°20	8°25	22°53	23° 3	10°35	n.a.	F 16
S 17	11 23 13	22°44'21	16° 5	8°25	8°15	3°41	28°50	2°49	21° 1	29°18	8°25	22°D53	23° 0	10°42	n.a.	S 17
S 18	11 27 10	23°42'51	29° 7	8°R28	9°13	4°27	28°50	2°45	21° 0	29°17	8°26	22°53	22°57	10°49	n.a.	S 18
M19	11 31 6	24°41'19	12♍29	8°26	10°12	5°13	28°50	2°41	20°59	29°15	8°27	22°53	22°53	10°55	n.a.	M19
T 20	11 35 3	25°39'45	26°11	8°18	11° 9	5°59	28°R50	2°37	20°58	29°14	8°27	22°R53	22°50	11° 2	n.a.	T 20
W21	11 39 0	26°38'10	10♎10	8° 4	12° 7	6°45	28°50	2°33	20°57	29°13	8°28	22°53	22°47	11° 9	n.a.	W21
T 22	11 42 56	27°36'32	24°22	7°46	13° 3	7°31	28°50	2°29	20°55	29°11	8°29	22°53	22°44	11°16	n.a.	T 22
F 23	11 46 53	28°34'53	8♏43	7°22	14° 0	8°16	28°49	2°25	20°54	29°10	8°29	22°52	22°41	11°22	n.a.	F 23
S 24	11 50 49	29°33'11	23° 7	6°55	14°55	9° 2	28°49	2°21	20°53	29° 8	8°30	22°52	22°38	11°29	n.a.	S 24
S 25	11 54 46	0♈31'29	7♐32	6°23	15°51	9°48	28°48	2°17	20°52	29° 7	8°30	22°51	22°34	11°36	n.a.	S 25
M26	11 58 42	1°29'44	21°51	5°49	16°45	10°34	28°47	2°13	20°51	29° 6	8°31	22°51	22°31	11°42	n.a.	M26
T 27	12 2 39	2°27'58	6♑ 3	5°12	17°39	11°19	28°45	2°10	20°49	29° 4	8°31	22°D50	22°28	11°49	n.a.	T 27
W28	12 6 35	3°26'11	20° 5	4°33	18°33	12° 5	28°44	2° 6	20°48	29° 3	8°32	22°51	22°25	11°56	n.a.	W28
T 29	12 10 32	4°24'22	3♒55	3°54	19°26	12°50	28°42	2° 3	20°47	29° 2	8°32	22°52	22°22	12° 3	n.a.	T 29
F 30	12 14 29	5°22'31	17°34	3°14	20°18	13°36	28°41	1°59	20°45	29° 0	8°33	22°53	22°18	12° 9	n.a.	F 30
S 31	12 18 25	6♈20'39	0♓59	2♈35	21♉ 9	14♓21	28♏38	1♍56	20♏44	28♌59	8♉33	22♍54	22♍15	12♊16	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	9s 1	17s11	4n32	1s33	1n12	10n23	1n58	15s36	1s 6	19s16	0n46	12n27	2n29	18s 3	0n12	12n59	1n22	28s17	4s50	2n50	2n28	17n 8			n.a.
F 2	8 39	14 59	3 45	0 43	1 24	10 52	2 2	15 21	1 6	19 17	0 46	12 29	2 29	18 3	0 12	12 59	1 22	28 17	4 50	2 51	2 30	17 8			n.a.
S 3	8 17	11 56	2 45	0n 6	1 36	11 20	2 7	15 6	1 6	19 17	0 46	12 31	2 29	18 3	0 12	13 0	1 22	28 17	4 50	2 52	2 31	17 9			n.a.
S 4	7 54	8 17	1 37	0 52	1 48	11 48	2 11	14 50	1 6	19 18	0 46	12 32	2 29	18 3	0 12	13 1	1 22	28 17	4 50	2 52	2 32	17 10			n.a.
M 5	7 32	4 16	0 25	1 36	1 59	12 16	2 16	14 34	1 6	19 19	0 46	12 34	2 29	18 3	0 12	13 1	1 22	28 17	4 51	2 53	2 33	17 11			n.a.
T 6	7 9	0 8	0s48	2 17	2 10	12 43	2 20	14 18	1 6	19 19	0 46	12 36	2 29	18 3	0 12	13 2	1 22	28 18	4 51	2 52	2 35	17 12			n.a.
W 7	6 46	3n54	1 56	2 56	2 21	13 10	2 25	14 2	1 6	19 20	0 46	12 37	2 29	18 3	0 12	13 2	1 22	28 18	4 51	2 52	2 36	17 12			n.a.
T 8	6 23	7 40	2 57	3 32	2 30	13 37	2 29	13 46	1 6	19 20	0 46	12 39	2 29	18 3	0 12	13 3	1 22	28 18	4 51	2 52	2 37	17 13			n.a.
F 9	6 1	11 2	3 49	4 4	2 39	14 4	2 34	13 30	1 6	19 21	0 46	12 41	2 29	18 3	0 12	13 3	1 22	28 18	4 51	2 52	2 39	17 14			n.a.
S 10	5 38	13 53	4 29	4 34	2 48	14 30	2 38	13 14	1 6	19 21	0 46	12 42	2 29	18 3	0 12	13 4	1 22	28 18	4 52	2 51	2 40	17 15			n.a.
S 11	5 14	16 7	4 58	5 0	2 55	14 55	2 42	12 57	1 6	19 21	0 46	12 44	2 29	18 3	0 12	13 5	1 22	28 18	4 52	2 51	2 41	17 15			n.a.
M12	4 51	17 39	5 14	5 23	3 1	15 21	2 47	12 41	1 5	19 22	0 46	12 46	2 29	18 2	0 12	13 5	1 22	28 18	4 52	2 51	2 42	17 16			n.a.
T 13	4 28	18 24	5 16	5 42	3 7	15 46	2 51	12 24	1 5	19 22	0 46	12 47	2 29	18 2	0 12	13 6	1 22	28 19	4 52	2 51	2 44	17 17			n.a.
W14	4 5	18 21	5 5	5 58	3 11	16 11	2 55	12 7	1 5	19 22	0 46	12 49	2 29	18 2	0 12	13 6	1 22	28 19	4 52	2 51	2 45	17 18			n.a.
T 15	3 42	17 27	4 40	6 10	3 14	16 35	2 59	11 51	1 5	19 22	0 46	12 50	2 29	18 2	0 12	13 7	1 22	28 19	4 53	2 51	2 46	17 18			n.a.
F 16	3 18	15 43	4 2	6 18	3 16	16 59	3 4	11 34	1 5	19 23	0 46	12 52	2 29	18 2	0 12	13 7	1 22	28 19	4 53	2 51	2 47	17 19			n.a.
S 17	2 55	13 11	3 10	6 23	3 17	17 22	3 8	11 17	1 5	19 23	0 46	12 54	2 29	18 1	0 12	13 8	1 22	28 19	4 53	2 51	2 49	17 20			n.a.
S 18	2 31	9 55	2 8	6 23	3 16	17 45	3 12	10 59	1 5	19 23	0 46	12 55	2 29	18 1	0 12	13 8	1 22	28 19	4 53	2 51	2 50	17 21			n.a.
M19	2 8	6 4	0 57	6 20	3 14	18 8	3 16	10 42	1 4	19 23	0 46	12 57	2 29	18 1	0 12	13 9	1 22	28 20	4 54	2 51	2 51	17 21			n.a.
T 20	1 45	1 49	0n18	6 14	3 10	18 30	3 20	10 25	1 4	19 23	0 46	12 58	2 29	18 1	0 12	13 9	1 22	28 20	4 54	2 51	2 52	17 22			n.a.
W21	1 21	2s38	1 34	6 4	3 5	18 52	3 23	10 8	1 4	19 23	0 46	12 59	2 28	18 0	0 12	13 10	1 22	28 20	4 54	2 51	2 54	17 23			n.a.
T 22	0 58	6 59	2 46	5 50	2 59	19 13	3 27	9 50	1 4	19 23	0 46	13 1	2 28	18 0	0 12	13 10	1 22	28 20	4 54	2 51	2 55	17 24			n.a.
F 23	0 34	10 59	3 48	5 34	2 51	19 34	3 31	9 33	1 4	19 22	0 46	13 2	2 28	18 0	0 12	13 11	1 22	28 20	4 54	2 52	2 56	17 24			n.a.
S 24	0 11	14 20	4 35	5 14	2 41	19 55	3 34	9 15	1 3	19 22	0 46	13 4	2 28	17 59	0 12	13 11	1 22	28 20	4 55	2 52	2 58	17 25			n.a.
S 25	0n13	16 48	5 6	4 52	2 31	20 14	3 38	8 57	1 3	19 22	0 46	13 5	2 28	17 59	0 12	13 12	1 22	28 21	4 55	2 52	2 59	17 26			n.a.
M26	0 36	18 12	5 17	4 27	2 19	20 34	3 41	8 40	1 3	19 22	0 46	13 6	2 28	17 59	0 12	13 12	1 22	28 21	4 55	2 52	3 0	17 27			n.a.
T 27	1 0	18 27	5 8	4 1	2 6	20 53	3 45	8 22	1 3	19 22	0 46	13 7	2 28	17 58	0 12	13 13	1 22	28 21	4 55	2 52	3 1	17 27			n.a.
W28	1 23	17 33	4 42	3 32	1 52	21 11	3 48	8 4	1 2	19 21	0 46	13 9	2 28	17 58	0 12	13 13	1 22	28 21	4 55	2 52	3 3	17 28			n.a.
T 29	1 46	15 37	3 59	3 3	1 37	21 29	3 51	7 46	1 2	19 21	0 46	13 10	2 28	17 58	0 12	13 14	1 22	28 21	4 56	2 52	3 4	17 29			n.a.
F 30	2 10	12 50	3 3	2 32	1 21	21 47	3 54	7 28	1 2	19 20	0 46	13 11	2 28	17 57	0 12	13 14	1 22	28 21	4 56	2 52	3 5	17 29			n.a.
S 31	2n33	9s24	1n58	2n 2	1n 5	22n 3	3n57	7s10	1s 2	19s20	0n46	13n12	2n28	17s57	0n12	13n14	1n22	28s22	4s56	2n51	3n 6	17n30			n.a.

Julian Day Number = 1648432.5, Delta T = 03h32m24s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°49'39, Lahiri = - 6°42'39 Julian Calendar 1 March 200 BCE == Greg. Calendar 26 Feb. 200 BCE

The year -199 astronomical counting style corresponds to year 200 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 200 BCE
geocentric

APRIL 200 BCE (-199) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 22 22	7♈18'45	14♓11	1°R57	22♉ 0	15♓ 7	28°R36	1°R52	20°R42	28°R58	8♑33	22♍54	22♍12	12♊23	n.a.	S 1
M 2	12 26 18	8°16'49	27°11	1♈20	22°50	15°52	28♏34	1♍49	20♏41	28♎57	8°34	22°R54	22° 9	12°29	n.a.	M 2
T 3	12 30 15	9°14'52	9♈56	0°46	23°40	16°37	28°31	1°46	20°39	28°56	8°34	22°54	22° 6	12°36	n.a.	T 3
W 4	12 34 11	10°12'53	22°29	0°15	24°28	17°23	28°29	1°43	20°37	28°54	8°34	22°52	22° 3	12°43	n.a.	W 4
T 5	12 38 8	11°10'52	4♉50	29♓47	25°16	18° 8	28°26	1°39	20°36	28°53	8°34	22°50	21°59	12°50	n.a.	T 5
F 6	12 42 4	12° 8'50	17° 0	29°23	26° 3	18°53	28°23	1°37	20°34	28°52	8°35	22°47	21°56	12°56	n.a.	F 6
S 7	12 46 1	13° 6'45	29° 2	29° 3	26°49	19°38	28°19	1°34	20°32	28°51	8°35	22°44	21°53	13° 3	n.a.	S 7
S 8	12 49 57	14° 4'39	10♊57	28°47	27°35	20°23	28°16	1°31	20°30	28°50	8°35	22°41	21°50	13°10	n.a.	S 8
M 9	12 53 54	15° 2'31	22°49	28°36	28°19	21° 8	28°12	1°28	20°29	28°49	8°35	22°38	21°47	13°17	n.a.	M 9
T 10	12 57 51	16° 0'21	4♋43	28°29	29° 2	21°53	28° 8	1°25	20°27	28°48	8°35	22°37	21°43	13°23	n.a.	T 10
W11	13 1 47	16°58'10	16°42	28°D27	29°45	22°38	28° 4	1°23	20°25	28°47	8°35	22°D36	21°40	13°30	n.a.	W11
T 12	13 5 44	17°55'56	28°51	28°29	0♊26	23°23	28° 0	1°20	20°23	28°46	8°35	22°37	21°37	13°37	n.a.	T 12
F 13	13 9 40	18°53'41	11♌16	28°36	1° 6	24° 8	27°56	1°18	20°21	28°45	8°R35	22°38	21°34	13°43	n.a.	F 13
S 14	13 13 37	19°51'24	23°59	28°48	1°46	24°53	27°52	1°16	20°19	28°44	8°35	22°39	21°31	13°50	n.a.	S 14
S 15	13 17 33	20°49'05	7♍ 5	29° 4	2°24	25°37	27°47	1°13	20°17	28°43	8°35	22°41	21°28	13°57	n.a.	S 15
M16	13 21 30	21°46'45	20°35	29°25	3° 0	26°22	27°42	1°11	20°15	28°42	8°35	22°R42	21°24	14° 4	n.a.	M16
T 17	13 25 26	22°44'22	4♎30	29°50	3°36	27° 7	27°37	1° 9	20°13	28°42	8°35	22°41	21°21	14°10	n.a.	T 17
W18	13 29 23	23°41'59	18°48	0♈19	4°10	27°51	27°32	1° 7	20°11	28°41	8°35	22°39	21°18	14°17	n.a.	W18
T 19	13 33 20	24°39'34	3♏24	0°52	4°43	28°36	27°27	1° 5	20° 9	28°40	8°35	22°36	21°15	14°24	n.a.	T 19
F 20	13 37 16	25°37'08	18°12	1°30	5°14	29°20	27°22	1° 4	20° 7	28°39	8°35	22°32	21°12	14°30	n.a.	F 20
S 21	13 41 13	26°34'40	3♐ 4	2°11	5°44	0♈ 5	27°16	1° 2	20° 4	28°38	8°34	22°27	21° 9	14°37	n.a.	S 21
S 22	13 45 9	27°32'12	17°51	2°56	6°13	0°49	27°11	1° 0	20° 2	28°38	8°34	22°22	21° 5	14°44	n.a.	S 22
M23	13 49 6	28°29'43	2♑28	3°44	6°40	1°33	27° 5	0°59	20° 0	28°37	8°34	22°19	21° 2	14°51	n.a.	M23
T 24	13 53 2	29°27'12	16°48	4°36	7° 5	2°17	26°59	0°58	19°58	28°37	8°34	22°17	20°59	14°57	n.a.	T 24
W25	13 56 59	0♉24'41	0♒49	5°32	7°29	3° 2	26°53	0°56	19°55	28°36	8°33	22°D16	20°56	15° 4	n.a.	W25
T 26	14 0 55	1°22'09	14°31	6°31	7°51	3°46	26°47	0°55	19°53	28°35	8°33	22°16	20°53	15°11	n.a.	T 26
F 27	14 4 52	2°19'36	27°54	7°33	8°11	4°30	26°41	0°54	19°51	28°35	8°33	22°18	20°49	15°18	n.a.	F 27
S 28	14 8 49	3°17'02	11♓ 0	8°38	8°29	5°14	26°34	0°53	19°49	28°34	8°32	22°19	20°46	15°24	n.a.	S 28
S 29	14 12 45	4°14'27	23°52	9°46	8°45	5°58	26°28	0°52	19°46	28°34	8°32	22°R20	20°43	15°31	n.a.	S 29
M30	14 16 42	5♉11'51	6♈31	10♈57	9♊ 0	6♈42	26♏21	0♍51	19♏44	28♎33	8♑31	22♍19	20♍40	15♊38	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	2n56	5s33	0n48	1n31	0n49	22n20	4n 0	6s52	1s 1	19s20	0n46	13n13	2n28	17s57	0n12	13n15	1n22	28s22	4s56	2n51	3n 8	17n31		n.a.
M 2	3 19	1 30	0s24	1 1	0 32	22 36	4 2	6 34	1 1	19 19	0 46	13 14	2 27	17 56	0 12	13 15	1 22	28 22	4 57	2 51	3 9	17 32		n.a.
T 3	3 42	2n34	1 33	0 32	0 15	22 51	4 5	6 16	1 1	19 18	0 46	13 16	2 27	17 56	0 12	13 16	1 22	28 22	4 57	2 51	3 10	17 32		n.a.
W 4	4 5	6 26	2 36	0 4	0s 2	23 6	4 7	5 58	1 1	19 18	0 46	13 17	2 27	17 55	0 12	13 16	1 22	28 22	4 57	2 52	3 12	17 33		n.a.
T 5	4 28	9 58	3 31	0s22	0 18	23 20	4 9	5 40	1 0	19 17	0 46	13 18	2 27	17 55	0 12	13 16	1 22	28 23	4 57	2 53	3 13	17 34		n.a.
F 6	4 51	13 2	4 16	0 47	0 35	23 33	4 11	5 22	1 0	19 16	0 46	13 19	2 27	17 54	0 12	13 17	1 22	28 23	4 57	2 54	3 14	17 34		n.a.
S 7	5 14	15 29	4 48	1 9	0 50	23 46	4 13	5 4	1 0	19 16	0 46	13 19	2 27	17 54	0 12	13 17	1 22	28 23	4 58	2 55	3 15	17 35		n.a.
S 8	5 37	17 16	5 8	1 29	1 5	23 59	4 15	4 46	1 0	19 15	0 46	13 20	2 27	17 53	0 12	13 18	1 22	28 23	4 58	2 56	3 17	17 36		n.a.
M 9	6 0	18 17	5 14	1 47	1 20	24 11	4 17	4 27	0 59	19 14	0 46	13 21	2 27	17 53	0 12	13 18	1 22	28 24	4 58	2 57	3 18	17 36		n.a.
T 10	6 22	18 31	5 7	2 2	1 33	24 22	4 18	4 9	0 59	19 13	0 46	13 22	2 26	17 52	0 12	13 18	1 22	28 24	4 58	2 58	3 19	17 37		n.a.
W11	6 44	17 55	4 47	2 15	1 46	24 33	4 19	3 51	0 59	19 12	0 46	13 23	2 26	17 52	0 12	13 19	1 22	28 24	4 58	2 58	3 20	17 38		n.a.
T 12	7 7	16 29	4 14	2 25	1 58	24 43	4 21	3 33	0 58	19 12	0 46	13 24	2 26	17 51	0 12	13 19	1 22	28 24	4 59	2 58	3 22	17 38		n.a.
F 13	7 29	14 16	3 28	2 32	2 9	24 53	4 21	3 14	0 58	19 11	0 46	13 24	2 26	17 51	0 12	13 19	1 22	28 24	4 59	2 57	3 23	17 39		n.a.
S 14	7 51	11 18	2 31	2 37	2 19	25 2	4 22	2 56	0 58	19 10	0 46	13 25	2 26	17 50	0 12	13 19	1 22	28 25	4 59	2 57	3 24	17 40		n.a.
S 15	8 13	7 42	1 25	2 39	2 29	25 10	4 23	2 38	0 57	19 9	0 46	13 26	2 26	17 50	0 12	13 20	1 22	28 25	4 59	2 56	3 25	17 40		n.a.
M16	8 35	3 36	0 12	2 38	2 37	25 18	4 23	2 20	0 57	19 8	0 46	13 26	2 25	17 49	0 12	13 20	1 22	28 25	5 0	2 56	3 27	17 41		n.a.
T 17	8 57	0s50	1n 4	2 35	2 45	25 25	4 23	2 1	0 56	19 6	0 46	13 27	2 25	17 49	0 12	13 20	1 22	28 25	5 0	2 56	3 28	17 42		n.a.
W18	9 18	5 19	2 18	2 29	2 51	25 31	4 23	1 43	0 56	19 5	0 46	13 27	2 25	17 48	0 12	13 21	1 22	28 25	5 0	2 57	3 29	17 42		n.a.
T 19	9 40	9 36	3 24	2 21	2 57	25 37	4 22	1 25	0 56	19 4	0 46	13 28	2 25	17 48	0 12	13 21	1 22	28 26	5 0	2 58	3 31	17 43		n.a.
F 20	10 1	13 20	4 18	2 11	3 2	25 42	4 21	1 7	0 55	19 3	0 46	13 28	2 25	17 47	0 12	13 21	1 22	28 26	5 0	3 0	3 32	17 44		n.a.
S 21	10 22	16 13	4 54	1 58	3 6	25 47	4 20	0 48	0 55	19 2	0 46	13 29	2 25	17 46	0 12	13 21	1 22	28 26	5 1	3 2	3 33	17 44		n.a.
S 22	10 43	18 0	5 10	1 43	3 9	25 51	4 19	0 30	0 55	19 1	0 46	13 29	2 24	17 46	0 12	13 21	1 22	28 26	5 1	3 4	3 34	17 45		n.a.
M23	11 4	18 35	5 6	1 25	3 12	25 54	4 18	0 12	0 54	18 59	0 46	13 30	2 24	17 45	0 12	13 22	1 22	28 27	5 1	3 5	3 36	17 46		n.a.
T 24	11 24	17 58	4 43	1 6	3 13	25 57	4 16	0n 6	0 54	18 58	0 46	13 30	2 24	17 45	0 12	13 22	1 21	28 27	5 1	3 6	3 37	17 46		n.a.
W25	11 45	16 15	4 4	0 45	3 14	25 58	4 13	0 24	0 53	18 57	0 46	13 30	2 24	17 44	0 12	13 22	1 21	28 27	5 2	3 6	3 38	17 47		n.a.
T 26	12 5	13 37	3 11	0 21	3 14	26 0	4 11	0 42	0 53	18 55	0 46	13 31	2 24	17 43	0 12	13 22	1 21	28 27	5 2	3 6	3 39	17 48		n.a.
F 27	12 25	10 20	2 9	0n 4	3 14	26 0	4 8	1 0	0 53	18 54	0 46	13 31	2 24	17 43	0 12	13 22	1 21	28 28	5 2	3 5	3 41	17 48		n.a.
S 28	12 45	6 35	1 1	0 31	3 12	26 0	4 5	1 18	0 52	18 52	0 46	13 31	2 23	17 42	0 12	13 23	1 21	28 28	5 2	3 5	3 42	17 49		n.a.
S 29	13 5	2 35	0s 8	1 0	3 10	25 59	4 1	1 36	0 52	18 51	0 46	13 31	2 23	17 42	0 12	13 23	1 21	28 28	5 2	3 5	3 43	17 49		n.a.
M30	13n24	1n27	1s16	1n31	3s 7	25n58	3n57	1n54	0s51	18s50	0n46	13n31	2n23	17s41	0n12	13n23	1n21	28s28	5s 3	3n 5	3n44	17n50		n.a.

Julian Day Number = 1648463.5, Delta T = 03h32m23s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°49'35, Lahiri = - 6°42'35 Julian Calendar 1 Apr. 200 BCE == Greg. Calendar 29 March 200 BCE

The year -199 astronomical counting style corresponds to year 200 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 200 BCE
geocentric

MAY 200 BCE (-199) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 20 38	6♉ 9'14	18♈59	12♈11	9♊12	7♈26	26°R15	0°R51	19°R42	28°R33	8°R31	22°R16	20♍37	15♊44	n.a.	T 1
W 2	14 24 35	7° 6'37	1♉17	13°28	9°23	8° 9	26♏ 8	0♍50	19♏39	28♎33	8♑31	22♍10	20°34	15°51	n.a.	W 2
T 3	14 28 31	8° 3'58	13°26	14°48	9°31	8°53	26° 1	0°50	19°37	28°32	8°30	22° 4	20°30	15°58	n.a.	T 3
F 4	14 32 28	9° 1'19	25°29	16°10	9°37	9°37	25°54	0°49	19°34	28°32	8°29	21°55	20°27	16° 5	n.a.	F 4
S 5	14 36 24	9°58'39	7♊26	17°36	9°41	10°20	25°47	0°49	19°32	28°32	8°29	21°46	20°24	16°11	n.a.	S 5
S 6	14 40 21	10°55'57	19°19	19° 4	9°R42	11° 4	25°40	0°49	19°30	28°31	8°28	21°37	20°21	16°18	n.a.	S 6
M 7	14 44 18	11°53'15	1♋11	20°34	9°41	11°47	25°33	0°D49	19°27	28°31	8°28	21°30	20°18	16°25	n.a.	M 7
T 8	14 48 14	12°50'32	13° 3	22° 8	9°38	12°31	25°26	0°49	19°25	28°31	8°27	21°24	20°15	16°32	n.a.	T 8
W 9	14 52 11	13°47'47	25° 1	23°44	9°32	13°14	25°18	0°49	19°22	28°31	8°26	21°20	20°11	16°38	n.a.	W 9
T 10	14 56 7	14°45'02	7♌ 8	25°23	9°24	13°58	25°11	0°49	19°20	28°31	8°26	21°18	20° 8	16°45	n.a.	T 10
F 11	15 0 4	15°42'16	19°29	27° 4	9°14	14°41	25° 3	0°49	19°17	28°30	8°25	21°D17	20° 5	16°52	n.a.	F 11
S 12	15 4 0	16°39'28	2♍ 9	28°48	9° 1	15°24	24°56	0°50	19°15	28°30	8°24	21°18	20° 2	16°58	n.a.	S 12
S 13	15 7 57	17°36'40	15°11	0♉35	8°46	16° 7	24°48	0°50	19°12	28°30	8°24	21°R19	19°59	17° 5	n.a.	S 13
M14	15 11 53	18°33'51	28°41	2°24	8°28	16°50	24°41	0°51	19°10	28°D30	8°23	21°19	19°55	17°12	n.a.	M14
T 15	15 15 50	19°31'00	12♎39	4°16	8° 8	17°33	24°33	0°52	19° 8	28°30	8°22	21°17	19°52	17°19	n.a.	T 15
W16	15 19 47	20°28'10	27° 4	6°10	7°46	18°16	24°26	0°52	19° 5	28°30	8°21	21°13	19°49	17°25	n.a.	W16
T 17	15 23 43	21°25'18	11♏53	8° 6	7°22	18°59	24°18	0°53	19° 3	28°31	8°20	21° 7	19°46	17°32	n.a.	T 17
F 18	15 27 40	22°22'26	26°59	10° 5	6°55	19°42	24°10	0°54	19° 0	28°31	8°20	20°59	19°43	17°39	n.a.	F 18
S 19	15 31 36	23°19'34	12♐11	12° 6	6°27	20°25	24° 3	0°55	18°58	28°31	8°19	20°50	19°40	17°45	n.a.	S 19
S 20	15 35 33	24°16'42	27°20	14° 9	5°57	21° 7	23°55	0°57	18°55	28°31	8°18	20°41	19°36	17°52	n.a.	S 20
M21	15 39 29	25°13'49	12♑15	16°14	5°25	21°50	23°47	0°58	18°53	28°31	8°17	20°34	19°33	17°59	n.a.	M21
T 22	15 43 26	26°10'56	26°49	18°20	4°52	22°33	23°40	0°59	18°50	28°31	8°16	20°28	19°30	18° 6	n.a.	T 22
W23	15 47 22	27° 8'03	10♒58	20°28	4°18	23°15	23°32	1° 1	18°48	28°32	8°15	20°25	19°27	18°12	n.a.	W23
T 24	15 51 19	28° 5'10	24°41	22°37	3°42	23°58	23°25	1° 2	18°46	28°32	8°14	20°D24	19°24	18°19	n.a.	T 24
F 25	15 55 16	29° 2'17	8♓ 0	24°47	3° 6	24°40	23°17	1° 4	18°43	28°32	8°13	20°24	19°20	18°26	n.a.	F 25
S 26	15 59 12	29°59'24	20°58	26°57	2°29	25°22	23° 9	1° 6	18°41	28°33	8°12	20°R25	19°17	18°33	n.a.	S 26
S 27	16 3 9	0♊56'31	3♈37	29° 8	1°51	26° 5	23° 2	1° 8	18°38	28°33	8°11	20°24	19°14	18°39	n.a.	S 27
M28	16 7 5	1°53'38	16° 3	1♊19	1°14	26°47	22°54	1°10	18°36	28°34	8°10	20°21	19°11	18°46	n.a.	M28
T 29	16 11 2	2°50'45	28°17	3°30	0°37	27°29	22°47	1°12	18°34	28°34	8° 9	20°16	19° 8	18°53	n.a.	T 29
W30	16 14 58	3°47'53	10♉24	5°40	29♉59	28°11	22°39	1°14	18°31	28°35	8° 8	20° 8	19° 5	18°59	n.a.	W30
T 31	16 18 55	4♊45'00	22♉24	7♊50	29♉23	28♈53	22♏32	1♍16	18♏29	28♎35	8♑ 7	19♍57	19♍ 1	19♊ 6	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13n44	5n22	2s19	2n 3	3s 4	25n55	3n53	2n12	0s51	18s48	0n45	13n31	2n23	17s40	0n12	13n23	1n21	28s28	5s 3	3n 6	3n46	17n51		n.a.
W 2	14 3	9 1	3 15	2 37	3 0	25 52	3 48	2 30	0 50	18 46	0 45	13 31	2 23	17 40	0 12	13 23	1 21	28 29	5 3	3 8	3 47	17 51		n.a.
T 3	14 22	12 14	4 1	3 13	2 55	25 48	3 43	2 48	0 50	18 45	0 45	13 31	2 22	17 39	0 12	13 23	1 21	28 29	5 3	3 11	3 48	17 52		n.a.
F 4	14 40	14 54	4 35	3 50	2 50	25 44	3 37	3 6	0 49	18 43	0 45	13 31	2 22	17 38	0 12	13 23	1 21	28 29	5 3	3 14	3 49	17 53		n.a.
S 5	14 59	16 55	4 57	4 28	2 44	25 38	3 31	3 23	0 49	18 42	0 45	13 31	2 22	17 38	0 12	13 23	1 21	28 29	5 4	3 18	3 51	17 53		n.a.
S 6	15 17	18 11	5 6	5 8	2 37	25 32	3 25	3 41	0 49	18 40	0 45	13 31	2 22	17 37	0 12	13 23	1 21	28 30	5 4	3 22	3 52	17 54		n.a.
M 7	15 35	18 40	5 2	5 49	2 30	25 25	3 18	3 59	0 48	18 39	0 45	13 31	2 22	17 36	0 12	13 23	1 21	28 30	5 4	3 25	3 53	17 54		n.a.
T 8	15 52	18 20	4 45	6 31	2 23	25 17	3 10	4 16	0 48	18 37	0 45	13 31	2 22	17 36	0 12	13 23	1 21	28 30	5 4	3 27	3 55	17 55		n.a.
W 9	16 10	17 11	4 16	7 14	2 15	25 9	3 2	4 34	0 47	18 35	0 45	13 31	2 21	17 35	0 12	13 23	1 21	28 30	5 4	3 29	3 56	17 56		n.a.
T 10	16 27	15 15	3 34	7 58	2 6	24 59	2 54	4 51	0 47	18 34	0 45	13 30	2 21	17 34	0 12	13 23	1 21	28 31	5 5	3 29	3 57	17 56		n.a.
F 11	16 44	12 35	2 42	8 44	1 57	24 49	2 45	5 9	0 46	18 32	0 45	13 30	2 21	17 34	0 12	13 23	1 21	28 31	5 5	3 29	3 58	17 57		n.a.
S 12	17 1	9 16	1 41	9 30	1 48	24 37	2 36	5 26	0 46	18 30	0 44	13 30	2 21	17 33	0 12	13 23	1 21	28 31	5 5	3 29	4 0	17 57		n.a.
S 13	17 17	5 24	0 33	10 17	1 38	24 25	2 26	5 43	0 45	18 28	0 44	13 29	2 21	17 32	0 12	13 23	1 21	28 31	5 5	3 29	4 1	17 58		n.a.
M14	17 33	1 8	0n39	11 4	1 28	24 12	2 16	6 0	0 45	18 27	0 44	13 29	2 20	17 32	0 12	13 23	1 21	28 32	5 5	3 29	4 2	17 59		n.a.
T 15	17 49	3s20	1 52	11 52	1 18	23 58	2 5	6 17	0 44	18 25	0 44	13 29	2 20	17 31	0 12	13 23	1 21	28 32	5 6	3 30	4 3	17 59		n.a.
W16	18 4	7 46	2 59	12 41	1 7	23 44	1 54	6 34	0 44	18 23	0 44	13 28	2 20	17 30	0 12	13 23	1 21	28 32	5 6	3 31	4 5	18 0		n.a.
T 17	18 20	11 50	3 56	13 29	0 56	23 28	1 42	6 51	0 43	18 21	0 44	13 28	2 20	17 30	0 12	13 23	1 21	28 32	5 6	3 34	4 6	18 0		n.a.
F 18	18 35	15 12	4 38	14 18	0 45	23 12	1 30	7 8	0 43	18 20	0 44	13 27	2 20	17 29	0 12	13 23	1 21	28 33	5 6	3 37	4 7	18 1		n.a.
S 19	18 49	17 33	5 0	15 6	0 34	22 55	1 18	7 25	0 42	18 18	0 44	13 26	2 19	17 28	0 12	13 23	1 21	28 33	5 6	3 41	4 8	18 1		n.a.
S 20	19 4	18 40	5 2	15 54	0 23	22 37	1 5	7 42	0 42	18 16	0 43	13 26	2 19	17 28	0 12	13 23	1 21	28 33	5 7	3 44	4 10	18 2		n.a.
M21	19 18	18 28	4 42	16 42	0 12	22 18	0 52	7 58	0 41	18 14	0 43	13 25	2 19	17 27	0 12	13 23	1 21	28 33	5 7	3 47	4 11	18 3		n.a.
T 22	19 31	17 2	4 5	17 28	0 1	21 59	0 38	8 15	0 40	18 13	0 43	13 24	2 19	17 26	0 12	13 23	1 21	28 34	5 7	3 49	4 12	18 3		n.a.
W23	19 45	14 35	3 14	18 14	0n10	21 39	0 25	8 31	0 40	18 11	0 43	13 24	2 19	17 26	0 12	13 23	1 20	28 34	5 7	3 50	4 13	18 4		n.a.
T 24	19 58	11 22	2 12	18 58	0 21	21 19	0 11	8 48	0 39	18 9	0 43	13 23	2 18	17 25	0 12	13 22	1 20	28 34	5 7	3 51	4 15	18 4		n.a.
F 25	20 11	7 39	1 6	19 41	0 31	20 58	0s 3	9 4	0 39	18 7	0 43	13 22	2 18	17 24	0 12	13 22	1 20	28 34	5 7	3 51	4 16	18 5		n.a.
S 26	20 23	3 40	0s 3	20 22	0 41	20 37	0 17	9 20	0 38	18 5	0 43	13 21	2 18	17 24	0 12	13 22	1 20	28 35	5 8	3 51	4 17	18 5		n.a.
S 27	20 35	0n24	1 10	21 1	0 50	20 16	0 31	9 36	0 38	18 4	0 42	13 20	2 18	17 23	0 12	13 22	1 20	28 35	5 8	3 51	4 18	18 6		n.a.
M28	20 47	4 22	2 12	21 37	0 59	19 54	0 45	9 52	0 37	18 2	0 42	13 20	2 18	17 22	0 12	13 22	1 20	28 35	5 8	3 52	4 20	18 6		n.a.
T 29	20 58	8 5	3 6	22 12	1 7	19 33	0 59	10 8	0 36	18 0	0 42	13 19	2 17	17 22	0 12	13 22	1 20	28 35	5 8	3 54	4 21	18 7		n.a.
W30	21 9	11 26	3 52	22 44	1 15	19 12	1 13	10 24	0 36	17 58	0 42	13 18	2 17	17 21	0 12	13 21	1 20	28 35	5 8	3 57	4 22	18 8		n.a.
T 31	21n20	14n17	4s27	23n13	1n22	18n51	1s26	10n39	0s35	17s57	0n42	13n17	2n17	17s20	0n12	13n21	1n20	28s36	5s 8	4n 1	4n24	18n 8		n.a.

Julian Day Number = 1648493.5, Delta T = 03h32m22s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°49'31, Lahiri = - 6°42'31 Julian Calendar 1 May 200 BCE == Greg. Calendar 28 Apr. 200 BCE

The year -199 astronomical counting style corresponds to year 200 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 200 BCE
geocentric

JUNE 200 BCE (-199) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 22 51	5♊42'07	4♊20	9♊59	28°R47	29♈35	22°R25	1♍19	18°R27	28♎36	8°R 6	19°R45	18♍58	19♊13	n.a.	F 1
S 2	16 26 48	6°39'15	16°13	12° 6	28♉13	0♉17	22♏18	1°21	18♏24	28°36	8♑ 4	19♍32	18°55	19°20	n.a.	S 2
S 3	16 30 45	7°36'22	28° 5	14°12	27°39	0°59	22°10	1°24	18°22	28°37	8° 3	19°18	18°52	19°26	n.a.	S 3
M 4	16 34 41	8°33'30	9♋57	16°17	27° 7	1°41	22° 3	1°26	18°20	28°38	8° 2	19° 6	18°49	19°33	n.a.	M 4
T 5	16 38 38	9°30'37	21°51	18°20	26°36	2°22	21°56	1°29	18°17	28°38	8° 1	18°57	18°46	19°40	n.a.	T 5
W 6	16 42 34	10°27'45	3♌50	20°22	26° 8	3° 4	21°49	1°32	18°15	28°39	8° 0	18°50	18°42	19°47	n.a.	W 6
T 7	16 46 31	11°24'52	15°57	22°22	25°41	3°46	21°42	1°35	18°13	28°40	7°59	18°45	18°39	19°53	n.a.	T 7
F 8	16 50 27	12°21'59	28°17	24°20	25°16	4°27	21°36	1°38	18°11	28°41	7°57	18°43	18°36	20° 0	n.a.	F 8
S 9	16 54 24	13°19'07	10♍54	26°16	24°53	5° 9	21°29	1°41	18° 9	28°41	7°56	18°43	18°33	20° 7	n.a.	S 9
S 10	16 58 21	14°16'14	23°52	28°11	24°32	5°50	21°22	1°44	18° 7	28°42	7°55	18°43	18°30	20°13	n.a.	S 10
M11	17 2 17	15°13'21	7♎15	0♋ 3	24°14	6°31	21°16	1°47	18° 4	28°43	7°54	18°42	18°26	20°20	n.a.	M11
T 12	17 6 14	16°10'29	21° 7	1°54	23°58	7°13	21°10	1°51	18° 2	28°44	7°52	18°39	18°23	20°27	n.a.	T 12
W13	17 10 10	17° 7'36	5♏29	3°43	23°44	7°54	21° 3	1°54	18° 0	28°45	7°51	18°34	18°20	20°34	n.a.	W13
T 14	17 14 7	18° 4'44	20°16	5°30	23°32	8°35	20°57	1°58	17°58	28°46	7°50	18°27	18°17	20°40	n.a.	T 14
F 15	17 18 3	19° 1'52	5♐25	7°15	23°23	9°16	20°51	2° 1	17°56	28°47	7°48	18°17	18°14	20°47	n.a.	F 15
S 16	17 22 0	19°59'01	20°44	8°58	23°17	9°57	20°45	2° 5	17°54	28°48	7°47	18° 7	18°11	20°54	n.a.	S 16
S 17	17 25 56	20°56'10	6♑ 3	10°39	23°13	10°38	20°40	2° 9	17°52	28°49	7°46	17°56	18° 7	21° 0	n.a.	S 17
M18	17 29 53	21°53'19	21°10	12°18	23°D11	11°19	20°34	2°12	17°51	28°50	7°45	17°47	18° 4	21° 7	n.a.	M18
T 19	17 33 50	22°50'30	5♒56	13°56	23°11	12° 0	20°29	2°16	17°49	28°51	7°43	17°41	18° 1	21°14	n.a.	T 19
W20	17 37 46	23°47'41	20°16	15°31	23°14	12°40	20°23	2°20	17°47	28°52	7°42	17°36	17°58	21°21	n.a.	W20
T 21	17 41 43	24°44'53	4♓ 6	17° 5	23°19	13°21	20°18	2°24	17°45	28°54	7°41	17°34	17°55	21°27	n.a.	T 21
F 22	17 45 39	25°42'06	17°29	18°37	23°26	14° 2	20°13	2°29	17°43	28°55	7°39	17°D34	17°52	21°34	n.a.	F 22
S 23	17 49 36	26°39'20	0♈26	20° 6	23°36	14°42	20° 8	2°33	17°42	28°56	7°38	17°R34	17°48	21°41	n.a.	S 23
S 24	17 53 32	27°36'35	13° 3	21°34	23°47	15°23	20° 4	2°37	17°40	28°57	7°36	17°33	17°45	21°48	n.a.	S 24
M25	17 57 29	28°33'51	25°23	23° 0	24° 1	16° 3	19°59	2°42	17°38	28°59	7°35	17°31	17°42	21°54	n.a.	M25
T 26	18 1 25	29°31'08	7♉31	24°24	24°16	16°43	19°55	2°46	17°37	29° 0	7°34	17°26	17°39	22° 1	n.a.	T 26
W27	18 5 22	0♋28'27	19°30	25°46	24°34	17°24	19°50	2°51	17°35	29° 1	7°32	17°18	17°36	22° 8	n.a.	W27
T 28	18 9 19	1°25'46	1♊25	27° 6	24°53	18° 4	19°46	2°55	17°33	29° 3	7°31	17° 8	17°32	22°14	n.a.	T 28
F 29	18 13 15	2°23'06	13°17	28°24	25°14	18°44	19°42	3° 0	17°32	29° 4	7°30	16°55	17°29	22°21	n.a.	F 29
S 30	18 17 12	3♋20'28	25♊ 9	29♋39	25♉37	19♉24	19♏38	3♍ 5	17♏30	29♎ 5	7♑28	16♍42	17♍26	22♊28	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n30	16n31	4s50	23n40	1n29	18n30	1s40	10n55	0s35	17s55	0n42	13n16	2n17	17s20	0n12	13n21	1n20	28s36	5s 9	4n 6	4n25	18n 9		n.a.
S 2	21 40	18 1	5 0	24 4	1 34	18 10	1 53	11 10	0 34	17 53	0 41	13 15	2 17	17 19	0 12	13 21	1 20	28 36	5 9	4 12	4 26	18 9		n.a.
S 3	21 50	18 45	4 57	24 25	1 39	17 50	2 6	11 26	0 34	17 52	0 41	13 13	2 16	17 19	0 12	13 20	1 20	28 36	5 9	4 17	4 27	18 10		n.a.
M 4	21 59	18 40	4 41	24 43	1 44	17 30	2 18	11 41	0 33	17 50	0 41	13 12	2 16	17 18	0 12	13 20	1 20	28 37	5 9	4 22	4 29	18 10		n.a.
T 5	22 8	17 46	4 13	24 59	1 48	17 12	2 30	11 56	0 32	17 48	0 41	13 11	2 16	17 17	0 12	13 20	1 20	28 37	5 9	4 25	4 30	18 11		n.a.
W 6	22 17	16 4	3 33	25 12	1 51	16 54	2 41	12 11	0 32	17 47	0 41	13 10	2 16	17 17	0 12	13 20	1 20	28 37	5 9	4 28	4 31	18 11		n.a.
T 7	22 25	13 38	2 44	25 22	1 53	16 37	2 52	12 26	0 31	17 45	0 41	13 9	2 16	17 16	0 12	13 19	1 20	28 37	5 9	4 30	4 32	18 12		n.a.
F 8	22 32	10 33	1 46	25 30	1 54	16 21	3 3	12 40	0 31	17 43	0 40	13 7	2 16	17 16	0 12	13 19	1 20	28 38	5 10	4 31	4 34	18 12		n.a.
S 9	22 40	6 56	0 41	25 35	1 55	16 6	3 13	12 55	0 30	17 42	0 40	13 6	2 15	17 15	0 12	13 19	1 20	28 38	5 10	4 31	4 35	18 13		n.a.
S 10	22 47	2 53	0n27	25 38	1 55	15 51	3 22	13 10	0 29	17 40	0 40	13 5	2 15	17 14	0 11	13 18	1 20	28 38	5 10	4 31	4 36	18 13		n.a.
M11	22 53	1s26	1 36	25 38	1 55	15 38	3 31	13 24	0 29	17 39	0 40	13 4	2 15	17 14	0 11	13 18	1 20	28 38	5 10	4 31	4 37	18 14		n.a.
T 12	22 59	5 50	2 42	25 36	1 54	15 26	3 40	13 38	0 28	17 37	0 40	13 2	2 15	17 13	0 11	13 18	1 20	28 38	5 10	4 32	4 39	18 14		n.a.
W13	23 5	10 2	3 40	25 32	1 52	15 15	3 47	13 52	0 27	17 36	0 39	13 1	2 15	17 13	0 11	13 17	1 20	28 39	5 10	4 34	4 40	18 15		n.a.
T 14	23 11	13 46	4 25	25 26	1 50	15 5	3 55	14 6	0 27	17 34	0 39	12 59	2 14	17 12	0 11	13 17	1 20	28 39	5 10	4 37	4 41	18 15		n.a.
F 15	23 15	16 39	4 53	25 18	1 47	14 56	4 2	14 20	0 26	17 33	0 39	12 58	2 14	17 12	0 11	13 16	1 20	28 39	5 11	4 41	4 42	18 16		n.a.
S 16	23 20	18 24	5 0	25 8	1 44	14 48	4 8	14 34	0 25	17 32	0 39	12 56	2 14	17 11	0 11	13 16	1 20	28 39	5 11	4 45	4 44	18 16		n.a.
S 17	23 24	18 49	4 46	24 57	1 40	14 42	4 14	14 48	0 25	17 30	0 39	12 55	2 14	17 10	0 11	13 16	1 20	28 39	5 11	4 49	4 45	18 17		n.a.
M18	23 28	17 53	4 11	24 44	1 36	14 36	4 19	15 1	0 24	17 29	0 38	12 53	2 14	17 10	0 11	13 15	1 20	28 40	5 11	4 53	4 46	18 17		n.a.
T 19	23 31	15 46	3 21	24 29	1 31	14 31	4 24	15 14	0 23	17 28	0 38	12 52	2 14	17 9	0 11	13 15	1 20	28 40	5 11	4 55	4 47	18 18		n.a.
W20	23 34	12 42	2 19	24 13	1 25	14 28	4 29	15 28	0 23	17 27	0 38	12 50	2 13	17 9	0 11	13 14	1 20	28 40	5 11	4 57	4 49	18 18		n.a.
T 21	23 37	9 1	1 11	23 55	1 19	14 25	4 33	15 41	0 22	17 25	0 38	12 48	2 13	17 8	0 11	13 14	1 20	28 40	5 11	4 58	4 50	18 19		n.a.
F 22	23 39	5 0	0 0	23 37	1 13	14 23	4 36	15 54	0 21	17 24	0 38	12 47	2 13	17 8	0 11	13 14	1 19	28 40	5 11	4 58	4 51	18 19		n.a.
S 23	23 40	0 51	1s 8	23 17	1 6	14 23	4 40	16 6	0 21	17 23	0 37	12 45	2 13	17 7	0 11	13 13	1 19	28 41	5 12	4 58	4 52	18 20		n.a.
S 24	23 42	3n13	2 10	22 56	0 59	14 23	4 42	16 19	0 20	17 22	0 37	12 43	2 13	17 7	0 11	13 13	1 19	28 41	5 12	4 58	4 54	18 20		n.a.
M25	23 43	7 3	3 6	22 35	0 52	14 24	4 45	16 31	0 19	17 21	0 37	12 42	2 13	17 7	0 11	13 12	1 19	28 41	5 12	4 59	4 55	18 21		n.a.
T 26	23 43	10 32	3 52	22 12	0 44	14 25	4 47	16 44	0 19	17 20	0 37	12 40	2 12	17 6	0 11	13 12	1 19	28 41	5 12	5 1	4 56	18 21		n.a.
W27	23 43	13 32	4 27	21 49	0 35	14 28	4 48	16 56	0 18	17 19	0 36	12 38	2 12	17 6	0 11	13 11	1 19	28 41	5 12	5 4	4 57	18 22		n.a.
T 28	23 43	15 57	4 50	21 25	0 27	14 31	4 50	17 8	0 17	17 18	0 36	12 36	2 12	17 5	0 11	13 11	1 19	28 42	5 12	5 8	4 59	18 22		n.a.
F 29	23 42	17 42	5 0	21 1	0 18	14 35	4 51	17 20	0 17	17 17	0 36	12 34	2 12	17 5	0 11	13 10	1 19	28 42	5 12	5 13	5 0	18 22		n.a.
S 30	23n40	18n40	4s58	20n36	0n 8	14n40	4s52	17n32	0s16	17s16	0n36	12n32	2n12	17s 4	0n11	13n10	1n19	28s42	5s12	5n18	5n 1	18n23		n.a.

Julian Day Number = 1648524.5, Delta T = 03h32m21s
Ecliptic obliquity = 23°43'00, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°49'27, Lahiri = - 6°42'26 Julian Calendar 1 June 200 BCE == Greg. Calendar 29 May 200 BCE

The year -199 astronomical counting style corresponds to year 200 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 200 BCE
geocentric

JULY 200 BCE (-199) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 21 8	4♋17'50	7♋ 2	0♌53	26♉ 2	20♉ 4	19°R35	3♍ 9	17°R29	29♌ 7	7°R27	16°R29	17♍23	22♊35	n.a.	S 1
M 2	18 25 5	5°15'13	18°57	2° 4	26°28	20°44	19♏31	3°14	17♏28	29° 8	7♑25	16♍17	17°20	22°41	n.a.	M 2
T 3	18 29 1	6°12'38	0♌57	3°12	26°56	21°24	19°28	3°19	17°26	29°10	7°24	16° 8	17°17	22°48	n.a.	T 3
W 4	18 32 58	7°10'03	13° 2	4°19	27°25	22° 3	19°25	3°24	17°25	29°11	7°23	16° 1	17°13	22°55	n.a.	W 4
T 5	18 36 54	8° 7'29	25°16	5°22	27°55	22°43	19°22	3°29	17°24	29°13	7°21	15°56	17°10	23° 2	n.a.	T 5
F 6	18 40 51	9° 4'56	7♍40	6°24	28°27	23°23	19°19	3°35	17°22	29°14	7°20	15°54	17° 7	23° 8	n.a.	F 6
S 7	18 44 48	10° 2'24	20°19	7°22	29° 1	24° 2	19°17	3°40	17°21	29°16	7°19	15°D54	17° 4	23°15	n.a.	S 7
S 8	18 48 44	10°59'53	3♎17	8°18	29°35	24°42	19°15	3°45	17°20	29°18	7°17	15°55	17° 1	23°22	n.a.	S 8
M 9	18 52 41	11°57'22	16°36	9°10	0♊11	25°21	19°12	3°51	17°19	29°19	7°16	15°R55	16°58	23°28	n.a.	M 9
T 10	18 56 37	12°54'53	0♏21	9°59	0°49	26° 1	19°10	3°56	17°18	29°21	7°14	15°54	16°54	23°35	n.a.	T 10
W11	19 0 34	13°52'25	14°31	10°45	1°27	26°40	19° 9	4° 1	17°17	29°23	7°13	15°50	16°51	23°42	n.a.	W11
T 12	19 4 30	14°49'57	29° 7	11°28	2° 6	27°19	19° 7	4° 7	17°16	29°24	7°12	15°45	16°48	23°49	n.a.	T 12
F 13	19 8 27	15°47'31	14♐ 3	12° 6	2°47	27°58	19° 5	4°13	17°15	29°26	7°10	15°37	16°45	23°55	n.a.	F 13
S 14	19 12 23	16°45'06	29°13	12°41	3°28	28°37	19° 4	4°18	17°14	29°28	7° 9	15°29	16°42	24° 2	n.a.	S 14
S 15	19 16 20	17°42'42	14♑26	13°12	4°11	29°16	19° 3	4°24	17°14	29°29	7° 7	15°20	16°38	24° 9	n.a.	S 15
M16	19 20 17	18°40'20	29°32	13°39	4°54	29°55	19° 2	4°30	17°13	29°31	7° 6	15°13	16°35	24°16	n.a.	M16
T 17	19 24 13	19°37'59	14♒21	14° 0	5°39	0♊34	19° 1	4°36	17°12	29°33	7° 5	15° 7	16°32	24°22	n.a.	T 17
W18	19 28 10	20°35'40	28°46	14°17	6°24	1°13	19° 1	4°41	17°11	29°35	7° 3	15° 4	16°29	24°29	n.a.	W18
T 19	19 32 6	21°33'22	12♓43	14°30	7°10	1°51	19° 1	4°47	17°11	29°37	7° 2	15°D 3	16°26	24°36	n.a.	T 19
F 20	19 36 3	22°31'06	26°11	14°36	7°57	2°30	19°D 0	4°53	17°10	29°38	7° 1	15° 3	16°23	24°42	n.a.	F 20
S 21	19 39 59	23°28'52	9♈13	14°R38	8°45	3° 8	19° 1	4°59	17°10	29°40	6°59	15° 4	16°19	24°49	n.a.	S 21
S 22	19 43 56	24°26'39	21°53	14°34	9°34	3°47	19° 1	5° 5	17° 9	29°42	6°58	15°R 5	16°16	24°56	n.a.	S 22
M23	19 47 52	25°24'28	4♉14	14°24	10°23	4°25	19° 1	5°12	17° 9	29°44	6°57	15° 5	16°13	25° 3	n.a.	M23
T 24	19 51 49	26°22'20	16°21	14° 8	11°14	5° 3	19° 2	5°18	17° 8	29°46	6°56	15° 2	16°10	25° 9	n.a.	T 24
W25	19 55 46	27°20'13	28°19	13°46	12° 4	5°42	19° 3	5°24	17° 8	29°48	6°54	14°58	16° 7	25°16	n.a.	W25
T 26	19 59 42	28°18'08	10♊12	13°19	12°56	6°20	19° 4	5°30	17° 8	29°50	6°53	14°52	16° 4	25°23	n.a.	T 26
F 27	20 3 39	29°16'05	22° 3	12°46	13°48	6°58	19° 5	5°37	17° 8	29°52	6°52	14°45	16° 0	25°29	n.a.	F 27
S 28	20 7 35	0♌14'04	3♋56	12° 7	14°41	7°36	19° 6	5°43	17° 7	29°54	6°50	14°36	15°57	25°36	n.a.	S 28
S 29	20 11 32	1°12'04	15°53	11°24	15°34	8°14	19° 8	5°49	17° 7	29°56	6°49	14°28	15°54	25°43	n.a.	S 29
M30	20 15 28	2°10'07	27°55	10°36	16°28	8°52	19° 9	5°56	17° 7	29°58	6°48	14°20	15°51	25°50	n.a.	M30
T 31	20 19 25	3♌ 8'11	10♌ 4	9♌44	17♊23	9♊29	19♏11	6♍ 2	17°D 7	29♌59	6♑47	14♍14	15♍48	25♊56	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	23n39	18n50	4s42	20n10	0s 1	14n45	4s52	17n43	0s15	17s16	0n36	12n30	2n12	17s 4	0n11	13n 9	1n19	28s42	5s12	5n24	5n 2	18n23			n.a.
M 2	23 37	18 10	4 14	19 45	0 11	14 51	4 52	17 55	0 14	17 15	0 35	12 28	2 12	17 4	0 11	13 8	1 19	28 42	5 12	5 28	5 4	18 24			n.a.
T 3	23 34	16 41	3 35	19 19	0 22	14 58	4 52	18 6	0 14	17 14	0 35	12 27	2 11	17 3	0 11	13 8	1 19	28 42	5 12	5 32	5 5	18 24			n.a.
W 4	23 31	14 27	2 45	18 53	0 32	15 5	4 52	18 17	0 13	17 14	0 35	12 25	2 11	17 3	0 11	13 7	1 19	28 43	5 13	5 35	5 6	18 25			n.a.
T 5	23 28	11 34	1 48	18 27	0 43	15 12	4 51	18 28	0 12	17 13	0 35	12 23	2 11	17 3	0 11	13 7	1 19	28 43	5 13	5 36	5 7	18 25			n.a.
F 6	23 24	8 7	0 44	18 2	0 54	15 20	4 50	18 39	0 12	17 12	0 34	12 21	2 11	17 2	0 11	13 6	1 19	28 43	5 13	5 37	5 9	18 26			n.a.
S 7	23 20	4 14	0n24	17 36	1 5	15 28	4 49	18 49	0 11	17 12	0 34	12 18	2 11	17 2	0 11	13 6	1 19	28 43	5 13	5 37	5 10	18 26			n.a.
S 8	23 15	0 5	1 31	17 11	1 16	15 37	4 48	19 0	0 10	17 12	0 34	12 16	2 11	17 2	0 11	13 5	1 19	28 43	5 13	5 37	5 11	18 26			n.a.
M 9	23 10	4s12	2 36	16 46	1 28	15 46	4 46	19 10	0 9	17 11	0 34	12 14	2 11	17 1	0 11	13 4	1 19	28 43	5 13	5 37	5 12	18 27			n.a.
T 10	23 5	8 23	3 34	16 21	1 39	15 55	4 44	19 20	0 9	17 11	0 34	12 12	2 11	17 1	0 11	13 4	1 19	28 43	5 13	5 38	5 14	18 27			n.a.
W11	22 59	12 14	4 21	15 58	1 51	16 5	4 42	19 31	0 8	17 11	0 33	12 10	2 10	17 1	0 11	13 3	1 19	28 44	5 13	5 39	5 15	18 28			n.a.
T 12	22 53	15 27	4 52	15 35	2 3	16 15	4 40	19 40	0 7	17 10	0 33	12 8	2 10	17 1	0 11	13 3	1 19	28 44	5 13	5 41	5 16	18 28			n.a.
F 13	22 46	17 43	5 4	15 13	2 14	16 25	4 38	19 50	0 6	17 10	0 33	12 6	2 10	17 0	0 11	13 2	1 19	28 44	5 13	5 44	5 17	18 29			n.a.
S 14	22 39	18 47	4 56	14 52	2 26	16 35	4 36	20 0	0 6	17 10	0 33	12 3	2 10	17 0	0 11	13 1	1 19	28 44	5 13	5 47	5 19	18 29			n.a.
S 15	22 32	18 30	4 27	14 32	2 38	16 45	4 33	20 9	0 5	17 10	0 32	12 1	2 10	17 0	0 11	13 1	1 19	28 44	5 13	5 51	5 20	18 29			n.a.
M16	22 24	16 55	3 39	14 13	2 50	16 56	4 30	20 18	0 4	17 10	0 32	11 59	2 10	17 0	0 11	13 0	1 19	28 44	5 13	5 54	5 21	18 30			n.a.
T 17	22 16	14 13	2 37	13 56	3 1	17 6	4 27	20 27	0 3	17 10	0 32	11 57	2 10	16 59	0 11	12 59	1 19	28 44	5 13	5 56	5 22	18 30			n.a.
W18	22 7	10 42	1 26	13 40	3 12	17 17	4 24	20 36	0 2	17 10	0 32	11 54	2 10	16 59	0 11	12 59	1 19	28 45	5 13	5 57	5 24	18 31			n.a.
T 19	21 58	6 40	0 13	13 26	3 23	17 28	4 21	20 45	0 2	17 10	0 32	11 52	2 10	16 59	0 11	12 58	1 19	28 45	5 13	5 57	5 25	18 31			n.a.
F 20	21 49	2 27	1s 0	13 14	3 34	17 39	4 18	20 53	0 1	17 10	0 31	11 50	2 9	16 59	0 11	12 57	1 19	28 45	5 14	5 57	5 26	18 31			n.a.
S 21	21 39	1n46	2 6	13 4	3 43	17 49	4 15	21 2	0 0	17 11	0 31	11 48	2 9	16 59	0 11	12 57	1 19	28 45	5 14	5 57	5 27	18 32			n.a.
S 22	21 29	5 46	3 5	12 57	3 53	18 0	4 11	21 10	0n 1	17 11	0 31	11 45	2 9	16 59	0 11	12 56	1 19	28 45	5 14	5 57	5 29	18 32			n.a.
M23	21 18	9 25	3 53	12 51	4 1	18 11	4 8	21 18	0 1	17 11	0 31	11 43	2 9	16 59	0 11	12 55	1 19	28 45	5 14	5 57	5 30	18 32			n.a.
T 24	21 7	12 36	4 30	12 48	4 9	18 22	4 4	21 26	0 2	17 11	0 30	11 40	2 9	16 59	0 11	12 55	1 19	28 45	5 14	5 58	5 31	18 33			n.a.
W25	20 56	15 13	4 55	12 48	4 16	18 32	4 0	21 33	0 3	17 12	0 30	11 38	2 9	16 58	0 11	12 54	1 19	28 45	5 14	5 59	5 32	18 33			n.a.
T 26	20 44	17 11	5 7	12 50	4 21	18 43	3 56	21 41	0 4	17 12	0 30	11 36	2 9	16 58	0 11	12 53	1 19	28 45	5 14	6 2	5 34	18 34			n.a.
F 27	20 32	18 24	5 5	12 56	4 26	18 53	3 52	21 48	0 5	17 13	0 30	11 33	2 9	16 58	0 11	12 53	1 19	28 45	5 14	6 5	5 35	18 34			n.a.
S 28	20 20	18 49	4 51	13 4	4 28	19 3	3 48	21 55	0 6	17 14	0 30	11 31	2 9	16 58	0 11	12 52	1 19	28 46	5 14	6 8	5 36	18 34			n.a.
S 29	20 7	18 24	4 23	13 15	4 30	19 13	3 44	22 2	0 6	17 14	0 29	11 28	2 9	16 58	0 11	12 51	1 19	28 46	5 14	6 11	5 37	18 35			n.a.
M30	19 54	17 10	3 44	13 28	4 29	19 23	3 40	22 9	0 7	17 15	0 29	11 26	2 9	16 58	0 11	12 50	1 19	28 46	5 14	6 14	5 39	18 35			n.a.
T 31	19n41	15n 8	2s54	13n44	4s27	19n32	3s35	22n16	0n 8	17s16	0n29	11n23	2n 8	16s58	0n11	12n50	1n19	28s46	5s14	6n16	5n40	18n35			n.a.

Julian Day Number = 1648554.5, Delta T = 03h32m20s
Ecliptic obliquity = 23°43'00, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°49'23, Lahiri = - 6°42'22 Julian Calendar 1 July 200 BCE == Greg. Calendar 28 June 200 BCE

The year -199 astronomical counting style corresponds to year 200 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 200 BCE
geocentric

AUGUST 200 BCE (-199) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 23 21	4♌ 6'17	22♌21	8°R49	18♊18	10♊ 7	19♏13	6♍ 9	17♏ 7	0♍ 2	6°R46	14°R10	15♍44	26♊ 3	n.a.	W 1
T 2	20 27 18	5° 4'24	4♍47	7♌53	19°14	10°44	19°16	6°15	17° 7	0° 4	6♑44	14♍ 8	15°41	26°10	n.a.	T 2
F 3	20 31 15	6° 2'33	17°25	6°55	20°10	11°22	19°18	6°22	17° 8	0° 6	6°43	14°D 8	15°38	26°17	n.a.	F 3
S 4	20 35 11	7° 0'44	0♎15	5°59	21° 7	11°59	19°21	6°29	17° 8	0° 8	6°42	14° 9	15°35	26°23	n.a.	S 4
S 5	20 39 8	7°58'57	13°21	5° 3	22° 4	12°37	19°24	6°35	17° 8	0°10	6°41	14°10	15°32	26°30	n.a.	S 5
M 6	20 43 4	8°57'11	26°44	4°11	23° 1	13°14	19°27	6°42	17° 8	0°12	6°40	14°11	15°29	26°37	n.a.	M 6
T 7	20 47 1	9°55'26	10♏25	3°23	23°59	13°51	19°30	6°49	17° 9	0°15	6°39	14°R12	15°25	26°43	n.a.	T 7
W 8	20 50 57	10°53'43	24°27	2°40	24°58	14°28	19°33	6°56	17° 9	0°17	6°37	14°11	15°22	26°50	n.a.	W 8
T 9	20 54 54	11°52'02	8♐47	2° 3	25°57	15° 5	19°37	7° 3	17° 9	0°19	6°36	14° 9	15°19	26°57	n.a.	T 9
F 10	20 58 50	12°50'23	23°24	1°34	26°56	15°42	19°40	7° 9	17°10	0°21	6°35	14° 6	15°16	27° 4	n.a.	F 10
S 11	21 2 47	13°48'45	8♑13	1°12	27°56	16°18	19°44	7°16	17°11	0°23	6°34	14° 2	15°13	27°10	n.a.	S 11
S 12	21 6 44	14°47'09	23° 5	1° 0	28°56	16°55	19°48	7°23	17°11	0°25	6°33	13°57	15° 9	27°17	n.a.	S 12
M13	21 10 40	15°45'35	7♒54	0°D56	29°56	17°32	19°52	7°30	17°12	0°27	6°32	13°54	15° 6	27°24	n.a.	M13
T 14	21 14 37	16°44'03	22°31	1° 1	0♋57	18° 8	19°57	7°37	17°13	0°30	6°31	13°51	15° 3	27°30	n.a.	T 14
W15	21 18 33	17°42'33	6♓50	1°16	1°59	18°45	20° 1	7°44	17°13	0°32	6°30	13°50	15° 0	27°37	n.a.	W15
T 16	21 22 30	18°41'05	20°46	1°40	3° 0	19°21	20° 6	7°51	17°14	0°34	6°29	13°D50	14°57	27°44	n.a.	T 16
F 17	21 26 26	19°39'39	4♈17	2°13	4° 2	19°57	20°11	7°58	17°15	0°36	6°28	13°51	14°54	27°51	n.a.	F 17
S 18	21 30 23	20°38'15	17°23	2°55	5° 4	20°33	20°16	8° 5	17°16	0°38	6°27	13°52	14°50	27°57	n.a.	S 18
S 19	21 34 19	21°36'53	0♉ 6	3°45	6° 7	21° 9	20°21	8°12	17°17	0°41	6°27	13°54	14°47	28° 4	n.a.	S 19
M20	21 38 16	22°35'34	12°31	4°43	7°10	21°45	20°27	8°19	17°18	0°43	6°26	13°55	14°44	28°11	n.a.	M20
T 21	21 42 12	23°34'18	24°40	5°48	8°13	22°21	20°32	8°27	17°19	0°45	6°25	13°R55	14°41	28°17	n.a.	T 21
W22	21 46 9	24°33'03	6♊39	6°59	9°17	22°57	20°38	8°34	17°20	0°47	6°24	13°55	14°38	28°24	n.a.	W22
T 23	21 50 6	25°31'51	18°33	8°17	10°21	23°32	20°44	8°41	17°21	0°49	6°23	13°53	14°35	28°31	n.a.	T 23
F 24	21 54 2	26°30'42	0♋25	9°40	11°25	24° 8	20°50	8°48	17°22	0°52	6°22	13°51	14°31	28°38	n.a.	F 24
S 25	21 57 59	27°29'35	12°20	11° 8	12°29	24°43	20°56	8°55	17°24	0°54	6°22	13°49	14°28	28°44	n.a.	S 25
S 26	22 1 55	28°28'30	24°20	12°40	13°34	25°19	21° 2	9° 2	17°25	0°56	6°21	13°46	14°25	28°51	n.a.	S 26
M27	22 5 52	29°27'27	6♌30	14°16	14°39	25°54	21° 9	9°10	17°26	0°58	6°20	13°44	14°22	28°58	n.a.	M27
T 28	22 9 48	0♍26'26	18°50	15°54	15°44	26°29	21°16	9°17	17°28	1° 1	6°19	13°42	14°19	29° 5	n.a.	T 28
W29	22 13 45	1°25'28	1♍22	17°35	16°50	27° 4	21°22	9°24	17°29	1° 3	6°19	13°41	14°15	29°11	n.a.	W29
T 30	22 17 41	2°24'32	14° 7	19°18	17°56	27°39	21°29	9°31	17°31	1° 5	6°18	13°D41	14°12	29°18	n.a.	T 30
F 31	22 21 38	3♍23'38	27♍ 5	21♌ 2	19♋ 2	28♊14	21♏36	9♍39	17♏32	1♍ 7	6♑18	13♍41	14♍ 9	29♊25	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	19n27	12n24	1s56	14n 3	4s22	19n41	3s31	22n22	0n 9	17s16	0n29	11n21	2n 8	16s58	0n11	12n49	1n19	28s46	5s14	6n18	5n41	18n36			n.a.
T 2	19 13	9 5	0 51	14 23	4 16	19 50	3 27	22 29	0 10	17 17	0 29	11 18	2 8	16 58	0 11	12 48	1 19	28 46	5 14	6 19	5 42	18 36			n.a.
F 3	18 59	5 18	0n18	14 46	4 8	19 59	3 22	22 35	0 11	17 18	0 28	11 16	2 8	16 58	0 11	12 47	1 19	28 46	5 14	6 19	5 44	18 36			n.a.
S 4	18 44	1 13	1 27	15 10	3 57	20 8	3 18	22 41	0 11	17 19	0 28	11 13	2 8	16 59	0 11	12 47	1 19	28 46	5 14	6 19	5 45	18 37			n.a.
S 5	18 29	2s59	2 33	15 35	3 45	20 16	3 13	22 46	0 12	17 20	0 28	11 10	2 8	16 59	0 11	12 46	1 19	28 46	5 14	6 18	5 46	18 37			n.a.
M 6	18 14	7 8	3 31	16 0	3 32	20 24	3 8	22 52	0 13	17 21	0 28	11 8	2 8	16 59	0 10	12 45	1 19	28 46	5 14	6 17	5 47	18 38			n.a.
T 7	17 58	11 0	4 20	16 26	3 17	20 31	3 4	22 57	0 14	17 22	0 27	11 5	2 8	16 59	0 10	12 44	1 19	28 46	5 14	6 17	5 49	18 38			n.a.
W 8	17 42	14 21	4 54	16 52	3 0	20 38	2 59	23 3	0 15	17 23	0 27	11 3	2 8	16 59	0 10	12 44	1 19	28 46	5 14	6 18	5 50	18 38			n.a.
T 9	17 26	16 54	5 11	17 17	2 43	20 45	2 54	23 8	0 16	17 24	0 27	11 0	2 8	16 59	0 10	12 43	1 19	28 46	5 14	6 18	5 51	18 39			n.a.
F 10	17 9	18 25	5 8	17 41	2 25	20 51	2 50	23 13	0 17	17 26	0 27	10 57	2 8	16 59	0 10	12 42	1 19	28 46	5 14	6 20	5 52	18 39			n.a.
S 11	16 52	18 43	4 45	18 4	2 6	20 57	2 45	23 18	0 17	17 27	0 27	10 55	2 8	16 59	0 10	12 41	1 19	28 46	5 14	6 21	5 54	18 39			n.a.
S 12	16 35	17 44	4 3	18 26	1 47	21 3	2 40	23 22	0 18	17 28	0 26	10 52	2 8	17 0	0 10	12 40	1 19	28 47	5 14	6 23	5 55	18 40			n.a.
M13	16 18	15 32	3 4	18 45	1 28	21 8	2 35	23 27	0 19	17 29	0 26	10 50	2 8	17 0	0 10	12 40	1 19	28 47	5 14	6 24	5 56	18 40			n.a.
T 14	16 0	12 22	1 54	19 2	1 10	21 13	2 30	23 31	0 20	17 31	0 26	10 47	2 8	17 0	0 10	12 39	1 19	28 47	5 14	6 25	5 57	18 40			n.a.
W15	15 42	8 31	0 38	19 16	0 51	21 17	2 25	23 35	0 21	17 32	0 26	10 44	2 8	17 0	0 10	12 38	1 19	28 47	5 14	6 26	5 59	18 40			n.a.
T 16	15 24	4 17	0s38	19 28	0 34	21 21	2 20	23 39	0 22	17 34	0 26	10 41	2 8	17 1	0 10	12 37	1 19	28 47	5 14	6 26	6 0	18 41			n.a.
F 17	15 5	0n 2	1 50	19 37	0 17	21 24	2 15	23 43	0 23	17 35	0 25	10 39	2 8	17 1	0 10	12 37	1 19	28 47	5 14	6 25	6 1	18 41			n.a.
S 18	14 47	4 13	2 54	19 43	0 1	21 27	2 11	23 46	0 24	17 37	0 25	10 36	2 8	17 1	0 10	12 36	1 19	28 47	5 14	6 25	6 2	18 41			n.a.
S 19	14 28	8 5	3 48	19 46	0n14	21 29	2 6	23 50	0 25	17 38	0 25	10 33	2 8	17 1	0 10	12 35	1 19	28 47	5 14	6 24	6 4	18 42			n.a.
M20	14 9	11 30	4 29	19 46	0 29	21 31	2 1	23 53	0 26	17 40	0 25	10 31	2 8	17 2	0 10	12 34	1 19	28 47	5 14	6 24	6 5	18 42			n.a.
T 21	13 49	14 21	4 58	19 43	0 42	21 32	1 56	23 56	0 27	17 42	0 25	10 28	2 8	17 2	0 10	12 33	1 19	28 47	5 14	6 24	6 6	18 42			n.a.
W22	13 29	16 32	5 13	19 36	0 53	21 33	1 51	23 59	0 28	17 43	0 24	10 25	2 8	17 2	0 10	12 33	1 19	28 47	5 14	6 24	6 7	18 43			n.a.
T 23	13 9	18 0	5 14	19 26	1 4	21 33	1 46	24 2	0 28	17 45	0 24	10 22	2 8	17 3	0 10	12 32	1 19	28 47	5 13	6 25	6 8	18 43			n.a.
F 24	12 49	18 41	5 2	19 13	1 14	21 33	1 41	24 4	0 29	17 47	0 24	10 20	2 8	17 3	0 10	12 31	1 19	28 47	5 13	6 25	6 10	18 43			n.a.
S 25	12 29	18 32	4 37	18 57	1 22	21 32	1 36	24 7	0 30	17 49	0 24	10 17	2 8	17 3	0 10	12 30	1 19	28 47	5 13	6 26	6 11	18 43			n.a.
S 26	12 8	17 34	4 0	18 38	1 29	21 30	1 31	24 9	0 31	17 51	0 24	10 14	2 8	17 4	0 10	12 29	1 19	28 47	5 13	6 27	6 12	18 44			n.a.
M27	11 48	15 47	3 11	18 16	1 36	21 28	1 26	24 11	0 32	17 53	0 24	10 11	2 8	17 4	0 10	12 29	1 19	28 47	5 13	6 28	6 13	18 44			n.a.
T 28	11 27	13 15	2 13	17 51	1 41	21 26	1 21	24 13	0 33	17 55	0 23	10 9	2 8	17 5	0 10	12 28	1 19	28 47	5 13	6 29	6 15	18 44			n.a.
W29	11 6	10 4	1 8	17 24	1 45	21 23	1 17	24 15	0 34	17 57	0 23	10 6	2 8	17 5	0 10	12 27	1 19	28 47	5 13	6 29	6 16	18 45			n.a.
T 30	10 44	6 21	0n 2	16 55	1 48	21 19	1 12	24 17	0 35	17 59	0 23	10 3	2 8	17 6	0 10	12 26	1 19	28 47	5 13	6 29	6 17	18 45			n.a.
F 31	10n23	2n18	1n14	16n24	1n51	21n15	1s 7	24n19	0n36	18s 1	0n23	10n 0	2n 8	17s 6	0n10	12n25	1n19	28s47	5s13	6n29	6n18	18n45			n.a.

Julian Day Number = 1648585.5, Delta T = 03h32m19s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°49'18, Lahiri = - 6°42'18 Julian Calendar 1 Aug. 200 BCE == Greg. Calendar 29 July 200 BCE

The year -199 astronomical counting style corresponds to year 200 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 200 BCE
geocentric

SEPTEMBER 200 BCE (-199) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 25 35	4♍22'45	10♎17	22♌48	20♋ 8	28♊48	21♏44	9♍46	17♏34	1♍10	6°R17	13♍42	14♍ 6	29♊31	n.a.	S 1
S 2	22 29 31	5°21'55	23°41	24°34	21°14	29°23	21°51	9°53	17°36	1°12	6♑16	13°43	14° 3	29°38	n.a.	S 2
M 3	22 33 28	6°21'07	7♏19	26°21	22°21	29°57	21°59	10° 1	17°37	1°14	6°16	13°44	14° 0	29°45	n.a.	M 3
T 4	22 37 24	7°20'21	21° 8	28° 9	23°28	0♋31	22° 6	10° 8	17°39	1°16	6°15	13°44	13°56	29°52	n.a.	T 4
W 5	22 41 21	8°19'36	5♐ 9	29°56	24°35	1° 5	22°14	10°15	17°41	1°18	6°15	13°R44	13°53	29°58	n.a.	W 5
T 6	22 45 17	9°18'54	19°20	1♍43	25°42	1°40	22°22	10°22	17°43	1°21	6°14	13°44	13°50	0♋ 5	n.a.	T 6
F 7	22 49 14	10°18'13	3♑39	3°31	26°50	2°13	22°30	10°30	17°45	1°23	6°14	13°44	13°47	0°12	n.a.	F 7
S 8	22 53 10	11°17'34	18° 3	5°18	27°57	2°47	22°38	10°37	17°46	1°25	6°13	13°44	13°44	0°18	n.a.	S 8
S 9	22 57 7	12°16'57	2♒28	7° 4	29° 5	3°21	22°47	10°44	17°48	1°27	6°13	13°44	13°41	0°25	n.a.	S 9
M10	23 1 3	13°16'22	16°49	8°50	0♌13	3°54	22°55	10°52	17°50	1°30	6°13	13°D44	13°37	0°32	n.a.	M10
T 11	23 5 0	14°15'49	1♓ 2	10°35	1°21	4°28	23° 4	10°59	17°53	1°32	6°12	13°44	13°34	0°39	n.a.	T 11
W12	23 8 57	15°15'18	15° 2	12°20	2°30	5° 1	23°12	11° 6	17°55	1°34	6°12	13°R44	13°31	0°45	n.a.	W12
T 13	23 12 53	16°14'49	28°45	14° 5	3°39	5°34	23°21	11°14	17°57	1°36	6°12	13°44	13°28	0°52	n.a.	T 13
F 14	23 16 50	17°14'22	12♈ 9	15°48	4°47	6° 7	23°30	11°21	17°59	1°38	6°11	13°43	13°25	0°59	n.a.	F 14
S 15	23 20 46	18°13'58	25°13	17°31	5°56	6°40	23°39	11°28	18° 1	1°40	6°11	13°43	13°21	1° 5	n.a.	S 15
S 16	23 24 43	19°13'36	7♉58	19°14	7° 6	7°13	23°49	11°35	18° 3	1°43	6°11	13°42	13°18	1°12	n.a.	S 16
M17	23 28 39	20°13'16	20°24	20°55	8°15	7°45	23°58	11°43	18° 6	1°45	6°11	13°41	13°15	1°19	n.a.	M17
T 18	23 32 36	21°12'59	2♊36	22°36	9°24	8°18	24° 7	11°50	18° 8	1°47	6°11	13°41	13°12	1°26	n.a.	T 18
W19	23 36 32	22°12'44	14°36	24°17	10°34	8°50	24°17	11°57	18°11	1°49	6°11	13°40	13° 9	1°32	n.a.	W19
T 20	23 40 29	23°12'31	26°30	25°57	11°44	9°22	24°27	12° 4	18°13	1°51	6°10	13°D40	13° 6	1°39	n.a.	T 20
F 21	23 44 26	24°12'21	8♋23	27°36	12°54	9°54	24°36	12°12	18°15	1°53	6°10	13°41	13° 2	1°46	n.a.	F 21
S 22	23 48 22	25°12'13	20°18	29°14	14° 4	10°26	24°46	12°19	18°18	1°55	6°10	13°41	12°59	1°52	n.a.	S 22
S 23	23 52 19	26°12'07	2♌20	0♎52	15°14	10°58	24°56	12°26	18°21	1°57	6°D10	13°43	12°56	1°59	n.a.	S 23
M24	23 56 15	27°12'03	14°34	2°29	16°25	11°29	25° 6	12°33	18°23	2° 0	6°10	13°44	12°53	2° 6	n.a.	M24
T 25	0 0 12	28°12'02	27° 3	4° 6	17°35	12° 1	25°17	12°40	18°26	2° 2	6°10	13°45	12°50	2°13	n.a.	T 25
W26	0 4 8	29°12'03	9♍48	5°42	18°46	12°32	25°27	12°47	18°28	2° 4	6°10	13°R45	12°46	2°19	n.a.	W26
T 27	0 8 5	0♎12'06	22°52	7°18	19°57	13° 3	25°37	12°54	18°31	2° 6	6°11	13°45	12°43	2°26	n.a.	T 27
F 28	0 12 1	1°12'11	6♎13	8°53	21° 8	13°34	25°48	13° 1	18°34	2° 8	6°11	13°44	12°40	2°33	n.a.	F 28
S 29	0 15 58	2°12'18	19°52	10°28	22°19	14° 4	25°59	13° 9	18°37	2°10	6°11	13°42	12°37	2°39	n.a.	S 29
S 30	0 19 54	3♎12'27	3♏44	12♎ 2	23♌30	14♋35	26♏ 9	13♍16	18♏39	2♍12	6♑11	13♍40	12♍34	2♋46	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	10n 1	1s56	2n22	15n50	1n52	21n10	1s 2	24n20	0n37	18s 3	0n23	9n58	2n 8	17s 7	0n10	12n25	1n19	28s47	5s13	6n29	6n20	18n45		n.a.
S 2	9 39	6 9	3 24	15 15	1 53	21 4	0 57	24 21	0 38	18 5	0 22	9 55	2 8	17 7	0 10	12 24	1 19	28 47	5 13	6 29	6 21	18 46		n.a.
M 3	9 17	10 5	4 15	14 39	1 53	20 58	0 53	24 22	0 39	18 7	0 22	9 52	2 8	17 8	0 10	12 23	1 19	28 47	5 13	6 28	6 22	18 46		n.a.
T 4	8 55	13 32	4 53	14 1	1 52	20 52	0 48	24 23	0 40	18 9	0 22	9 49	2 8	17 8	0 10	12 22	1 19	28 47	5 13	6 28	6 23	18 46		n.a.
W 5	8 33	16 16	5 14	13 21	1 51	20 45	0 43	24 24	0 41	18 11	0 22	9 47	2 8	17 9	0 10	12 21	1 19	28 47	5 13	6 28	6 25	18 46		n.a.
T 6	8 10	18 2	5 16	12 41	1 49	20 37	0 39	24 25	0 42	18 13	0 22	9 44	2 8	17 9	0 10	12 21	1 19	28 47	5 13	6 28	6 26	18 47		n.a.
F 7	7 47	18 42	4 58	11 59	1 47	20 28	0 34	24 25	0 43	18 16	0 22	9 41	2 8	17 10	0 10	12 20	1 19	28 47	5 13	6 28	6 27	18 47		n.a.
S 8	7 25	18 9	4 22	11 17	1 44	20 20	0 30	24 26	0 44	18 18	0 21	9 38	2 8	17 10	0 10	12 19	1 19	28 46	5 13	6 28	6 28	18 47		n.a.
S 9	7 2	16 26	3 30	10 34	1 41	20 10	0 25	24 26	0 46	18 20	0 21	9 35	2 8	17 11	0 10	12 18	1 19	28 46	5 13	6 28	6 29	18 47		n.a.
M10	6 39	13 41	2 24	9 51	1 37	20 0	0 21	24 26	0 47	18 23	0 21	9 33	2 8	17 11	0 10	12 18	1 19	28 46	5 13	6 28	6 31	18 48		n.a.
T 11	6 16	10 9	1 10	9 7	1 33	19 49	0 17	24 26	0 48	18 25	0 21	9 30	2 8	17 12	0 10	12 17	1 19	28 46	5 13	6 28	6 32	18 48		n.a.
W12	5 53	6 4	0s 7	8 22	1 28	19 38	0 12	24 26	0 49	18 27	0 21	9 27	2 8	17 13	0 10	12 16	1 19	28 46	5 12	6 28	6 33	18 48		n.a.
T 13	5 29	1 46	1 22	7 37	1 24	19 26	0 8	24 26	0 50	18 30	0 21	9 24	2 8	17 13	0 10	12 15	1 19	28 46	5 12	6 28	6 34	18 48		n.a.
F 14	5 6	2n32	2 31	6 52	1 19	19 14	0 4	24 25	0 51	18 32	0 20	9 22	2 8	17 14	0 10	12 14	1 19	28 46	5 12	6 28	6 36	18 48		n.a.
S 15	4 42	6 36	3 30	6 7	1 13	19 1	0n 0	24 25	0 52	18 35	0 20	9 19	2 8	17 14	0 10	12 14	1 19	28 46	5 12	6 29	6 37	18 49		n.a.
S 16	4 19	10 16	4 17	5 21	1 8	18 47	0 4	24 24	0 53	18 37	0 20	9 16	2 8	17 15	0 10	12 13	1 19	28 46	5 12	6 29	6 38	18 49		n.a.
M17	3 55	13 23	4 51	4 35	1 2	18 33	0 9	24 23	0 54	18 40	0 20	9 13	2 8	17 16	0 10	12 12	1 19	28 46	5 12	6 29	6 39	18 49		n.a.
T 18	3 31	15 50	5 11	3 50	0 56	18 18	0 12	24 23	0 55	18 42	0 20	9 11	2 8	17 16	0 10	12 11	1 19	28 46	5 12	6 29	6 41	18 49		n.a.
W19	3 7	17 34	5 17	3 4	0 50	18 3	0 16	24 22	0 57	18 45	0 20	9 8	2 8	17 17	0 10	12 11	1 19	28 46	5 12	6 30	6 42	18 49		n.a.
T 20	2 44	18 31	5 9	2 18	0 44	17 47	0 20	24 20	0 58	18 47	0 19	9 5	2 8	17 18	0 10	12 10	1 19	28 46	5 12	6 30	6 43	18 50		n.a.
F 21	2 20	18 39	4 48	1 33	0 38	17 31	0 24	24 19	0 59	18 50	0 19	9 2	2 8	17 19	0 10	12 9	1 19	28 46	5 12	6 29	6 44	18 50		n.a.
S 22	1 56	17 58	4 15	0 47	0 32	17 14	0 28	24 18	1 0	18 52	0 19	9 0	2 9	17 19	0 10	12 8	1 19	28 46	5 12	6 29	6 46	18 50		n.a.
S 23	1 32	16 28	3 30	0 2	0 25	16 57	0 31	24 17	1 1	18 55	0 19	8 57	2 9	17 20	0 10	12 8	1 19	28 46	5 12	6 29	6 47	18 50		n.a.
M24	1 8	14 11	2 35	0s43	0 19	16 39	0 35	24 15	1 2	18 58	0 19	8 54	2 9	17 21	0 10	12 7	1 19	28 46	5 12	6 28	6 48	18 50		n.a.
T 25	0 43	11 13	1 31	1 28	0 12	16 21	0 38	24 13	1 4	19 0	0 19	8 52	2 9	17 22	0 10	12 6	1 19	28 46	5 12	6 28	6 49	18 51		n.a.
W26	0 19	7 39	0 22	2 12	0 6	16 2	0 42	24 12	1 5	19 3	0 18	8 49	2 9	17 22	0 10	12 6	1 19	28 45	5 12	6 28	6 50	18 51		n.a.
T 27	0s 5	3 38	0n50	2 57	0s 1	15 43	0 45	24 10	1 6	19 6	0 18	8 46	2 9	17 23	0 10	12 5	1 19	28 45	5 11	6 28	6 52	18 51		n.a.
F 28	0 29	0s39	2 1	3 41	0 8	15 23	0 48	24 8	1 7	19 8	0 18	8 44	2 9	17 24	0 10	12 4	1 19	28 45	5 11	6 28	6 53	18 51		n.a.
S 29	0 53	4 59	3 6	4 25	0 14	15 3	0 52	24 6	1 9	19 11	0 18	8 41	2 9	17 25	0 10	12 3	1 19	28 45	5 11	6 29	6 54	18 51		n.a.
S 30	1s17	9s 7	4n 2	5s 8	0s21	14n42	0n55	24n 4	1n10	19s14	0n18	8n38	2n 9	17s25	0n10	12n 3	1n19	28s45	5s11	6n30	6n55	18n52		n.a.

Julian Day Number = 1648616.5, Delta T = 03h32m18s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°49'14, Lahiri = - 6°42'14 Julian Calendar 1 Sept. 200 BCE == Greg. Calendar 29 Aug. 200 BCE

The year -199 astronomical counting style corresponds to year 200 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 200 BCE
geocentric

OCTOBER 200 BCE (-199) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 23 51	4♎12'37	17♏47	13♎36	24♌41	15♋ 5	26♏20	13♍23	18♏42	2♍14	6♑11	13°R37	12♍31	2♋53	n.a.	M 1
T 2	0 27 48	5°12'50	1♐56	15° 9	25°53	15°35	26°31	13°30	18°45	2°16	6°12	13♍34	12°27	3° 0	n.a.	T 2
W 3	0 31 44	6°13'04	16°10	16°42	27° 4	16° 5	26°42	13°36	18°48	2°18	6°12	13°32	12°24	3° 6	n.a.	W 3
T 4	0 35 41	7°13'20	0♑23	18°14	28°16	16°35	26°53	13°43	18°51	2°19	6°12	13°31	12°21	3°13	n.a.	T 4
F 5	0 39 37	8°13'37	14°34	19°46	29°28	17° 4	27° 4	13°50	18°54	2°21	6°12	13°D31	12°18	3°20	n.a.	F 5
S 6	0 43 34	9°13'56	28°40	21°18	0♍40	17°34	27°16	13°57	18°57	2°23	6°13	13°32	12°15	3°26	n.a.	S 6
S 7	0 47 30	10°14'16	12♒41	22°49	1°52	18° 3	27°27	14° 4	19° 0	2°25	6°13	13°33	12°12	3°33	n.a.	S 7
M 8	0 51 27	11°14'38	26°34	24°20	3° 4	18°32	27°39	14°11	19° 3	2°27	6°14	13°35	12° 8	3°40	n.a.	M 8
T 9	0 55 23	12°15'01	10♓18	25°50	4°16	19° 0	27°50	14°17	19° 6	2°29	6°14	13°R35	12° 5	3°47	n.a.	T 9
W10	0 59 20	13°15'26	23°51	27°20	5°28	19°29	28° 2	14°24	19° 9	2°31	6°14	13°35	12° 2	3°53	n.a.	W10
T 11	1 3 17	14°15'53	7♈13	28°49	6°41	19°57	28°14	14°31	19°13	2°32	6°15	13°33	11°59	4° 0	n.a.	T 11
F 12	1 7 13	15°16'21	20°21	0♏18	7°53	20°25	28°25	14°37	19°16	2°34	6°16	13°30	11°56	4° 7	n.a.	F 12
S 13	1 11 10	16°16'51	3♉14	1°47	9° 6	20°53	28°37	14°44	19°19	2°36	6°16	13°25	11°52	4°13	n.a.	S 13
S 14	1 15 6	17°17'23	15°52	3°15	10°19	21°21	28°49	14°51	19°22	2°38	6°17	13°19	11°49	4°20	n.a.	S 14
M15	1 19 3	18°17'57	28°15	4°43	11°31	21°48	29° 1	14°57	19°25	2°39	6°17	13°12	11°46	4°27	n.a.	M15
T 16	1 22 59	19°18'32	10♊26	6°10	12°44	22°15	29°13	15° 4	19°29	2°41	6°18	13° 6	11°43	4°34	n.a.	T 16
W17	1 26 56	20°19'10	22°26	7°36	13°57	22°42	29°25	15°10	19°32	2°43	6°19	13° 1	11°40	4°40	n.a.	W17
T 18	1 30 52	21°19'49	4♋20	9° 2	15°10	23° 9	29°38	15°16	19°35	2°44	6°19	12°58	11°37	4°47	n.a.	T 18
F 19	1 34 49	22°20'30	16°11	10°27	16°23	23°35	29°50	15°23	19°39	2°46	6°20	12°56	11°33	4°54	n.a.	F 19
S 20	1 38 46	23°21'12	28° 4	11°52	17°36	24° 1	0♐ 2	15°29	19°42	2°47	6°21	12°D56	11°30	5° 0	n.a.	S 20
S 21	1 42 42	24°21'57	10♌ 5	13°15	18°50	24°27	0°15	15°35	19°45	2°49	6°22	12°57	11°27	5° 7	n.a.	S 21
M22	1 46 39	25°22'43	22°18	14°38	20° 3	24°52	0°27	15°42	19°49	2°51	6°22	12°59	11°24	5°14	n.a.	M22
T 23	1 50 35	26°23'31	4♍49	15°59	21°16	25°18	0°40	15°48	19°52	2°52	6°23	13° 0	11°21	5°21	n.a.	T 23
W24	1 54 32	27°24'21	17°40	17°20	22°30	25°43	0°53	15°54	19°56	2°54	6°24	13°R 0	11°17	5°27	n.a.	W24
T 25	1 58 28	28°25'12	0♎55	18°39	23°43	26° 7	1° 5	16° 0	19°59	2°55	6°25	12°59	11°14	5°34	n.a.	T 25
F 26	2 2 25	29°26'04	14°35	19°56	24°57	26°32	1°18	16° 6	20° 3	2°56	6°26	12°55	11°11	5°41	n.a.	F 26
S 27	2 6 21	0♏26'58	28°36	21°12	26°11	26°56	1°31	16°12	20° 6	2°58	6°27	12°49	11° 8	5°47	n.a.	S 27
S 28	2 10 18	1°27'53	12♏57	22°25	27°24	27°20	1°44	16°18	20°10	2°59	6°28	12°41	11° 5	5°54	n.a.	S 28
M29	2 14 14	2°28'50	27°30	23°36	28°38	27°43	1°57	16°23	20°13	3° 1	6°29	12°33	11° 2	6° 1	n.a.	M29
T 30	2 18 11	3°29'47	12♐ 8	24°45	29°52	28° 6	2°10	16°29	20°17	3° 2	6°30	12°25	10°58	6° 8	n.a.	T 30
W31	2 22 8	4♏30'46	26♐45	25♏50	1♎ 6	28♋29	2♐23	16♍35	20♏20	3♍ 3	6♑31	12♍18	10♍55	6♋14	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	1 s42	12 s48	4n43	5 s51	0 s28	14n21	0n58	24n 2	1n11	19 s16	0n18	8n36	2n 9	17 s26	0n10	12n 2	1n19	28 s45	5 s11	6n31	6n57	18n52			n.a.
T 2	2 6	15 45	5 8	6 34	0 34	13 59	1 1	23 59	1 12	19 19	0 18	8 33	2 10	17 27	0 10	12 1	1 19	28 45	5 11	6 32	6 58	18 52			n.a.
W 3	2 30	17 47	5 14	7 16	0 41	13 37	1 4	23 57	1 14	19 22	0 17	8 30	2 10	17 28	0 10	12 1	1 19	28 45	5 11	6 33	6 59	18 52			n.a.
T 4	2 54	18 42	5 1	7 58	0 48	13 15	1 6	23 55	1 15	19 25	0 17	8 28	2 10	17 29	0 9	12 0	1 19	28 45	5 11	6 33	7 0	18 52			n.a.
F 5	3 18	18 27	4 30	8 39	0 54	12 52	1 9	23 52	1 16	19 27	0 17	8 25	2 10	17 30	0 9	11 59	1 19	28 45	5 11	6 33	7 2	18 52			n.a.
S 6	3 42	17 2	3 42	9 20	1 0	12 29	1 12	23 50	1 17	19 30	0 17	8 23	2 10	17 30	0 9	11 59	1 20	28 45	5 11	6 33	7 3	18 52			n.a.
S 7	4 6	14 37	2 42	10 0	1 7	12 5	1 14	23 47	1 19	19 33	0 17	8 20	2 10	17 31	0 9	11 58	1 20	28 45	5 11	6 32	7 4	18 53			n.a.
M 8	4 30	11 22	1 32	10 40	1 13	11 41	1 17	23 45	1 20	19 36	0 17	8 18	2 10	17 32	0 9	11 57	1 20	28 44	5 11	6 32	7 5	18 53			n.a.
T 9	4 54	7 31	0 18	11 19	1 19	11 17	1 19	23 42	1 22	19 38	0 17	8 15	2 10	17 33	0 9	11 57	1 20	28 44	5 11	6 31	7 6	18 53			n.a.
W10	5 18	3 19	0 s56	11 58	1 25	10 52	1 21	23 39	1 23	19 41	0 16	8 13	2 10	17 34	0 9	11 56	1 20	28 44	5 11	6 32	7 8	18 53			n.a.
T 11	5 41	0n59	2 6	12 35	1 31	10 27	1 24	23 36	1 24	19 44	0 16	8 10	2 11	17 35	0 9	11 56	1 20	28 44	5 11	6 32	7 9	18 53			n.a.
F 12	6 5	5 9	3 7	13 13	1 36	10 2	1 26	23 33	1 26	19 47	0 16	8 8	2 11	17 36	0 9	11 55	1 20	28 44	5 10	6 34	7 10	18 53			n.a.
S 13	6 28	9 0	3 58	13 49	1 42	9 36	1 28	23 30	1 27	19 49	0 16	8 5	2 11	17 37	0 9	11 54	1 20	28 44	5 10	6 36	7 11	18 53			n.a.
S 14	6 52	12 22	4 36	14 25	1 47	9 10	1 30	23 27	1 28	19 52	0 16	8 3	2 11	17 37	0 9	11 54	1 20	28 44	5 10	6 38	7 13	18 54			n.a.
M15	7 15	15 7	5 0	15 0	1 52	8 44	1 31	23 24	1 30	19 55	0 16	8 0	2 11	17 38	0 9	11 53	1 20	28 44	5 10	6 40	7 14	18 54			n.a.
T 16	7 39	17 9	5 10	15 34	1 57	8 17	1 33	23 21	1 31	19 58	0 16	7 58	2 11	17 39	0 9	11 53	1 20	28 44	5 10	6 43	7 15	18 54			n.a.
W17	8 2	18 24	5 7	16 7	2 2	7 50	1 35	23 18	1 33	20 1	0 15	7 56	2 12	17 40	0 9	11 52	1 20	28 44	5 10	6 45	7 16	18 54			n.a.
T 18	8 25	18 49	4 50	16 40	2 6	7 23	1 36	23 15	1 34	20 3	0 15	7 53	2 12	17 41	0 9	11 51	1 20	28 43	5 10	6 46	7 17	18 54			n.a.
F 19	8 48	18 25	4 20	17 11	2 10	6 56	1 38	23 12	1 36	20 6	0 15	7 51	2 12	17 42	0 9	11 51	1 20	28 43	5 10	6 47	7 19	18 54			n.a.
S 20	9 10	17 12	3 40	17 42	2 14	6 28	1 39	23 9	1 37	20 9	0 15	7 49	2 12	17 43	0 9	11 50	1 20	28 43	5 10	6 47	7 20	18 54			n.a.
S 21	9 33	15 13	2 49	18 11	2 18	6 0	1 41	23 6	1 39	20 12	0 15	7 46	2 12	17 44	0 9	11 50	1 20	28 43	5 10	6 46	7 21	18 54			n.a.
M22	9 56	12 30	1 50	18 39	2 21	5 32	1 42	23 3	1 40	20 14	0 15	7 44	2 12	17 45	0 9	11 49	1 20	28 43	5 10	6 46	7 22	18 54			n.a.
T 23	10 18	9 10	0 44	19 6	2 23	5 4	1 43	23 0	1 42	20 17	0 15	7 42	2 12	17 46	0 9	11 49	1 20	28 43	5 10	6 45	7 24	18 55			n.a.
W24	10 40	5 19	0n25	19 32	2 26	4 36	1 44	22 56	1 43	20 20	0 15	7 39	2 13	17 47	0 9	11 48	1 20	28 43	5 10	6 45	7 25	18 55			n.a.
T 25	11 2	1 5	1 35	19 56	2 28	4 7	1 45	22 53	1 45	20 23	0 14	7 37	2 13	17 48	0 9	11 48	1 20	28 43	5 10	6 46	7 26	18 55			n.a.
F 26	11 24	3 s19	2 42	20 19	2 29	3 39	1 46	22 50	1 47	20 26	0 14	7 35	2 13	17 49	0 9	11 47	1 20	28 43	5 10	6 47	7 27	18 55			n.a.
S 27	11 46	7 40	3 41	20 40	2 30	3 10	1 46	22 47	1 48	20 28	0 14	7 33	2 13	17 50	0 9	11 47	1 20	28 43	5 9	6 50	7 28	18 55			n.a.
S 28	12 7	11 40	4 27	21 0	2 30	2 41	1 47	22 44	1 50	20 31	0 14	7 31	2 13	17 51	0 9	11 46	1 20	28 42	5 9	6 52	7 30	18 55			n.a.
M29	12 28	15 1	4 56	21 18	2 30	2 11	1 48	22 41	1 52	20 34	0 14	7 29	2 14	17 51	0 9	11 46	1 20	28 42	5 9	6 56	7 31	18 55			n.a.
T 30	12 50	17 27	5 6	21 34	2 28	1 42	1 48	22 38	1 53	20 37	0 14	7 27	2 14	17 52	0 9	11 46	1 21	28 42	5 9	6 59	7 32	18 55			n.a.
W31	13 s10	18 s44	4n57	21 s49	2 s27	1n13	1n49	22n35	1n55	20 s39	0n14	7n25	2n14	17 s53	0n 9	11n45	1n21	28 s42	5 s 9	7n 1	7n33	18n55			n.a.

Julian Day Number = 1648646.5, Delta T = 03h32m17s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°49'10, Lahiri = - 6°42'10 Julian Calendar 1 Oct. 200 BCE == Greg. Calendar 28 Sept. 200 BCE

The year -199 astronomical counting style corresponds to year 200 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 200 BCE
geocentric

NOVEMBER 200 BCE (-199) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 26 4	5♏31'46	11♉14	26♏52	2♎20	28♋52	2♐36	16♍40	20♏24	3♍ 4	6♉32	12°R13	10♍52	6♋21	n.a.	T 1
F 2	2 30 1	6°32'46	25°30	27°50	3°34	29°14	2°49	16°46	20°27	3° 6	6°33	12♍11	10°49	6°28	n.a.	F 2
S 3	2 33 57	7°33'47	9♒33	28°44	4°48	29°36	3° 2	16°52	20°31	3° 7	6°34	12°D10	10°46	6°34	n.a.	S 3
S 4	2 37 54	8°34'49	23°21	29°32	6° 2	29°57	3°15	16°57	20°35	3° 8	6°35	12°11	10°43	6°41	n.a.	S 4
M 5	2 41 50	9°35'51	6♓55	0♐14	7°16	0♌18	3°29	17° 2	20°38	3° 9	6°36	12°R12	10°39	6°48	n.a.	M 5
T 6	2 45 47	10°36'55	20°15	0°49	8°30	0°39	3°42	17° 8	20°42	3°10	6°37	12°11	10°36	6°55	n.a.	T 6
W 7	2 49 44	11°37'58	3♈24	1°17	9°45	0°59	3°55	17°13	20°45	3°11	6°39	12° 9	10°33	7° 1	n.a.	W 7
T 8	2 53 40	12°39'03	16°22	1°36	10°59	1°19	4° 9	17°18	20°49	3°12	6°40	12° 4	10°30	7° 8	n.a.	T 8
F 9	2 57 37	13°40'08	29° 9	1°46	12°13	1°38	4°22	17°23	20°53	3°13	6°41	11°57	10°27	7°15	n.a.	F 9
S 10	3 1 33	14°41'14	11♉46	1°R46	13°27	1°58	4°36	17°28	20°56	3°14	6°42	11°47	10°23	7°21	n.a.	S 10
S 11	3 5 30	15°42'21	24°11	1°36	14°42	2°16	4°49	17°33	21° 0	3°15	6°44	11°35	10°20	7°28	n.a.	S 11
M12	3 9 26	16°43'29	6♊27	1°14	15°56	2°35	5° 3	17°38	21° 4	3°16	6°45	11°22	10°17	7°35	n.a.	M12
T 13	3 13 23	17°44'38	18°33	0°40	17°11	2°52	5°16	17°43	21° 7	3°17	6°46	11° 9	10°14	7°41	n.a.	T 13
W14	3 17 19	18°45'47	0♋30	29♏55	18°25	3°10	5°30	17°47	21°11	3°18	6°48	10°58	10°11	7°48	n.a.	W14
T 15	3 21 16	19°46'58	12°22	28°59	19°40	3°27	5°43	17°52	21°15	3°19	6°49	10°49	10° 8	7°55	n.a.	T 15
F 16	3 25 13	20°48'09	24°11	27°54	20°54	3°43	5°57	17°57	21°18	3°20	6°50	10°43	10° 4	8° 2	n.a.	F 16
S 17	3 29 9	21°49'20	6♌ 2	26°41	22° 9	3°59	6°11	18° 1	21°22	3°20	6°52	10°40	10° 1	8° 8	n.a.	S 17
S 18	3 33 6	22°50'33	18° 0	25°22	23°23	4°15	6°25	18° 6	21°26	3°21	6°53	10°39	9°58	8°15	n.a.	S 18
M19	3 37 2	23°51'46	0♍ 9	23°59	24°38	4°30	6°38	18°10	21°29	3°22	6°55	10°D39	9°55	8°22	n.a.	M19
T 20	3 40 59	24°53'01	12°35	22°37	25°53	4°44	6°52	18°14	21°33	3°23	6°56	10°R39	9°52	8°28	n.a.	T 20
W21	3 44 55	25°54'15	25°24	21°17	27° 7	4°58	7° 6	18°18	21°37	3°23	6°58	10°38	9°49	8°35	n.a.	W21
T 22	3 48 52	26°55'31	8♎40	20° 2	28°22	5°12	7°20	18°22	21°40	3°24	6°59	10°35	9°45	8°42	n.a.	T 22
F 23	3 52 48	27°56'47	22°24	18°53	29°37	5°25	7°34	18°26	21°44	3°24	7° 1	10°29	9°42	8°49	n.a.	F 23
S 24	3 56 45	28°58'03	6♏36	17°54	0♏52	5°37	7°47	18°30	21°48	3°25	7° 2	10°21	9°39	8°55	n.a.	S 24
S 25	4 0 42	29°59'20	21°14	17° 5	2° 6	5°49	8° 1	18°34	21°51	3°25	7° 4	10°10	9°36	9° 2	n.a.	S 25
M26	4 4 38	1♐ 0'37	6♐10	16°26	3°21	6° 0	8°15	18°38	21°55	3°26	7° 5	9°58	9°33	9° 9	n.a.	M26
T 27	4 8 35	2° 1'54	21°14	15°57	4°36	6°11	8°29	18°42	21°58	3°26	7° 7	9°47	9°29	9°15	n.a.	T 27
W28	4 12 31	3° 3'12	6♉17	15°40	5°51	6°21	8°43	18°45	22° 2	3°27	7° 9	9°36	9°26	9°22	n.a.	W28
T 29	4 16 28	4° 4'29	21°10	15°D32	7° 6	6°30	8°57	18°49	22° 6	3°27	7°10	9°29	9°23	9°29	n.a.	T 29
F 30	4 20 24	5♐ 5'46	5♒44	15♏34	8♏21	6♌39	9♐11	18♍52	22♏ 9	3♍27	7♉12	9♍24	9♍20	9♋35	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s31	18s47	4n28	22s 1	2s24	0n43	1n49	22n32	1n57	20s42	0n14	7n22	2n14	17s54	0n 9	11n45	1n21	28s42	5s 9	7n 3	7n35	18n55		n.a.
F 2	13 51	17 37	3 43	22 11	2 20	0 14	1 49	22 29	1 58	20 45	0 13	7 20	2 14	17 55	0 9	11 44	1 21	28 42	5 9	7 4	7 36	18 55		n.a.
S 3	14 12	15 24	2 46	22 19	2 16	0s16	1 49	22 26	2 0	20 47	0 13	7 18	2 15	17 56	0 9	11 44	1 21	28 42	5 9	7 4	7 37	18 55		n.a.
S 4	14 32	12 20	1 39	22 24	2 10	0 45	1 49	22 23	2 2	20 50	0 13	7 17	2 15	17 57	0 9	11 44	1 21	28 42	5 9	7 4	7 38	18 55		n.a.
M 5	14 51	8 38	0 28	22 26	2 3	1 15	1 49	22 20	2 4	20 53	0 13	7 15	2 15	17 58	0 9	11 43	1 21	28 42	5 9	7 4	7 39	18 55		n.a.
T 6	15 11	4 34	0s43	22 26	1 55	1 44	1 49	22 17	2 5	20 55	0 13	7 13	2 15	17 59	0 9	11 43	1 21	28 42	5 9	7 4	7 41	18 56		n.a.
W 7	15 30	0 19	1 51	22 23	1 46	2 14	1 49	22 14	2 7	20 58	0 13	7 11	2 15	18 0	0 9	11 42	1 21	28 41	5 9	7 5	7 42	18 56		n.a.
T 8	15 49	3n52	2 52	22 16	1 35	2 44	1 49	22 12	2 9	21 1	0 13	7 9	2 16	18 1	0 9	11 42	1 21	28 41	5 9	7 7	7 43	18 56		n.a.
F 9	16 7	7 50	3 43	22 6	1 23	3 13	1 48	22 9	2 11	21 3	0 13	7 7	2 16	18 2	0 9	11 42	1 21	28 41	5 9	7 10	7 44	18 56		n.a.
S 10	16 26	11 23	4 22	21 53	1 9	3 43	1 48	22 7	2 13	21 6	0 13	7 5	2 16	18 3	0 9	11 41	1 21	28 41	5 9	7 14	7 45	18 56		n.a.
S 11	16 44	14 22	4 49	21 36	0 54	4 13	1 47	22 4	2 15	21 9	0 12	7 4	2 16	18 4	0 9	11 41	1 21	28 41	5 9	7 18	7 47	18 56		n.a.
M12	17 2	16 41	5 1	21 15	0 37	4 42	1 47	22 2	2 17	21 11	0 12	7 2	2 16	18 5	0 9	11 41	1 21	28 41	5 9	7 23	7 48	18 56		n.a.
T 13	17 19	18 14	5 0	20 50	0 19	5 11	1 46	21 59	2 19	21 14	0 12	7 0	2 17	18 6	0 9	11 41	1 21	28 41	5 9	7 28	7 49	18 56		n.a.
W14	17 36	18 58	4 45	20 22	0 0	5 41	1 45	21 57	2 21	21 16	0 12	6 59	2 17	18 7	0 9	11 40	1 21	28 41	5 9	7 32	7 50	18 56		n.a.
T 15	17 53	18 51	4 18	19 51	0n20	6 10	1 45	21 55	2 23	21 19	0 12	6 57	2 17	18 8	0 9	11 40	1 21	28 41	5 9	7 36	7 52	18 56		n.a.
F 16	18 10	17 55	3 40	19 16	0 40	6 39	1 44	21 53	2 25	21 21	0 12	6 55	2 17	18 9	0 9	11 40	1 21	28 40	5 9	7 38	7 53	18 56		n.a.
S 17	18 26	16 11	2 53	18 40	1 0	7 8	1 43	21 51	2 27	21 24	0 12	6 54	2 18	18 10	0 9	11 40	1 21	28 40	5 9	7 39	7 54	18 56		n.a.
S 18	18 42	13 45	1 57	18 2	1 20	7 37	1 42	21 49	2 29	21 26	0 12	6 52	2 18	18 11	0 9	11 39	1 22	28 40	5 9	7 40	7 55	18 56		n.a.
M19	18 57	10 41	0 55	17 23	1 39	8 6	1 41	21 48	2 31	21 29	0 12	6 51	2 18	18 12	0 9	11 39	1 22	28 40	5 9	7 40	7 56	18 56		n.a.
T 20	19 13	7 4	0n10	16 45	1 57	8 34	1 39	21 46	2 33	21 31	0 11	6 49	2 18	18 13	0 9	11 39	1 22	28 40	5 9	7 40	7 58	18 56		n.a.
W21	19 27	3 2	1 17	16 9	2 13	9 2	1 38	21 45	2 35	21 34	0 11	6 48	2 19	18 14	0 9	11 39	1 22	28 40	5 8	7 40	7 59	18 56		n.a.
T 22	19 42	1s17	2 23	15 36	2 26	9 31	1 37	21 43	2 37	21 36	0 11	6 46	2 19	18 15	0 9	11 39	1 22	28 40	5 8	7 41	8 0	18 56		n.a.
F 23	19 56	5 42	3 22	15 7	2 38	9 59	1 36	21 42	2 39	21 39	0 11	6 45	2 19	18 16	0 9	11 39	1 22	28 40	5 8	7 43	8 1	18 56		n.a.
S 24	20 10	9 56	4 11	14 42	2 47	10 26	1 34	21 41	2 41	21 41	0 11	6 44	2 19	18 17	0 9	11 38	1 22	28 40	5 8	7 46	8 2	18 56		n.a.
S 25	20 23	13 42	4 44	14 21	2 54	10 54	1 33	21 40	2 44	21 43	0 11	6 43	2 20	18 18	0 9	11 38	1 22	28 40	5 8	7 50	8 4	18 56		n.a.
M26	20 36	16 40	5 0	14 6	2 58	11 21	1 31	21 40	2 46	21 46	0 11	6 41	2 20	18 19	0 9	11 38	1 22	28 39	5 8	7 55	8 5	18 56		n.a.
T 27	20 48	18 32	4 54	13 55	3 1	11 48	1 29	21 39	2 48	21 48	0 11	6 40	2 20	18 20	0 9	11 38	1 22	28 39	5 8	8 0	8 6	18 56		n.a.
W28	21 1	19 5	4 29	13 49	3 2	12 15	1 28	21 39	2 50	21 50	0 11	6 39	2 20	18 21	0 9	11 38	1 22	28 39	5 8	8 3	8 7	18 56		n.a.
T 29	21 12	18 19	3 45	13 48	3 1	12 41	1 26	21 39	2 53	21 53	0 10	6 38	2 21	18 22	0 9	11 38	1 22	28 39	5 8	8 6	8 8	18 56		n.a.
F 30	21s24	16s21	2n48	13s51	2n59	13s 7	1n24	21n38	2n55	21s55	0n10	6n37	2n21	18s23	0n 9	11n38	1n22	28s39	5s 8	8n 8	8n10	18n56		n.a.

Julian Day Number = 1648677.5, Delta T = 03h32m16s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°49'06, Lahiri = - 6°42'05 Julian Calendar 1 Nov. 200 BCE == Greg. Calendar 29 Oct. 200 BCE

The year -199 astronomical counting style corresponds to year 200 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 200 BCE
geocentric

DECEMBER 200 BCE (-199) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 24 21	6♐ 7'03	19♒57	15♏45	9♏35	6♌47	9♐25	18♍55	22♏13	3♍28	7♑13	9°R21	9♍17	9♋42	n.a.	S 1
S 2	4 28 17	7° 8'19	3♓47	16° 3	10°50	6°55	9°39	18°58	22°16	3°28	7°15	9♍21	9°14	9°49	n.a.	S 2
M 3	4 32 14	8° 9'35	17°16	16°30	12° 5	7° 2	9°53	19° 1	22°20	3°28	7°17	9°21	9°10	9°56	n.a.	M 3
T 4	4 36 11	9°10'51	0♈26	17° 2	13°20	7° 8	10° 7	19° 4	22°24	3°28	7°18	9°20	9° 7	10° 2	n.a.	T 4
W 5	4 40 7	10°12'06	13°19	17°41	14°35	7°14	10°21	19° 7	22°27	3°28	7°20	9°17	9° 4	10° 9	n.a.	W 5
T 6	4 44 4	11°13'20	26° 0	18°25	15°50	7°19	10°35	19°10	22°31	3°29	7°22	9°11	9° 1	10°16	n.a.	T 6
F 7	4 48 0	12°14'35	8♉29	19°14	17° 5	7°23	10°48	19°13	22°34	3°29	7°24	9° 2	8°58	10°22	n.a.	F 7
S 8	4 51 57	13°15'48	20°49	20° 7	18°20	7°26	11° 2	19°15	22°38	3°29	7°25	8°50	8°54	10°29	n.a.	S 8
S 9	4 55 53	14°17'02	3♊ 1	21° 4	19°35	7°29	11°16	19°18	22°41	3°R29	7°27	8°36	8°51	10°36	n.a.	S 9
M10	4 59 50	15°18'15	15° 6	22° 4	20°50	7°31	11°30	19°20	22°45	3°29	7°29	8°21	8°48	10°43	n.a.	M10
T 11	5 3 46	16°19'28	27° 5	23° 7	22° 4	7°33	11°44	19°23	22°48	3°29	7°31	8° 6	8°45	10°49	n.a.	T 11
W12	5 7 43	17°20'40	8♋59	24°13	23°19	7°R33	11°58	19°25	22°51	3°28	7°32	7°53	8°42	10°56	n.a.	W12
T 13	5 11 40	18°21'52	20°49	25°22	24°34	7°33	12°12	19°27	22°55	3°28	7°34	7°42	8°39	11° 3	n.a.	T 13
F 14	5 15 36	19°23'03	2♌38	26°32	25°49	7°32	12°26	19°29	22°58	3°28	7°36	7°34	8°35	11° 9	n.a.	F 14
S 15	5 19 33	20°24'15	14°29	27°45	27° 4	7°31	12°40	19°31	23° 2	3°28	7°38	7°30	8°32	11°16	n.a.	S 15
S 16	5 23 29	21°25'25	26°26	28°59	28°19	7°28	12°54	19°33	23° 5	3°28	7°40	7°27	8°29	11°23	n.a.	S 16
M17	5 27 26	22°26'36	8♍33	0♐15	29°34	7°25	13° 8	19°35	23° 8	3°28	7°41	7°D27	8°26	11°29	n.a.	M17
T 18	5 31 22	23°27'46	20°55	1°32	0♐49	7°21	13°22	19°36	23°12	3°27	7°43	7°R27	8°23	11°36	n.a.	T 18
W19	5 35 19	24°28'55	3♎38	2°51	2° 4	7°16	13°36	19°38	23°15	3°27	7°45	7°27	8°20	11°43	n.a.	W19
T 20	5 39 16	25°30'04	16°46	4°11	3°19	7°11	13°49	19°39	23°18	3°27	7°47	7°25	8°16	11°50	n.a.	T 20
F 21	5 43 12	26°31'13	0♏24	5°32	4°34	7° 4	14° 3	19°40	23°21	3°26	7°49	7°21	8°13	11°56	n.a.	F 21
S 22	5 47 9	27°32'21	14°32	6°54	5°49	6°57	14°17	19°41	23°25	3°26	7°51	7°14	8°10	12° 3	n.a.	S 22
S 23	5 51 5	28°33'28	29° 8	8°18	7° 4	6°49	14°31	19°43	23°28	3°25	7°52	7° 5	8° 7	12°10	n.a.	S 23
M24	5 55 2	29°34'35	14♐ 9	9°42	8°19	6°40	14°45	19°44	23°31	3°25	7°54	6°54	8° 4	12°16	n.a.	M24
T 25	5 58 58	0♑35'41	29°24	11° 7	9°34	6°30	14°58	19°44	23°34	3°24	7°56	6°44	8° 0	12°23	n.a.	T 25
W26	6 2 55	1°36'46	14♑43	12°33	10°49	6°20	15°12	19°45	23°37	3°24	7°58	6°34	7°57	12°30	n.a.	W26
T 27	6 6 51	2°37'50	29°54	14° 0	12° 4	6° 9	15°26	19°46	23°40	3°23	8° 0	6°27	7°54	12°36	n.a.	T 27
F 28	6 10 48	3°38'53	14♒48	15°27	13°19	5°57	15°39	19°46	23°43	3°22	8° 2	6°23	7°51	12°43	n.a.	F 28
S 29	6 14 45	4°39'54	29°18	16°56	14°34	5°44	15°53	19°47	23°46	3°22	8° 4	6°21	7°48	12°50	n.a.	S 29
S 30	6 18 41	5°40'54	13♓21	18°25	15°49	5°30	16° 7	19°47	23°49	3°21	8° 6	6°D21	7°45	12°57	n.a.	S 30
M31	6 22 38	6♑41'53	26♓58	19♐54	17♐ 4	5♌16	16♐20	19♍47	23♏52	3♍20	8♑ 7	6♍22	7♍41	13♋ 3	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s35	13s25	1n41	13s57	2n55	13s33	1n22	21n39	2n57	21s57	0n10	6n36	2n21	18s24	0n 9	11n38	1n22	28s39	5s 8	8n 9	8n11	18n56		n.a.
S 2	21 45	9 47	0 29	14 7	2 51	13 59	1 20	21 39	2 59	21 59	0 10	6 35	2 21	18 24	0 9	11 38	1 22	28 39	5 8	8 9	8 12	18 56		n.a.
M 3	21 55	5 44	0s42	14 19	2 46	14 24	1 19	21 39	3 2	22 1	0 10	6 34	2 22	18 25	0 9	11 38	1 22	28 39	5 8	8 9	8 13	18 56		n.a.
T 4	22 5	1 29	1 49	14 34	2 40	14 48	1 17	21 40	3 4	22 4	0 10	6 33	2 22	18 26	0 9	11 38	1 22	28 39	5 8	8 10	8 15	18 56		n.a.
W 5	22 14	2n44	2 49	14 51	2 33	15 13	1 15	21 41	3 6	22 6	0 10	6 32	2 22	18 27	0 9	11 38	1 22	28 39	5 8	8 11	8 16	18 56		n.a.
T 6	22 23	6 45	3 40	15 10	2 26	15 37	1 12	21 42	3 9	22 8	0 10	6 31	2 23	18 28	0 9	11 38	1 23	28 38	5 8	8 13	8 17	18 56		n.a.
F 7	22 31	10 25	4 19	15 31	2 19	16 0	1 10	21 43	3 11	22 10	0 10	6 30	2 23	18 29	0 9	11 38	1 23	28 38	5 8	8 17	8 18	18 55		n.a.
S 8	22 39	13 35	4 45	15 53	2 11	16 24	1 8	21 44	3 14	22 12	0 9	6 29	2 23	18 30	0 9	11 38	1 23	28 38	5 8	8 21	8 19	18 55		n.a.
S 9	22 47	16 8	4 58	16 16	2 3	16 46	1 6	21 46	3 16	22 14	0 9	6 29	2 23	18 31	0 9	11 38	1 23	28 38	5 8	8 26	8 21	18 55		n.a.
M10	22 54	17 57	4 57	16 39	1 55	17 9	1 4	21 48	3 18	22 16	0 9	6 28	2 24	18 32	0 9	11 38	1 23	28 38	5 8	8 32	8 22	18 55		n.a.
T 11	23 0	18 58	4 44	17 3	1 46	17 31	1 1	21 50	3 21	22 18	0 9	6 27	2 24	18 33	0 9	11 38	1 23	28 38	5 9	8 38	8 23	18 55		n.a.
W12	23 6	19 8	4 17	17 28	1 38	17 52	0 59	21 52	3 23	22 20	0 9	6 27	2 24	18 34	0 9	11 38	1 23	28 38	5 9	8 43	8 24	18 55		n.a.
T 13	23 12	18 28	3 40	17 53	1 29	18 13	0 57	21 54	3 26	22 22	0 9	6 26	2 24	18 34	0 9	11 38	1 23	28 38	5 9	8 47	8 25	18 55		n.a.
F 14	23 17	16 59	2 53	18 18	1 21	18 33	0 54	21 57	3 28	22 24	0 9	6 25	2 25	18 35	0 9	11 38	1 23	28 38	5 9	8 50	8 27	18 55		n.a.
S 15	23 22	14 47	1 59	18 43	1 12	18 53	0 52	22 0	3 31	22 26	0 9	6 25	2 25	18 36	0 9	11 38	1 23	28 38	5 9	8 51	8 28	18 55		n.a.
S 16	23 26	11 56	0 58	19 8	1 4	19 13	0 50	22 3	3 33	22 28	0 9	6 24	2 25	18 37	0 9	11 38	1 23	28 38	5 9	8 52	8 29	18 55		n.a.
M17	23 30	8 33	0n 6	19 32	0 55	19 31	0 47	22 6	3 36	22 30	0 9	6 24	2 26	18 38	0 9	11 39	1 23	28 38	5 9	8 52	8 30	18 55		n.a.
T 18	23 33	4 44	1 11	19 57	0 47	19 50	0 45	22 9	3 38	22 32	0 8	6 24	2 26	18 39	0 9	11 39	1 23	28 38	5 9	8 52	8 31	18 55		n.a.
W19	23 36	0 35	2 14	20 21	0 38	20 8	0 42	22 13	3 41	22 33	0 8	6 23	2 26	18 40	0 9	11 39	1 23	28 37	5 9	8 52	8 33	18 55		n.a.
T 20	23 38	3s42	3 13	20 44	0 30	20 25	0 40	22 17	3 43	22 35	0 8	6 23	2 26	18 40	0 9	11 39	1 23	28 37	5 9	8 53	8 34	18 55		n.a.
F 21	23 40	7 57	4 3	21 7	0 22	20 41	0 37	22 21	3 45	22 37	0 8	6 23	2 27	18 41	0 9	11 39	1 23	28 37	5 9	8 55	8 35	18 54		n.a.
S 22	23 42	11 56	4 39	21 29	0 14	20 57	0 35	22 25	3 48	22 39	0 8	6 23	2 27	18 42	0 9	11 39	1 23	28 37	5 9	8 57	8 36	18 54		n.a.
S 23	23 43	15 19	5 0	21 50	0 6	21 13	0 32	22 30	3 50	22 40	0 8	6 22	2 27	18 43	0 9	11 40	1 23	28 37	5 9	9 1	8 37	18 54		n.a.
M24	23 43	17 48	5 0	22 11	0s 2	21 28	0 30	22 34	3 53	22 42	0 8	6 22	2 28	18 44	0 9	11 40	1 23	28 37	5 9	9 5	8 39	18 54		n.a.
T 25	23 43	19 3	4 40	22 31	0 9	21 42	0 27	22 39	3 55	22 44	0 8	6 22	2 28	18 44	0 9	11 40	1 24	28 37	5 9	9 9	8 40	18 54		n.a.
W26	23 42	18 56	3 59	22 50	0 17	21 55	0 24	22 44	3 57	22 45	0 8	6 22	2 28	18 45	0 9	11 40	1 24	28 37	5 9	9 12	8 41	18 54		n.a.
T 27	23 41	17 27	3 1	23 8	0 24	22 8	0 22	22 49	4 0	22 47	0 8	6 22	2 29	18 46	0 9	11 41	1 24	28 37	5 9	9 15	8 42	18 54		n.a.
F 28	23 40	14 48	1 52	23 25	0 31	22 21	0 19	22 54	4 2	22 49	0 7	6 22	2 29	18 47	0 9	11 41	1 24	28 37	5 9	9 16	8 43	18 54		n.a.
S 29	23 38	11 16	0 38	23 41	0 38	22 32	0 17	23 0	4 4	22 50	0 7	6 22	2 29	18 48	0 9	11 41	1 24	28 37	5 9	9 17	8 45	18 54		n.a.
S 30	23 36	7 11	0s37	23 56	0 44	22 43	0 14	23 5	4 6	22 52	0 7	6 22	2 29	18 48	0 9	11 42	1 24	28 37	5 9	9 17	8 46	18 53		n.a.
M31	23s33	2s52	1s48	24s10	0s51	22s53	0n12	23n11	4n 8	22s53	0n 7	6n23	2n30	18s49	0n 9	11n42	1n24	28s37	5s 9	9n17	8n47	18n53		n.a.

Julian Day Number = 1648707.5, Delta T = 03h32m15s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°49'02, Lahiri = - 6°42'01 Julian Calendar 1 Dec. 200 BCE == Greg. Calendar 28 Nov. 200 BCE

The year -199 astronomical counting style corresponds to year 200 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 199 BCE
geocentric

JANUARY 199 BCE (-198) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 26 34	7♑42'49	10♈10	21♐25	18♐19	5°R 1	16♐34	19♍47	23♏55	3°R20	8♑ 9	6°R22	7♍38	13♋10	n.a.	T 1
W 2	6 30 31	8°43'45	23° 1	22°56	19°34	4♌45	16°47	19°R48	23°58	3♍19	8°11	6♍21	7°35	13°17	n.a.	W 2
T 3	6 34 27	9°44'39	5♉34	24°28	20°49	4°29	17° 1	19°47	24° 1	3°18	8°13	6°17	7°32	13°23	n.a.	T 3
F 4	6 38 24	10°45'31	17°54	26° 1	22° 3	4°12	17°14	19°47	24° 4	3°17	8°15	6°11	7°29	13°30	n.a.	F 4
S 5	6 42 20	11°46'22	0♊ 3	27°35	23°18	3°54	17°27	19°47	24° 6	3°16	8°17	6° 3	7°26	13°37	n.a.	S 5
S 6	6 46 17	12°47'12	12° 5	29° 9	24°33	3°35	17°41	19°47	24° 9	3°16	8°19	5°54	7°22	13°43	n.a.	S 6
M 7	6 50 14	13°48'00	24° 1	0♑44	25°48	3°16	17°54	19°46	24°12	3°15	8°21	5°43	7°19	13°50	n.a.	M 7
T 8	6 54 10	14°48'47	5♋54	2°20	27° 3	2°57	18° 7	19°45	24°14	3°14	8°22	5°32	7°16	13°57	n.a.	T 8
W 9	6 58 7	15°49'32	17°45	3°57	28°18	2°37	18°21	19°45	24°17	3°13	8°24	5°23	7°13	14° 4	n.a.	W 9
T 10	7 2 3	16°50'15	29°36	5°34	29°33	2°16	18°34	19°44	24°20	3°12	8°26	5°16	7°10	14°10	n.a.	T 10
F 11	7 6 0	17°50'58	11♌28	7°12	0♑48	1°55	18°47	19°43	24°22	3°11	8°28	5°10	7° 6	14°17	n.a.	F 11
S 12	7 9 56	18°51'38	23°23	8°51	2° 3	1°33	19° 0	19°42	24°25	3°10	8°30	5° 7	7° 3	14°24	n.a.	S 12
S 13	7 13 53	19°52'18	5♍25	10°31	3°17	1°11	19°13	19°41	24°27	3° 9	8°32	5°D 6	7° 0	14°30	n.a.	S 13
M14	7 17 49	20°52'56	17°36	12°12	4°32	0°49	19°26	19°40	24°30	3° 7	8°34	5° 7	6°57	14°37	n.a.	M14
T 15	7 21 46	21°53'32	0♎ 0	13°53	5°47	0°26	19°39	19°38	24°32	3° 6	8°35	5° 9	6°54	14°44	n.a.	T 15
W16	7 25 43	22°54'07	12°42	15°35	7° 2	0° 3	19°52	19°37	24°34	3° 5	8°37	5°10	6°51	14°50	n.a.	W16
T 17	7 29 39	23°54'41	25°46	17°19	8°17	29♋40	20° 4	19°35	24°37	3° 4	8°39	5°R10	6°47	14°57	n.a.	T 17
F 18	7 33 36	24°55'14	9♏14	19° 3	9°32	29°16	20°17	19°34	24°39	3° 3	8°41	5° 9	6°44	15° 4	n.a.	F 18
S 19	7 37 32	25°55'45	23°10	20°48	10°46	28°53	20°30	19°32	24°41	3° 2	8°43	5° 7	6°41	15°10	n.a.	S 19
S 20	7 41 29	26°56'15	7♐33	22°34	12° 1	28°29	20°42	19°30	24°43	3° 0	8°45	5° 2	6°38	15°17	n.a.	S 20
M21	7 45 25	27°56'43	22°21	24°21	13°16	28° 5	20°55	19°28	24°45	2°59	8°46	4°57	6°35	15°24	n.a.	M21
T 22	7 49 22	28°57'10	7♑27	26° 9	14°31	27°41	21° 8	19°26	24°48	2°58	8°48	4°51	6°32	15°31	n.a.	T 22
W23	7 53 18	29°57'35	22°41	27°58	15°46	27°17	21°20	19°24	24°50	2°56	8°50	4°46	6°28	15°37	n.a.	W23
T 24	7 57 15	0♒57'58	7♒54	29°47	17° 0	26°53	21°32	19°22	24°52	2°55	8°52	4°42	6°25	15°44	n.a.	T 24
F 25	8 1 12	1°58'19	22°56	1♒38	18°15	26°30	21°45	19°20	24°54	2°54	8°53	4°40	6°22	15°51	n.a.	F 25
S 26	8 5 8	2°58'39	7♓37	3°29	19°30	26° 6	21°57	19°17	24°55	2°52	8°55	4°D40	6°19	15°57	n.a.	S 26
S 27	8 9 5	3°58'56	21°54	5°22	20°45	25°43	22° 9	19°15	24°57	2°51	8°57	4°41	6°16	16° 4	n.a.	S 27
M28	8 13 1	4°59'11	5♈42	7°15	21°59	25°20	22°21	19°12	24°59	2°50	8°59	4°42	6°12	16°11	n.a.	M28
T 29	8 16 58	5°59'24	19° 4	9° 9	23°14	24°57	22°33	19° 9	25° 1	2°48	9° 0	4°44	6° 9	16°17	n.a.	T 29
W30	8 20 54	6°59'34	2♉ 1	11° 3	24°29	24°35	22°45	19° 7	25° 3	2°47	9° 2	4°R45	6° 6	16°24	n.a.	W30
T 31	8 24 51	7♒59'43	14♉36	12♒58	25♑44	24♋12	22♐57	19♍ 4	25♏ 4	2♍45	9♑ 4	4♍45	6♍ 3	16♋31	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	23s29	1n28	2s51	24s23	0s57	23s 3	0n 9	23n17	4n10	22s55	0n 7	6n23	2n30	18s50	0n 9	11n42	1n24	28s37	5s10	9n17	8n48	18n53			n.a.
W 2	23 26	5 36	3 43	24 35	1 3	23 12	0 6	23 22	4 12	22 56	0 7	6 23	2 30	18 50	0 9	11 43	1 24	28 37	5 10	9 17	8 49	18 53			n.a.
T 3	23 21	9 24	4 23	24 45	1 9	23 20	0 4	23 28	4 14	22 58	0 7	6 23	2 31	18 51	0 9	11 43	1 24	28 37	5 10	9 18	8 51	18 53			n.a.
F 4	23 17	12 43	4 50	24 54	1 14	23 27	0 1	23 34	4 16	22 59	0 7	6 24	2 31	18 52	0 9	11 43	1 24	28 36	5 10	9 21	8 52	18 53			n.a.
S 5	23 11	15 27	5 4	25 1	1 20	23 34	0s 1	23 41	4 18	23 0	0 7	6 24	2 31	18 53	0 9	11 44	1 24	28 36	5 10	9 24	8 53	18 53			n.a.
S 6	23 6	17 29	5 4	25 8	1 25	23 40	0 4	23 47	4 20	23 2	0 7	6 25	2 31	18 53	0 9	11 44	1 24	28 36	5 10	9 27	8 54	18 52			n.a.
M 7	23 0	18 45	4 50	25 12	1 30	23 45	0 6	23 53	4 21	23 3	0 6	6 25	2 32	18 54	0 9	11 44	1 24	28 36	5 10	9 31	8 55	18 52			n.a.
T 8	22 53	19 11	4 24	25 16	1 34	23 50	0 9	23 59	4 23	23 4	0 6	6 26	2 32	18 55	0 9	11 45	1 24	28 36	5 10	9 35	8 57	18 52			n.a.
W 9	22 46	18 47	3 47	25 18	1 38	23 54	0 11	24 6	4 25	23 6	0 6	6 26	2 32	18 55	0 9	11 45	1 24	28 36	5 10	9 39	8 58	18 52			n.a.
T 10	22 39	17 33	3 0	25 18	1 42	23 57	0 14	24 12	4 26	23 7	0 6	6 27	2 33	18 56	0 9	11 46	1 24	28 36	5 10	9 41	8 59	18 52			n.a.
F 11	22 31	15 33	2 4	25 17	1 46	23 59	0 16	24 18	4 27	23 8	0 6	6 27	2 33	18 57	0 9	11 46	1 24	28 36	5 10	9 43	9 0	18 52			n.a.
S 12	22 22	12 53	1 3	25 14	1 49	24 1	0 19	24 24	4 29	23 9	0 6	6 28	2 33	18 57	0 9	11 46	1 24	28 36	5 10	9 45	9 1	18 51			n.a.
S 13	22 14	9 40	0n 2	25 9	1 52	24 2	0 21	24 31	4 30	23 11	0 6	6 29	2 33	18 58	0 9	11 47	1 24	28 36	5 11	9 45	9 2	18 51			n.a.
M14	22 4	5 59	1 7	25 3	1 55	24 2	0 24	24 37	4 31	23 12	0 6	6 29	2 34	18 58	0 9	11 47	1 25	28 36	5 11	9 45	9 4	18 51			n.a.
T 15	21 55	2 0	2 11	24 55	1 57	24 1	0 26	24 43	4 32	23 13	0 6	6 30	2 34	18 59	0 9	11 48	1 25	28 36	5 11	9 44	9 5	18 51			n.a.
W16	21 45	2s10	3 10	24 46	1 59	24 0	0 28	24 49	4 33	23 14	0 6	6 31	2 34	19 0	0 9	11 48	1 25	28 36	5 11	9 44	9 6	18 51			n.a.
T 17	21 34	6 20	4 1	24 34	2 0	23 58	0 31	24 55	4 34	23 15	0 5	6 32	2 34	19 0	0 9	11 49	1 25	28 36	5 11	9 43	9 7	18 51			n.a.
F 18	21 24	10 19	4 40	24 21	2 1	23 55	0 33	25 0	4 34	23 16	0 5	6 33	2 35	19 1	0 9	11 49	1 25	28 36	5 11	9 44	9 8	18 50			n.a.
S 19	21 12	13 52	5 4	24 6	2 2	23 51	0 35	25 6	4 35	23 17	0 5	6 34	2 35	19 1	0 9	11 50	1 25	28 36	5 11	9 45	9 10	18 50			n.a.
S 20	21 1	16 43	5 11	23 49	2 2	23 47	0 37	25 12	4 35	23 18	0 5	6 35	2 35	19 2	0 9	11 50	1 25	28 36	5 11	9 46	9 11	18 50			n.a.
M21	20 49	18 33	4 57	23 30	2 2	23 42	0 40	25 17	4 36	23 19	0 5	6 36	2 35	19 2	0 9	11 51	1 25	28 36	5 11	9 48	9 12	18 50			n.a.
T 22	20 36	19 8	4 22	23 9	2 1	23 36	0 42	25 22	4 36	23 20	0 5	6 37	2 36	19 3	0 9	11 51	1 25	28 36	5 12	9 50	9 13	18 50			n.a.
W23	20 24	18 21	3 29	22 46	2 0	23 30	0 44	25 27	4 36	23 21	0 5	6 38	2 36	19 3	0 9	11 52	1 25	28 36	5 12	9 52	9 14	18 49			n.a.
T 24	20 10	16 14	2 21	22 21	1 58	23 23	0 46	25 32	4 36	23 22	0 5	6 39	2 36	19 4	0 9	11 52	1 25	28 36	5 12	9 54	9 16	18 49			n.a.
F 25	19 57	13 2	1 4	21 55	1 56	23 15	0 48	25 37	4 36	23 23	0 5	6 40	2 36	19 4	0 9	11 53	1 25	28 36	5 12	9 54	9 17	18 49			n.a.
S 26	19 43	9 3	0s16	21 26	1 53	23 6	0 50	25 41	4 36	23 24	0 5	6 41	2 37	19 5	0 9	11 53	1 25	28 36	5 12	9 55	9 18	18 49			n.a.
S 27	19 29	4 40	1 33	20 56	1 50	22 57	0 52	25 45	4 35	23 24	0 4	6 42	2 37	19 5	0 9	11 54	1 25	28 36	5 12	9 54	9 19	18 49			n.a.
M28	19 14	0 11	2 42	20 23	1 46	22 47	0 54	25 49	4 35	23 25	0 4	6 44	2 37	19 6	0 9	11 54	1 25	28 36	5 12	9 54	9 20	18 48			n.a.
T 29	19 0	4n10	3 40	19 49	1 42	22 36	0 56	25 53	4 34	23 26	0 4	6 45	2 37	19 6	0 9	11 55	1 25	28 36	5 12	9 53	9 21	18 48			n.a.
W30	18 44	8 11	4 24	19 12	1 37	22 25	0 57	25 57	4 34	23 27	0 4	6 46	2 38	19 7	0 9	11 55	1 25	28 36	5 13	9 53	9 23	18 48			n.a.
T 31	18s29	11n43	4s55	18s34	1s31	22s13	0s59	26n 0	4n33	23s28	0n 4	6n48	2n38	19s 7	0n 9	11n56	1n25	28s36	5s13	9n53	9n24	18n48			n.a.

Julian Day Number = 1648738.5, Delta T = 03h32m14s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'58, Lahiri = - 6°41'57 Julian Calendar 1 Jan. 199 BCE == Greg. Calendar 29 Dec. 200 BCE

The year -198 astronomical counting style corresponds to year 199 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 199 BCE
geocentric

FEBRUARY 199 BCE (-198) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 28 47	8♒59'49	26♉55	14♒54	26♑58	23°R51	23♐ 9	19°R 1	25♏ 6	2°R44	9♑ 6	4°R43	6♍ 0	16♋37	n.a.	F 1
S 2	8 32 44	9°59'53	9♊ 1	16°49	28°13	23♋30	23°20	18♍58	25° 8	2♍42	9° 7	4♍41	5°57	16°44	n.a.	S 2
S 3	8 36 41	10°59'55	20°58	18°45	29°28	23° 9	23°32	18°55	25° 9	2°41	9° 9	4°37	5°53	16°51	n.a.	S 3
M 4	8 40 37	11°59'55	2♋50	20°41	0♒42	22°49	23°44	18°52	25°11	2°39	9°10	4°34	5°50	16°58	n.a.	M 4
T 5	8 44 34	12°59'52	14°40	22°36	1°57	22°29	23°55	18°49	25°12	2°38	9°12	4°30	5°47	17° 4	n.a.	T 5
W 6	8 48 30	13°59'48	26°31	24°31	3°11	22°10	24° 6	18°45	25°13	2°36	9°14	4°26	5°44	17°11	n.a.	W 6
T 7	8 52 27	14°59'41	8♌24	26°25	4°26	21°51	24°18	18°42	25°15	2°35	9°15	4°24	5°41	17°18	n.a.	T 7
F 8	8 56 23	15°59'32	20°22	28°18	5°41	21°34	24°29	18°38	25°16	2°33	9°17	4°22	5°38	17°24	n.a.	F 8
S 9	9 0 20	16°59'21	2♍27	0♓ 8	6°55	21°16	24°40	18°35	25°17	2°32	9°18	4°D21	5°34	17°31	n.a.	S 9
S 10	9 4 16	17°59'08	14°40	1°57	8°10	21° 0	24°51	18°31	25°18	2°30	9°20	4°22	5°31	17°38	n.a.	S 10
M11	9 8 13	18°58'53	27° 4	3°43	9°24	20°44	25° 2	18°28	25°19	2°28	9°22	4°23	5°28	17°44	n.a.	M11
T 12	9 12 10	19°58'36	9♎40	5°26	10°39	20°29	25°13	18°24	25°21	2°27	9°23	4°24	5°25	17°51	n.a.	T 12
W13	9 16 6	20°58'17	22°31	7° 6	11°53	20°14	25°23	18°20	25°22	2°25	9°25	4°25	5°22	17°58	n.a.	W13
T 14	9 20 3	21°57'56	5♏38	8°42	13° 8	20° 1	25°34	18°16	25°23	2°24	9°26	4°26	5°18	18° 4	n.a.	T 14
F 15	9 23 59	22°57'34	19° 6	10°13	14°23	19°48	25°44	18°13	25°23	2°22	9°27	4°R26	5°15	18°11	n.a.	F 15
S 16	9 27 56	23°57'10	2♐54	11°39	15°37	19°36	25°55	18° 9	25°24	2°20	9°29	4°26	5°12	18°18	n.a.	S 16
S 17	9 31 52	24°56'44	17° 2	12°59	16°52	19°24	26° 5	18° 5	25°25	2°19	9°30	4°26	5° 9	18°24	n.a.	S 17
M18	9 35 49	25°56'16	1♑30	14°14	18° 6	19°14	26°15	18° 1	25°26	2°17	9°32	4°25	5° 6	18°31	n.a.	M18
T 19	9 39 45	26°55'46	16°14	15°23	19°21	19° 4	26°25	17°56	25°27	2°15	9°33	4°24	5° 3	18°38	n.a.	T 19
W20	9 43 42	27°55'15	1♒ 8	16°24	20°35	18°55	26°35	17°52	25°27	2°14	9°34	4°23	4°59	18°45	n.a.	W20
T 21	9 47 39	28°54'41	16° 4	17°19	21°50	18°46	26°45	17°48	25°28	2°12	9°36	4°23	4°56	18°51	n.a.	T 21
F 22	9 51 35	29°54'05	0♓55	18° 7	23° 4	18°39	26°55	17°44	25°28	2°10	9°37	4°D23	4°53	18°58	n.a.	F 22
S 23	9 55 32	0♓53'27	15°33	18°48	24°18	18°32	27° 5	17°40	25°29	2° 9	9°38	4°23	4°50	19° 5	n.a.	S 23
S 24	9 59 28	1°52'47	29°50	19°21	25°33	18°26	27°14	17°35	25°29	2° 7	9°40	4°23	4°47	19°11	n.a.	S 24
M25	10 3 25	2°52'04	13♈45	19°46	26°47	18°21	27°24	17°31	25°30	2° 5	9°41	4°23	4°43	19°18	n.a.	M25
T 26	10 7 21	3°51'19	27°14	20° 4	28° 2	18°17	27°33	17°27	25°30	2° 4	9°42	4°23	4°40	19°25	n.a.	T 26
W27	10 11 18	4°50'32	10♉18	20°14	29°16	18°13	27°42	17°22	25°30	2° 2	9°43	4°R23	4°37	19°31	n.a.	W27
T 28	10 15 14	5♓49'42	22♉59	20°R17	0♓30	18♋10	27♐51	17♍18	25♏31	2♍ 1	9♑45	4♍23	4♍34	19♋38	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
F 1	18s13	14n39	5s11	17s54	1s25	22s 0	1s 1	26n 3	4n32	23s28	0n 4	6n49	2n38	19s 7	0n 9	11n56	1n25	28s36	5s13	9n53	9n25	18n47		n.a.	F 1
S 2	17 57	16 54	5 13	17 13	1 18	21 47	1 2	26 6	4 31	23 29	0 4	6 50	2 38	19 8	0 9	11 57	1 25	28 36	5 13	9 54	9 26	18 47		n.a.	S 2
S 3	17 40	18 23	5 2	16 29	1 10	21 33	1 4	26 9	4 30	23 30	0 4	6 52	2 39	19 8	0 9	11 58	1 25	28 36	5 13	9 56	9 27	18 47		n.a.	S 3
M 4	17 24	19 4	4 37	15 45	1 2	21 18	1 6	26 11	4 29	23 30	0 4	6 53	2 39	19 8	0 9	11 58	1 25	28 36	5 13	9 57	9 29	18 47		n.a.	M 4
T 5	17 6	18 55	4 1	14 59	0 53	21 3	1 7	26 13	4 28	23 31	0 4	6 55	2 39	19 9	0 9	11 59	1 25	28 36	5 14	9 58	9 30	18 46		n.a.	T 5
W 6	16 49	17 55	3 14	14 11	0 44	20 47	1 9	26 15	4 27	23 32	0 3	6 56	2 39	19 9	0 9	11 59	1 25	28 36	5 14	10 0	9 31	18 46		n.a.	W 6
T 7	16 32	16 9	2 18	13 23	0 34	20 30	1 10	26 17	4 25	23 32	0 3	6 58	2 39	19 9	0 9	12 0	1 25	28 36	5 14	10 1	9 32	18 46		n.a.	T 7
F 8	16 14	13 39	1 17	12 34	0 23	20 13	1 11	26 18	4 24	23 33	0 3	6 59	2 40	19 10	0 9	12 1	1 25	28 36	5 14	10 1	9 33	18 46		n.a.	F 8
S 9	15 55	10 33	0 11	11 44	0 12	19 56	1 13	26 20	4 22	23 33	0 3	7 1	2 40	19 10	0 9	12 1	1 25	28 36	5 14	10 1	9 34	18 45		n.a.	S 9
S 10	15 37	6 59	0n57	10 54	0n 0	19 37	1 14	26 21	4 21	23 34	0 3	7 2	2 40	19 10	0 9	12 2	1 25	28 37	5 14	10 1	9 36	18 45		n.a.	S 10
M11	15 18	3 3	2 2	10 4	0 12	19 19	1 15	26 22	4 19	23 34	0 3	7 4	2 40	19 11	0 9	12 2	1 25	28 37	5 14	10 1	9 37	18 45		n.a.	M11
T 12	14 59	1s 4	3 3	9 14	0 25	18 59	1 16	26 23	4 18	23 35	0 3	7 6	2 40	19 11	0 9	12 3	1 25	28 37	5 15	10 1	9 38	18 45		n.a.	T 12
W13	14 40	5 12	3 56	8 25	0 38	18 39	1 17	26 23	4 16	23 35	0 3	7 7	2 41	19 11	0 9	12 4	1 25	28 37	5 15	10 0	9 39	18 44		n.a.	W13
T 14	14 21	9 11	4 38	7 37	0 51	18 19	1 18	26 23	4 14	23 36	0 3	7 9	2 41	19 11	0 9	12 4	1 25	28 37	5 15	10 0	9 40	18 44		n.a.	T 14
F 15	14 1	12 48	5 6	6 50	1 5	17 58	1 19	26 24	4 12	23 36	0 2	7 11	2 41	19 12	0 9	12 5	1 26	28 37	5 15	10 0	9 42	18 44		n.a.	F 15
S 16	13 41	15 48	5 17	6 4	1 18	17 37	1 20	26 23	4 10	23 37	0 2	7 12	2 41	19 12	0 9	12 5	1 26	28 37	5 15	10 0	9 43	18 43		n.a.	S 16
S 17	13 21	17 57	5 10	5 21	1 32	17 15	1 21	26 23	4 8	23 37	0 2	7 14	2 41	19 12	0 9	12 6	1 26	28 37	5 16	10 0	9 44	18 43		n.a.	S 17
M18	13 1	19 0	4 43	4 40	1 45	16 52	1 21	26 23	4 6	23 38	0 2	7 16	2 41	19 12	0 9	12 7	1 26	28 37	5 16	10 0	9 45	18 43		n.a.	M18
T 19	12 41	18 48	3 57	4 1	1 58	16 29	1 22	26 22	4 4	23 38	0 2	7 18	2 42	19 12	0 9	12 7	1 26	28 37	5 16	10 0	9 46	18 42		n.a.	T 19
W20	12 20	17 18	2 54	3 25	2 11	16 6	1 23	26 22	4 2	23 38	0 2	7 19	2 42	19 13	0 9	12 8	1 26	28 37	5 16	10 1	9 47	18 42		n.a.	W20
T 21	11 59	14 37	1 40	2 52	2 23	15 42	1 23	26 21	4 0	23 39	0 2	7 21	2 42	19 13	0 9	12 8	1 26	28 37	5 16	10 1	9 49	18 42		n.a.	T 21
F 22	11 38	10 59	0 19	2 23	2 35	15 18	1 24	26 20	3 58	23 39	0 2	7 23	2 42	19 13	0 9	12 9	1 26	28 37	5 16	10 1	9 50	18 42		n.a.	F 22
S 23	11 17	6 43	1s 2	1 57	2 46	14 54	1 24	26 19	3 56	23 40	0 2	7 25	2 42	19 13	0 9	12 10	1 26	28 37	5 17	10 1	9 51	18 41		n.a.	S 23
S 24	10 56	2 9	2 17	1 34	2 56	14 29	1 25	26 17	3 54	23 40	0 1	7 27	2 42	19 13	0 9	12 10	1 26	28 38	5 17	10 1	9 52	18 41		n.a.	S 24
M25	10 34	2n23	3 22	1 16	3 5	14 3	1 25	26 16	3 51	23 40	0 1	7 28	2 42	19 13	0 9	12 11	1 26	28 38	5 17	10 1	9 53	18 41		n.a.	M25
T 26	10 13	6 40	4 13	1 2	3 13	13 38	1 25	26 14	3 49	23 40	0 1	7 30	2 42	19 13	0 9	12 12	1 26	28 38	5 17	10 1	9 54	18 40		n.a.	T 26
W27	9 51	10 29	4 50	0 51	3 20	13 12	1 25	26 13	3 47	23 41	0 1	7 32	2 42	19 13	0 9	12 12	1 26	28 38	5 17	10 1	9 56	18 40		n.a.	W27
T 28	9s29	13n43	5s11	0s45	3n26	12s45	1s26	26n11	3n45	23s41	0n 1	7n34	2n43	19s13	0n 9	12n13	1n26	28s38	5s18	10n 1	9n57	18n40		n.a.	T 28

Julian Day Number = 1648769.5, Delta T = 03h32m13s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'53, Lahiri = - 6°41'53 Julian Calendar 1 Feb. 199 BCE == Greg. Calendar 29 Jan. 199 BCE

The year -198 astronomical counting style corresponds to year 199 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 199 BCE
geocentric

MARCH 199 BCE (-198) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 19 11	6♓48'50	5♊21	20°R12	1♓45	18°R 9	28♐ 0	17°R13	25♏31	1°R59	9♑46	4°D23	4♍31	19♋45	n.a.	F 1
S 2	10 23 7	7°47'55	17°29	20♓ 1	2°59	18♋ 7	28° 9	17♍ 9	25°31	1♍57	9°47	4♍23	4°28	19°51	n.a.	S 2
S 3	10 27 4	8°46'58	29°26	19°42	4°13	18°D 7	28°18	17° 4	25°31	1°56	9°48	4°23	4°24	19°58	n.a.	S 3
M 4	10 31 1	9°45'59	11♋17	19°18	5°28	18° 7	28°26	17° 0	25°R31	1°54	9°49	4°24	4°21	20° 5	n.a.	M 4
T 5	10 34 57	10°44'58	23° 6	18°48	6°42	18° 8	28°35	16°55	25°31	1°52	9°50	4°25	4°18	20°11	n.a.	T 5
W 6	10 38 54	11°43'54	4♌58	18°14	7°56	18°10	28°43	16°51	25°31	1°51	9°51	4°25	4°15	20°18	n.a.	W 6
T 7	10 42 50	12°42'47	16°56	17°35	9°11	18°12	28°51	16°46	25°31	1°49	9°52	4°26	4°12	20°25	n.a.	T 7
F 8	10 46 47	13°41'39	29° 2	16°53	10°25	18°15	28°59	16°41	25°31	1°47	9°53	4°R26	4° 9	20°32	n.a.	F 8
S 9	10 50 43	14°40'28	11♍19	16° 8	11°39	18°19	29° 7	16°37	25°31	1°46	9°54	4°26	4° 5	20°38	n.a.	S 9
S 10	10 54 40	15°39'15	23°48	15°22	12°53	18°24	29°15	16°32	25°30	1°44	9°55	4°26	4° 2	20°45	n.a.	S 10
M11	10 58 36	16°38'00	6♎31	14°36	14° 8	18°29	29°22	16°28	25°30	1°43	9°56	4°25	3°59	20°52	n.a.	M11
T 12	11 2 33	17°36'43	19°27	13°50	15°22	18°35	29°30	16°23	25°30	1°41	9°57	4°23	3°56	20°58	n.a.	T 12
W13	11 6 29	18°35'24	2♏37	13° 4	16°36	18°41	29°37	16°19	25°29	1°39	9°58	4°21	3°53	21° 5	n.a.	W13
T 14	11 10 26	19°34'03	16° 0	12°21	17°50	18°48	29°45	16°14	25°29	1°38	9°59	4°19	3°49	21°12	n.a.	T 14
F 15	11 14 23	20°32'41	29°38	11°41	19° 4	18°56	29°52	16° 9	25°28	1°36	10° 0	4°18	3°46	21°18	n.a.	F 15
S 16	11 18 19	21°31'17	13♐28	11° 3	20°18	19° 5	29°58	16° 5	25°28	1°35	10° 1	4°17	3°43	21°25	n.a.	S 16
S 17	11 22 16	22°29'51	27°31	10°30	21°33	19°13	0♑ 5	16° 0	25°27	1°33	10° 2	4°D17	3°40	21°32	n.a.	S 17
M18	11 26 12	23°28'23	11♑44	10° 0	22°47	19°23	0°12	15°56	25°26	1°32	10° 2	4°17	3°37	21°38	n.a.	M18
T 19	11 30 9	24°26'54	26° 7	9°35	24° 1	19°33	0°18	15°51	25°25	1°30	10° 3	4°18	3°34	21°45	n.a.	T 19
W20	11 34 5	25°25'23	10♒35	9°15	25°15	19°44	0°25	15°47	25°25	1°29	10° 4	4°20	3°30	21°52	n.a.	W20
T 21	11 38 2	26°23'50	25° 5	9° 0	26°29	19°55	0°31	15°42	25°24	1°27	10° 4	4°21	3°27	21°58	n.a.	T 21
F 22	11 41 58	27°22'15	9♓32	8°50	27°43	20° 7	0°37	15°38	25°23	1°26	10° 5	4°R21	3°24	22° 5	n.a.	F 22
S 23	11 45 55	28°20'39	23°50	8°D46	28°57	20°19	0°43	15°33	25°22	1°24	10° 6	4°20	3°21	22°12	n.a.	S 23
S 24	11 49 52	29°19'00	7♈55	8°46	0♈11	20°32	0°48	15°29	25°21	1°23	10° 6	4°18	3°18	22°18	n.a.	S 24
M25	11 53 48	0♈17'20	21°42	8°51	1°25	20°46	0°54	15°24	25°20	1°22	10° 7	4°14	3°15	22°25	n.a.	M25
T 26	11 57 45	1°15'37	5♉ 9	9° 1	2°39	21° 0	0°59	15°20	25°19	1°20	10° 7	4°10	3°11	22°32	n.a.	T 26
W27	12 1 41	2°13'53	18°13	9°16	3°53	21°14	1° 4	15°16	25°18	1°19	10° 8	4° 6	3° 8	22°38	n.a.	W27
T 28	12 5 38	3°12'06	0♊57	9°35	5° 7	21°29	1° 9	15°12	25°17	1°17	10° 9	4° 2	3° 5	22°45	n.a.	T 28
F 29	12 9 34	4°10'18	13°22	9°59	6°21	21°45	1°14	15° 7	25°16	1°16	10° 9	3°59	3° 2	22°52	n.a.	F 29
S 30	12 13 31	5° 8'27	25°31	10°28	7°35	22° 1	1°19	15° 3	25°14	1°15	10° 9	3°57	2°59	22°58	n.a.	S 30
S 31	12 17 27	6♈ 6'34	7♋29	11♓ 0	8♈49	22♋17	1♑23	14♍59	25♏13	1♍13	10♑10	3°D57	2♍55	23♋ 5	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	9s 7	16n14	5s18	0s43	3n30	12s18	1s26	26n 9	3n43	23s41	0n 1	7n36	2n43	19s13	0n 9	12n13	1n26	28s38	5s18	10n 1	9n58	18n39		n.a.
S 2	8 45	17 59	5 9	0 45	3 32	11 51	1 26	26 7	3 40	23 41	0 1	7 38	2 43	19 13	0 9	12 14	1 26	28 38	5 18	10 1	9 59	18 39		n.a.
S 3	8 22	18 55	4 48	0 51	3 34	11 24	1 26	26 5	3 38	23 42	0 1	7 39	2 43	19 13	0 9	12 15	1 26	28 38	5 18	10 1	10 0	18 39		n.a.
M 4	8 0	19 1	4 14	1 1	3 33	10 56	1 25	26 2	3 36	23 42	0 1	7 41	2 43	19 14	0 9	12 15	1 26	28 38	5 18	10 1	10 2	18 38		n.a.
T 5	7 37	18 16	3 30	1 15	3 31	10 28	1 25	26 0	3 34	23 42	0 0	7 43	2 43	19 14	0 9	12 16	1 26	28 38	5 19	10 0	10 3	18 38		n.a.
W 6	7 15	16 43	2 36	1 32	3 27	10 0	1 25	25 58	3 31	23 42	0 0	7 45	2 43	19 13	0 9	12 16	1 26	28 39	5 19	10 0	10 4	18 38		n.a.
T 7	6 52	14 25	1 36	1 52	3 22	9 31	1 25	25 55	3 29	23 43	0 0	7 47	2 43	19 13	0 9	12 17	1 26	28 39	5 19	10 0	10 5	18 37		n.a.
F 8	6 29	11 29	0 30	2 15	3 14	9 3	1 24	25 52	3 27	23 43	0 0	7 49	2 43	19 13	0 9	12 18	1 26	28 39	5 19	10 0	10 6	18 37		n.a.
S 9	6 6	7 59	0n38	2 41	3 6	8 34	1 24	25 50	3 25	23 43	0s 0	7 51	2 43	19 13	0 9	12 18	1 26	28 39	5 19	10 0	10 7	18 37		n.a.
S 10	5 43	4 6	1 45	3 8	2 56	8 5	1 23	25 47	3 23	23 43	0 0	7 52	2 43	19 13	0 9	12 19	1 26	28 39	5 20	10 0	10 9	18 36		n.a.
M11	5 20	0s 2	2 49	3 37	2 44	7 35	1 23	25 44	3 20	23 43	0 0	7 54	2 43	19 13	0 9	12 19	1 26	28 39	5 20	10 0	10 10	18 36		n.a.
T 12	4 57	4 14	3 44	4 7	2 31	7 6	1 22	25 41	3 18	23 43	0 0	7 56	2 43	19 13	0 9	12 20	1 26	28 39	5 20	10 1	10 11	18 35		n.a.
W13	4 34	8 19	4 29	4 37	2 18	6 36	1 21	25 38	3 16	23 44	0 1	7 58	2 43	19 13	0 9	12 20	1 26	28 40	5 20	10 2	10 12	18 35		n.a.
T 14	4 11	12 2	5 0	5 7	2 3	6 6	1 21	25 35	3 14	23 44	0 1	8 0	2 43	19 13	0 9	12 21	1 26	28 40	5 20	10 2	10 13	18 35		n.a.
F 15	3 47	15 11	5 15	5 36	1 48	5 36	1 20	25 31	3 12	23 44	0 1	8 2	2 43	19 13	0 9	12 22	1 26	28 40	5 21	10 3	10 14	18 34		n.a.
S 16	3 24	17 31	5 12	6 5	1 32	5 5	1 19	25 28	3 9	23 44	0 1	8 3	2 43	19 13	0 9	12 22	1 26	28 40	5 21	10 3	10 16	18 34		n.a.
S 17	3 1	18 51	4 51	6 33	1 16	4 35	1 18	25 25	3 7	23 44	0 1	8 5	2 43	19 13	0 9	12 23	1 26	28 40	5 21	10 3	10 17	18 34		n.a.
M18	2 37	19 1	4 11	6 59	1 0	4 5	1 17	25 21	3 5	23 44	0 1	8 7	2 43	19 12	0 9	12 23	1 26	28 40	5 21	10 3	10 18	18 33		n.a.
T 19	2 14	17 58	3 16	7 23	0 44	3 34	1 16	25 18	3 3	23 44	0 1	8 9	2 43	19 12	0 9	12 24	1 26	28 40	5 22	10 3	10 19	18 33		n.a.
W20	1 50	15 45	2 7	7 46	0 28	3 3	1 15	25 14	3 1	23 44	0 1	8 11	2 43	19 12	0 9	12 24	1 26	28 41	5 22	10 2	10 20	18 32		n.a.
T 21	1 27	12 31	0 51	8 6	0 12	2 32	1 14	25 10	2 59	23 45	0 2	8 12	2 43	19 12	0 9	12 25	1 26	28 41	5 22	10 2	10 21	18 32		n.a.
F 22	1 3	8 32	0s29	8 24	0s 4	2 1	1 13	25 6	2 57	23 45	0 2	8 14	2 43	19 12	0 9	12 25	1 26	28 41	5 22	10 2	10 23	18 32		n.a.
S 23	0 40	4 5	1 45	8 40	0 18	1 31	1 11	25 2	2 55	23 45	0 2	8 16	2 43	19 11	0 9	12 26	1 26	28 41	5 22	10 2	10 24	18 31		n.a.
S 24	0 16	0n31	2 54	8 53	0 33	1 0	1 10	24 58	2 53	23 45	0 2	8 17	2 43	19 11	0 8	12 26	1 26	28 41	5 23	10 3	10 25	18 31		n.a.
M25	0n 7	4 59	3 52	9 4	0 47	0 28	1 9	24 54	2 51	23 45	0 2	8 19	2 43	19 11	0 8	12 27	1 26	28 41	5 23	10 4	10 26	18 30		n.a.
T 26	0 30	9 5	4 34	9 12	1 0	0n 3	1 7	24 50	2 49	23 45	0 2	8 21	2 43	19 11	0 8	12 27	1 26	28 42	5 23	10 6	10 27	18 30		n.a.
W27	0 54	12 38	5 2	9 18	1 12	0 34	1 6	24 46	2 47	23 45	0 2	8 22	2 43	19 10	0 8	12 28	1 26	28 42	5 23	10 7	10 28	18 29		n.a.
T 28	1 17	15 29	5 13	9 22	1 24	1 5	1 4	24 41	2 45	23 45	0 3	8 24	2 43	19 10	0 8	12 28	1 26	28 42	5 24	10 9	10 29	18 29		n.a.
F 29	1 41	17 33	5 9	9 23	1 35	1 36	1 3	24 37	2 43	23 45	0 3	8 26	2 43	19 10	0 8	12 29	1 26	28 42	5 24	10 10	10 31	18 29		n.a.
S 30	2 4	18 47	4 52	9 21	1 46	2 7	1 1	24 32	2 41	23 45	0 3	8 27	2 43	19 10	0 8	12 29	1 25	28 42	5 24	10 10	10 32	18 28		n.a.
S 31	2n27	19n 9	4s21	9s18	1s55	2n38	0s59	24n28	2n39	23s46	0s 3	8n29	2n43	19s 9	0n 8	12n30	1n25	28s43	5s24	10n11	10n33	18n28		n.a.

Julian Day Number = 1648797.5, Delta T = 03h32m12s
Ecliptic obliquity = 23°43'02, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'50, Lahiri = - 6°41'49 Julian Calendar 1 March 199 BCE == Greg. Calendar 26 Feb. 199 BCE

The year -198 astronomical counting style corresponds to year 199 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 199 BCE
geocentric

APRIL 199 BCE (-198) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 21 24	7♈ 4'39	19♋21	11♓36	10♈ 3	22♋34	1♑28	14°R55	25°R12	1°R12	10♑10	3♍57	2♍52	23♋12	n.a.	M 1
T 2	12 25 20	8° 2'42	1♌11	12°17	11°17	22°51	1°32	14♍51	25♏10	1♍11	10°11	3°59	2°49	23°18	n.a.	T 2
W 3	12 29 17	9° 0'44	13° 4	13° 1	12°31	23° 9	1°36	14°47	25° 9	1°10	10°11	4° 1	2°46	23°25	n.a.	W 3
T 4	12 33 14	9°58'43	25° 6	13°48	13°45	23°27	1°40	14°43	25° 8	1° 8	10°11	4° 2	2°43	23°32	n.a.	T 4
F 5	12 37 10	10°56'40	7♍19	14°39	14°59	23°45	1°43	14°39	25° 6	1° 7	10°12	4°R 2	2°40	23°39	n.a.	F 5
S 6	12 41 7	11°54'35	19°48	15°33	16°13	24° 4	1°47	14°35	25° 4	1° 6	10°12	4° 1	2°36	23°45	n.a.	S 6
S 7	12 45 3	12°52'29	2♎33	16°31	17°26	24°24	1°50	14°31	25° 3	1° 5	10°12	3°58	2°33	23°52	n.a.	S 7
M 8	12 49 0	13°50'21	15°36	17°31	18°40	24°43	1°53	14°28	25° 1	1° 4	10°12	3°53	2°30	23°59	n.a.	M 8
T 9	12 52 56	14°48'11	28°55	18°34	19°54	25° 3	1°56	14°24	25° 0	1° 3	10°12	3°47	2°27	24° 5	n.a.	T 9
W10	12 56 53	15°46'00	12♏31	19°40	21° 8	25°24	1°59	14°20	24°58	1° 2	10°13	3°41	2°24	24°12	n.a.	W10
T 11	13 0 49	16°43'47	26°19	20°49	22°22	25°45	2° 1	14°17	24°56	1° 1	10°13	3°34	2°20	24°19	n.a.	T 11
F 12	13 4 46	17°41'33	10♐16	22° 1	23°36	26° 6	2° 4	14°13	24°55	1° 0	10°13	3°28	2°17	24°25	n.a.	F 12
S 13	13 8 43	18°39'18	24°21	23°15	24°49	26°27	2° 6	14°10	24°53	0°59	10°13	3°24	2°14	24°32	n.a.	S 13
S 14	13 12 39	19°37'01	8♑29	24°31	26° 3	26°49	2° 8	14° 7	24°51	0°58	10°13	3°22	2°11	24°39	n.a.	S 14
M15	13 16 36	20°34'44	22°39	25°50	27°17	27°11	2°10	14° 4	24°49	0°57	10°R13	3°D21	2° 8	24°45	n.a.	M15
T 16	13 20 32	21°32'25	6♒49	27°12	28°31	27°34	2°11	14° 0	24°47	0°56	10°13	3°22	2° 5	24°52	n.a.	T 16
W17	13 24 29	22°30'05	20°57	28°36	29°44	27°57	2°13	13°57	24°45	0°55	10°13	3°23	2° 1	24°59	n.a.	W17
T 18	13 28 25	23°27'44	5♓ 3	0♈ 2	0♉58	28°20	2°14	13°54	24°43	0°54	10°13	3°R23	1°58	25° 5	n.a.	T 18
F 19	13 32 22	24°25'22	19° 3	1°31	2°12	28°44	2°15	13°51	24°41	0°53	10°13	3°22	1°55	25°12	n.a.	F 19
S 20	13 36 18	25°22'58	2♈55	3° 2	3°25	29° 7	2°16	13°48	24°39	0°52	10°13	3°19	1°52	25°19	n.a.	S 20
S 21	13 40 15	26°20'33	16°38	4°35	4°39	29°31	2°17	13°46	24°37	0°51	10°12	3°13	1°49	25°25	n.a.	S 21
M22	13 44 12	27°18'08	0♉ 7	6°10	5°53	29°56	2°17	13°43	24°35	0°51	10°12	3° 6	1°46	25°32	n.a.	M22
T 23	13 48 8	28°15'40	13°20	7°48	7° 7	0♌20	2°18	13°40	24°33	0°50	10°12	2°57	1°42	25°39	n.a.	T 23
W24	13 52 5	29°13'12	26°17	9°28	8°20	0°45	2°R18	13°38	24°31	0°49	10°12	2°47	1°39	25°45	n.a.	W24
T 25	13 56 1	0♉10'42	8♊55	11°10	9°34	1°11	2°18	13°35	24°29	0°49	10°12	2°37	1°36	25°52	n.a.	T 25
F 26	13 59 58	1° 8'11	21°18	12°55	10°48	1°36	2°18	13°33	24°27	0°48	10°11	2°29	1°33	25°59	n.a.	F 26
S 27	14 3 54	2° 5'39	3♋26	14°41	12° 1	2° 2	2°17	13°31	24°25	0°47	10°11	2°23	1°30	26° 5	n.a.	S 27
S 28	14 7 51	3° 3'05	15°23	16°30	13°15	2°28	2°16	13°28	24°22	0°47	10°11	2°20	1°26	26°12	n.a.	S 28
M29	14 11 47	4° 0'30	27°14	18°21	14°28	2°54	2°16	13°26	24°20	0°46	10°10	2°18	1°23	26°19	n.a.	M29
T 30	14 15 44	4♉57'53	9♌ 4	20♈15	15♉42	3♌21	2♑15	13♍24	24♏18	0♍46	10♑10	2°D18	1♍20	26♋25	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	2n50	18n40	3s40	9s12	2s 4	3n 9	0s58	24n23	2n37	23s46	0s 3	8n30	2n43	19s 9	0n 8	12n30	1n25	28s43	5s24	10n10	10n34	18n27		n.a.
T 2	3 14	17 22	2 50	9 4	2 12	3 40	0 56	24 18	2 35	23 46	0 3	8 32	2 43	19 9	0 8	12 30	1 25	28 43	5 25	10 10	10 35	18 27		n.a.
W 3	3 37	15 18	1 52	8 54	2 20	4 10	0 54	24 13	2 33	23 46	0 3	8 33	2 43	19 8	0 8	12 31	1 25	28 43	5 25	10 9	10 36	18 26		n.a.
T 4	4 0	12 33	0 49	8 41	2 26	4 41	0 52	24 8	2 31	23 46	0 4	8 35	2 42	19 8	0 8	12 31	1 25	28 43	5 25	10 9	10 38	18 26		n.a.
F 5	4 23	9 12	0n18	8 27	2 32	5 12	0 50	24 3	2 30	23 46	0 4	8 36	2 42	19 8	0 8	12 32	1 25	28 44	5 25	10 9	10 39	18 25		n.a.
S 6	4 46	5 23	1 25	8 10	2 37	5 42	0 48	23 58	2 28	23 46	0 4	8 38	2 42	19 7	0 8	12 32	1 25	28 44	5 26	10 9	10 40	18 25		n.a.
S 7	5 9	1 15	2 29	7 52	2 42	6 13	0 46	23 53	2 26	23 46	0 4	8 39	2 42	19 7	0 8	12 33	1 25	28 44	5 26	10 10	10 41	18 25		n.a.
M 8	5 31	3s 2	3 27	7 31	2 46	6 43	0 44	23 47	2 24	23 46	0 4	8 40	2 42	19 6	0 8	12 33	1 25	28 44	5 26	10 12	10 42	18 24		n.a.
T 9	5 54	7 16	4 14	7 9	2 49	7 13	0 42	23 42	2 22	23 46	0 4	8 42	2 42	19 6	0 8	12 33	1 25	28 44	5 26	10 14	10 43	18 24		n.a.
W10	6 16	11 12	4 48	6 45	2 51	7 43	0 40	23 36	2 21	23 47	0 4	8 43	2 42	19 6	0 8	12 34	1 25	28 45	5 27	10 16	10 45	18 23		n.a.
T 11	6 39	14 35	5 7	6 19	2 53	8 13	0 38	23 31	2 19	23 47	0 5	8 44	2 42	19 5	0 8	12 34	1 25	28 45	5 27	10 19	10 46	18 23		n.a.
F 12	7 1	17 11	5 7	5 52	2 54	8 42	0 36	23 25	2 17	23 47	0 5	8 45	2 42	19 5	0 8	12 34	1 25	28 45	5 27	10 21	10 47	18 22		n.a.
S 13	7 24	18 47	4 49	5 23	2 54	9 12	0 34	23 19	2 15	23 47	0 5	8 47	2 41	19 4	0 8	12 35	1 25	28 45	5 27	10 23	10 48	18 22		n.a.
S 14	7 46	19 14	4 13	4 52	2 54	9 41	0 32	23 13	2 14	23 47	0 5	8 48	2 41	19 4	0 8	12 35	1 25	28 46	5 27	10 23	10 49	18 21		n.a.
M15	8 8	18 28	3 22	4 19	2 53	10 10	0 30	23 7	2 12	23 47	0 5	8 49	2 41	19 3	0 8	12 35	1 25	28 46	5 28	10 24	10 50	18 21		n.a.
T 16	8 30	16 33	2 18	3 45	2 52	10 39	0 27	23 1	2 10	23 47	0 5	8 50	2 41	19 3	0 8	12 36	1 25	28 46	5 28	10 23	10 51	18 20		n.a.
W17	8 51	13 38	1 7	3 9	2 50	11 7	0 25	22 55	2 9	23 47	0 5	8 51	2 41	19 2	0 8	12 36	1 25	28 46	5 28	10 23	10 53	18 20		n.a.
T 18	9 13	9 55	0s 9	2 32	2 47	11 35	0 23	22 48	2 7	23 48	0 6	8 52	2 41	19 2	0 8	12 36	1 25	28 46	5 28	10 23	10 54	18 19		n.a.
F 19	9 34	5 40	1 23	1 54	2 44	12 3	0 20	22 42	2 5	23 48	0 6	8 53	2 41	19 2	0 8	12 37	1 25	28 47	5 29	10 23	10 55	18 19		n.a.
S 20	9 56	1 9	2 32	1 14	2 40	12 31	0 18	22 35	2 4	23 48	0 6	8 54	2 40	19 1	0 8	12 37	1 25	28 47	5 29	10 24	10 56	18 18		n.a.
S 21	10 17	3n22	3 31	0 32	2 36	12 58	0 16	22 29	2 2	23 48	0 6	8 55	2 40	19 1	0 8	12 37	1 25	28 47	5 29	10 26	10 57	18 18		n.a.
M22	10 38	7 38	4 17	0n11	2 31	13 25	0 13	22 22	2 1	23 48	0 6	8 56	2 40	19 0	0 8	12 37	1 25	28 47	5 29	10 29	10 58	18 17		n.a.
T 23	10 59	11 27	4 48	0 55	2 25	13 52	0 11	22 15	1 59	23 48	0 6	8 57	2 40	19 0	0 8	12 38	1 25	28 48	5 30	10 33	10 59	18 17		n.a.
W24	11 19	14 38	5 3	1 40	2 19	14 19	0 9	22 8	1 57	23 48	0 7	8 58	2 40	18 59	0 8	12 38	1 25	28 48	5 30	10 36	11 1	18 16		n.a.
T 25	11 40	17 3	5 3	2 27	2 12	14 45	0 6	22 1	1 56	23 49	0 7	8 58	2 39	18 58	0 8	12 38	1 25	28 48	5 30	10 39	11 2	18 16		n.a.
F 26	12 0	18 37	4 49	3 14	2 5	15 10	0 4	21 53	1 54	23 49	0 7	8 59	2 39	18 58	0 8	12 38	1 25	28 48	5 30	10 42	11 3	18 15		n.a.
S 27	12 20	19 18	4 22	4 3	1 58	15 36	0 1	21 46	1 53	23 49	0 7	9 0	2 39	18 57	0 8	12 38	1 25	28 49	5 30	10 45	11 4	18 15		n.a.
S 28	12 40	19 7	3 44	4 53	1 49	16 1	0n 1	21 39	1 51	23 49	0 7	9 1	2 39	18 57	0 8	12 39	1 25	28 49	5 31	10 46	11 5	18 14		n.a.
M29	13 0	18 5	2 56	5 43	1 41	16 25	0 3	21 31	1 50	23 49	0 7	9 1	2 39	18 56	0 8	12 39	1 25	28 49	5 31	10 47	11 6	18 14		n.a.
T 30	13n20	16n15	2s 1	6n35	1s32	16n49	0n 6	21n23	1n48	23s49	0s 8	9n 2	2n39	18s56	0n 8	12n39	1n25	28s49	5s31	10n47	11n 7	18n13		n.a.

Julian Day Number = 1648828.5, Delta T = 03h32m11s
Ecliptic obliquity = 23°43'02, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'45, Lahiri = - 6°41'45 Julian Calendar 1 Apr. 199 BCE == Greg. Calendar 29 March 199 BCE

The year -198 astronomical counting style corresponds to year 199 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 199 BCE
geocentric

MAY 199 BCE (-198) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 19 41	5♉55'15	20♌58	22♈10	16♉56	3♌48	2°R13	13°R22	24°R16	0°R45	10°R 9	2♍18	1♍17	26♋32	n.a.	W 1
T 2	14 23 37	6°52'36	3♍ 1	24° 8	18° 9	4°15	2♑12	13♍21	24♏13	0♍45	10♑ 9	2°R19	1°14	26°39	n.a.	T 2
F 3	14 27 34	7°49'56	15°18	26° 7	19°23	4°42	2°10	13°19	24°11	0°44	10° 9	2°18	1°11	26°45	n.a.	F 3
S 4	14 31 30	8°47'14	27°54	28° 9	20°36	5°10	2° 9	13°17	24° 9	0°44	10° 8	2°15	1° 7	26°52	n.a.	S 4
S 5	14 35 27	9°44'32	10♎51	0♉12	21°50	5°37	2° 7	13°16	24° 6	0°44	10° 8	2°10	1° 4	26°59	n.a.	S 5
M 6	14 39 23	10°41'48	24°10	2°17	23° 3	6° 5	2° 5	13°14	24° 4	0°43	10° 7	2° 2	1° 1	27° 5	n.a.	M 6
T 7	14 43 20	11°39'04	7♏51	4°24	24°17	6°33	2° 2	13°13	24° 2	0°43	10° 6	1°53	0°58	27°12	n.a.	T 7
W 8	14 47 16	12°36'18	21°52	6°32	25°30	7° 2	2° 0	13°11	23°59	0°43	10° 6	1°42	0°55	27°19	n.a.	W 8
T 9	14 51 13	13°33'32	6♐ 7	8°42	26°44	7°30	1°57	13°10	23°57	0°42	10° 5	1°32	0°51	27°25	n.a.	T 9
F 10	14 55 10	14°30'46	20°30	10°52	27°57	7°59	1°54	13° 9	23°54	0°42	10° 5	1°22	0°48	27°32	n.a.	F 10
S 11	14 59 6	15°27'58	4♑57	13° 3	29°11	8°28	1°51	13° 8	23°52	0°42	10° 4	1°15	0°45	27°39	n.a.	S 11
S 12	15 3 3	16°25'11	19°21	15°15	0♊24	8°57	1°48	13° 7	23°50	0°42	10° 3	1°10	0°42	27°45	n.a.	S 12
M13	15 6 59	17°22'23	3♒38	17°26	1°37	9°27	1°45	13° 7	23°47	0°42	10° 3	1° 8	0°39	27°52	n.a.	M13
T 14	15 10 56	18°19'35	17°47	19°38	2°51	9°56	1°41	13° 6	23°45	0°42	10° 2	1°D 8	0°36	27°59	n.a.	T 14
W15	15 14 52	19°16'46	1♓47	21°49	4° 4	10°26	1°37	13° 5	23°42	0°42	10° 1	1°R 8	0°32	28° 5	n.a.	W15
T 16	15 18 49	20°13'57	15°36	24° 0	5°18	10°56	1°33	13° 5	23°40	0°D42	10° 0	1° 7	0°29	28°12	n.a.	T 16
F 17	15 22 45	21°11'08	29°15	26°10	6°31	11°26	1°29	13° 4	23°37	0°42	10° 0	1° 5	0°26	28°19	n.a.	F 17
S 18	15 26 42	22° 8'18	12♈44	28°19	7°44	11°57	1°25	13° 4	23°35	0°42	9°59	1° 0	0°23	28°25	n.a.	S 18
S 19	15 30 39	23° 5'28	26° 3	0♊26	8°58	12°27	1°21	13° 4	23°32	0°42	9°58	0°52	0°20	28°32	n.a.	S 19
M20	15 34 35	24° 2'38	9♉10	2°32	10°11	12°58	1°16	13° 4	23°30	0°42	9°57	0°42	0°17	28°39	n.a.	M20
T 21	15 38 32	24°59'48	22° 5	4°37	11°25	13°29	1°11	13°D 4	23°28	0°42	9°56	0°30	0°13	28°45	n.a.	T 21
W22	15 42 28	25°56'57	4♊46	6°39	12°38	14° 0	1° 7	13° 4	23°25	0°42	9°55	0°17	0°10	28°52	n.a.	W22
T 23	15 46 25	26°54'06	17°14	8°40	13°51	14°31	1° 1	13° 4	23°23	0°42	9°54	0° 4	0° 7	28°59	n.a.	T 23
F 24	15 50 21	27°51'15	29°28	10°39	15° 5	15° 3	0°56	13° 4	23°20	0°42	9°53	29♌53	0° 4	29° 5	n.a.	F 24
S 25	15 54 18	28°48'23	11♋32	12°36	16°18	15°34	0°51	13° 5	23°18	0°43	9°53	29°44	0° 1	29°12	n.a.	S 25
S 26	15 58 14	29°45'31	23°26	14°31	17°31	16° 6	0°45	13° 5	23°15	0°43	9°52	29°38	29♌57	29°19	n.a.	S 26
M27	16 2 11	0♊42'38	5♌15	16°24	18°45	16°38	0°40	13° 6	23°13	0°43	9°51	29°34	29°54	29°25	n.a.	M27
T 28	16 6 8	1°39'45	17° 3	18°14	19°58	17°10	0°34	13° 6	23°10	0°44	9°50	29°32	29°51	29°32	n.a.	T 28
W29	16 10 4	2°36'52	28°56	20° 3	21°11	17°42	0°28	13° 7	23° 8	0°44	9°49	29°32	29°48	29°39	n.a.	W29
T 30	16 14 1	3°33'58	10♍58	21°49	22°24	18°15	0°22	13° 8	23° 6	0°45	9°47	29°32	29°45	29°45	n.a.	T 30
F 31	16 17 57	4♊31'04	23♍15	23♊33	23♊38	18♌47	0♑16	13♍ 9	23♏ 3	0♍45	9♑46	29♌31	29♌42	29♋52	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	13n39	13n43	1s 0	7n27	1s23	17n13	0n 8	21n16	1n47	23s50	0s 8	9n 2	2n38	18s55	0n 8	12n39	1n25	28s50	5s31	10n46	11n 9	18n12			n.a.
T 2	13 58	10 34	0n 4	8 20	1 13	17 36	0 11	21 8	1 46	23 50	0 8	9 3	2 38	18 55	0 8	12 39	1 25	28 50	5 32	10 46	11 10	18 12			n.a.
F 3	14 17	6 55	1 9	9 13	1 3	17 59	0 13	21 0	1 44	23 50	0 8	9 3	2 38	18 54	0 8	12 39	1 25	28 50	5 32	10 47	11 11	18 11			n.a.
S 4	14 36	2 52	2 12	10 7	0 53	18 22	0 16	20 51	1 43	23 50	0 8	9 4	2 38	18 54	0 8	12 39	1 25	28 50	5 32	10 48	11 12	18 11			n.a.
S 5	14 54	1s26	3 10	11 1	0 42	18 43	0 18	20 43	1 41	23 50	0 8	9 4	2 38	18 53	0 8	12 39	1 24	28 51	5 32	10 49	11 13	18 10			n.a.
M 6	15 12	5 46	3 59	11 55	0 32	19 5	0 20	20 35	1 40	23 51	0 9	9 5	2 37	18 52	0 8	12 40	1 24	28 51	5 32	10 52	11 14	18 10			n.a.
T 7	15 30	9 56	4 36	12 48	0 21	19 26	0 23	20 26	1 38	23 51	0 9	9 5	2 37	18 52	0 8	12 40	1 24	28 51	5 33	10 56	11 15	18 9			n.a.
W 8	15 48	13 39	4 58	13 42	0 10	19 46	0 25	20 18	1 37	23 51	0 9	9 5	2 37	18 51	0 8	12 40	1 24	28 51	5 33	10 59	11 17	18 9			n.a.
T 9	16 5	16 38	5 1	14 34	0n 0	20 6	0 28	20 9	1 36	23 51	0 9	9 6	2 37	18 51	0 8	12 40	1 24	28 52	5 33	11 3	11 18	18 8			n.a.
F 10	16 23	18 37	4 46	15 26	0 11	20 25	0 30	20 0	1 34	23 51	0 9	9 6	2 36	18 50	0 8	12 40	1 24	28 52	5 33	11 7	11 19	18 7			n.a.
S 11	16 40	19 26	4 12	16 17	0 22	20 44	0 32	19 51	1 33	23 52	0 9	9 6	2 36	18 49	0 8	12 40	1 24	28 52	5 33	11 9	11 20	18 7			n.a.
S 12	16 56	18 58	3 22	17 6	0 32	21 2	0 35	19 42	1 32	23 52	0 10	9 6	2 36	18 49	0 8	12 40	1 24	28 52	5 34	11 11	11 21	18 6			n.a.
M13	17 13	17 17	2 20	17 54	0 42	21 20	0 37	19 33	1 30	23 52	0 10	9 6	2 36	18 48	0 8	12 40	1 24	28 53	5 34	11 12	11 22	18 6			n.a.
T 14	17 29	14 34	1 10	18 40	0 51	21 37	0 39	19 23	1 29	23 52	0 10	9 6	2 36	18 48	0 8	12 40	1 24	28 53	5 34	11 12	11 23	18 5			n.a.
W15	17 45	11 1	0s 3	19 24	1 0	21 53	0 42	19 14	1 28	23 53	0 10	9 6	2 35	18 47	0 8	12 40	1 24	28 53	5 34	11 12	11 25	18 4			n.a.
T 16	18 1	6 54	1 16	20 6	1 9	22 9	0 44	19 4	1 26	23 53	0 10	9 6	2 35	18 46	0 8	12 40	1 24	28 54	5 34	11 12	11 26	18 4			n.a.
F 17	18 16	2 29	2 23	20 46	1 17	22 24	0 46	18 55	1 25	23 53	0 10	9 6	2 35	18 46	0 8	12 40	1 24	28 54	5 35	11 13	11 27	18 3			n.a.
S 18	18 31	2n 0	3 21	21 23	1 24	22 39	0 48	18 45	1 24	23 53	0 11	9 6	2 35	18 45	0 8	12 40	1 24	28 54	5 35	11 15	11 28	18 3			n.a.
S 19	18 46	6 20	4 7	21 58	1 31	22 53	0 50	18 35	1 22	23 53	0 11	9 6	2 34	18 45	0 8	12 40	1 24	28 54	5 35	11 17	11 29	18 2			n.a.
M20	19 0	10 18	4 40	22 30	1 37	23 6	0 53	18 25	1 21	23 54	0 11	9 6	2 34	18 44	0 8	12 40	1 24	28 55	5 35	11 21	11 30	18 1			n.a.
T 21	19 14	13 43	4 57	22 59	1 43	23 19	0 55	18 15	1 20	23 54	0 11	9 6	2 34	18 43	0 8	12 39	1 24	28 55	5 35	11 26	11 31	18 1			n.a.
W22	19 28	16 26	4 59	23 26	1 47	23 31	0 57	18 4	1 19	23 54	0 11	9 5	2 34	18 43	0 8	12 39	1 24	28 55	5 36	11 30	11 32	18 0			n.a.
T 23	19 41	18 20	4 47	23 50	1 51	23 42	0 59	17 54	1 17	23 54	0 12	9 5	2 34	18 42	0 8	12 39	1 24	28 55	5 36	11 35	11 34	18 0			n.a.
F 24	19 55	19 21	4 22	24 12	1 55	23 53	1 1	17 43	1 16	23 55	0 12	9 5	2 33	18 42	0 8	12 39	1 24	28 56	5 36	11 39	11 35	17 59			n.a.
S 25	20 7	19 28	3 45	24 31	1 57	24 3	1 3	17 33	1 15	23 55	0 12	9 4	2 33	18 41	0 8	12 39	1 24	28 56	5 36	11 42	11 36	17 58			n.a.
S 26	20 20	18 43	2 59	24 47	1 59	24 12	1 5	17 22	1 14	23 55	0 12	9 4	2 33	18 40	0 8	12 39	1 24	28 56	5 36	11 44	11 37	17 58			n.a.
M27	20 32	17 9	2 5	25 1	2 1	24 20	1 7	17 11	1 13	23 55	0 12	9 4	2 33	18 40	0 8	12 39	1 24	28 56	5 37	11 45	11 38	17 57			n.a.
T 28	20 44	14 52	1 6	25 12	2 1	24 28	1 9	17 0	1 11	23 55	0 12	9 3	2 32	18 39	0 8	12 39	1 24	28 57	5 37	11 46	11 39	17 56			n.a.
W29	20 55	11 56	0 3	25 21	2 1	24 35	1 10	16 49	1 10	23 56	0 13	9 3	2 32	18 39	0 8	12 38	1 24	28 57	5 37	11 46	11 40	17 56			n.a.
T 30	21 7	8 28	1n 0	25 28	2 0	24 42	1 12	16 38	1 9	23 56	0 13	9 2	2 32	18 38	0 8	12 38	1 24	28 57	5 37	11 46	11 42	17 55			n.a.
F 31	21n17	4n34	2n 2	25n32	1n59	24n47	1n14	16n26	1n 8	23s56	0s13	9n 1	2n32	18s37	0n 8	12n38	1n24	28s57	5s37	11n46	11n43	17n54			n.a.

Julian Day Number = 1648858.5, Delta T = 03h32m10s
Ecliptic obliquity = 23°43'02, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'41, Lahiri = - 6°41'41 Julian Calendar 1 May 199 BCE == Greg. Calendar 28 Apr. 199 BCE

The year -198 astronomical counting style corresponds to year 199 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 199 BCE
geocentric

JUNE 199 BCE (-198) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 21 54	5♊28'09	5♎53	25♊15	24♊51	19♌20	0°R10	13♍10	23°R 1	0♍46	9°R45	29°R28	29♌38	29♋59	n.a.	S 1
S 2	16 25 50	6°25'15	18°54	26°55	26° 4	19°53	0♑ 3	13°11	22♏58	0°46	9♑44	29♌23	29°35	0♌ 5	n.a.	S 2
M 3	16 29 47	7°22'20	2♏22	28°33	27°17	20°26	29♐57	13°13	22°56	0°47	9°43	29°16	29°32	0°12	n.a.	M 3
T 4	16 33 43	8°19'25	16°17	0♋ 9	28°30	20°59	29°50	13°14	22°54	0°47	9°42	29° 6	29°29	0°19	n.a.	T 4
W 5	16 37 40	9°16'30	0♐35	1°42	29°44	21°32	29°44	13°16	22°51	0°48	9°41	28°55	29°26	0°25	n.a.	W 5
T 6	16 41 37	10°13'35	15°12	3°13	0♋57	22° 6	29°37	13°17	22°49	0°48	9°40	28°44	29°23	0°32	n.a.	T 6
F 7	16 45 33	11°10'41	29°59	4°42	2°10	22°39	29°30	13°19	22°47	0°49	9°39	28°35	29°19	0°39	n.a.	F 7
S 8	16 49 30	12° 7'47	14♑50	6° 9	3°23	23°13	29°23	13°21	22°45	0°50	9°37	28°27	29°16	0°45	n.a.	S 8
S 9	16 53 26	13° 4'53	29°35	7°33	4°36	23°47	29°16	13°22	22°42	0°51	9°36	28°22	29°13	0°52	n.a.	S 9
M10	16 57 23	14° 2'00	14♒ 9	8°55	5°49	24°21	29° 9	13°24	22°40	0°51	9°35	28°20	29°10	0°59	n.a.	M10
T 11	17 1 19	14°59'07	28°27	10°15	7° 2	24°55	29° 1	13°26	22°38	0°52	9°34	28°D19	29° 7	1° 5	n.a.	T 11
W12	17 5 16	15°56'15	12♓29	11°33	8°15	25°29	28°54	13°28	22°36	0°53	9°33	28°R19	29° 3	1°12	n.a.	W12
T 13	17 9 13	16°53'23	26°13	12°48	9°29	26° 4	28°47	13°31	22°34	0°54	9°31	28°19	29° 0	1°19	n.a.	T 13
F 14	17 13 9	17°50'32	9♈41	14° 0	10°42	26°38	28°39	13°33	22°31	0°55	9°30	28°17	28°57	1°25	n.a.	F 14
S 15	17 17 6	18°47'42	22°54	15°10	11°55	27°13	28°32	13°35	22°29	0°56	9°29	28°13	28°54	1°32	n.a.	S 15
S 16	17 21 2	19°44'53	5♉54	16°18	13° 8	27°48	28°24	13°38	22°27	0°57	9°27	28° 6	28°51	1°39	n.a.	S 16
M17	17 24 59	20°42'04	18°42	17°22	14°21	28°22	28°17	13°41	22°25	0°58	9°26	27°57	28°48	1°45	n.a.	M17
T 18	17 28 55	21°39'17	1♊18	18°24	15°34	28°58	28° 9	13°43	22°23	0°59	9°25	27°46	28°44	1°52	n.a.	T 18
W19	17 32 52	22°36'29	13°42	19°23	16°47	29°33	28° 1	13°46	22°21	1° 0	9°24	27°35	28°41	1°59	n.a.	W19
T 20	17 36 48	23°33'43	25°57	20°19	18° 0	0♍ 8	27°54	13°49	22°19	1° 1	9°22	27°23	28°38	2° 5	n.a.	T 20
F 21	17 40 45	24°30'57	8♋ 1	21°12	19°13	0°43	27°46	13°52	22°17	1° 2	9°21	27°13	28°35	2°12	n.a.	F 21
S 22	17 44 42	25°28'12	19°58	22° 1	20°26	1°19	27°38	13°55	22°15	1° 3	9°20	27° 5	28°32	2°19	n.a.	S 22
S 23	17 48 38	26°25'27	1♌48	22°47	21°39	1°55	27°30	13°58	22°13	1° 4	9°18	27° 0	28°29	2°25	n.a.	S 23
M24	17 52 35	27°22'43	13°35	23°30	22°51	2°30	27°23	14° 1	22°11	1° 5	9°17	26°57	28°25	2°32	n.a.	M24
T 25	17 56 31	28°19'59	25°22	24° 9	24° 4	3° 6	27°15	14° 4	22°10	1° 7	9°16	26°D56	28°22	2°39	n.a.	T 25
W26	18 0 28	29°17'16	7♍14	24°44	25°17	3°42	27° 7	14° 8	22° 8	1° 8	9°14	26°56	28°19	2°45	n.a.	W26
T 27	18 4 24	0♋14'34	19°15	25°15	26°30	4°18	26°59	14°11	22° 6	1° 9	9°13	26°57	28°16	2°52	n.a.	T 27
F 28	18 8 21	1°11'52	1♎31	25°41	27°43	4°54	26°52	14°15	22° 4	1°10	9°11	26°R57	28°13	2°59	n.a.	F 28
S 29	18 12 17	2° 9'11	14° 6	26° 4	28°56	5°31	26°44	14°19	22° 3	1°12	9°10	26°57	28° 9	3° 5	n.a.	S 29
S 30	18 16 14	3♋ 6'30	27♎ 6	26♋21	0♌ 8	6♍ 7	26♐36	14♍22	22♏ 1	1♍13	9♑ 9	26♌54	28♌ 6	3♌12	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n28	0n23	3n 0	25n35	1n57	24n52	1n15	16n15	1n 7	23s56	0s13	9n 1	2n31	18s37	0n 8	12n38	1n23	28s58	5s37	11n47	11n44	17n54		n.a.
S 2	21 38	3s57	3 50	25 35	1 54	24 57	1 17	16 3	1 6	23 56	0 13	9 0	2 31	18 36	0 8	12 38	1 23	28 58	5 38	11 49	11 45	17 53		n.a.
M 3	21 48	8 14	4 29	25 33	1 51	25 0	1 19	15 52	1 4	23 56	0 13	8 59	2 31	18 36	0 8	12 37	1 23	28 58	5 38	11 52	11 46	17 52		n.a.
T 4	21 57	12 12	4 54	25 30	1 47	25 3	1 20	15 40	1 3	23 57	0 14	8 59	2 31	18 35	0 8	12 37	1 23	28 58	5 38	11 55	11 47	17 52		n.a.
W 5	22 6	15 36	5 1	25 25	1 42	25 5	1 22	15 28	1 2	23 57	0 14	8 58	2 31	18 34	0 8	12 37	1 23	28 59	5 38	11 59	11 48	17 51		n.a.
T 6	22 14	18 6	4 49	25 18	1 37	25 6	1 23	15 16	1 1	23 57	0 14	8 57	2 30	18 34	0 8	12 37	1 23	28 59	5 38	12 3	11 49	17 50		n.a.
F 7	22 23	19 25	4 18	25 9	1 32	25 6	1 24	15 4	1 0	23 57	0 14	8 56	2 30	18 33	0 8	12 36	1 23	28 59	5 38	12 6	11 51	17 50		n.a.
S 8	22 30	19 25	3 29	25 0	1 25	25 6	1 26	14 51	0 59	23 57	0 14	8 55	2 30	18 33	0 8	12 36	1 23	28 59	5 39	12 9	11 52	17 49		n.a.
S 9	22 38	18 6	2 26	24 49	1 19	25 5	1 27	14 39	0 58	23 57	0 15	8 54	2 30	18 32	0 8	12 36	1 23	29 0	5 39	12 11	11 53	17 48		n.a.
M10	22 45	15 35	1 15	24 36	1 12	25 3	1 28	14 27	0 56	23 58	0 15	8 53	2 29	18 31	0 8	12 35	1 23	29 0	5 39	12 12	11 54	17 48		n.a.
T 11	22 52	12 10	0s 1	24 23	1 4	25 1	1 29	14 14	0 55	23 58	0 15	8 52	2 29	18 31	0 8	12 35	1 23	29 0	5 39	12 12	11 55	17 47		n.a.
W12	22 58	8 6	1 15	24 8	0 56	24 57	1 30	14 1	0 54	23 58	0 15	8 51	2 29	18 30	0 8	12 35	1 23	29 0	5 39	12 12	11 56	17 46		n.a.
T 13	23 4	3 42	2 23	23 52	0 47	24 53	1 31	13 49	0 53	23 58	0 15	8 50	2 29	18 30	0 8	12 34	1 23	29 1	5 39	12 12	11 57	17 46		n.a.
F 14	23 9	0n48	3 21	23 36	0 38	24 49	1 32	13 36	0 52	23 58	0 15	8 49	2 28	18 29	0 8	12 34	1 23	29 1	5 39	12 12	11 58	17 45		n.a.
S 15	23 14	5 11	4 8	23 19	0 28	24 43	1 33	13 23	0 51	23 58	0 16	8 48	2 28	18 29	0 8	12 34	1 23	29 1	5 40	12 14	11 59	17 44		n.a.
S 16	23 19	9 14	4 41	23 1	0 18	24 37	1 34	13 10	0 50	23 58	0 16	8 47	2 28	18 28	0 8	12 33	1 23	29 1	5 40	12 16	12 1	17 44		n.a.
M17	23 23	12 48	4 59	22 42	0 8	24 30	1 35	12 56	0 49	23 58	0 16	8 46	2 28	18 28	0 8	12 33	1 23	29 1	5 40	12 19	12 2	17 43		n.a.
T 18	23 27	15 44	5 2	22 23	0s 3	24 22	1 35	12 43	0 48	23 58	0 16	8 44	2 28	18 27	0 8	12 32	1 23	29 2	5 40	12 23	12 3	17 42		n.a.
W19	23 30	17 54	4 51	22 4	0 14	24 14	1 36	12 30	0 47	23 58	0 16	8 43	2 27	18 27	0 8	12 32	1 23	29 2	5 40	12 27	12 4	17 41		n.a.
T 20	23 33	19 13	4 27	21 44	0 26	24 5	1 36	12 16	0 46	23 58	0 16	8 42	2 27	18 26	0 8	12 32	1 23	29 2	5 40	12 31	12 5	17 41		n.a.
F 21	23 36	19 38	3 50	21 25	0 37	23 55	1 37	12 2	0 45	23 58	0 17	8 40	2 27	18 26	0 8	12 31	1 23	29 2	5 40	12 35	12 6	17 40		n.a.
S 22	23 38	19 11	3 4	21 5	0 50	23 45	1 37	11 49	0 44	23 58	0 17	8 39	2 27	18 25	0 8	12 31	1 23	29 3	5 40	12 37	12 7	17 39		n.a.
S 23	23 40	17 52	2 10	20 45	1 2	23 33	1 37	11 35	0 43	23 58	0 17	8 38	2 27	18 25	0 8	12 30	1 23	29 3	5 41	12 39	12 8	17 39		n.a.
M24	23 41	15 48	1 11	20 25	1 15	23 22	1 38	11 21	0 42	23 58	0 17	8 36	2 26	18 24	0 8	12 30	1 23	29 3	5 41	12 40	12 10	17 38		n.a.
T 25	23 42	13 5	0 8	20 6	1 28	23 9	1 38	11 7	0 41	23 58	0 17	8 35	2 26	18 24	0 8	12 29	1 23	29 3	5 41	12 41	12 11	17 37		n.a.
W26	23 43	9 48	0n55	19 47	1 41	22 56	1 38	10 53	0 40	23 58	0 17	8 33	2 26	18 23	0 8	12 29	1 23	29 3	5 41	12 41	12 12	17 36		n.a.
T 27	23 43	6 5	1 57	19 28	1 54	22 42	1 38	10 38	0 39	23 58	0 17	8 32	2 26	18 23	0 8	12 28	1 23	29 4	5 41	12 40	12 13	17 36		n.a.
F 28	23 43	2 4	2 55	19 10	2 7	22 27	1 38	10 24	0 38	23 58	0 18	8 30	2 25	18 22	0 8	12 28	1 23	29 4	5 41	12 40	12 14	17 35		n.a.
S 29	23 42	2s10	3 46	18 53	2 21	22 12	1 38	10 10	0 37	23 58	0 18	8 28	2 25	18 22	0 8	12 27	1 23	29 4	5 41	12 40	12 15	17 34		n.a.
S 30	23n41	6s25	4n27	18n36	2s34	21n56	1n37	9n55	0n36	23s58	0s18	8n27	2n25	18s22	0n 8	12n27	1n22	29s 4	5s41	12n41	12n16	17n33		n.a.

Julian Day Number = 1648889.5, Delta T = 03h32m09s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'37, Lahiri = - 6°41'37 Julian Calendar 1 June 199 BCE == Greg. Calendar 29 May 199 BCE

The year -198 astronomical counting style corresponds to year 199 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 199 BCE
geocentric

JULY 199 BCE (-198) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 20 11	4♋ 3'50	10♏33	26♋34	1♌21	6♍44	26°R28	14♍26	21°R59	1♍14	9°R 7	26°R49	28♌ 3	3♌19	n.a.	M 1
T 2	18 24 7	5° 1'11	24°29	26°42	2°34	7°20	26♐21	14°30	21♏58	1°16	9♑ 6	26♌43	28° 0	3°25	n.a.	T 2
W 3	18 28 4	5°58'33	8♐53	26°R45	3°47	7°57	26°13	14°34	21°56	1°17	9° 5	26°36	27°57	3°32	n.a.	W 3
T 4	18 32 0	6°55'55	23°40	26°43	4°59	8°34	26° 6	14°38	21°55	1°19	9° 3	26°28	27°54	3°39	n.a.	T 4
F 5	18 35 57	7°53'19	8♑42	26°36	6°12	9°11	25°58	14°42	21°53	1°20	9° 2	26°21	27°50	3°45	n.a.	F 5
S 6	18 39 53	8°50'44	23°50	26°23	7°25	9°48	25°51	14°46	21°52	1°22	9° 0	26°16	27°47	3°52	n.a.	S 6
S 7	18 43 50	9°48'10	8♒54	26° 5	8°37	10°25	25°44	14°50	21°51	1°23	8°59	26°13	27°44	3°59	n.a.	S 7
M 8	18 47 46	10°45'37	23°47	25°42	9°50	11° 3	25°36	14°55	21°49	1°25	8°58	26°D12	27°41	4° 5	n.a.	M 8
T 9	18 51 43	11°43'06	8♓21	25°14	11° 2	11°40	25°29	14°59	21°48	1°26	8°56	26°12	27°38	4°12	n.a.	T 9
W10	18 55 40	12°40'36	22°33	24°41	12°15	12°18	25°22	15° 4	21°47	1°28	8°55	26°13	27°35	4°19	n.a.	W10
T 11	18 59 36	13°38'08	6♈23	24° 4	13°27	12°55	25°15	15° 8	21°45	1°29	8°54	26°14	27°31	4°25	n.a.	T 11
F 12	19 3 33	14°35'41	19°50	23°22	14°40	13°33	25° 8	15°13	21°44	1°31	8°52	26°R15	27°28	4°32	n.a.	F 12
S 13	19 7 29	15°33'16	2♉57	22°38	15°52	14°11	25° 1	15°18	21°43	1°33	8°51	26°13	27°25	4°38	n.a.	S 13
S 14	19 11 26	16°30'52	15°47	21°51	17° 5	14°49	24°55	15°22	21°42	1°34	8°49	26°10	27°22	4°45	n.a.	S 14
M15	19 15 22	17°28'30	28°21	21° 1	18°17	15°27	24°48	15°27	21°41	1°36	8°48	26° 5	27°19	4°52	n.a.	M15
T 16	19 19 19	18°26'10	10♊42	20°11	19°30	16° 5	24°41	15°32	21°40	1°38	8°47	25°59	27°15	4°58	n.a.	T 16
W17	19 23 15	19°23'51	22°54	19°21	20°42	16°43	24°35	15°37	21°39	1°40	8°45	25°53	27°12	5° 5	n.a.	W17
T 18	19 27 12	20°21'34	4♋56	18°31	21°54	17°21	24°29	15°42	21°38	1°41	8°44	25°46	27° 9	5°12	n.a.	T 18
F 19	19 31 9	21°19'18	16°52	17°44	23° 7	18° 0	24°22	15°47	21°37	1°43	8°43	25°40	27° 6	5°18	n.a.	F 19
S 20	19 35 5	22°17'04	28°42	16°59	24°19	18°38	24°16	15°52	21°37	1°45	8°41	25°36	27° 3	5°25	n.a.	S 20
S 21	19 39 2	23°14'52	10♌30	16°18	25°31	19°17	24°11	15°58	21°36	1°47	8°40	25°33	27° 0	5°32	n.a.	S 21
M22	19 42 58	24°12'40	22°17	15°42	26°43	19°56	24° 5	16° 3	21°35	1°49	8°39	25°D32	26°56	5°38	n.a.	M22
T 23	19 46 55	25°10'31	4♍ 6	15°11	27°56	20°34	23°59	16° 8	21°34	1°51	8°37	25°33	26°53	5°45	n.a.	T 23
W24	19 50 51	26° 8'22	16° 0	14°47	29° 8	21°13	23°54	16°14	21°34	1°52	8°36	25°34	26°50	5°52	n.a.	W24
T 25	19 54 48	27° 6'15	28° 3	14°29	0♍20	21°52	23°48	16°19	21°33	1°54	8°35	25°36	26°47	5°58	n.a.	T 25
F 26	19 58 44	28° 4'09	10♎19	14°18	1°32	22°31	23°43	16°25	21°33	1°56	8°33	25°37	26°44	6° 5	n.a.	F 26
S 27	20 2 41	29° 2'05	22°53	14°D16	2°44	23°11	23°38	16°30	21°32	1°58	8°32	25°38	26°40	6°12	n.a.	S 27
S 28	20 6 38	0♌ 0'02	5♏49	14°21	3°56	23°50	23°33	16°36	21°32	2° 0	8°31	25°R38	26°37	6°18	n.a.	S 28
M29	20 10 34	0°58'01	19°11	14°34	5° 8	24°29	23°28	16°42	21°32	2° 2	8°30	25°37	26°34	6°25	n.a.	M29
T 30	20 14 31	1°56'01	2♐59	14°55	6°20	25° 9	23°24	16°47	21°31	2° 4	8°28	25°35	26°31	6°32	n.a.	T 30
W31	20 18 27	2♌54'03	17♐16	15♋25	7♍32	25♍48	23♐19	16♍53	21♏31	2♍ 6	8♑27	25♌32	26♌28	6♌38	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	23n39	10s29	4n55	18n21	2s47	21n40	1n37	9n41	0n35	23s58	0s18	8n25	2n25	18s21	0n 8	12n26	1n22	29s 4	5s41	12n43	12n17	17n33		n.a.
T 2	23 37	14 9	5 7	18 7	3 0	21 23	1 37	9 26	0 34	23 58	0 18	8 23	2 25	18 21	0 8	12 26	1 22	29 5	5 41	12 45	12 18	17 32		n.a.
W 3	23 35	17 5	5 0	17 53	3 13	21 5	1 36	9 11	0 33	23 58	0 18	8 22	2 24	18 20	0 8	12 25	1 22	29 5	5 42	12 48	12 20	17 31		n.a.
T 4	23 32	19 0	4 34	17 42	3 25	20 47	1 36	8 56	0 32	23 58	0 18	8 20	2 24	18 20	0 8	12 25	1 22	29 5	5 42	12 50	12 21	17 30		n.a.
F 5	23 29	19 38	3 48	17 31	3 37	20 29	1 35	8 41	0 31	23 58	0 19	8 18	2 24	18 20	0 8	12 24	1 22	29 5	5 42	12 53	12 22	17 30		n.a.
S 6	23 25	18 52	2 46	17 23	3 49	20 9	1 35	8 26	0 30	23 58	0 19	8 16	2 24	18 19	0 8	12 24	1 22	29 5	5 42	12 54	12 23	17 29		n.a.
S 7	23 21	16 45	1 32	17 15	3 59	19 49	1 34	8 11	0 29	23 58	0 19	8 14	2 24	18 19	0 8	12 23	1 22	29 6	5 42	12 55	12 24	17 28		n.a.
M 8	23 17	13 33	0 13	17 10	4 9	19 29	1 33	7 56	0 28	23 58	0 19	8 13	2 23	18 19	0 8	12 23	1 22	29 6	5 42	12 56	12 25	17 27		n.a.
T 9	23 12	9 33	1s 5	17 7	4 18	19 8	1 32	7 41	0 27	23 58	0 19	8 11	2 23	18 18	0 7	12 22	1 22	29 6	5 42	12 56	12 26	17 26		n.a.
W10	23 6	5 6	2 18	17 5	4 26	18 47	1 31	7 25	0 26	23 57	0 19	8 9	2 23	18 18	0 7	12 21	1 22	29 6	5 42	12 55	12 27	17 26		n.a.
T 11	23 1	0 30	3 21	17 5	4 32	18 25	1 30	7 10	0 25	23 57	0 19	8 7	2 23	18 18	0 7	12 21	1 22	29 6	5 42	12 55	12 28	17 25		n.a.
F 12	22 54	3n59	4 10	17 7	4 37	18 2	1 29	6 55	0 24	23 57	0 20	8 5	2 23	18 17	0 7	12 20	1 22	29 6	5 42	12 55	12 29	17 24		n.a.
S 13	22 48	8 10	4 46	17 12	4 40	17 39	1 28	6 39	0 23	23 57	0 20	8 3	2 23	18 17	0 7	12 19	1 22	29 7	5 42	12 55	12 31	17 23		n.a.
S 14	22 41	11 53	5 6	17 18	4 41	17 16	1 26	6 23	0 22	23 57	0 20	8 1	2 22	18 17	0 7	12 19	1 22	29 7	5 42	12 56	12 32	17 22		n.a.
M15	22 34	14 59	5 10	17 26	4 41	16 52	1 25	6 8	0 21	23 57	0 20	7 59	2 22	18 17	0 7	12 18	1 22	29 7	5 42	12 58	12 33	17 22		n.a.
T 16	22 26	17 21	5 0	17 35	4 39	16 28	1 23	5 52	0 20	23 57	0 20	7 57	2 22	18 16	0 7	12 18	1 22	29 7	5 42	13 0	12 34	17 21		n.a.
W17	22 18	18 55	4 37	17 46	4 35	16 3	1 22	5 36	0 19	23 56	0 20	7 55	2 22	18 16	0 7	12 17	1 22	29 7	5 42	13 2	12 35	17 20		n.a.
T 18	22 9	19 36	4 2	17 59	4 29	15 38	1 20	5 20	0 18	23 56	0 20	7 52	2 22	18 16	0 7	12 16	1 22	29 7	5 43	13 5	12 36	17 19		n.a.
F 19	22 0	19 24	3 16	18 13	4 21	15 12	1 19	5 4	0 18	23 56	0 20	7 50	2 22	18 16	0 7	12 16	1 22	29 7	5 43	13 7	12 37	17 18		n.a.
S 20	21 51	18 21	2 22	18 28	4 11	14 47	1 17	4 48	0 17	23 56	0 21	7 48	2 21	18 16	0 7	12 15	1 22	29 8	5 43	13 8	12 38	17 18		n.a.
S 21	21 41	16 30	1 22	18 44	4 0	14 20	1 15	4 32	0 16	23 56	0 21	7 46	2 21	18 15	0 7	12 14	1 22	29 8	5 43	13 9	12 39	17 17		n.a.
M22	21 31	13 58	0 18	19 1	3 48	13 54	1 13	4 16	0 15	23 56	0 21	7 44	2 21	18 15	0 7	12 14	1 22	29 8	5 43	13 9	12 40	17 16		n.a.
T 23	21 21	10 51	0n47	19 18	3 34	13 27	1 11	3 59	0 14	23 56	0 21	7 41	2 21	18 15	0 7	12 13	1 22	29 8	5 43	13 9	12 42	17 15		n.a.
W24	21 10	7 16	1 50	19 36	3 19	12 59	1 9	3 43	0 13	23 55	0 21	7 39	2 21	18 15	0 7	12 12	1 22	29 8	5 43	13 9	12 43	17 14		n.a.
T 25	20 59	3 22	2 49	19 53	3 3	12 32	1 7	3 27	0 12	23 55	0 21	7 37	2 21	18 15	0 7	12 11	1 22	29 8	5 43	13 8	12 44	17 13		n.a.
F 26	20 47	0s44	3 42	20 11	2 46	12 4	1 5	3 10	0 11	23 55	0 21	7 35	2 21	18 15	0 7	12 11	1 22	29 8	5 43	13 8	12 45	17 12		n.a.
S 27	20 35	4 54	4 25	20 28	2 29	11 35	1 3	2 54	0 10	23 55	0 21	7 32	2 20	18 15	0 7	12 10	1 22	29 8	5 43	13 7	12 46	17 12		n.a.
S 28	20 23	8 57	4 57	20 45	2 12	11 7	1 0	2 37	0 10	23 55	0 21	7 30	2 20	18 14	0 7	12 9	1 22	29 8	5 43	13 7	12 47	17 11		n.a.
M29	20 11	12 42	5 13	21 1	1 54	10 38	0 58	2 21	0 9	23 55	0 22	7 27	2 20	18 14	0 7	12 9	1 22	29 9	5 43	13 8	12 48	17 10		n.a.
T 30	19 58	15 53	5 13	21 16	1 37	10 9	0 55	2 4	0 8	23 55	0 22	7 25	2 20	18 14	0 7	12 8	1 22	29 9	5 43	13 8	12 49	17 9		n.a.
W31	19n44	18s14	4n53	21n30	1s19	9n39	0n53	1n47	0n 7	23s55	0s22	7n23	2n20	18s14	0n 7	12n 7	1n22	29s 9	5s43	13n 9	12n50	17n 8		n.a.

Julian Day Number = 1648919.5, Delta T = 03h32m08s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'33, Lahiri = - 6°41'32 Julian Calendar 1 July 199 BCE == Greg. Calendar 28 June 199 BCE

The year -198 astronomical counting style corresponds to year 199 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 199 BCE
geocentric

AUGUST 199 BCE (-198) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 22 24	3♌52'06	1♉57	16♋ 2	8♍44	26♍28	23°R15	16♍59	21°R31	2♍ 8	8°R26	25°R29	26♌25	6♌45	n.a.	T 1
F 2	20 26 20	4°50'11	16°58	16°48	9°56	27° 8	23♐11	17° 5	21♏31	2°10	8♉25	25♌27	26°21	6°52	n.a.	F 2
S 3	20 30 17	5°48'17	2♒10	17°40	11° 7	27°48	23° 7	17°11	21°31	2°12	8°24	25°25	26°18	6°58	n.a.	S 3
S 4	20 34 13	6°46'25	17°24	18°41	12°19	28°28	23° 3	17°17	21°31	2°14	8°22	25°24	26°15	7° 5	n.a.	S 4
M 5	20 38 10	7°44'35	2♓29	19°48	13°31	29° 8	23° 0	17°23	21°D31	2°16	8°21	25°D24	26°12	7°12	n.a.	M 5
T 6	20 42 7	8°42'47	17°18	21° 1	14°42	29°48	22°57	17°29	21°31	2°18	8°20	25°24	26° 9	7°18	n.a.	T 6
W 7	20 46 3	9°41'01	1♈44	22°20	15°54	0♎28	22°53	17°35	21°31	2°20	8°19	25°26	26° 6	7°25	n.a.	W 7
T 8	20 50 0	10°39'17	15°44	23°45	17° 6	1° 8	22°50	17°42	21°31	2°22	8°18	25°27	26° 2	7°32	n.a.	T 8
F 9	20 53 56	11°37'36	29°19	25°15	18°17	1°48	22°47	17°48	21°31	2°25	8°17	25°27	25°59	7°38	n.a.	F 9
S 10	20 57 53	12°35'56	12♉28	26°49	19°29	2°29	22°45	17°54	21°31	2°27	8°16	25°R28	25°56	7°45	n.a.	S 10
S 11	21 1 49	13°34'19	25°15	28°28	20°40	3° 9	22°42	18° 1	21°32	2°29	8°14	25°28	25°53	7°51	n.a.	S 11
M12	21 5 46	14°32'44	7♊44	0♌ 9	21°51	3°50	22°40	18° 7	21°32	2°31	8°13	25°27	25°50	7°58	n.a.	M12
T 13	21 9 42	15°31'12	19°58	1°53	23° 3	4°31	22°38	18°13	21°32	2°33	8°12	25°26	25°46	8° 5	n.a.	T 13
W14	21 13 39	16°29'41	2♋ 0	3°40	24°14	5°12	22°36	18°20	21°33	2°35	8°11	25°24	25°43	8°11	n.a.	W14
T 15	21 17 36	17°28'13	13°55	5°28	25°25	5°52	22°34	18°26	21°33	2°37	8°10	25°23	25°40	8°18	n.a.	T 15
F 16	21 21 32	18°26'47	25°45	7°18	26°36	6°33	22°33	18°33	21°34	2°40	8° 9	25°22	25°37	8°25	n.a.	F 16
S 17	21 25 29	19°25'23	7♌32	9° 9	27°48	7°14	22°32	18°40	21°34	2°42	8° 8	25°22	25°34	8°31	n.a.	S 17
S 18	21 29 25	20°24'01	19°20	11° 1	28°59	7°56	22°30	18°46	21°35	2°44	8° 7	25°21	25°31	8°38	n.a.	S 18
M19	21 33 22	21°22'41	1♍11	12°53	0♎10	8°37	22°30	18°53	21°36	2°46	8° 6	25°D21	25°27	8°45	n.a.	M19
T 20	21 37 18	22°21'23	13° 6	14°46	1°21	9°18	22°29	19° 0	21°37	2°48	8° 6	25°21	25°24	8°51	n.a.	T 20
W21	21 41 15	23°20'07	25° 8	16°38	2°32	10° 0	22°28	19° 6	21°37	2°51	8° 5	25°22	25°21	8°58	n.a.	W21
T 22	21 45 11	24°18'53	7♎19	18°31	3°42	10°41	22°28	19°13	21°38	2°53	8° 4	25°22	25°18	9° 5	n.a.	T 22
F 23	21 49 8	25°17'41	19°42	20°22	4°53	11°23	22°D28	19°20	21°39	2°55	8° 3	25°R22	25°15	9°11	n.a.	F 23
S 24	21 53 4	26°16'31	2♏21	22°14	6° 4	12° 4	22°28	19°27	21°40	2°57	8° 2	25°22	25°12	9°18	n.a.	S 24
S 25	21 57 1	27°15'22	15°17	24° 5	7°15	12°46	22°28	19°33	21°41	2°59	8° 1	25°22	25° 8	9°25	n.a.	S 25
M26	22 0 58	28°14'16	28°34	25°55	8°25	13°28	22°29	19°40	21°42	3° 2	8° 1	25°D22	25° 5	9°31	n.a.	M26
T 27	22 4 54	29°13'11	12♐13	27°44	9°36	14°10	22°29	19°47	21°43	3° 4	8° 0	25°22	25° 2	9°38	n.a.	T 27
W28	22 8 51	0♍12'08	26°16	29°33	10°46	14°52	22°30	19°54	21°45	3° 6	7°59	25°22	24°59	9°45	n.a.	W28
T 29	22 12 47	1°11'07	10♑42	1♍20	11°57	15°34	22°31	20° 1	21°46	3° 8	7°58	25°23	24°56	9°51	n.a.	T 29
F 30	22 16 44	2°10'08	25°27	3° 7	13° 7	16°16	22°32	20° 8	21°47	3°11	7°58	25°23	24°52	9°58	n.a.	F 30
S 31	22 20 40	3♍ 9'11	10♒26	4♍54	14♎17	16♎58	22♐34	20♍15	21♏48	3♍13	7♑57	25♌24	24♌49	10♌ 5	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	19n31	19s28	4n14	21n43	1s 2	9n10	0n50	1n31	0n 6	23s54	0s22	7n20	2n20	18s14	0n 7	12n 6	1n22	29s 9	5s43	13n10	12n51	17n 7			n.a.
F 2	19 17	19 22	3 17	21 54	0 45	8 40	0 48	1 14	0 5	23 54	0 22	7 18	2 20	18 14	0 7	12 6	1 22	29 9	5 43	13 11	12 53	17 6			n.a.
S 3	19 2	17 53	2 5	22 3	0 29	8 10	0 45	0 57	0 4	23 54	0 22	7 15	2 19	18 14	0 7	12 5	1 22	29 9	5 43	13 12	12 54	17 6			n.a.
S 4	18 48	15 6	0 44	22 10	0 14	7 40	0 42	0 40	0 4	23 54	0 22	7 13	2 19	18 14	0 7	12 4	1 22	29 9	5 43	13 12	12 55	17 5			n.a.
M 5	18 33	11 19	0s39	22 15	0n 1	7 9	0 39	0 24	0 3	23 54	0 22	7 10	2 19	18 14	0 7	12 3	1 22	29 9	5 43	13 12	12 56	17 4			n.a.
T 6	18 17	6 53	1 58	22 18	0 15	6 39	0 36	0 7	0 2	23 54	0 22	7 8	2 19	18 14	0 7	12 3	1 22	29 9	5 43	13 12	12 57	17 3			n.a.
W 7	18 2	2 10	3 8	22 18	0 28	6 8	0 33	0s10	0 1	23 54	0 22	7 5	2 19	18 14	0 7	12 2	1 22	29 9	5 43	13 12	12 58	17 2			n.a.
T 8	17 46	2n31	4 4	22 16	0 40	5 37	0 30	0 27	0 0	23 54	0 23	7 3	2 19	18 14	0 7	12 1	1 22	29 9	5 43	13 11	12 59	17 1			n.a.
F 9	17 30	6 55	4 45	22 10	0 51	5 6	0 27	0 44	0s 1	23 54	0 23	7 0	2 19	18 14	0 7	12 0	1 22	29 9	5 43	13 11	13 0	17 0			n.a.
S 10	17 13	10 51	5 9	22 2	1 1	4 35	0 24	1 1	0 1	23 54	0 23	6 57	2 19	18 14	0 7	12 0	1 22	29 9	5 43	13 11	13 1	16 59			n.a.
S 11	16 57	14 10	5 17	21 51	1 10	4 3	0 21	1 18	0 2	23 54	0 23	6 55	2 19	18 15	0 7	11 59	1 22	29 10	5 43	13 11	13 2	16 58			n.a.
M12	16 39	16 45	5 10	21 38	1 18	3 32	0 18	1 35	0 3	23 53	0 23	6 52	2 18	18 15	0 7	11 58	1 22	29 10	5 43	13 11	13 3	16 58			n.a.
T 13	16 22	18 32	4 49	21 21	1 26	3 1	0 14	1 52	0 4	23 53	0 23	6 50	2 18	18 15	0 7	11 57	1 22	29 10	5 43	13 12	13 5	16 57			n.a.
W14	16 4	19 27	4 15	21 3	1 32	2 29	0 11	2 9	0 5	23 53	0 23	6 47	2 18	18 15	0 7	11 56	1 22	29 10	5 43	13 12	13 6	16 56			n.a.
T 15	15 47	19 29	3 30	20 41	1 37	1 57	0 8	2 27	0 6	23 53	0 23	6 44	2 18	18 15	0 7	11 56	1 22	29 10	5 43	13 12	13 7	16 55			n.a.
F 16	15 28	18 40	2 37	20 17	1 41	1 26	0 4	2 44	0 6	23 53	0 23	6 42	2 18	18 15	0 7	11 55	1 22	29 10	5 43	13 13	13 8	16 54			n.a.
S 17	15 10	17 2	1 37	19 51	1 44	0 54	0 1	3 1	0 7	23 53	0 23	6 39	2 18	18 15	0 7	11 54	1 22	29 10	5 43	13 13	13 9	16 53			n.a.
S 18	14 51	14 40	0 33	19 23	1 47	0 22	0s 3	3 18	0 8	23 53	0 23	6 36	2 18	18 16	0 7	11 53	1 22	29 10	5 43	13 13	13 10	16 52			n.a.
M19	14 32	11 41	0n32	18 52	1 49	0s10	0 6	3 35	0 9	23 53	0 23	6 33	2 18	18 16	0 7	11 52	1 22	29 10	5 43	13 13	13 11	16 51			n.a.
T 20	14 13	8 13	1 37	18 20	1 50	0 42	0 10	3 52	0 9	23 53	0 23	6 31	2 18	18 16	0 7	11 52	1 22	29 10	5 43	13 13	13 12	16 50			n.a.
W21	13 54	4 22	2 38	17 46	1 50	1 13	0 14	4 10	0 10	23 53	0 24	6 28	2 18	18 16	0 7	11 51	1 22	29 10	5 43	13 13	13 13	16 49			n.a.
T 22	13 34	0 19	3 33	17 11	1 49	1 45	0 17	4 27	0 11	23 54	0 24	6 25	2 18	18 16	0 7	11 50	1 22	29 10	5 42	13 13	13 14	16 48			n.a.
F 23	13 14	3s48	4 19	16 34	1 48	2 17	0 21	4 44	0 12	23 54	0 24	6 22	2 18	18 17	0 7	11 49	1 22	29 10	5 42	13 13	13 15	16 47			n.a.
S 24	12 54	7 51	4 53	15 57	1 47	2 49	0 25	5 1	0 13	23 54	0 24	6 20	2 17	18 17	0 7	11 48	1 22	29 10	5 42	13 13	13 16	16 46			n.a.
S 25	12 34	11 37	5 13	15 18	1 45	3 21	0 29	5 18	0 13	23 54	0 24	6 17	2 17	18 17	0 7	11 48	1 22	29 10	5 42	13 13	13 17	16 45			n.a.
M26	12 13	14 54	5 17	14 38	1 42	3 52	0 32	5 35	0 14	23 54	0 24	6 14	2 17	18 18	0 7	11 47	1 22	29 10	5 42	13 13	13 19	16 45			n.a.
T 27	11 53	17 29	5 4	13 57	1 39	4 24	0 36	5 52	0 15	23 54	0 24	6 11	2 17	18 18	0 7	11 46	1 22	29 10	5 42	13 13	13 20	16 44			n.a.
W28	11 32	19 7	4 33	13 15	1 35	4 55	0 40	6 10	0 16	23 54	0 24	6 9	2 17	18 18	0 7	11 45	1 22	29 10	5 42	13 13	13 21	16 43			n.a.
T 29	11 11	19 34	3 44	12 33	1 32	5 27	0 44	6 27	0 16	23 54	0 24	6 6	2 17	18 19	0 7	11 44	1 22	29 10	5 42	13 13	13 22	16 42			n.a.
F 30	10 49	18 42	2 39	11 50	1 27	5 58	0 48	6 44	0 17	23 54	0 24	6 3	2 17	18 19	0 7	11 43	1 22	29 10	5 42	13 12	13 23	16 41			n.a.
S 31	10n28	16s30	1n22	11n 7	1n23	6s29	0s51	7s 1	0s18	23s54	0s24	6n 0	2n17	18s19	0n 7	11n43	1n22	29s10	5s42	13n12	13n24	16n40			n.a.

Julian Day Number = 1648950.5, Delta T = 03h32m07s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'29, Lahiri = - 6°41'28 Julian Calendar 1 Aug. 199 BCE == Greg. Calendar 29 July 199 BCE

The year -198 astronomical counting style corresponds to year 199 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 199 BCE
geocentric

SEPTEMBER 199 BCE (-198) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 24 37	4♍ 8'16	25♒33	6♍39	15♎28	17♎40	22♐35	20♍22	21♏50	3♍15	7°R56	25°R24	24♌46	10♌11	n.a.	S 1
M 2	22 28 33	5° 7'23	10♓36	8°23	16°38	18°23	22°37	20°29	21°51	3°17	7♑56	25♌24	24°43	10°18	n.a.	M 2
T 3	22 32 30	6° 6'32	25°29	10° 7	17°48	19° 5	22°39	20°36	21°53	3°20	7°55	25°23	24°40	10°24	n.a.	T 3
W 4	22 36 27	7° 5'43	10♈ 3	11°49	18°58	19°48	22°41	20°43	21°54	3°22	7°55	25°21	24°37	10°31	n.a.	W 4
T 5	22 40 23	8° 4'56	24°13	13°31	20° 8	20°30	22°44	20°50	21°56	3°24	7°54	25°20	24°33	10°38	n.a.	T 5
F 6	22 44 20	9° 4'12	7♉57	15°12	21°17	21°13	22°46	20°57	21°57	3°26	7°53	25°18	24°30	10°44	n.a.	F 6
S 7	22 48 16	10° 3'31	21°13	16°52	22°27	21°56	22°49	21° 5	21°59	3°29	7°53	25°17	24°27	10°51	n.a.	S 7
S 8	22 52 13	11° 2'52	4♊ 4	18°32	23°37	22°38	22°52	21°12	22° 1	3°31	7°52	25°16	24°24	10°58	n.a.	S 8
M 9	22 56 9	12° 2'15	16°34	20°11	24°46	23°21	22°55	21°19	22° 3	3°33	7°52	25°D16	24°21	11° 4	n.a.	M 9
T 10	23 0 6	13° 1'41	28°46	21°48	25°56	24° 4	22°58	21°26	22° 4	3°35	7°52	25°17	24°18	11°11	n.a.	T 10
W11	23 4 2	14° 1'09	10♋45	23°26	27° 5	24°47	23° 2	21°33	22° 6	3°37	7°51	25°18	24°14	11°18	n.a.	W11
T 12	23 7 59	15° 0'39	22°36	25° 2	28°14	25°30	23° 6	21°40	22° 8	3°40	7°51	25°20	24°11	11°24	n.a.	T 12
F 13	23 11 55	16° 0'12	4♌23	26°38	29°24	26°14	23°10	21°48	22°10	3°42	7°51	25°21	24° 8	11°31	n.a.	F 13
S 14	23 15 52	16°59'47	16°11	28°13	0♏33	26°57	23°14	21°55	22°12	3°44	7°50	25°22	24° 5	11°38	n.a.	S 14
S 15	23 19 49	17°59'24	28° 2	29°47	1°42	27°40	23°18	22° 2	22°14	3°46	7°50	25°R23	24° 2	11°44	n.a.	S 15
M16	23 23 45	18°59'04	9♍59	1♎21	2°51	28°24	23°22	22° 9	22°16	3°48	7°50	25°22	23°58	11°51	n.a.	M16
T 17	23 27 42	19°58'46	22° 4	2°54	3°59	29° 7	23°27	22°16	22°18	3°51	7°49	25°20	23°55	11°58	n.a.	T 17
W18	23 31 38	20°58'29	4♎20	4°26	5° 8	29°51	23°32	22°24	22°20	3°53	7°49	25°16	23°52	12° 4	n.a.	W18
T 19	23 35 35	21°58'15	16°46	5°58	6°17	0♏34	23°37	22°31	22°23	3°55	7°49	25°12	23°49	12°11	n.a.	T 19
F 20	23 39 31	22°58'03	29°25	7°29	7°25	1°18	23°42	22°38	22°25	3°57	7°49	25° 7	23°46	12°17	n.a.	F 20
S 21	23 43 28	23°57'52	12♏17	8°59	8°33	2° 2	23°47	22°45	22°27	3°59	7°49	25° 3	23°43	12°24	n.a.	S 21
S 22	23 47 24	24°57'44	25°22	10°29	9°42	2°46	23°52	22°53	22°29	4° 1	7°49	24°59	23°39	12°31	n.a.	S 22
M23	23 51 21	25°57'37	8♐43	11°58	10°50	3°30	23°58	23° 0	22°32	4° 3	7°49	24°56	23°36	12°37	n.a.	M23
T 24	23 55 18	26°57'33	22°19	13°27	11°58	4°13	24° 4	23° 7	22°34	4° 5	7°49	24°D55	23°33	12°44	n.a.	T 24
W25	23 59 14	27°57'30	6♑12	14°55	13° 6	4°58	24°10	23°14	22°37	4° 8	7°D49	24°55	23°30	12°51	n.a.	W25
T 26	0 3 11	28°57'28	20°21	16°22	14°13	5°42	24°16	23°21	22°39	4°10	7°49	24°56	23°27	12°57	n.a.	T 26
F 27	0 7 7	29°57'29	4♒44	17°49	15°21	6°26	24°22	23°29	22°42	4°12	7°49	24°58	23°23	13° 4	n.a.	F 27
S 28	0 11 4	0♎57'31	19°21	19°14	16°28	7°10	24°29	23°36	22°44	4°14	7°49	24°R59	23°20	13°11	n.a.	S 28
S 29	0 15 0	1°57'35	4♓ 5	20°40	17°35	7°54	24°35	23°43	22°47	4°16	7°49	24°59	23°17	13°17	n.a.	S 29
M30	0 18 57	2♎57'40	18♓51	22♎ 4	18♏42	8♏39	24♐42	23♍50	22♏49	4♍18	7♑49	24♌57	23♌14	13♌24	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	10n 6	13s10	0s 1	10n23	1n18	7s 0	0s55	7s18	0s19	23s55	0s24	5n57	2n17	18s20	0n 7	11n42	1n22	29s10	5s42	13n12	13n25	16n39		n.a.
M 2	9 44	8 58	1 24	9 39	1 13	7 31	0 59	7 35	0 19	23 55	0 24	5 54	2 17	18 20	0 7	11 41	1 22	29 10	5 42	13 12	13 26	16 38		n.a.
T 3	9 23	4 15	2 39	8 54	1 7	8 2	1 3	7 52	0 20	23 55	0 24	5 52	2 17	18 20	0 7	11 40	1 22	29 10	5 42	13 13	13 27	16 37		n.a.
W 4	9 0	0n37	3 43	8 10	1 2	8 33	1 7	8 9	0 21	23 55	0 24	5 49	2 17	18 21	0 7	11 39	1 22	29 10	5 42	13 13	13 28	16 36		n.a.
T 5	8 38	5 18	4 32	7 25	0 56	9 3	1 11	8 26	0 21	23 55	0 24	5 46	2 17	18 21	0 7	11 39	1 22	29 10	5 42	13 14	13 29	16 35		n.a.
F 6	8 16	9 33	5 3	6 40	0 50	9 33	1 15	8 43	0 22	23 55	0 24	5 43	2 17	18 22	0 7	11 38	1 22	29 10	5 42	13 14	13 30	16 34		n.a.
S 7	7 53	13 11	5 16	5 55	0 44	10 3	1 19	8 59	0 23	23 56	0 25	5 40	2 17	18 22	0 7	11 37	1 22	29 10	5 42	13 15	13 31	16 33		n.a.
S 8	7 30	16 5	5 13	5 10	0 38	10 33	1 23	9 16	0 24	23 56	0 25	5 37	2 17	18 23	0 7	11 36	1 22	29 10	5 42	13 15	13 33	16 32		n.a.
M 9	7 8	18 8	4 55	4 25	0 31	11 3	1 27	9 33	0 24	23 56	0 25	5 34	2 17	18 23	0 7	11 35	1 22	29 10	5 41	13 15	13 34	16 31		n.a.
T 10	6 45	19 18	4 25	3 40	0 25	11 32	1 30	9 50	0 25	23 56	0 25	5 32	2 17	18 24	0 7	11 35	1 22	29 10	5 41	13 15	13 35	16 30		n.a.
W11	6 21	19 35	3 43	2 55	0 18	12 1	1 34	10 6	0 26	23 57	0 25	5 29	2 17	18 24	0 7	11 34	1 22	29 10	5 41	13 14	13 36	16 29		n.a.
T 12	5 58	18 59	2 52	2 10	0 12	12 30	1 38	10 23	0 26	23 57	0 25	5 26	2 17	18 25	0 6	11 33	1 22	29 9	5 41	13 14	13 37	16 28		n.a.
F 13	5 35	17 33	1 53	1 26	0 5	12 58	1 42	10 39	0 27	23 57	0 25	5 23	2 17	18 25	0 6	11 32	1 22	29 9	5 41	13 13	13 38	16 27		n.a.
S 14	5 12	15 22	0 51	0 41	0s 2	13 27	1 46	10 56	0 28	23 57	0 25	5 20	2 17	18 26	0 6	11 31	1 22	29 9	5 41	13 13	13 39	16 26		n.a.
S 15	4 48	12 32	0n15	0s 3	0 9	13 55	1 50	11 12	0 28	23 58	0 25	5 17	2 17	18 26	0 6	11 31	1 22	29 9	5 41	13 13	13 40	16 25		n.a.
M16	4 24	9 9	1 20	0 47	0 16	14 22	1 53	11 29	0 29	23 58	0 25	5 14	2 17	18 27	0 6	11 30	1 22	29 9	5 41	13 13	13 41	16 24		n.a.
T 17	4 1	5 21	2 22	1 31	0 23	14 50	1 57	11 45	0 30	23 58	0 25	5 11	2 17	18 27	0 6	11 29	1 22	29 9	5 41	13 14	13 42	16 23		n.a.
W18	3 37	1 17	3 18	2 14	0 29	15 17	2 1	12 1	0 30	23 58	0 25	5 9	2 17	18 28	0 6	11 28	1 22	29 9	5 41	13 15	13 43	16 22		n.a.
T 19	3 13	2s53	4 6	2 57	0 36	15 43	2 5	12 17	0 31	23 59	0 25	5 6	2 17	18 28	0 6	11 28	1 22	29 9	5 41	13 16	13 44	16 21		n.a.
F 20	2 49	7 0	4 42	3 40	0 43	16 10	2 8	12 33	0 32	23 59	0 25	5 3	2 17	18 29	0 6	11 27	1 22	29 9	5 41	13 18	13 45	16 20		n.a.
S 21	2 25	10 51	5 5	4 22	0 50	16 36	2 12	12 49	0 32	23 59	0 25	5 0	2 17	18 30	0 6	11 26	1 22	29 9	5 41	13 19	13 46	16 19		n.a.
S 22	2 1	14 16	5 13	5 4	0 57	17 1	2 15	13 5	0 33	24 0	0 25	4 57	2 17	18 30	0 6	11 25	1 22	29 9	5 40	13 21	13 47	16 17		n.a.
M23	1 37	17 0	5 4	5 46	1 4	17 27	2 19	13 21	0 34	24 0	0 25	4 54	2 17	18 31	0 6	11 24	1 22	29 9	5 40	13 22	13 48	16 16		n.a.
T 24	1 13	18 52	4 38	6 27	1 10	17 51	2 22	13 37	0 34	24 0	0 25	4 51	2 17	18 32	0 6	11 24	1 22	29 9	5 40	13 22	13 50	16 15		n.a.
W25	0 49	19 39	3 56	7 7	1 17	18 16	2 26	13 52	0 35	24 1	0 25	4 48	2 17	18 32	0 6	11 23	1 22	29 9	5 40	13 22	13 51	16 14		n.a.
T 26	0 25	19 13	2 58	7 47	1 23	18 40	2 29	14 8	0 35	24 1	0 25	4 46	2 17	18 33	0 6	11 22	1 22	29 9	5 40	13 22	13 52	16 13		n.a.
F 27	0 1	17 33	1 48	8 27	1 30	19 3	2 33	14 23	0 36	24 1	0 26	4 43	2 17	18 33	0 6	11 21	1 22	29 8	5 40	13 21	13 53	16 12		n.a.
S 28	0s23	14 42	0 31	9 6	1 36	19 26	2 36	14 38	0 37	24 2	0 26	4 40	2 17	18 34	0 6	11 21	1 22	29 8	5 40	13 21	13 54	16 11		n.a.
S 29	0 47	10 54	0s49	9 44	1 42	19 49	2 39	14 54	0 37	24 2	0 26	4 37	2 17	18 35	0 6	11 20	1 22	29 8	5 40	13 21	13 55	16 10		n.a.
M30	1s11	6s24	2s 6	10s21	1s48	20s11	2s42	15s 9	0s38	24s 2	0s26	4n34	2n17	18s36	0n 6	11n19	1n22	29s 8	5s40	13n21	13n56	16n 9		n.a.

Julian Day Number = 1648981.5, Delta T = 03h32m06s
Ecliptic obliquity = 23°43'02, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'24, Lahiri = - 6°41'24 Julian Calendar 1 Sept. 199 BCE == Greg. Calendar 29 Aug. 199 BCE

The year -198 astronomical counting style corresponds to year 199 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 199 BCE
geocentric

OCTOBER 199 BCE (-198) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 22 53	3♎57'47	3♈32	23♎28	19♏49	9♏23	24♐49	23♍57	22♏52	4♍20	7♉49	24°R53	23♌11	13♌31	n.a.	T 1
W 2	0 26 50	4°57'57	18° 1	24°50	20°56	10° 8	24°56	24° 4	22°55	4°22	7°49	24♌47	23° 8	13°37	n.a.	W 2
T 3	0 30 46	5°58'08	2♉10	26°12	22° 2	10°52	25° 3	24°12	22°58	4°24	7°49	24°41	23° 4	13°44	n.a.	T 3
F 4	0 34 43	6°58'21	15°57	27°33	23° 9	11°37	25°11	24°19	23° 0	4°26	7°50	24°34	23° 1	13°51	n.a.	F 4
S 5	0 38 40	7°58'37	29°17	28°53	24°15	12°21	25°18	24°26	23° 3	4°28	7°50	24°27	22°58	13°57	n.a.	S 5
S 6	0 42 36	8°58'55	12♊13	0♏11	25°21	13° 6	25°26	24°33	23° 6	4°30	7°50	24°22	22°55	14° 4	n.a.	S 6
M 7	0 46 33	9°59'14	24°46	1°29	26°27	13°51	25°34	24°40	23° 9	4°32	7°51	24°19	22°52	14°10	n.a.	M 7
T 8	0 50 29	10°59'36	7♋ 0	2°44	27°32	14°36	25°42	24°47	23°12	4°33	7°51	24°D17	22°49	14°17	n.a.	T 8
W 9	0 54 26	12° 0'00	18°59	3°59	28°38	15°21	25°50	24°54	23°15	4°35	7°51	24°17	22°45	14°24	n.a.	W 9
T 10	0 58 22	13° 0'26	0♌50	5°11	29°43	16° 6	25°58	25° 1	23°18	4°37	7°52	24°19	22°42	14°30	n.a.	T 10
F 11	1 2 19	14° 0'54	12°37	6°22	0♐48	16°51	26° 7	25° 8	23°21	4°39	7°52	24°20	22°39	14°37	n.a.	F 11
S 12	1 6 15	15° 1'24	24°26	7°30	1°52	17°36	26°15	25°15	23°24	4°41	7°53	24°R21	22°36	14°44	n.a.	S 12
S 13	1 10 12	16° 1'55	6♍20	8°36	2°57	18°21	26°24	25°22	23°27	4°43	7°53	24°20	22°33	14°50	n.a.	S 13
M14	1 14 9	17° 2'29	18°24	9°39	4° 1	19° 6	26°33	25°29	23°30	4°44	7°54	24°17	22°29	14°57	n.a.	M14
T 15	1 18 5	18° 3'04	0♎41	10°39	5° 5	19°52	26°42	25°36	23°33	4°46	7°54	24°11	22°26	15° 4	n.a.	T 15
W16	1 22 2	19° 3'41	13°12	11°36	6° 9	20°37	26°51	25°42	23°36	4°48	7°55	24° 3	22°23	15°10	n.a.	W16
T 17	1 25 58	20° 4'20	25°58	12°29	7°12	21°22	27° 0	25°49	23°39	4°50	7°55	23°54	22°20	15°17	n.a.	T 17
F 18	1 29 55	21° 5'00	8♏59	13°17	8°15	22° 8	27° 9	25°56	23°43	4°51	7°56	23°43	22°17	15°24	n.a.	F 18
S 19	1 33 51	22° 5'42	22°13	14° 0	9°18	22°53	27°19	26° 3	23°46	4°53	7°57	23°32	22°14	15°30	n.a.	S 19
S 20	1 37 48	23° 6'26	5♐39	14°37	10°21	23°39	27°28	26°10	23°49	4°55	7°57	23°23	22°10	15°37	n.a.	S 20
M21	1 41 44	24° 7'10	19°16	15° 8	11°23	24°25	27°38	26°16	23°52	4°56	7°58	23°16	22° 7	15°44	n.a.	M21
T 22	1 45 41	25° 7'56	3♑ 1	15°32	12°25	25°10	27°48	26°23	23°56	4°58	7°59	23°11	22° 4	15°50	n.a.	T 22
W23	1 49 38	26° 8'43	16°54	15°48	13°26	25°56	27°58	26°29	23°59	4°59	8° 0	23° 9	22° 1	15°57	n.a.	W23
T 24	1 53 34	27° 9'31	0♒55	15°R55	14°28	26°42	28° 8	26°36	24° 2	5° 1	8° 1	23°D 9	21°58	16° 3	n.a.	T 24
F 25	1 57 31	28°10'20	15° 3	15°53	15°28	27°28	28°18	26°43	24° 6	5° 2	8° 1	23° 9	21°54	16°10	n.a.	F 25
S 26	2 1 27	29°11'10	29°16	15°41	16°29	28°13	28°29	26°49	24° 9	5° 4	8° 2	23°R 9	21°51	16°17	n.a.	S 26
S 27	2 5 24	0♏12'01	13♓34	15°18	17°29	28°59	28°39	26°56	24°12	5° 5	8° 3	23° 8	21°48	16°23	n.a.	S 27
M28	2 9 20	1°12'54	27°54	14°45	18°28	29°45	28°49	27° 2	24°16	5° 7	8° 4	23° 3	21°45	16°30	n.a.	M28
T 29	2 13 17	2°13'47	12♈10	14° 0	19°27	0♐31	29° 0	27° 8	24°19	5° 8	8° 5	22°56	21°42	16°37	n.a.	T 29
W30	2 17 13	3°14'41	26°18	13° 6	20°26	1°17	29°11	27°15	24°23	5°10	8° 6	22°47	21°39	16°43	n.a.	W30
T 31	2 21 10	4♏15'37	10♉13	12♏ 1	21♐24	2♐ 3	29♐22	27♍21	24♏26	5♍11	8♉ 7	22♌35	21♌35	16♌50	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	1s36	1s33	3s14	10s58	1s54	20s33	2s45	15s24	0s38	24s 3	0s26	4n31	2n17	18s36	0n 6	11n19	1n22	29s 8	5s40	13n23	13n57	16n 8			n.a.
W 2	2 0	3n19	4 9	11 34	1 59	20 54	2 48	15 38	0 39	24 3	0 26	4 29	2 17	18 37	0 6	11 18	1 22	29 8	5 40	13 25	13 58	16 7			n.a.
T 3	2 24	7 53	4 46	12 10	2 5	21 14	2 51	15 53	0 40	24 3	0 26	4 26	2 17	18 38	0 6	11 17	1 22	29 8	5 40	13 27	13 59	16 6			n.a.
F 4	2 48	11 55	5 6	12 44	2 10	21 35	2 54	16 8	0 40	24 4	0 26	4 23	2 17	18 38	0 6	11 17	1 22	29 8	5 39	13 29	14 0	16 5			n.a.
S 5	3 12	15 13	5 9	13 18	2 15	21 54	2 57	16 22	0 41	24 4	0 26	4 20	2 18	18 39	0 6	11 16	1 22	29 8	5 39	13 31	14 1	16 4			n.a.
S 6	3 36	17 39	4 55	13 50	2 19	22 13	2 59	16 37	0 41	24 4	0 26	4 17	2 18	18 40	0 6	11 15	1 23	29 8	5 39	13 33	14 2	16 2			n.a.
M 7	4 0	19 10	4 27	14 22	2 24	22 32	3 2	16 51	0 42	24 4	0 26	4 15	2 18	18 41	0 6	11 14	1 23	29 7	5 39	13 34	14 3	16 1			n.a.
T 8	4 24	19 44	3 48	14 52	2 28	22 50	3 4	17 5	0 42	24 5	0 26	4 12	2 18	18 41	0 6	11 14	1 23	29 7	5 39	13 35	14 4	16 0			n.a.
W 9	4 48	19 24	2 59	15 21	2 31	23 7	3 7	17 19	0 43	24 5	0 26	4 9	2 18	18 42	0 6	11 13	1 23	29 7	5 39	13 35	14 5	15 59			n.a.
T 10	5 12	18 12	2 4	15 49	2 34	23 24	3 9	17 32	0 44	24 5	0 26	4 6	2 18	18 43	0 6	11 12	1 23	29 7	5 39	13 34	14 6	15 58			n.a.
F 11	5 35	16 13	1 3	16 16	2 37	23 40	3 11	17 46	0 44	24 6	0 26	4 4	2 18	18 44	0 6	11 12	1 23	29 7	5 39	13 34	14 7	15 57			n.a.
S 12	5 59	13 32	0n 0	16 41	2 39	23 56	3 13	18 0	0 45	24 6	0 26	4 1	2 18	18 44	0 6	11 11	1 23	29 7	5 39	13 34	14 9	15 56			n.a.
S 13	6 23	10 17	1 4	17 4	2 41	24 11	3 15	18 13	0 45	24 6	0 26	3 58	2 18	18 45	0 6	11 11	1 23	29 7	5 39	13 34	14 10	15 55			n.a.
M14	6 46	6 34	2 6	17 26	2 42	24 25	3 17	18 26	0 46	24 7	0 26	3 56	2 18	18 46	0 6	11 10	1 23	29 7	5 39	13 35	14 11	15 54			n.a.
T 15	7 10	2 31	3 3	17 46	2 43	24 39	3 19	18 39	0 46	24 7	0 26	3 53	2 18	18 47	0 6	11 9	1 23	29 7	5 39	13 37	14 12	15 52			n.a.
W16	7 33	1s43	3 51	18 3	2 42	24 52	3 21	18 52	0 47	24 7	0 26	3 50	2 19	18 48	0 6	11 9	1 23	29 6	5 38	13 39	14 13	15 51			n.a.
T 17	7 56	5 58	4 30	18 19	2 41	25 5	3 22	19 4	0 47	24 7	0 26	3 48	2 19	18 48	0 6	11 8	1 23	29 6	5 38	13 43	14 14	15 50			n.a.
F 18	8 19	10 0	4 55	18 32	2 39	25 17	3 23	19 17	0 48	24 8	0 26	3 45	2 19	18 49	0 6	11 8	1 23	29 6	5 38	13 46	14 15	15 49			n.a.
S 19	8 42	13 38	5 4	18 43	2 37	25 28	3 25	19 29	0 48	24 8	0 26	3 42	2 19	18 50	0 6	11 7	1 23	29 6	5 38	13 50	14 16	15 48			n.a.
S 20	9 5	16 37	4 58	18 50	2 33	25 39	3 26	19 41	0 49	24 8	0 27	3 40	2 19	18 51	0 6	11 6	1 23	29 6	5 38	13 53	14 17	15 47			n.a.
M21	9 28	18 43	4 34	18 55	2 28	25 49	3 27	19 53	0 49	24 8	0 27	3 37	2 19	18 52	0 6	11 6	1 23	29 6	5 38	13 55	14 18	15 46			n.a.
T 22	9 50	19 46	3 55	18 56	2 21	25 59	3 28	20 5	0 50	24 9	0 27	3 35	2 19	18 53	0 6	11 5	1 23	29 6	5 38	13 57	14 19	15 44			n.a.
W23	10 13	19 39	3 1	18 53	2 14	26 7	3 28	20 16	0 50	24 9	0 27	3 32	2 19	18 53	0 6	11 5	1 23	29 6	5 38	13 58	14 20	15 43			n.a.
T 24	10 35	18 18	1 56	18 47	2 5	26 15	3 29	20 28	0 51	24 9	0 27	3 30	2 19	18 54	0 6	11 4	1 23	29 5	5 38	13 58	14 21	15 42			n.a.
F 25	10 57	15 49	0 43	18 36	1 54	26 23	3 29	20 39	0 51	24 9	0 27	3 27	2 20	18 55	0 6	11 4	1 23	29 5	5 38	13 57	14 22	15 41			n.a.
S 26	11 19	12 22	0s33	18 21	1 42	26 30	3 30	20 50	0 52	24 9	0 27	3 25	2 20	18 56	0 6	11 3	1 23	29 5	5 38	13 57	14 23	15 40			n.a.
S 27	11 40	8 10	1 47	18 1	1 28	26 36	3 30	21 1	0 52	24 9	0 27	3 22	2 20	18 57	0 6	11 3	1 23	29 5	5 38	13 58	14 24	15 39			n.a.
M28	12 2	3 30	2 54	17 36	1 13	26 41	3 30	21 11	0 52	24 10	0 27	3 20	2 20	18 58	0 6	11 2	1 23	29 5	5 38	13 59	14 25	15 37			n.a.
T 29	12 23	1n21	3 50	17 7	0 56	26 46	3 29	21 21	0 53	24 10	0 27	3 17	2 20	18 59	0 6	11 2	1 23	29 5	5 37	14 2	14 26	15 36			n.a.
W30	12 44	6 4	4 31	16 33	0 37	26 50	3 29	21 32	0 53	24 10	0 27	3 15	2 20	18 59	0 6	11 1	1 24	29 5	5 37	14 5	14 27	15 35			n.a.
T 31	13s 5	10n23	4s55	15s54	0s18	26s54	3s28	21s41	0s54	24s10	0s27	3n13	2n20	19s 0	0n 6	11n 1	1n24	29s 5	5s37	14n 9	14n28	15n34			n.a.

Julian Day Number = 1649011.5, Delta T = 03h32m05s
Ecliptic obliquity = 23°43'03, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'20, Lahiri = - 6°41'20 Julian Calendar 1 Oct. 199 BCE == Greg. Calendar 28 Sept. 199 BCE

The year -198 astronomical counting style corresponds to year 199 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 199 BCE
geocentric

NOVEMBER 199 BCE (-198) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 25 6	5♏16'33	23♉50	10°R49	22♐22	2♐50	29♐33	27♍27	24♏30	5♍12	8♑ 8	22°R23	21♌32	16♌57	n.a.	F 1
S 2	2 29 3	6°17'31	7♊ 6	9♏31	23°19	3°36	29°44	27°33	24°33	5°14	8° 9	22♌11	21°29	17° 3	n.a.	S 2
S 3	2 33 0	7°18'31	20° 1	8° 9	24°16	4°22	29°55	27°39	24°37	5°15	8°10	22° 1	21°26	17°10	n.a.	S 3
M 4	2 36 56	8°19'31	2♋34	6°46	25°12	5° 8	0♑ 6	27°45	24°40	5°16	8°11	21°53	21°23	17°17	n.a.	M 4
T 5	2 40 53	9°20'33	14°49	5°25	26° 8	5°55	0°17	27°52	24°44	5°17	8°12	21°48	21°20	17°23	n.a.	T 5
W 6	2 44 49	10°21'36	26°50	4° 9	27° 3	6°41	0°29	27°57	24°47	5°19	8°13	21°45	21°16	17°30	n.a.	W 6
T 7	2 48 46	11°22'41	8♌41	3° 0	27°57	7°27	0°40	28° 3	24°51	5°20	8°14	21°D45	21°13	17°36	n.a.	T 7
F 8	2 52 42	12°23'46	20°28	2° 0	28°51	8°14	0°52	28° 9	24°55	5°21	8°16	21°R45	21°10	17°43	n.a.	F 8
S 9	2 56 39	13°24'52	2♍17	1°10	29°44	9° 0	1° 4	28°15	24°58	5°22	8°17	21°44	21° 7	17°50	n.a.	S 9
S 10	3 0 36	14°26'00	14°14	0°31	0♑36	9°47	1°16	28°21	25° 2	5°23	8°18	21°43	21° 4	17°56	n.a.	S 10
M11	3 4 32	15°27'09	26°22	0° 3	1°28	10°33	1°27	28°26	25° 5	5°24	8°19	21°38	21° 0	18° 3	n.a.	M11
T 12	3 8 29	16°28'18	8♎47	29♎47	2°19	11°20	1°39	28°32	25° 9	5°25	8°20	21°31	20°57	18°10	n.a.	T 12
W13	3 12 25	17°29'29	21°30	29°D41	3° 9	12° 7	1°51	28°38	25°13	5°26	8°22	21°21	20°54	18°16	n.a.	W13
T 14	3 16 22	18°30'40	4♏33	29°46	3°58	12°53	2° 4	28°43	25°16	5°27	8°23	21° 9	20°51	18°23	n.a.	T 14
F 15	3 20 18	19°31'52	17°56	29°59	4°47	13°40	2°16	28°49	25°20	5°28	8°24	20°56	20°48	18°30	n.a.	F 15
S 16	3 24 15	20°33'05	1♐36	0♏22	5°34	14°27	2°28	28°54	25°23	5°29	8°26	20°42	20°45	18°36	n.a.	S 16
S 17	3 28 11	21°34'18	15°29	0°53	6°21	15°13	2°41	28°59	25°27	5°30	8°27	20°30	20°41	18°43	n.a.	S 17
M18	3 32 8	22°35'32	29°31	1°30	7° 7	16° 0	2°53	29° 5	25°31	5°30	8°28	20°21	20°38	18°50	n.a.	M18
T 19	3 36 5	23°36'46	13♑38	2°14	7°52	16°47	3° 6	29°10	25°34	5°31	8°30	20°14	20°35	18°56	n.a.	T 19
W20	3 40 1	24°38'01	27°46	3° 3	8°36	17°34	3°18	29°15	25°38	5°32	8°31	20°11	20°32	19° 3	n.a.	W20
T 21	3 43 58	25°39'15	11♒54	3°56	9°18	18°21	3°31	29°20	25°42	5°33	8°33	20°10	20°29	19°10	n.a.	T 21
F 22	3 47 54	26°40'30	25°59	4°55	10° 0	19° 8	3°44	29°25	25°45	5°33	8°34	20° 9	20°26	19°16	n.a.	F 22
S 23	3 51 51	27°41'44	10♓ 2	5°56	10°40	19°55	3°56	29°30	25°49	5°34	8°36	20° 9	20°22	19°23	n.a.	S 23
S 24	3 55 47	28°42'58	24° 1	7° 2	11°19	20°42	4° 9	29°35	25°53	5°35	8°37	20° 7	20°19	19°29	n.a.	S 24
M25	3 59 44	29°44'13	7♈55	8°10	11°57	21°29	4°22	29°39	25°56	5°35	8°39	20° 3	20°16	19°36	n.a.	M25
T 26	4 3 40	0♐45'27	21°44	9°20	12°34	22°16	4°35	29°44	26° 0	5°36	8°40	19°55	20°13	19°43	n.a.	T 26
W27	4 7 37	1°46'41	5♉25	10°33	13° 9	23° 3	4°48	29°49	26° 4	5°36	8°42	19°45	20°10	19°49	n.a.	W27
T 28	4 11 34	2°47'56	18°55	11°48	13°42	23°50	5° 1	29°53	26° 7	5°37	8°43	19°33	20° 6	19°56	n.a.	T 28
F 29	4 15 30	3°49'10	2♊12	13° 5	14°15	24°37	5°14	29°57	26°11	5°37	8°45	19°19	20° 3	20° 3	n.a.	F 29
S 30	4 19 27	4♐50'25	15♊13	14♏23	14♑45	25♐24	5♑28	0♎ 2	26♏14	5♍37	8♑46	19♌ 7	20♌ 0	20♌ 9	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13s26	14n 5	5s 2	15s12	0n 2	26s57	3s28	21s51	0s54	24s10	0s27	3n10	2n21	19s 1	0n 6	11n 0	1n24	29s 4	5s37	14n13	14n29	15n33		n.a.
S 2	13 46	16 57	4 52	14 28	0 23	26 59	3 27	22 1	0 55	24 10	0 27	3 8	2 21	19 2	0 6	11 0	1 24	29 4	5 37	14 17	14 30	15 32		n.a.
S 3	14 7	18 54	4 27	13 42	0 43	27 1	3 26	22 10	0 55	24 10	0 27	3 6	2 21	19 3	0 6	10 59	1 24	29 4	5 37	14 20	14 31	15 30		n.a.
M 4	14 27	19 52	3 50	12 56	1 3	27 2	3 24	22 19	0 55	24 10	0 27	3 3	2 21	19 4	0 6	10 59	1 24	29 4	5 37	14 23	14 32	15 29		n.a.
T 5	14 46	19 51	3 3	12 12	1 22	27 2	3 23	22 27	0 56	24 10	0 27	3 1	2 21	19 5	0 6	10 59	1 24	29 4	5 37	14 24	14 33	15 28		n.a.
W 6	15 6	18 56	2 8	11 30	1 39	27 2	3 21	22 36	0 56	24 10	0 27	2 59	2 21	19 6	0 6	10 58	1 24	29 4	5 37	14 25	14 34	15 27		n.a.
T 7	15 25	17 12	1 9	10 51	1 55	27 1	3 19	22 44	0 57	24 10	0 27	2 56	2 22	19 6	0 6	10 58	1 24	29 4	5 37	14 25	14 35	15 26		n.a.
F 8	15 44	14 44	0 7	10 18	2 8	26 59	3 17	22 52	0 57	24 10	0 27	2 54	2 22	19 7	0 6	10 57	1 24	29 4	5 37	14 25	14 37	15 24		n.a.
S 9	16 3	11 39	0n56	9 50	2 19	26 57	3 14	23 0	0 57	24 10	0 27	2 52	2 22	19 8	0 6	10 57	1 24	29 3	5 37	14 25	14 38	15 23		n.a.
S 10	16 21	8 4	1 56	9 28	2 29	26 55	3 12	23 7	0 58	24 10	0 28	2 50	2 22	19 9	0 6	10 57	1 24	29 3	5 37	14 26	14 39	15 22		n.a.
M11	16 39	4 5	2 52	9 12	2 36	26 51	3 9	23 15	0 58	24 10	0 28	2 48	2 22	19 10	0 6	10 56	1 24	29 3	5 37	14 27	14 40	15 21		n.a.
T 12	16 57	0s 8	3 42	9 1	2 41	26 48	3 6	23 22	0 58	24 10	0 28	2 46	2 22	19 11	0 6	10 56	1 24	29 3	5 37	14 30	14 41	15 19		n.a.
W13	17 15	4 27	4 21	8 56	2 44	26 43	3 3	23 28	0 59	24 10	0 28	2 44	2 23	19 12	0 6	10 56	1 24	29 3	5 37	14 33	14 42	15 18		n.a.
T 14	17 32	8 40	4 48	8 56	2 45	26 38	2 59	23 35	0 59	24 10	0 28	2 42	2 23	19 13	0 6	10 56	1 24	29 3	5 37	14 37	14 43	15 17		n.a.
F 15	17 49	12 35	5 0	9 1	2 45	26 33	2 55	23 41	0 59	24 10	0 28	2 40	2 23	19 14	0 6	10 55	1 24	29 3	5 36	14 41	14 44	15 16		n.a.
S 16	18 6	15 54	4 55	9 10	2 44	26 27	2 51	23 47	1 0	24 9	0 28	2 38	2 23	19 14	0 6	10 55	1 24	29 2	5 36	14 45	14 45	15 15		n.a.
S 17	18 22	18 24	4 33	9 23	2 42	26 20	2 47	23 53	1 0	24 9	0 28	2 36	2 23	19 15	0 6	10 55	1 24	29 2	5 36	14 49	14 46	15 13		n.a.
M18	18 38	19 49	3 54	9 39	2 39	26 13	2 42	23 58	1 0	24 9	0 28	2 34	2 24	19 16	0 6	10 54	1 25	29 2	5 36	14 52	14 47	15 12		n.a.
T 19	18 54	20 1	3 0	9 58	2 35	26 6	2 37	24 3	1 1	24 9	0 28	2 32	2 24	19 17	0 6	10 54	1 25	29 2	5 36	14 54	14 48	15 11		n.a.
W20	19 9	18 58	1 55	10 19	2 30	25 58	2 32	24 8	1 1	24 9	0 28	2 30	2 24	19 18	0 6	10 54	1 25	29 2	5 36	14 56	14 49	15 10		n.a.
T 21	19 24	16 43	0 44	10 43	2 25	25 49	2 27	24 13	1 1	24 8	0 28	2 28	2 24	19 19	0 6	10 54	1 25	29 2	5 36	14 56	14 50	15 8		n.a.
F 22	19 38	13 29	0s31	11 8	2 19	25 41	2 21	24 17	1 1	24 8	0 28	2 26	2 24	19 20	0 6	10 54	1 25	29 2	5 36	14 56	14 51	15 7		n.a.
S 23	19 52	9 29	1 43	11 34	2 13	25 31	2 15	24 21	1 2	24 8	0 28	2 25	2 25	19 21	0 6	10 53	1 25	29 2	5 36	14 56	14 52	15 6		n.a.
S 24	20 6	4 59	2 49	12 2	2 6	25 22	2 8	24 25	1 2	24 7	0 28	2 23	2 25	19 21	0 6	10 53	1 25	29 1	5 36	14 57	14 53	15 4		n.a.
M25	20 20	0 15	3 44	12 31	1 59	25 12	2 2	24 28	1 2	24 7	0 28	2 21	2 25	19 22	0 6	10 53	1 25	29 1	5 36	14 58	14 54	15 3		n.a.
T 26	20 33	4n28	4 26	13 0	1 52	25 1	1 55	24 32	1 2	24 7	0 28	2 19	2 25	19 23	0 6	10 53	1 25	29 1	5 36	15 1	14 55	15 2		n.a.
W27	20 45	8 54	4 52	13 31	1 44	24 50	1 47	24 35	1 3	24 6	0 28	2 18	2 26	19 24	0 6	10 53	1 25	29 1	5 36	15 4	14 56	15 1		n.a.
T 28	20 58	12 50	5 1	14 1	1 37	24 39	1 40	24 37	1 3	24 6	0 29	2 16	2 26	19 25	0 6	10 53	1 25	29 1	5 36	15 8	14 57	14 59		n.a.
F 29	21 10	16 3	4 54	14 32	1 29	24 28	1 32	24 40	1 3	24 5	0 29	2 15	2 26	19 26	0 6	10 53	1 25	29 1	5 36	15 12	14 58	14 58		n.a.
S 30	21s21	18n24	4s31	15s 3	1n22	24s16	1s23	24s42	1s 3	24s 5	0s29	2n13	2n26	19s27	0n 6	10n52	1n25	29s 1	5s36	15n16	14n59	14n57		n.a.

Julian Day Number = 1649042.5, Delta T = 03h32m04s
Ecliptic obliquity = 23°43'02, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'16, Lahiri = - 6°41'16 Julian Calendar 1 Nov. 199 BCE == Greg. Calendar 29 Oct. 199 BCE

The year -198 astronomical counting style corresponds to year 199 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 199 BCE
geocentric

DECEMBER 199 BCE (-198) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 23 23	5♐51'40	27♊57	15♏43	15♑14	26♐11	5♑41	0♎ 6	26♏18	5♍38	8♑48	18°R55	19♌57	20♌16	n.a.	S 1
M 2	4 27 20	6°52'54	10♋24	17° 4	15°42	26°58	5°54	0°10	26°22	5°38	8°50	18♌47	19°54	20°23	n.a.	M 2
T 3	4 31 16	7°54'09	22°36	18°26	16° 7	27°46	6° 8	0°14	26°25	5°38	8°51	18°41	19°51	20°29	n.a.	T 3
W 4	4 35 13	8°55'24	4♌36	19°49	16°31	28°33	6°21	0°18	26°29	5°39	8°53	18°38	19°47	20°36	n.a.	W 4
T 5	4 39 9	9°56'39	16°27	21°13	16°53	29°20	6°35	0°22	26°32	5°39	8°55	18°D37	19°44	20°43	n.a.	T 5
F 6	4 43 6	10°57'54	28°14	22°38	17°13	0♑ 7	6°48	0°26	26°36	5°39	8°56	18°37	19°41	20°49	n.a.	F 6
S 7	4 47 3	11°59'09	10♍ 3	24° 4	17°31	0°55	7° 2	0°30	26°40	5°39	8°58	18°R37	19°38	20°56	n.a.	S 7
S 8	4 50 59	13° 0'24	21°58	25°30	17°46	1°42	7°15	0°34	26°43	5°39	9° 0	18°37	19°35	21° 2	n.a.	S 8
M 9	4 54 56	14° 1'39	4♎ 7	26°57	18° 0	2°29	7°29	0°37	26°47	5°40	9° 1	18°35	19°31	21° 9	n.a.	M 9
T 10	4 58 52	15° 2'54	16°33	28°25	18°12	3°16	7°43	0°41	26°50	5°40	9° 3	18°30	19°28	21°16	n.a.	T 10
W11	5 2 49	16° 4'09	29°20	29°53	18°21	4° 4	7°57	0°44	26°54	5°R40	9° 5	18°23	19°25	21°22	n.a.	W11
T 12	5 6 45	17° 5'23	12♏31	1♐22	18°28	4°51	8°10	0°48	26°57	5°40	9° 7	18°14	19°22	21°29	n.a.	T 12
F 13	5 10 42	18° 6'38	26° 7	2°51	18°33	5°38	8°24	0°51	27° 1	5°40	9° 8	18° 4	19°19	21°36	n.a.	F 13
S 14	5 14 39	19° 7'52	10♐ 6	4°21	18°R35	6°26	8°38	0°54	27° 4	5°40	9°10	17°53	19°16	21°42	n.a.	S 14
S 15	5 18 35	20° 9'05	24°22	5°52	18°35	7°13	8°52	0°57	27° 8	5°39	9°12	17°44	19°12	21°49	n.a.	S 15
M16	5 22 32	21°10'18	8♑51	7°23	18°32	8° 1	9° 6	1° 0	27°11	5°39	9°14	17°36	19° 9	21°56	n.a.	M16
T 17	5 26 28	22°11'30	23°26	8°54	18°27	8°48	9°20	1° 3	27°14	5°39	9°16	17°31	19° 6	22° 2	n.a.	T 17
W18	5 30 25	23°12'42	8♒ 0	10°26	18°19	9°35	9°34	1° 6	27°18	5°39	9°17	17°29	19° 3	22° 9	n.a.	W18
T 19	5 34 21	24°13'52	22°28	11°59	18° 9	10°23	9°48	1° 8	27°21	5°39	9°19	17°D28	19° 0	22°16	n.a.	T 19
F 20	5 38 18	25°15'02	6♓47	13°32	17°56	11°10	10° 2	1°11	27°25	5°38	9°21	17°29	18°57	22°22	n.a.	F 20
S 21	5 42 14	26°16'10	20°54	15° 6	17°41	11°58	10°16	1°13	27°28	5°38	9°23	17°R30	18°53	22°29	n.a.	S 21
S 22	5 46 11	27°17'17	4♈48	16°40	17°23	12°45	10°30	1°16	27°31	5°38	9°25	17°30	18°50	22°36	n.a.	S 22
M23	5 50 8	28°18'23	18°30	18°15	17° 3	13°32	10°44	1°18	27°34	5°37	9°26	17°28	18°47	22°42	n.a.	M23
T 24	5 54 4	29°19'28	2♉ 0	19°50	16°41	14°20	10°59	1°20	27°38	5°37	9°28	17°24	18°44	22°49	n.a.	T 24
W25	5 58 1	0♑20'32	15°17	21°26	16°16	15° 7	11°13	1°22	27°41	5°36	9°30	17°18	18°41	22°55	n.a.	W25
T 26	6 1 57	1°21'34	28°22	23° 3	15°49	15°55	11°27	1°24	27°44	5°36	9°32	17°10	18°37	23° 2	n.a.	T 26
F 27	6 5 54	2°22'36	11♊15	24°40	15°20	16°42	11°41	1°26	27°47	5°35	9°34	17° 1	18°34	23° 9	n.a.	F 27
S 28	6 9 50	3°23'36	23°55	26°18	14°50	17°29	11°55	1°28	27°50	5°35	9°36	16°53	18°31	23°15	n.a.	S 28
S 29	6 13 47	4°24'35	6♋23	27°56	14°17	18°17	12°10	1°29	27°54	5°34	9°38	16°46	18°28	23°22	n.a.	S 29
M30	6 17 43	5°25'34	18°38	29°35	13°44	19° 4	12°24	1°31	27°57	5°34	9°39	16°40	18°25	23°29	n.a.	M30
T 31	6 21 40	6♑26'31	0♌43	1♑15	13♑ 9	19♑52	12♑38	1♎33	28♏ 0	5♍33	9♑41	16♌37	18♌22	23♌35	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	21s32	19n47	3s55	15s33	1n14	24s 4	1s15	24s43	1s 4	24s 4	0s29	2n12	2n26	19s28	0n 6	10n52	1n25	29s 0	5s36	15n19	15n 0	14n56			n.a.
M 2	21 43	20 11	3 8	16 4	1 6	23 52	1 6	24 45	1 4	24 4	0 29	2 10	2 27	19 28	0 6	10 52	1 25	29 0	5 36	15 22	15 1	14 54			n.a.
T 3	21 53	19 36	2 14	16 35	0 58	23 40	0 56	24 46	1 4	24 3	0 29	2 9	2 27	19 29	0 6	10 52	1 25	29 0	5 36	15 24	15 2	14 53			n.a.
W 4	22 3	18 8	1 14	17 5	0 51	23 27	0 46	24 47	1 4	24 3	0 29	2 7	2 27	19 30	0 6	10 52	1 25	29 0	5 36	15 25	15 3	14 52			n.a.
T 5	22 12	15 54	0 12	17 35	0 43	23 14	0 36	24 47	1 4	24 2	0 29	2 6	2 27	19 31	0 6	10 52	1 25	29 0	5 36	15 25	15 4	14 50			n.a.
F 6	22 21	13 1	0n51	18 5	0 35	23 1	0 26	24 48	1 5	24 1	0 29	2 5	2 28	19 32	0 6	10 52	1 26	29 0	5 36	15 25	15 5	14 49			n.a.
S 7	22 29	9 37	1 52	18 34	0 27	22 48	0 15	24 48	1 5	24 1	0 29	2 3	2 28	19 33	0 6	10 52	1 26	29 0	5 36	15 25	15 6	14 48			n.a.
S 8	22 37	5 47	2 48	19 2	0 20	22 35	0 3	24 47	1 5	24 0	0 29	2 2	2 28	19 34	0 6	10 52	1 26	29 0	5 36	15 25	15 7	14 46			n.a.
M 9	22 45	1 41	3 38	19 30	0 12	22 21	0n 8	24 47	1 5	23 59	0 29	2 1	2 28	19 34	0 6	10 52	1 26	29 0	5 36	15 26	15 8	14 45			n.a.
T 10	22 52	2s36	4 19	19 57	0 5	22 8	0 20	24 46	1 5	23 59	0 29	2 0	2 29	19 35	0 6	10 52	1 26	28 59	5 36	15 27	15 9	14 44			n.a.
W11	22 59	6 53	4 48	20 24	0s 2	21 54	0 33	24 45	1 5	23 58	0 29	1 59	2 29	19 36	0 6	10 52	1 26	28 59	5 36	15 30	15 10	14 42			n.a.
T 12	23 5	10 58	5 3	20 50	0 9	21 41	0 46	24 43	1 6	23 57	0 29	1 57	2 29	19 37	0 5	10 52	1 26	28 59	5 36	15 32	15 11	14 41			n.a.
F 13	23 11	14 37	5 2	21 15	0 17	21 27	0 59	24 41	1 6	23 56	0 30	1 56	2 29	19 38	0 5	10 52	1 26	28 59	5 36	15 36	15 12	14 40			n.a.
S 14	23 16	17 34	4 42	21 39	0 23	21 13	1 12	24 39	1 6	23 55	0 30	1 55	2 30	19 39	0 5	10 52	1 26	28 59	5 36	15 39	15 13	14 38			n.a.
S 15	23 21	19 31	4 5	22 2	0 30	21 0	1 26	24 37	1 6	23 55	0 30	1 54	2 30	19 39	0 5	10 52	1 26	28 59	5 36	15 42	15 14	14 37			n.a.
M16	23 25	20 14	3 12	22 24	0 37	20 46	1 40	24 34	1 6	23 54	0 30	1 53	2 30	19 40	0 5	10 53	1 26	28 59	5 36	15 44	15 15	14 36			n.a.
T 17	23 29	19 36	2 5	22 45	0 43	20 33	1 54	24 31	1 6	23 53	0 30	1 53	2 30	19 41	0 5	10 53	1 26	28 59	5 36	15 46	15 16	14 34			n.a.
W18	23 32	17 40	0 51	23 5	0 49	20 19	2 9	24 28	1 6	23 52	0 30	1 52	2 31	19 42	0 5	10 53	1 26	28 59	5 36	15 46	15 17	14 33			n.a.
T 19	23 35	14 36	0s27	23 24	0 56	20 6	2 24	24 24	1 6	23 51	0 30	1 51	2 31	19 42	0 5	10 53	1 26	28 58	5 36	15 47	15 18	14 32			n.a.
F 20	23 38	10 42	1 42	23 42	1 1	19 53	2 39	24 21	1 6	23 50	0 30	1 50	2 31	19 43	0 5	10 53	1 26	28 58	5 36	15 46	15 19	14 30			n.a.
S 21	23 40	6 15	2 50	23 59	1 7	19 40	2 54	24 16	1 6	23 49	0 30	1 49	2 32	19 44	0 5	10 53	1 26	28 58	5 36	15 46	15 20	14 29			n.a.
S 22	23 41	1 32	3 47	24 15	1 12	19 27	3 9	24 12	1 6	23 48	0 30	1 49	2 32	19 45	0 5	10 53	1 26	28 58	5 36	15 46	15 21	14 28			n.a.
M23	23 42	3n11	4 30	24 29	1 18	19 14	3 24	24 7	1 7	23 47	0 30	1 48	2 32	19 46	0 5	10 54	1 27	28 58	5 36	15 47	15 22	14 26			n.a.
T 24	23 43	7 40	4 57	24 42	1 23	19 2	3 40	24 2	1 7	23 46	0 30	1 47	2 32	19 46	0 5	10 54	1 27	28 58	5 36	15 48	15 23	14 25			n.a.
W25	23 43	11 42	5 8	24 53	1 27	18 50	3 55	23 57	1 7	23 45	0 30	1 47	2 33	19 47	0 5	10 54	1 27	28 58	5 36	15 50	15 24	14 24			n.a.
T 26	23 43	15 7	5 2	25 4	1 32	18 38	4 10	23 52	1 7	23 43	0 31	1 46	2 33	19 48	0 5	10 54	1 27	28 58	5 36	15 52	15 25	14 22			n.a.
F 27	23 42	17 45	4 41	25 13	1 36	18 26	4 25	23 46	1 7	23 42	0 31	1 46	2 33	19 49	0 5	10 55	1 27	28 58	5 37	15 55	15 26	14 21			n.a.
S 28	23 40	19 28	4 7	25 20	1 40	18 15	4 40	23 40	1 7	23 41	0 31	1 45	2 33	19 49	0 5	10 55	1 27	28 58	5 37	15 57	15 27	14 20			n.a.
S 29	23 39	20 13	3 21	25 26	1 44	18 4	4 54	23 33	1 7	23 40	0 31	1 45	2 34	19 50	0 5	10 55	1 27	28 57	5 37	16 0	15 28	14 18			n.a.
M30	23 36	20 0	2 26	25 30	1 47	17 54	5 8	23 27	1 7	23 39	0 31	1 44	2 34	19 51	0 5	10 55	1 27	28 57	5 37	16 1	15 29	14 17			n.a.
T 31	23s34	18n50	1s25	25s33	1s50	17s44	5n22	23s20	1s 7	23s37	0s31	1n44	2n34	19s51	0n 5	10n56	1n27	28s57	5s37	16n 2	15n30	14n15			n.a.

Julian Day Number = 1649072.5, Delta T = 03h32m03s
Ecliptic obliquity = 23°43'02, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'12, Lahiri = - 6°41'12 Julian Calendar 1 Dec. 199 BCE == Greg. Calendar 28 Nov. 199 BCE

The year -198 astronomical counting style corresponds to year 199 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 198 BCE
geocentric

JANUARY 198 BCE (-197) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 25 37	7♑27'27	12♌39	2♑56	12°R33	20♑39	12♑52	1♎34	28♏ 3	5°R32	9♑43	16°D35	18♌18	23♌42	n.a.	W 1
T 2	6 29 33	8°28'22	24°28	4°37	11♑56	21°26	13° 7	1°35	28° 6	5♍32	9°45	16♌36	18°15	23°49	n.a.	T 2
F 3	6 33 30	9°29'16	6♍15	6°19	11°19	22°14	13°21	1°36	28° 9	5°31	9°47	16°37	18°12	23°55	n.a.	F 3
S 4	6 37 26	10°30'08	18° 3	8° 1	10°41	23° 1	13°35	1°37	28°12	5°30	9°49	16°39	18° 9	24° 2	n.a.	S 4
S 5	6 41 23	11°31'00	29°58	9°45	10° 4	23°49	13°50	1°38	28°15	5°29	9°51	16°40	18° 6	24° 9	n.a.	S 5
M 6	6 45 19	12°31'51	12♎ 5	11°29	9°27	24°36	14° 4	1°39	28°18	5°29	9°52	16°R41	18° 3	24°15	n.a.	M 6
T 7	6 49 16	13°32'41	24°28	13°14	8°51	25°23	14°18	1°40	28°20	5°28	9°54	16°40	17°59	24°22	n.a.	T 7
W 8	6 53 12	14°33'29	7♏12	14°59	8°15	26°11	14°33	1°41	28°23	5°27	9°56	16°38	17°56	24°29	n.a.	W 8
T 9	6 57 9	15°34'17	20°21	16°46	7°41	26°58	14°47	1°41	28°26	5°26	9°58	16°35	17°53	24°35	n.a.	T 9
F 10	7 1 6	16°35'03	3♐57	18°33	7° 7	27°45	15° 1	1°42	28°29	5°25	10° 0	16°30	17°50	24°42	n.a.	F 10
S 11	7 5 2	17°35'48	18° 0	20°21	6°35	28°33	15°16	1°42	28°31	5°24	10° 2	16°26	17°47	24°48	n.a.	S 11
S 12	7 8 59	18°36'32	2♑27	22° 9	6° 5	29°20	15°30	1°42	28°34	5°23	10° 4	16°22	17°43	24°55	n.a.	S 12
M13	7 12 55	19°37'14	17°12	23°58	5°37	0♒ 7	15°44	1°42	28°37	5°22	10° 6	16°18	17°40	25° 2	n.a.	M13
T 14	7 16 52	20°37'55	2♒ 9	25°48	5°11	0°54	15°58	1°R42	28°39	5°21	10° 7	16°16	17°37	25° 8	n.a.	T 14
W15	7 20 48	21°38'34	17° 8	27°38	4°46	1°42	16°13	1°42	28°42	5°20	10° 9	16°D16	17°34	25°15	n.a.	W15
T 16	7 24 45	22°39'12	2♓ 2	29°28	4°24	2°29	16°27	1°42	28°44	5°19	10°11	16°16	17°31	25°22	n.a.	T 16
F 17	7 28 42	23°39'47	16°43	1♒19	4° 4	3°16	16°41	1°42	28°47	5°18	10°13	16°18	17°28	25°28	n.a.	F 17
S 18	7 32 38	24°40'20	1♈ 7	3°10	3°47	4° 3	16°56	1°41	28°49	5°17	10°15	16°19	17°24	25°35	n.a.	S 18
S 19	7 36 35	25°40'52	15°11	5° 1	3°32	4°50	17°10	1°41	28°52	5°15	10°16	16°20	17°21	25°42	n.a.	S 19
M20	7 40 31	26°41'21	28°54	6°52	3°19	5°38	17°24	1°40	28°54	5°14	10°18	16°R20	17°18	25°48	n.a.	M20
T 21	7 44 28	27°41'49	12♉17	8°42	3° 9	6°25	17°38	1°39	28°56	5°13	10°20	16°20	17°15	25°55	n.a.	T 21
W22	7 48 24	28°42'14	25°22	10°31	3° 1	7°12	17°53	1°39	28°59	5°12	10°22	16°18	17°12	26° 2	n.a.	W22
T 23	7 52 21	29°42'38	8♊11	12°20	2°56	7°59	18° 7	1°38	29° 1	5°11	10°24	16°16	17° 9	26° 8	n.a.	T 23
F 24	7 56 17	0♒42'59	20°45	14° 7	2°54	8°46	18°21	1°37	29° 3	5° 9	10°25	16°14	17° 5	26°15	n.a.	F 24
S 25	8 0 14	1°43'19	3♋ 6	15°52	2°D53	9°33	18°35	1°36	29° 5	5° 8	10°27	16°11	17° 2	26°22	n.a.	S 25
S 26	8 4 11	2°43'36	15°18	17°35	2°55	10°20	18°49	1°34	29° 7	5° 7	10°29	16° 9	16°59	26°28	n.a.	S 26
M27	8 8 7	3°43'52	27°20	19°15	3° 0	11° 7	19° 3	1°33	29° 9	5° 5	10°31	16° 8	16°56	26°35	n.a.	M27
T 28	8 12 4	4°44'06	9♌16	20°52	3° 7	11°54	19°17	1°32	29°11	5° 4	10°32	16° 7	16°53	26°41	n.a.	T 28
W29	8 16 0	5°44'17	21° 7	22°25	3°16	12°41	19°31	1°30	29°13	5° 3	10°34	16°D 7	16°49	26°48	n.a.	W29
T 30	8 19 57	6°44'27	2♍55	23°54	3°27	13°28	19°45	1°29	29°15	5° 1	10°36	16° 8	16°46	26°55	n.a.	T 30
F 31	8 23 53	7♒44'35	14♍43	25♒18	3♑41	14♒15	19♑59	1♎27	29♏17	5♍ 0	10♑38	16♌ 9	16♌43	27♌ 1	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	23 s30	16n52	0 s22	25 s34	1 s53	17 s34	5n35	23 s12	1 s 7	23 s36	0 s31	1n44	2n35	19 s52	0n 5	10n56	1n27	28 s57	5 s37	16n 3	15n31	14n14			n.a.
T 2	23 27	14 11	0n43	25 33	1 55	17 25	5 47	23 5	1 7	23 35	0 31	1 44	2 35	19 53	0 5	10 56	1 27	28 57	5 37	16 3	15 32	14 13			n.a.
F 3	23 22	10 57	1 45	25 31	1 57	17 16	5 59	22 57	1 7	23 33	0 31	1 43	2 35	19 53	0 5	10 57	1 27	28 57	5 37	16 2	15 33	14 11			n.a.
S 4	23 18	7 17	2 44	25 27	1 59	17 8	6 10	22 49	1 7	23 32	0 31	1 43	2 35	19 54	0 5	10 57	1 27	28 57	5 37	16 2	15 34	14 10			n.a.
S 5	23 13	3 18	3 35	25 21	2 0	17 0	6 20	22 41	1 7	23 31	0 31	1 43	2 36	19 55	0 5	10 57	1 27	28 57	5 37	16 1	15 35	14 8			n.a.
M 6	23 7	0 s52	4 18	25 14	2 1	16 53	6 30	22 33	1 7	23 29	0 32	1 43	2 36	19 55	0 5	10 58	1 27	28 57	5 37	16 1	15 36	14 7			n.a.
T 7	23 1	5 6	4 50	25 4	2 2	16 47	6 39	22 24	1 7	23 28	0 32	1 43	2 36	19 56	0 5	10 58	1 27	28 57	5 37	16 1	15 37	14 6			n.a.
W 8	22 55	9 12	5 9	24 53	2 2	16 41	6 47	22 15	1 6	23 26	0 32	1 43	2 37	19 57	0 5	10 58	1 27	28 57	5 37	16 2	15 38	14 4			n.a.
T 9	22 48	13 1	5 13	24 39	2 1	16 36	6 54	22 6	1 6	23 25	0 32	1 43	2 37	19 57	0 5	10 59	1 27	28 57	5 37	16 3	15 39	14 3			n.a.
F 10	22 40	16 17	4 59	24 24	2 0	16 31	7 1	21 56	1 6	23 23	0 32	1 43	2 37	19 58	0 5	10 59	1 27	28 57	5 38	16 4	15 40	14 1			n.a.
S 11	22 33	18 44	4 27	24 7	1 59	16 28	7 6	21 46	1 6	23 22	0 32	1 43	2 37	19 59	0 5	11 0	1 28	28 57	5 38	16 6	15 41	14 0			n.a.
S 12	22 24	20 4	3 38	23 47	1 57	16 24	7 11	21 36	1 6	23 20	0 32	1 43	2 38	19 59	0 5	11 0	1 28	28 57	5 38	16 7	15 42	13 58			n.a.
M13	22 16	20 4	2 33	23 26	1 54	16 22	7 14	21 26	1 6	23 19	0 32	1 44	2 38	20 0	0 5	11 0	1 28	28 56	5 38	16 8	15 43	13 57			n.a.
T 14	22 7	18 40	1 17	23 3	1 51	16 20	7 17	21 16	1 6	23 17	0 32	1 44	2 38	20 0	0 5	11 1	1 28	28 56	5 38	16 9	15 44	13 56			n.a.
W15	21 57	15 57	0 s 5	22 38	1 47	16 18	7 20	21 5	1 6	23 15	0 32	1 44	2 39	20 1	0 5	11 1	1 28	28 56	5 38	16 9	15 45	13 54			n.a.
T 16	21 47	12 12	1 26	22 11	1 43	16 18	7 21	20 54	1 6	23 14	0 33	1 44	2 39	20 1	0 5	11 2	1 28	28 56	5 38	16 9	15 46	13 53			n.a.
F 17	21 37	7 45	2 40	21 42	1 38	16 18	7 22	20 43	1 6	23 12	0 33	1 45	2 39	20 2	0 5	11 2	1 28	28 56	5 38	16 8	15 47	13 51			n.a.
S 18	21 26	2 57	3 43	21 11	1 33	16 18	7 22	20 32	1 5	23 10	0 33	1 45	2 39	20 3	0 5	11 3	1 28	28 56	5 38	16 8	15 48	13 50			n.a.
S 19	21 15	1n53	4 31	20 38	1 26	16 19	7 21	20 20	1 5	23 9	0 33	1 46	2 40	20 3	0 5	11 3	1 28	28 56	5 38	16 7	15 49	13 48			n.a.
M20	21 4	6 31	5 2	20 3	1 19	16 21	7 20	20 8	1 5	23 7	0 33	1 46	2 40	20 4	0 5	11 4	1 28	28 56	5 39	16 7	15 50	13 47			n.a.
T 21	20 52	10 42	5 15	19 27	1 12	16 23	7 18	19 56	1 5	23 5	0 33	1 47	2 40	20 4	0 5	11 4	1 28	28 56	5 39	16 8	15 51	13 45			n.a.
W22	20 40	14 16	5 12	18 49	1 3	16 25	7 16	19 44	1 5	23 3	0 33	1 47	2 40	20 5	0 5	11 5	1 28	28 56	5 39	16 8	15 52	13 44			n.a.
T 23	20 27	17 6	4 53	18 10	0 54	16 28	7 13	19 31	1 5	23 2	0 33	1 48	2 41	20 5	0 5	11 5	1 28	28 56	5 39	16 9	15 53	13 43			n.a.
F 24	20 14	19 3	4 21	17 30	0 44	16 32	7 9	19 19	1 5	23 0	0 33	1 49	2 41	20 6	0 5	11 6	1 28	28 56	5 39	16 9	15 54	13 41			n.a.
S 25	20 0	20 4	3 36	16 48	0 34	16 36	7 5	19 6	1 4	22 58	0 34	1 49	2 41	20 6	0 5	11 6	1 28	28 56	5 39	16 10	15 55	13 40			n.a.
S 26	19 47	20 8	2 43	16 6	0 23	16 40	7 1	18 53	1 4	22 56	0 34	1 50	2 42	20 7	0 5	11 7	1 28	28 56	5 39	16 11	15 56	13 38			n.a.
M27	19 33	19 16	1 42	15 23	0 11	16 45	6 57	18 40	1 4	22 54	0 34	1 51	2 42	20 7	0 5	11 7	1 28	28 56	5 39	16 11	15 57	13 37			n.a.
T 28	19 18	17 32	0 38	14 41	0n 2	16 49	6 52	18 26	1 4	22 52	0 34	1 51	2 42	20 8	0 5	11 8	1 28	28 56	5 40	16 11	15 58	13 35			n.a.
W29	19 3	15 4	0n28	13 58	0 15	16 55	6 46	18 13	1 4	22 50	0 34	1 52	2 42	20 8	0 5	11 8	1 28	28 56	5 40	16 11	15 58	13 34			n.a.
T 30	18 48	11 59	1 32	13 16	0 28	17 0	6 41	17 59	1 3	22 48	0 34	1 53	2 43	20 8	0 5	11 9	1 28	28 56	5 40	16 11	15 59	13 32			n.a.
F 31	18 s33	8n26	2n32	12 s34	0n43	17 s 5	6n35	17 s45	1 s 3	22 s46	0 s34	1n54	2n43	20 s 9	0n 5	11n 9	1n28	28 s56	5 s40	16n11	16n 0	13n31			n.a.

Julian Day Number = 1649103.5, Delta T = 03h32m02s
Ecliptic obliquity = 23°43'02, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'08, Lahiri = - 6°41'07 Julian Calendar 1 Jan. 198 BCE == Greg. Calendar 29 Dec. 199 BCE

The year -197 astronomical counting style corresponds to year 198 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 198 BCE
geocentric

FEBRUARY 198 BCE (-197) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 27 50	8♒44'41	26♍33	26♒36	3♑56	15♒ 2	20♑13	1°R25	29♏19	4°R58	10♑39	16♌ 9	16♌40	27♌ 8	n.a.	S 1
S 2	8 31 46	9°44'46	8♎30	27°48	4°14	15°48	20°27	1♎23	29°21	4♍57	10°41	16°10	16°37	27°15	n.a.	S 2
M 3	8 35 43	10°44'48	20°37	28°54	4°33	16°35	20°41	1°21	29°23	4°55	10°43	16°11	16°34	27°21	n.a.	M 3
T 4	8 39 39	11°44'49	2♏58	29°52	4°55	17°22	20°55	1°19	29°24	4°54	10°44	16°11	16°30	27°28	n.a.	T 4
W 5	8 43 36	12°44'49	15°38	0♓42	5°18	18° 9	21° 9	1°17	29°26	4°52	10°46	16°R11	16°27	27°35	n.a.	W 5
T 6	8 47 33	13°44'46	28°41	1°24	5°43	18°55	21°23	1°15	29°28	4°51	10°48	16°11	16°24	27°41	n.a.	T 6
F 7	8 51 29	14°44'42	12♐ 8	1°58	6° 9	19°42	21°37	1°12	29°29	4°49	10°49	16°11	16°21	27°48	n.a.	F 7
S 8	8 55 26	15°44'36	26° 3	2°23	6°38	20°29	21°50	1°10	29°31	4°48	10°51	16°D11	16°18	27°55	n.a.	S 8
S 9	8 59 22	16°44'29	10♑25	2°40	7° 8	21°15	22° 4	1° 7	29°32	4°46	10°52	16°11	16°15	28° 1	n.a.	S 9
M10	9 3 19	17°44'19	25° 9	2°R47	7°39	22° 2	22°18	1° 5	29°33	4°45	10°54	16°11	16°11	28° 8	n.a.	M10
T 11	9 7 15	18°44'07	10♒12	2°46	8°12	22°48	22°31	1° 2	29°35	4°43	10°55	16°R11	16° 8	28°15	n.a.	T 11
W12	9 11 12	19°43'54	25°23	2°36	8°46	23°35	22°45	0°59	29°36	4°42	10°57	16°11	16° 5	28°21	n.a.	W12
T 13	9 15 8	20°43'38	10♓34	2°18	9°21	24°21	22°58	0°57	29°37	4°40	10°59	16°11	16° 2	28°28	n.a.	T 13
F 14	9 19 5	21°43'20	25°35	1°53	9°58	25° 8	23°12	0°54	29°39	4°39	11° 0	16°10	15°59	28°34	n.a.	F 14
S 15	9 23 2	22°42'59	10♈18	1°20	10°36	25°54	23°25	0°51	29°40	4°37	11° 1	16°10	15°55	28°41	n.a.	S 15
S 16	9 26 58	23°42'37	24°38	0°41	11°15	26°41	23°39	0°47	29°41	4°35	11° 3	16° 9	15°52	28°48	n.a.	S 16
M17	9 30 55	24°42'12	8♉33	29♒57	11°56	27°27	23°52	0°44	29°42	4°34	11° 4	16° 8	15°49	28°54	n.a.	M17
T 18	9 34 51	25°41'44	22° 1	29° 9	12°37	28°13	24° 5	0°41	29°43	4°32	11° 6	16°D 8	15°46	29° 1	n.a.	T 18
W19	9 38 48	26°41'14	5♊ 4	28°17	13°19	28°59	24°18	0°38	29°44	4°30	11° 7	16° 8	15°43	29° 8	n.a.	W19
T 20	9 42 44	27°40'42	17°46	27°24	14° 3	29°46	24°32	0°34	29°45	4°29	11° 9	16° 8	15°40	29°14	n.a.	T 20
F 21	9 46 41	28°40'07	0♋11	26°30	14°47	0♓32	24°45	0°31	29°46	4°27	11°10	16° 9	15°36	29°21	n.a.	F 21
S 22	9 50 37	29°39'30	12°21	25°36	15°32	1°18	24°58	0°27	29°46	4°25	11°11	16°11	15°33	29°28	n.a.	S 22
S 23	9 54 34	0♓38'51	24°21	24°43	16°18	2° 4	25°11	0°24	29°47	4°24	11°13	16°12	15°30	29°34	n.a.	S 23
M24	9 58 31	1°38'09	6♌15	23°53	17° 5	2°50	25°24	0°20	29°48	4°22	11°14	16°13	15°27	29°41	n.a.	M24
T 25	10 2 27	2°37'25	18° 4	23° 6	17°53	3°36	25°36	0°16	29°48	4°21	11°15	16°R13	15°24	29°48	n.a.	T 25
W26	10 6 24	3°36'39	29°51	22°23	18°42	4°22	25°49	0°13	29°49	4°19	11°17	16°13	15°21	29°54	n.a.	W26
T 27	10 10 20	4°35'50	11♍40	21°45	19°31	5° 8	26° 2	0° 9	29°50	4°17	11°18	16°11	15°17	0♍ 1	n.a.	T 27
F 28	10 14 17	5♓34'59	23♍32	21♒12	20♑21	5♓54	26♑15	0♎ 5	29♏50	4♍16	11♑19	16♌ 9	15♌14	0♍ 8	n.a.	F 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s17	4n32	3n26	11s54	0n57	17s11	6n29	17s31	1s 3	22s44	0s34	1n55	2n43	20s 9	0n 5	11n10	1n28	28s56	5s40	16n11	16n 1	13n29		n.a.
S 2	18 1	0 27	4 12	11 15	1 12	17 17	6 22	17 17	1 3	22 42	0 35	1 56	2 43	20 10	0 5	11 10	1 28	28 56	5 40	16 10	16 2	13 28		n.a.
M 3	17 44	3s43	4 47	10 39	1 26	17 23	6 16	17 2	1 2	22 40	0 35	1 57	2 44	20 10	0 5	11 11	1 28	28 56	5 40	16 10	16 3	13 26		n.a.
T 4	17 28	7 48	5 10	10 4	1 41	17 29	6 9	16 48	1 2	22 38	0 35	1 58	2 44	20 10	0 5	11 12	1 28	28 56	5 41	16 10	16 4	13 25		n.a.
W 5	17 11	11 38	5 18	9 33	1 56	17 35	6 2	16 33	1 2	22 36	0 35	1 59	2 44	20 11	0 5	11 12	1 28	28 56	5 41	16 10	16 5	13 23		n.a.
T 6	16 54	15 3	5 11	9 4	2 10	17 41	5 55	16 18	1 2	22 34	0 35	2 0	2 44	20 11	0 5	11 13	1 28	28 56	5 41	16 10	16 6	13 22		n.a.
F 7	16 36	17 47	4 46	8 39	2 25	17 47	5 48	16 3	1 1	22 32	0 35	2 2	2 45	20 11	0 5	11 13	1 29	28 56	5 41	16 10	16 7	13 20		n.a.
S 8	16 18	19 35	4 4	8 17	2 38	17 53	5 41	15 48	1 1	22 30	0 35	2 3	2 45	20 12	0 5	11 14	1 29	28 56	5 41	16 10	16 8	13 19		n.a.
S 9	16 0	20 12	3 6	8 0	2 51	17 58	5 33	15 32	1 1	22 28	0 35	2 4	2 45	20 12	0 5	11 15	1 29	28 56	5 41	16 10	16 9	13 17		n.a.
M10	15 42	19 29	1 54	7 46	3 3	18 4	5 26	15 17	1 1	22 26	0 36	2 5	2 45	20 12	0 5	11 15	1 29	28 56	5 42	16 10	16 10	13 16		n.a.
T 11	15 23	17 22	0 33	7 36	3 13	18 10	5 19	15 1	1 0	22 24	0 36	2 6	2 45	20 13	0 5	11 16	1 29	28 56	5 42	16 10	16 11	13 14		n.a.
W12	15 4	14 1	0s51	7 31	3 23	18 15	5 11	14 46	1 0	22 22	0 36	2 8	2 46	20 13	0 5	11 16	1 29	28 56	5 42	16 10	16 12	13 13		n.a.
T 13	14 45	9 43	2 12	7 30	3 31	18 20	5 4	14 30	1 0	22 20	0 36	2 9	2 46	20 13	0 5	11 17	1 29	28 56	5 42	16 10	16 13	13 11		n.a.
F 14	14 26	4 52	3 22	7 33	3 37	18 25	4 56	14 14	1 0	22 17	0 36	2 11	2 46	20 14	0 5	11 18	1 29	28 56	5 42	16 10	16 14	13 10		n.a.
S 15	14 6	0n11	4 18	7 40	3 42	18 30	4 48	13 57	0 59	22 15	0 36	2 12	2 46	20 14	0 5	11 18	1 29	28 56	5 42	16 11	16 15	13 8		n.a.
S 16	13 46	5 4	4 56	7 51	3 45	18 34	4 41	13 41	0 59	22 13	0 36	2 13	2 47	20 14	0 5	11 19	1 29	28 56	5 43	16 11	16 16	13 6		n.a.
M17	13 26	9 33	5 15	8 6	3 46	18 39	4 33	13 25	0 59	22 11	0 37	2 15	2 47	20 14	0 5	11 19	1 29	28 56	5 43	16 11	16 17	13 5		n.a.
T 18	13 6	13 23	5 16	8 24	3 45	18 42	4 25	13 8	0 58	22 9	0 37	2 16	2 47	20 14	0 5	11 20	1 29	28 57	5 43	16 11	16 18	13 3		n.a.
W19	12 46	16 28	5 1	8 44	3 42	18 46	4 18	12 52	0 58	22 7	0 37	2 18	2 47	20 15	0 5	11 21	1 29	28 57	5 43	16 11	16 19	13 2		n.a.
T 20	12 25	18 39	4 31	9 7	3 37	18 49	4 10	12 35	0 58	22 4	0 37	2 19	2 47	20 15	0 5	11 21	1 29	28 57	5 43	16 11	16 20	13 0		n.a.
F 21	12 4	19 54	3 49	9 32	3 31	18 52	4 2	12 18	0 57	22 2	0 37	2 21	2 47	20 15	0 5	11 22	1 29	28 57	5 43	16 11	16 21	12 59		n.a.
S 22	11 43	20 12	2 57	9 58	3 23	18 55	3 55	12 1	0 57	22 0	0 37	2 22	2 48	20 15	0 5	11 23	1 29	28 57	5 44	16 10	16 22	12 57		n.a.
S 23	11 22	19 33	1 58	10 24	3 13	18 57	3 47	11 44	0 57	21 58	0 37	2 24	2 48	20 15	0 5	11 23	1 29	28 57	5 44	16 10	16 22	12 56		n.a.
M24	11 1	18 2	0 55	10 51	3 2	18 59	3 40	11 27	0 56	21 55	0 38	2 26	2 48	20 16	0 5	11 24	1 29	28 57	5 44	16 10	16 23	12 54		n.a.
T 25	10 40	15 45	0n10	11 18	2 49	19 0	3 32	11 10	0 56	21 53	0 38	2 27	2 48	20 16	0 5	11 24	1 29	28 57	5 44	16 10	16 24	12 52		n.a.
W26	10 18	12 49	1 15	11 45	2 36	19 1	3 25	10 53	0 55	21 51	0 38	2 29	2 48	20 16	0 5	11 25	1 29	28 57	5 44	16 10	16 25	12 51		n.a.
T 27	9 56	9 22	2 16	12 11	2 22	19 2	3 17	10 35	0 55	21 49	0 38	2 31	2 48	20 16	0 5	11 26	1 29	28 57	5 45	16 10	16 26	12 49		n.a.
F 28	9s34	5n32	3n12	12s35	2n 8	19s 2	3n10	10s18	0s55	21s46	0s38	2n32	2n49	20s16	0n 5	11n26	1n29	28s57	5s45	16n11	16n27	12n48		n.a.

Julian Day Number = 1649134.5, Delta T = 03h32m01s
Ecliptic obliquity = 23°43'02, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'04, Lahiri = - 6°41'03 Julian Calendar 1 Feb. 198 BCE == Greg. Calendar 29 Jan. 198 BCE

The year -197 astronomical counting style corresponds to year 198 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 198 BCE
geocentric

MARCH 198 BCE (-197) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 18 13	6♓34'07	5♎28	20°R44	21♑12	6♓40	26♑27	0°R 1	29♏50	4°R14	11♑20	16°R 5	15♌11	0♍14	n.a.	S 1
S 2	10 22 10	7°33'12	17°32	20♒21	22° 4	7°25	26°40	29♍57	29°51	4♍12	11°21	16♌ 2	15° 8	0°21	n.a.	S 2
M 3	10 26 6	8°32'15	29°45	20° 4	22°56	8°11	26°52	29°53	29°51	4°11	11°23	15°59	15° 5	0°28	n.a.	M 3
T 4	10 30 3	9°31'17	12♏11	19°53	23°49	8°57	27° 5	29°49	29°51	4° 9	11°24	15°56	15° 1	0°34	n.a.	T 4
W 5	10 33 59	10°30'16	24°52	19°D48	24°42	9°42	27°17	29°45	29°52	4° 7	11°25	15°54	14°58	0°41	n.a.	W 5
T 6	10 37 56	11°29'14	7♐51	19°48	25°36	10°28	27°29	29°41	29°52	4° 6	11°26	15°D53	14°55	0°47	n.a.	T 6
F 7	10 41 53	12°28'10	21°11	19°53	26°30	11°14	27°41	29°36	29°52	4° 4	11°27	15°53	14°52	0°54	n.a.	F 7
S 8	10 45 49	13°27'04	4♑54	20° 4	27°25	11°59	27°54	29°32	29°52	4° 2	11°28	15°54	14°49	1° 1	n.a.	S 8
S 9	10 49 46	14°25'56	19° 2	20°20	28°21	12°45	28° 6	29°28	29°R52	4° 1	11°29	15°55	14°46	1° 7	n.a.	S 9
M10	10 53 42	15°24'47	3♒33	20°41	29°17	13°30	28°17	29°24	29°52	3°59	11°30	15°57	14°42	1°14	n.a.	M10
T 11	10 57 39	16°23'35	18°25	21° 6	0♒14	14°15	28°29	29°19	29°52	3°58	11°31	15°R57	14°39	1°21	n.a.	T 11
W12	11 1 35	17°22'22	3♓30	21°36	1°11	15° 1	28°41	29°15	29°52	3°56	11°32	15°56	14°36	1°27	n.a.	W12
T 13	11 5 32	18°21'07	18°41	22°10	2° 8	15°46	28°53	29°10	29°52	3°54	11°33	15°54	14°33	1°34	n.a.	T 13
F 14	11 9 28	19°19'49	3♈48	22°47	3° 6	16°31	29° 4	29° 6	29°51	3°53	11°34	15°50	14°30	1°41	n.a.	F 14
S 15	11 13 25	20°18'29	18°41	23°29	4° 4	17°17	29°16	29° 2	29°51	3°51	11°35	15°45	14°26	1°47	n.a.	S 15
S 16	11 17 21	21°17'07	3♉13	24°15	5° 3	18° 2	29°27	28°57	29°51	3°50	11°36	15°39	14°23	1°54	n.a.	S 16
M17	11 21 18	22°15'43	17°18	25° 3	6° 2	18°47	29°39	28°53	29°50	3°48	11°37	15°35	14°20	2° 1	n.a.	M17
T 18	11 25 15	23°14'17	0♊55	25°55	7° 1	19°32	29°50	28°48	29°50	3°46	11°37	15°31	14°17	2° 7	n.a.	T 18
W19	11 29 11	24°12'48	14° 4	26°51	8° 1	20°17	0♒ 1	28°44	29°49	3°45	11°38	15°29	14°14	2°14	n.a.	W19
T 20	11 33 8	25°11'17	26°47	27°49	9° 1	21° 2	0°12	28°39	29°49	3°43	11°39	15°D28	14°11	2°21	n.a.	T 20
F 21	11 37 4	26° 9'44	9♋10	28°50	10° 1	21°47	0°23	28°35	29°48	3°42	11°40	15°29	14° 7	2°27	n.a.	F 21
S 22	11 41 1	27° 8'09	21°17	29°54	11° 2	22°32	0°34	28°30	29°48	3°40	11°40	15°31	14° 4	2°34	n.a.	S 22
S 23	11 44 57	28° 6'31	3♌12	1♓ 0	12° 3	23°16	0°45	28°25	29°47	3°39	11°41	15°32	14° 1	2°41	n.a.	S 23
M24	11 48 54	29° 4'52	15° 1	2° 9	13° 4	24° 1	0°55	28°21	29°46	3°37	11°42	15°R33	13°58	2°47	n.a.	M24
T 25	11 52 50	0♈ 3'10	26°48	3°21	14° 6	24°46	1° 6	28°16	29°45	3°36	11°42	15°32	13°55	2°54	n.a.	T 25
W26	11 56 47	1° 1'26	8♍36	4°34	15° 8	25°30	1°16	28°12	29°44	3°35	11°43	15°29	13°52	3° 0	n.a.	W26
T 27	12 0 44	1°59'40	20°28	5°50	16°10	26°15	1°27	28° 7	29°44	3°33	11°43	15°25	13°48	3° 7	n.a.	T 27
F 28	12 4 40	2°57'52	2♎26	7° 9	17°13	26°59	1°37	28° 3	29°43	3°32	11°44	15°18	13°45	3°14	n.a.	F 28
S 29	12 8 37	3°56'02	14°33	8°29	18°15	27°44	1°47	27°58	29°42	3°30	11°45	15° 9	13°42	3°20	n.a.	S 29
S 30	12 12 33	4°54'10	26°48	9°52	19°18	28°28	1°57	27°54	29°41	3°29	11°45	15° 0	13°39	3°27	n.a.	S 30
M31	12 16 30	5♈52'17	9♏14	11♓16	20♒21	29♓13	2♒ 7	27♍49	29♏40	3♍28	11♑45	14♌51	13♌36	3♍34	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9s12	1n28	4n 0	12s58	1n53	19s 1	3n 2	10s 1	0s54	21s44	0s38	2n34	2n49	20s16	0n 5	11n27	1n29	28s57	5s45	16n12	16n28	12n46		n.a.
S 2	8 50	2s42	4 37	13 20	1 38	19 1	2 55	9 43	0 54	21 42	0 39	2 36	2 49	20 16	0 5	11 28	1 29	28 57	5 45	16 13	16 29	12 45		n.a.
M 3	8 28	6 48	5 2	13 40	1 22	18 59	2 48	9 25	0 54	21 40	0 39	2 38	2 49	20 16	0 5	11 28	1 29	28 58	5 45	16 14	16 30	12 43		n.a.
T 4	8 5	10 41	5 14	13 58	1 7	18 57	2 41	9 8	0 53	21 37	0 39	2 39	2 49	20 16	0 5	11 29	1 29	28 58	5 46	16 15	16 31	12 41		n.a.
W 5	7 43	14 10	5 11	14 14	0 52	18 55	2 33	8 50	0 53	21 35	0 39	2 41	2 49	20 16	0 5	11 29	1 29	28 58	5 46	16 15	16 32	12 40		n.a.
T 6	7 20	17 4	4 52	14 28	0 37	18 52	2 26	8 32	0 52	21 33	0 39	2 43	2 49	20 16	0 5	11 30	1 29	28 58	5 46	16 16	16 33	12 38		n.a.
F 7	6 58	19 9	4 17	14 39	0 23	18 49	2 19	8 14	0 52	21 31	0 39	2 45	2 49	20 17	0 5	11 31	1 29	28 58	5 46	16 16	16 34	12 37		n.a.
S 8	6 35	20 11	3 27	14 49	0 9	18 45	2 12	7 56	0 52	21 28	0 40	2 46	2 50	20 17	0 5	11 31	1 29	28 58	5 47	16 15	16 35	12 35		n.a.
S 9	6 12	20 0	2 23	14 57	0s 5	18 41	2 5	7 38	0 51	21 26	0 40	2 48	2 50	20 17	0 5	11 32	1 29	28 58	5 47	16 15	16 36	12 33		n.a.
M10	5 49	18 29	1 8	15 3	0 18	18 36	1 59	7 20	0 51	21 24	0 40	2 50	2 50	20 17	0 5	11 32	1 29	28 58	5 47	16 15	16 37	12 32		n.a.
T 11	5 26	15 42	0s13	15 7	0 31	18 31	1 52	7 2	0 50	21 21	0 40	2 52	2 50	20 17	0 5	11 33	1 29	28 58	5 47	16 14	16 38	12 30		n.a.
W12	5 3	11 49	1 35	15 8	0 43	18 25	1 45	6 44	0 50	21 19	0 40	2 54	2 50	20 17	0 5	11 34	1 29	28 59	5 47	16 15	16 39	12 29		n.a.
T 13	4 39	7 7	2 50	15 8	0 54	18 19	1 38	6 26	0 49	21 17	0 41	2 56	2 50	20 16	0 5	11 34	1 29	28 59	5 48	16 15	16 39	12 27		n.a.
F 14	4 16	2 1	3 52	15 6	1 5	18 12	1 32	6 8	0 49	21 15	0 41	2 57	2 50	20 16	0 5	11 35	1 29	28 59	5 48	16 17	16 40	12 25		n.a.
S 15	3 53	3n 7	4 38	15 2	1 15	18 5	1 26	5 50	0 49	21 12	0 41	2 59	2 50	20 16	0 5	11 35	1 29	28 59	5 48	16 18	16 41	12 24		n.a.
S 16	3 30	7 58	5 5	14 56	1 25	17 57	1 19	5 31	0 48	21 10	0 41	3 1	2 50	20 16	0 5	11 36	1 29	28 59	5 48	16 20	16 42	12 22		n.a.
M17	3 6	12 13	5 12	14 48	1 34	17 48	1 13	5 13	0 48	21 8	0 41	3 3	2 50	20 16	0 5	11 36	1 29	28 59	5 48	16 21	16 43	12 20		n.a.
T 18	2 43	15 40	5 1	14 38	1 43	17 39	1 7	4 55	0 47	21 6	0 41	3 5	2 50	20 16	0 5	11 37	1 29	28 59	5 49	16 22	16 44	12 19		n.a.
W19	2 19	18 13	4 34	14 26	1 50	17 30	1 1	4 36	0 47	21 4	0 42	3 7	2 50	20 16	0 5	11 38	1 29	29 0	5 49	16 23	16 45	12 17		n.a.
T 20	1 56	19 46	3 55	14 13	1 58	17 20	0 55	4 18	0 46	21 1	0 42	3 9	2 50	20 16	0 5	11 38	1 29	29 0	5 49	16 23	16 46	12 16		n.a.
F 21	1 33	20 19	3 5	13 57	2 4	17 10	0 49	4 0	0 46	20 59	0 42	3 10	2 50	20 16	0 5	11 39	1 29	29 0	5 49	16 23	16 47	12 14		n.a.
S 22	1 9	19 54	2 8	13 40	2 10	16 59	0 43	3 41	0 45	20 57	0 42	3 12	2 50	20 16	0 5	11 39	1 29	29 0	5 50	16 22	16 48	12 12		n.a.
S 23	0 46	18 35	1 7	13 21	2 16	16 47	0 37	3 23	0 45	20 55	0 42	3 14	2 51	20 15	0 5	11 40	1 29	29 0	5 50	16 22	16 49	12 11		n.a.
M24	0 22	16 28	0 3	13 1	2 21	16 35	0 31	3 5	0 44	20 53	0 43	3 16	2 51	20 15	0 5	11 40	1 29	29 0	5 50	16 22	16 50	12 9		n.a.
T 25	0n 1	13 40	1n 1	12 39	2 25	16 23	0 26	2 46	0 44	20 51	0 43	3 18	2 51	20 15	0 5	11 41	1 29	29 1	5 50	16 22	16 51	12 7		n.a.
W26	0 25	10 19	2 2	12 15	2 29	16 10	0 20	2 28	0 43	20 48	0 43	3 20	2 51	20 15	0 5	11 41	1 29	29 1	5 51	16 23	16 52	12 6		n.a.
T 27	0 48	6 32	2 58	11 50	2 32	15 56	0 15	2 10	0 43	20 46	0 43	3 21	2 51	20 15	0 5	11 42	1 29	29 1	5 51	16 24	16 53	12 4		n.a.
F 28	1 12	2 28	3 46	11 22	2 35	15 42	0 10	1 51	0 42	20 44	0 43	3 23	2 51	20 15	0 5	11 42	1 29	29 1	5 51	16 26	16 53	12 2		n.a.
S 29	1 35	1s44	4 25	10 54	2 36	15 28	0 4	1 33	0 42	20 42	0 44	3 25	2 50	20 14	0 5	11 43	1 29	29 1	5 51	16 29	16 54	12 1		n.a.
S 30	1 58	5 55	4 52	10 23	2 38	15 13	0s 1	1 15	0 41	20 40	0 44	3 27	2 50	20 14	0 5	11 43	1 29	29 2	5 52	16 31	16 55	11 59		n.a.
M31	2n21	9s55	5n 5	9s52	2s39	14s57	0s 6	0s56	0s41	20s38	0s44	3n29	2n50	20s14	0n 5	11n44	1n29	29s 2	5s52	16n34	16n56	11n57		n.a.

Julian Day Number = 1649162.5, Delta T = 03h32m00s
Ecliptic obliquity = 23°43'03, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°48'00, Lahiri = - 6°40'59 Julian Calendar 1 March 198 BCE == Greg. Calendar 26 Feb. 198 BCE

The year -197 astronomical counting style corresponds to year 198 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 198 BCE
geocentric

APRIL 198 BCE (-197) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 20 26	6♈50'22	21♏52	12♓43	21♒25	29♓57	2♒17	27°R45	29°R38	3°R26	11♑46	14°R43	13♌32	3♍40	n.a.	T 1
W 2	12 24 23	7°48'25	4♐42	14°12	22°29	0♈41	2°26	27♍40	29♏37	3♍25	11°46	14♌37	13°29	3°47	n.a.	W 2
T 3	12 28 19	8°46'28	17°46	15°42	23°32	1°26	2°36	27°36	29°36	3°24	11°47	14°32	13°26	3°54	n.a.	T 3
F 4	12 32 16	9°44'28	1♑ 6	17°15	24°37	2°10	2°46	27°32	29°35	3°23	11°47	14°30	13°23	4° 0	n.a.	F 4
S 5	12 36 12	10°42'27	14°44	18°49	25°41	2°54	2°55	27°27	29°34	3°21	11°47	14°D30	13°20	4° 7	n.a.	S 5
S 6	12 40 9	11°40'25	28°40	20°26	26°45	3°38	3° 4	27°23	29°32	3°20	11°48	14°31	13°17	4°14	n.a.	S 6
M 7	12 44 6	12°38'22	12♒55	22° 5	27°50	4°22	3°13	27°19	29°31	3°19	11°48	14°R31	13°13	4°20	n.a.	M 7
T 8	12 48 2	13°36'16	27°28	23°45	28°55	5° 6	3°22	27°14	29°29	3°18	11°48	14°31	13°10	4°27	n.a.	T 8
W 9	12 51 59	14°34'10	12♓15	25°27	0♓ 0	5°50	3°31	27°10	29°28	3°16	11°48	14°28	13° 7	4°34	n.a.	W 9
T 10	12 55 55	15°32'02	27°11	27°12	1° 5	6°34	3°40	27° 6	29°26	3°15	11°49	14°23	13° 4	4°40	n.a.	T 10
F 11	12 59 52	16°29'53	12♈ 7	28°58	2°11	7°18	3°48	27° 2	29°25	3°14	11°49	14°15	13° 1	4°47	n.a.	F 11
S 12	13 3 48	17°27'42	26°54	0♈46	3°16	8° 1	3°57	26°58	29°23	3°13	11°49	14° 6	12°57	4°54	n.a.	S 12
S 13	13 7 45	18°25'29	11♉24	2°36	4°22	8°45	4° 5	26°53	29°22	3°12	11°49	13°56	12°54	5° 0	n.a.	S 13
M14	13 11 41	19°23'15	25°31	4°28	5°28	9°29	4°13	26°49	29°20	3°11	11°49	13°47	12°51	5° 7	n.a.	M14
T 15	13 15 38	20°20'59	9♊11	6°22	6°34	10°12	4°21	26°45	29°18	3°10	11°49	13°39	12°48	5°14	n.a.	T 15
W16	13 19 35	21°18'42	22°24	8°18	7°40	10°56	4°29	26°41	29°17	3° 9	11°49	13°33	12°45	5°20	n.a.	W16
T 17	13 23 31	22°16'23	5♋11	10°16	8°46	11°39	4°37	26°38	29°15	3° 8	11°R49	13°30	12°42	5°27	n.a.	T 17
F 18	13 27 28	23°14'02	17°36	12°16	9°53	12°23	4°44	26°34	29°13	3° 7	11°49	13°29	12°38	5°34	n.a.	F 18
S 19	13 31 24	24°11'39	29°43	14°17	11° 0	13° 6	4°52	26°30	29°11	3° 6	11°49	13°D28	12°35	5°40	n.a.	S 19
S 20	13 35 21	25° 9'15	11♌39	16°20	12° 6	13°49	4°59	26°26	29° 9	3° 5	11°49	13°R29	12°32	5°47	n.a.	S 20
M21	13 39 17	26° 6'50	23°28	18°25	13°13	14°33	5° 6	26°23	29° 8	3° 4	11°49	13°28	12°29	5°54	n.a.	M21
T 22	13 43 14	27° 4'22	5♍15	20°31	14°20	15°16	5°14	26°19	29° 6	3° 4	11°49	13°26	12°26	6° 0	n.a.	T 22
W23	13 47 10	28° 1'53	17° 6	22°39	15°27	15°59	5°20	26°16	29° 4	3° 3	11°49	13°22	12°23	6° 7	n.a.	W23
T 24	13 51 7	28°59'23	29° 3	24°48	16°34	16°42	5°27	26°12	29° 2	3° 2	11°49	13°15	12°19	6°13	n.a.	T 24
F 25	13 55 4	29°56'52	11♎10	26°58	17°42	17°25	5°34	26° 9	29° 0	3° 1	11°48	13° 5	12°16	6°20	n.a.	F 25
S 26	13 59 0	0♉54'19	23°28	29° 8	18°49	18° 8	5°40	26° 5	28°58	3° 1	11°48	12°54	12°13	6°27	n.a.	S 26
S 27	14 2 57	1°51'45	5♏59	1♉20	19°57	18°51	5°46	26° 2	28°56	3° 0	11°48	12°41	12°10	6°33	n.a.	S 27
M28	14 6 53	2°49'09	18°42	3°31	21° 5	19°34	5°53	25°59	28°53	2°59	11°48	12°28	12° 7	6°40	n.a.	M28
T 29	14 10 50	3°46'33	1♐38	5°43	22°12	20°17	5°59	25°56	28°51	2°59	11°47	12°17	12° 3	6°47	n.a.	T 29
W30	14 14 46	4♉43'56	14♐45	7♉54	23♓20	21♈ 0	6♒ 4	25♍53	28♏49	2♍58	11♑47	12♌ 8	12♌ 0	6♍53	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	2n45	13s33	5n 4	9s18	2s39	14s42	0s10	0s38	0s40	20s36	0s44	3n30	2n50	20s14	0n 5	11n44	1n29	29s 2	5s52	16n36	16n57	11n56		n.a.	T 1
W 2	3 8	16 36	4 48	8 43	2 38	14 25	0 15	0 20	0 40	20 34	0 45	3 32	2 50	20 13	0 5	11 45	1 29	29 2	5 52	16 38	16 58	11 54		n.a.	W 2
T 3	3 31	18 53	4 17	8 7	2 38	14 9	0 20	0 2	0 39	20 32	0 45	3 34	2 50	20 13	0 5	11 45	1 29	29 2	5 52	16 40	16 59	11 52		n.a.	T 3
F 4	3 54	20 11	3 31	7 29	2 36	13 51	0 25	0n17	0 39	20 30	0 45	3 36	2 50	20 13	0 5	11 46	1 29	29 2	5 53	16 40	17 0	11 51		n.a.	F 4
S 5	4 17	20 22	2 33	6 50	2 34	13 34	0 29	0 35	0 38	20 28	0 45	3 37	2 50	20 13	0 5	11 46	1 29	29 3	5 53	16 40	17 1	11 49		n.a.	S 5
S 6	4 40	19 18	1 24	6 9	2 31	13 16	0 33	0 53	0 38	20 26	0 45	3 39	2 50	20 12	0 5	11 46	1 29	29 3	5 53	16 40	17 2	11 47		n.a.	S 6
M 7	5 3	17 0	0 9	5 27	2 28	12 57	0 38	1 11	0 37	20 24	0 46	3 41	2 50	20 12	0 5	11 47	1 29	29 3	5 53	16 40	17 3	11 45		n.a.	M 7
T 8	5 26	13 34	1s 9	4 43	2 24	12 38	0 42	1 29	0 37	20 22	0 46	3 42	2 50	20 12	0 5	11 47	1 29	29 3	5 54	16 40	17 4	11 44		n.a.	T 8
W 9	5 48	9 14	2 23	3 58	2 20	12 19	0 46	1 47	0 36	20 20	0 46	3 44	2 50	20 12	0 5	11 48	1 29	29 4	5 54	16 41	17 4	11 42		n.a.	W 9
T 10	6 11	4 18	3 27	3 12	2 15	11 59	0 50	2 5	0 36	20 19	0 46	3 46	2 50	20 11	0 5	11 48	1 29	29 4	5 54	16 42	17 5	11 40		n.a.	T 10
F 11	6 34	0n53	4 18	2 24	2 10	11 39	0 54	2 23	0 35	20 17	0 47	3 47	2 50	20 11	0 5	11 48	1 29	29 4	5 54	16 45	17 6	11 39		n.a.	F 11
S 12	6 56	5 58	4 50	1 35	2 4	11 19	0 57	2 41	0 35	20 15	0 47	3 49	2 50	20 11	0 5	11 49	1 28	29 4	5 55	16 47	17 7	11 37		n.a.	S 12
S 13	7 18	10 37	5 4	0 45	1 58	10 58	1 1	2 59	0 34	20 13	0 47	3 50	2 50	20 10	0 5	11 49	1 28	29 4	5 55	16 50	17 8	11 35		n.a.	S 13
M14	7 40	14 33	4 58	0n 6	1 51	10 37	1 5	3 17	0 33	20 11	0 47	3 52	2 49	20 10	0 5	11 50	1 28	29 5	5 55	16 53	17 9	11 34		n.a.	M14
T 15	8 2	17 34	4 35	0 59	1 43	10 15	1 8	3 35	0 33	20 10	0 48	3 53	2 49	20 9	0 5	11 50	1 28	29 5	5 55	16 55	17 10	11 32		n.a.	T 15
W16	8 24	19 33	3 57	1 52	1 36	9 54	1 11	3 53	0 32	20 8	0 48	3 55	2 49	20 9	0 5	11 50	1 28	29 5	5 56	16 57	17 11	11 30		n.a.	W16
T 17	8 46	20 28	3 9	2 47	1 27	9 31	1 15	4 10	0 32	20 6	0 48	3 56	2 49	20 9	0 5	11 51	1 28	29 5	5 56	16 58	17 12	11 28		n.a.	T 17
F 18	9 8	20 20	2 13	3 42	1 19	9 9	1 18	4 28	0 31	20 5	0 48	3 58	2 49	20 8	0 5	11 51	1 28	29 6	5 56	16 58	17 13	11 27		n.a.	F 18
S 19	9 29	19 16	1 13	4 38	1 9	8 46	1 21	4 46	0 31	20 3	0 48	3 59	2 49	20 8	0 5	11 51	1 28	29 6	5 56	16 58	17 14	11 25		n.a.	S 19
S 20	9 51	17 20	0 10	5 35	1 0	8 23	1 24	5 3	0 30	20 2	0 49	4 0	2 49	20 8	0 5	11 51	1 28	29 6	5 57	16 58	17 14	11 23		n.a.	S 20
M21	10 12	14 41	0n53	6 32	0 50	8 0	1 26	5 21	0 29	20 0	0 49	4 2	2 49	20 7	0 5	11 52	1 28	29 6	5 57	16 58	17 15	11 21		n.a.	M21
T 22	10 33	11 27	1 53	7 29	0 40	7 36	1 29	5 38	0 29	19 59	0 49	4 3	2 48	20 7	0 5	11 52	1 28	29 7	5 57	16 59	17 16	11 20		n.a.	T 22
W23	10 54	7 44	2 48	8 27	0 30	7 12	1 32	5 55	0 28	19 57	0 50	4 4	2 48	20 6	0 5	11 52	1 28	29 7	5 57	17 0	17 17	11 18		n.a.	W23
T 24	11 14	3 42	3 37	9 25	0 19	6 48	1 34	6 13	0 28	19 56	0 50	4 6	2 48	20 6	0 5	11 53	1 28	29 7	5 57	17 2	17 18	11 16		n.a.	T 24
F 25	11 35	0s33	4 16	10 22	0 9	6 24	1 37	6 30	0 27	19 54	0 50	4 7	2 48	20 5	0 5	11 53	1 28	29 7	5 58	17 5	17 19	11 14		n.a.	F 25
S 26	11 55	4 49	4 44	11 19	0n 2	5 59	1 39	6 47	0 27	19 53	0 50	4 8	2 48	20 5	0 5	11 53	1 28	29 8	5 58	17 8	17 20	11 13		n.a.	S 26
S 27	12 16	8 58	4 59	12 16	0 12	5 34	1 41	7 4	0 26	19 52	0 51	4 9	2 48	20 5	0 5	11 53	1 28	29 8	5 58	17 12	17 21	11 11		n.a.	S 27
M28	12 36	12 48	4 59	13 11	0 23	5 9	1 43	7 21	0 25	19 50	0 51	4 10	2 47	20 4	0 5	11 53	1 28	29 8	5 58	17 15	17 22	11 9		n.a.	M28
T 29	12 55	16 5	4 44	14 6	0 33	4 44	1 45	7 38	0 25	19 49	0 51	4 11	2 47	20 4	0 5	11 54	1 28	29 8	5 59	17 19	17 23	11 7		n.a.	T 29
W30	13n15	18s38	4n14	14n59	0n43	4s18	1s47	7n55	0s24	19s48	0s51	4n12	2n47	20s 3	0n 5	11n54	1n28	29s 9	5s59	17n21	17n23	11n 6		n.a.	W30

Julian Day Number = 1649193.5, Delta T = 03h31m59s
Ecliptic obliquity = 23°43'03, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°47'56, Lahiri = - 6°40'55 Julian Calendar 1 Apr. 198 BCE == Greg. Calendar 29 March 198 BCE

The year -197 astronomical counting style corresponds to year 198 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 198 BCE
geocentric

MAY 198 BCE (-197) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 18 43	5♉41'18	28♐ 4	10♉ 5	24♓28	21♈42	6♒10	25°R50	28°R47	2°R57	11°R47	12°R 1	11♌57	7♍ 0	n.a.	T 1
F 2	14 22 39	6°38'40	11♑34	12°15	25°36	22°25	6°15	25♍47	28♏45	2♍57	11♑46	11♌57	11°54	7° 7	n.a.	F 2
S 3	14 26 36	7°36'00	25°16	14°25	26°45	23° 8	6°21	25°44	28°43	2°56	11°46	11°56	11°51	7°13	n.a.	S 3
S 4	14 30 33	8°33'20	9♒ 9	16°32	27°53	23°50	6°26	25°41	28°40	2°56	11°45	11°55	11°48	7°20	n.a.	S 4
M 5	14 34 29	9°30'40	23°15	18°39	29° 1	24°33	6°31	25°39	28°38	2°55	11°45	11°55	11°44	7°27	n.a.	M 5
T 6	14 38 26	10°27'58	7♓32	20°44	0♈10	25°15	6°36	25°36	28°36	2°55	11°44	11°54	11°41	7°33	n.a.	T 6
W 7	14 42 22	11°25'17	21°59	22°46	1°19	25°58	6°40	25°34	28°34	2°55	11°44	11°50	11°38	7°40	n.a.	W 7
T 8	14 46 19	12°22'34	6♈32	24°47	2°27	26°40	6°45	25°31	28°31	2°54	11°43	11°44	11°35	7°47	n.a.	T 8
F 9	14 50 15	13°19'51	21° 5	26°46	3°36	27°22	6°49	25°29	28°29	2°54	11°43	11°35	11°32	7°53	n.a.	F 9
S 10	14 54 12	14°17'07	5♉32	28°43	4°45	28° 5	6°53	25°27	28°27	2°54	11°42	11°24	11°28	8° 0	n.a.	S 10
S 11	14 58 8	15°14'23	19°47	0♊37	5°54	28°47	6°57	25°24	28°24	2°53	11°42	11°13	11°25	8° 7	n.a.	S 11
M12	15 2 5	16°11'38	3♊43	2°29	7° 3	29°29	7° 1	25°22	28°22	2°53	11°41	11° 1	11°22	8°13	n.a.	M12
T 13	15 6 2	17° 8'52	17°16	4°19	8°12	0♉11	7° 5	25°20	28°20	2°53	11°40	10°52	11°19	8°20	n.a.	T 13
W14	15 9 58	18° 6'05	0♋26	6° 6	9°21	0°53	7° 8	25°19	28°17	2°53	11°40	10°44	11°16	8°27	n.a.	W14
T 15	15 13 55	19° 3'18	13°12	7°51	10°30	1°35	7°11	25°17	28°15	2°53	11°39	10°40	11°13	8°33	n.a.	T 15
F 16	15 17 51	20° 0'30	25°37	9°33	11°40	2°17	7°14	25°15	28°12	2°53	11°38	10°37	11° 9	8°40	n.a.	F 16
S 17	15 21 48	20°57'41	7♌46	11°13	12°49	2°59	7°17	25°13	28°10	2°53	11°37	10°D36	11° 6	8°47	n.a.	S 17
S 18	15 25 44	21°54'51	19°42	12°51	13°59	3°41	7°20	25°12	28° 8	2°53	11°37	10°R37	11° 3	8°53	n.a.	S 18
M19	15 29 41	22°52'00	1♍33	14°25	15° 8	4°22	7°22	25°11	28° 5	2°D52	11°36	10°36	11° 0	9° 0	n.a.	M19
T 20	15 33 37	23°49'09	13°22	15°58	16°18	5° 4	7°25	25° 9	28° 3	2°53	11°35	10°35	10°57	9° 7	n.a.	T 20
W21	15 37 34	24°46'17	25°15	17°27	17°28	5°46	7°27	25° 8	28° 0	2°53	11°34	10°31	10°54	9°13	n.a.	W21
T 22	15 41 31	25°43'24	7♎17	18°55	18°37	6°27	7°29	25° 7	27°58	2°53	11°33	10°25	10°50	9°20	n.a.	T 22
F 23	15 45 27	26°40'31	19°31	20°19	19°47	7° 9	7°30	25° 6	27°55	2°53	11°33	10°17	10°47	9°27	n.a.	F 23
S 24	15 49 24	27°37'38	2♏ 0	21°41	20°57	7°50	7°32	25° 5	27°53	2°53	11°32	10° 6	10°44	9°33	n.a.	S 24
S 25	15 53 20	28°34'44	14°46	23° 0	22° 7	8°32	7°33	25° 4	27°50	2°53	11°31	9°55	10°41	9°40	n.a.	S 25
M26	15 57 17	29°31'49	27°47	24°17	23°17	9°13	7°34	25° 3	27°48	2°53	11°30	9°43	10°38	9°47	n.a.	M26
T 27	16 1 13	0♊28'55	11♐ 4	25°31	24°27	9°55	7°35	25° 3	27°46	2°54	11°29	9°32	10°34	9°53	n.a.	T 27
W28	16 5 10	1°26'00	24°34	26°41	25°37	10°36	7°36	25° 2	27°43	2°54	11°28	9°24	10°31	10° 0	n.a.	W28
T 29	16 9 6	2°23'06	8♑15	27°49	26°47	11°17	7°37	25° 1	27°41	2°54	11°27	9°18	10°28	10° 7	n.a.	T 29
F 30	16 13 3	3°20'12	22° 5	28°55	27°58	11°58	7°37	25° 1	27°38	2°55	11°26	9°15	10°25	10°13	n.a.	F 30
S 31	16 17 0	4♊17'17	6♒ 2	29♊57	29♈ 8	12♉39	7♒37	25♍ 1	27♏36	2♍55	11♑25	9°D14	10♌22	10♍20	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	13n34	20s12	3n30	15n51	0n53	3s53	1s48	8n11	0s24	19s47	0s52	4n13	2n47	20s 3	0n 5	11n54	1n28	29s 9	5s59	17n23	17n24	11n 4			n.a.
F 2	13 53	20 40	2 33	16 41	1 2	3 27	1 50	8 28	0 23	19 46	0 52	4 14	2 47	20 2	0 5	11 54	1 28	29 9	5 59	17 24	17 25	11 2			n.a.
S 3	14 12	19 54	1 27	17 29	1 11	3 1	1 52	8 45	0 22	19 45	0 52	4 15	2 47	20 2	0 5	11 54	1 28	29 9	6 0	17 25	17 26	11 0			n.a.
S 4	14 31	17 56	0 15	18 14	1 19	2 35	1 53	9 1	0 22	19 44	0 52	4 16	2 46	20 1	0 5	11 54	1 28	29 10	6 0	17 25	17 27	10 59			n.a.
M 5	14 50	14 52	1s 0	18 58	1 27	2 8	1 54	9 17	0 21	19 43	0 53	4 17	2 46	20 1	0 5	11 55	1 28	29 10	6 0	17 25	17 28	10 57			n.a.
T 6	15 8	10 52	2 11	19 39	1 34	1 42	1 56	9 34	0 21	19 42	0 53	4 18	2 46	20 0	0 5	11 55	1 28	29 10	6 0	17 25	17 29	10 55			n.a.
W 7	15 26	6 12	3 15	20 18	1 41	1 15	1 57	9 50	0 20	19 41	0 53	4 19	2 46	20 0	0 5	11 55	1 28	29 11	6 0	17 26	17 30	10 53			n.a.
T 8	15 44	1 9	4 6	20 55	1 47	0 49	1 58	10 6	0 19	19 40	0 54	4 20	2 46	19 59	0 5	11 55	1 28	29 11	6 1	17 28	17 31	10 51			n.a.
F 9	16 1	3n58	4 42	21 29	1 52	0 22	1 59	10 22	0 19	19 39	0 54	4 20	2 45	19 59	0 5	11 55	1 28	29 11	6 1	17 31	17 31	10 50			n.a.
S 10	16 19	8 49	4 59	22 0	1 57	0n 5	1 59	10 38	0 18	19 38	0 54	4 21	2 45	19 58	0 5	11 55	1 28	29 11	6 1	17 34	17 32	10 48			n.a.
S 11	16 36	13 7	4 57	22 29	2 1	0 32	2 0	10 53	0 18	19 38	0 54	4 22	2 45	19 58	0 5	11 55	1 28	29 12	6 1	17 37	17 33	10 46			n.a.
M12	16 52	16 36	4 38	22 55	2 4	0 59	2 1	11 9	0 17	19 37	0 55	4 22	2 45	19 57	0 5	11 55	1 27	29 12	6 2	17 40	17 34	10 44			n.a.
T 13	17 9	19 4	4 3	23 19	2 6	1 26	2 1	11 25	0 16	19 36	0 55	4 23	2 45	19 57	0 5	11 55	1 27	29 12	6 2	17 43	17 35	10 42			n.a.
W14	17 25	20 27	3 16	23 40	2 8	1 53	2 2	11 40	0 16	19 36	0 55	4 24	2 44	19 56	0 5	11 55	1 27	29 12	6 2	17 45	17 36	10 41			n.a.
T 15	17 41	20 44	2 20	23 59	2 9	2 20	2 2	11 55	0 15	19 35	0 56	4 24	2 44	19 56	0 5	11 55	1 27	29 13	6 2	17 46	17 37	10 39			n.a.
F 16	17 57	19 59	1 19	24 16	2 9	2 47	2 2	12 11	0 15	19 35	0 56	4 25	2 44	19 55	0 5	11 55	1 27	29 13	6 2	17 47	17 38	10 37			n.a.
S 17	18 12	18 18	0 15	24 30	2 8	3 15	2 2	12 26	0 14	19 34	0 56	4 25	2 44	19 55	0 5	11 55	1 27	29 13	6 3	17 47	17 39	10 35			n.a.
S 18	18 27	15 50	0n48	24 42	2 7	3 42	2 3	12 41	0 13	19 34	0 56	4 25	2 43	19 54	0 5	11 55	1 27	29 14	6 3	17 47	17 39	10 33			n.a.
M19	18 42	12 44	1 49	24 52	2 5	4 9	2 3	12 56	0 13	19 33	0 57	4 26	2 43	19 53	0 5	11 55	1 27	29 14	6 3	17 47	17 40	10 32			n.a.
T 20	18 57	9 8	2 45	25 0	2 3	4 36	2 2	13 10	0 12	19 33	0 57	4 26	2 43	19 53	0 4	11 55	1 27	29 14	6 3	17 47	17 41	10 30			n.a.
W21	19 11	5 10	3 34	25 6	1 59	5 3	2 2	13 25	0 11	19 33	0 57	4 26	2 43	19 52	0 4	11 55	1 27	29 14	6 3	17 48	17 42	10 28			n.a.
T 22	19 25	0 57	4 14	25 10	1 56	5 30	2 2	13 39	0 11	19 33	0 58	4 27	2 42	19 52	0 4	11 55	1 27	29 15	6 4	17 50	17 43	10 26			n.a.
F 23	19 38	3s22	4 43	25 12	1 51	5 57	2 1	13 54	0 10	19 32	0 58	4 27	2 42	19 51	0 4	11 55	1 27	29 15	6 4	17 52	17 44	10 24			n.a.
S 24	19 52	7 38	4 59	25 13	1 46	6 24	2 1	14 8	0 10	19 32	0 58	4 27	2 42	19 51	0 4	11 55	1 27	29 15	6 4	17 55	17 45	10 22			n.a.
S 25	20 4	11 40	5 1	25 11	1 40	6 51	2 0	14 22	0 9	19 32	0 58	4 27	2 42	19 50	0 4	11 55	1 27	29 15	6 4	17 58	17 46	10 21			n.a.
M26	20 17	15 14	4 47	25 9	1 33	7 18	2 0	14 36	0 8	19 32	0 59	4 27	2 41	19 50	0 4	11 55	1 27	29 16	6 4	18 1	17 46	10 19			n.a.
T 27	20 29	18 6	4 18	25 4	1 26	7 44	1 59	14 50	0 8	19 32	0 59	4 27	2 41	19 49	0 4	11 55	1 27	29 16	6 5	18 4	17 47	10 17			n.a.
W28	20 41	20 2	3 34	24 59	1 18	8 11	1 58	15 4	0 7	19 32	0 59	4 27	2 41	19 49	0 4	11 54	1 27	29 16	6 5	18 7	17 48	10 15			n.a.
T 29	20 53	20 51	2 37	24 52	1 10	8 37	1 57	15 17	0 6	19 32	1 0	4 27	2 41	19 48	0 4	11 54	1 27	29 17	6 5	18 8	17 49	10 13			n.a.
F 30	21 4	20 24	1 30	24 44	1 1	9 4	1 56	15 31	0 6	19 33	1 0	4 27	2 40	19 47	0 4	11 54	1 27	29 17	6 5	18 9	17 50	10 11			n.a.
S 31	21n15	18s42	0n17	24n34	0n51	9n30	1s55	15n44	0s 5	19s33	1s 0	4n27	2n40	19s47	0n 4	11n54	1n27	29s17	6s 5	18n 9	17n51	10n10			n.a.

Julian Day Number = 1649223.5, Delta T = 03h31m58s
Ecliptic obliquity = 23°43'03, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°47'51, Lahiri = - 6°40'51 Julian Calendar 1 May 198 BCE == Greg. Calendar 28 Apr. 198 BCE

The year -197 astronomical counting style corresponds to year 198 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 198 BCE
geocentric

JUNE 198 BCE (-197) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 20 56	5♊14'23	20♒ 4	0♋55	0♉19	13♉21	7°R37	25°R 1	27°R33	2♍55	11°R24	9♌14	10♌19	10♍27	n.a.	S 1
M 2	16 24 53	6°11'29	4♓10	1°51	1°29	14° 2	7♒37	25°D 1	27♏31	2°56	11♑23	9°R14	10°15	10°33	n.a.	M 2
T 3	16 28 49	7° 8'36	18°20	2°43	2°40	14°43	7°37	25♍ 1	27°29	2°56	11°22	9°14	10°12	10°40	n.a.	T 3
W 4	16 32 46	8° 5'43	2♈32	3°32	3°50	15°23	7°36	25° 1	27°26	2°57	11°21	9°11	10° 9	10°47	n.a.	W 4
T 5	16 36 42	9° 2'50	16°44	4°18	5° 1	16° 4	7°36	25° 1	27°24	2°57	11°20	9° 7	10° 6	10°53	n.a.	T 5
F 6	16 40 39	9°59'57	0♉52	4°59	6°12	16°45	7°35	25° 1	27°21	2°58	11°18	9° 0	10° 3	11° 0	n.a.	F 6
S 7	16 44 36	10°57'05	14°53	5°37	7°22	17°26	7°34	25° 2	27°19	2°58	11°17	8°52	10° 0	11° 7	n.a.	S 7
S 8	16 48 32	11°54'14	28°43	6°11	8°33	18° 7	7°32	25° 2	27°17	2°59	11°16	8°42	9°56	11°13	n.a.	S 8
M 9	16 52 29	12°51'22	12♊18	6°41	9°44	18°47	7°31	25° 3	27°14	3° 0	11°15	8°33	9°53	11°20	n.a.	M 9
T 10	16 56 25	13°48'31	25°35	7° 6	10°55	19°28	7°29	25° 3	27°12	3° 0	11°14	8°26	9°50	11°27	n.a.	T 10
W11	17 0 22	14°45'41	8♋33	7°27	12° 6	20° 9	7°27	25° 4	27°10	3° 1	11°13	8°20	9°47	11°33	n.a.	W11
T 12	17 4 18	15°42'50	21°12	7°44	13°17	20°49	7°25	25° 5	27° 7	3° 2	11°11	8°16	9°44	11°40	n.a.	T 12
F 13	17 8 15	16°40'00	3♌33	7°56	14°28	21°30	7°23	25° 6	27° 5	3° 3	11°10	8°D15	9°40	11°47	n.a.	F 13
S 14	17 12 11	17°37'10	15°40	8° 3	15°40	22°10	7°20	25° 7	27° 3	3° 4	11° 9	8°15	9°37	11°53	n.a.	S 14
S 15	17 16 8	18°34'20	27°37	8°R 6	16°51	22°50	7°17	25° 8	27° 1	3° 4	11° 8	8°16	9°34	12° 0	n.a.	S 15
M16	17 20 5	19°31'30	9♍27	8° 4	18° 2	23°31	7°15	25°10	26°59	3° 5	11° 6	8°17	9°31	12° 7	n.a.	M16
T 17	17 24 1	20°28'40	21°18	7°57	19°13	24°11	7°12	25°11	26°56	3° 6	11° 5	8°R17	9°28	12°13	n.a.	T 17
W18	17 27 58	21°25'51	3♎12	7°45	20°25	24°51	7° 8	25°13	26°54	3° 7	11° 4	8°17	9°25	12°20	n.a.	W18
T 19	17 31 54	22°23'02	15°16	7°28	21°36	25°31	7° 5	25°14	26°52	3° 8	11° 3	8°14	9°21	12°27	n.a.	T 19
F 20	17 35 51	23°20'13	27°34	7° 7	22°48	26°11	7° 1	25°16	26°50	3° 9	11° 1	8°10	9°18	12°33	n.a.	F 20
S 21	17 39 47	24°17'25	10♏ 9	6°41	23°59	26°51	6°58	25°18	26°48	3°10	11° 0	8° 4	9°15	12°40	n.a.	S 21
S 22	17 43 44	25°14'37	23° 4	6°12	25°11	27°31	6°54	25°19	26°46	3°11	10°59	7°57	9°12	12°47	n.a.	S 22
M23	17 47 40	26°11'50	6♐20	5°38	26°23	28°11	6°49	25°21	26°44	3°12	10°57	7°50	9° 9	12°53	n.a.	M23
T 24	17 51 37	27° 9'03	19°55	5° 2	27°34	28°51	6°45	25°23	26°42	3°13	10°56	7°44	9° 6	13° 0	n.a.	T 24
W25	17 55 34	28° 6'17	3♑47	4°22	28°46	29°31	6°41	25°25	26°40	3°15	10°55	7°39	9° 2	13° 7	n.a.	W25
T 26	17 59 30	29° 3'33	17°53	3°41	29°58	0♊11	6°36	25°28	26°38	3°16	10°53	7°35	8°59	13°13	n.a.	T 26
F 27	18 3 27	0♋ 0'48	2♒ 8	2°58	1♊10	0°51	6°31	25°30	26°36	3°17	10°52	7°D34	8°56	13°20	n.a.	F 27
S 28	18 7 23	0°58'05	16°28	2°14	2°22	1°30	6°26	25°32	26°34	3°18	10°51	7°34	8°53	13°27	n.a.	S 28
S 29	18 11 20	1°55'23	0♓49	1°31	3°34	2°10	6°21	25°35	26°32	3°19	10°49	7°35	8°50	13°33	n.a.	S 29
M30	18 15 16	2♋52'43	15♓ 8	0♋48	4♊46	2♊50	6♒16	25♍37	26♏30	3♍21	10♑48	7♌37	8♌46	13♍40	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n25	15s52	0s58	24n24	0n41	9n56	1s54	15n57	0s 5	19s33	1s 1	4n27	2n40	19s46	0n 4	11n54	1n27	29s17	6s 6	18n 9	17n52	10n 8		n.a.
M 2	21 36	12 5	2 9	24 13	0 30	10 22	1 53	16 10	0 4	19 33	1 1	4 27	2 40	19 46	0 4	11 53	1 27	29 18	6 6	18 9	17 53	10 6		n.a.
T 3	21 45	7 37	3 13	24 0	0 19	10 47	1 52	16 23	0 3	19 34	1 1	4 26	2 39	19 45	0 4	11 53	1 27	29 18	6 6	18 9	17 53	10 4		n.a.
W 4	21 55	2 43	4 5	23 48	0 7	11 13	1 51	16 36	0 3	19 34	1 1	4 26	2 39	19 45	0 4	11 53	1 27	29 18	6 6	18 10	17 54	10 2		n.a.
T 5	22 4	2n19	4 42	23 34	0s 5	11 38	1 49	16 48	0 2	19 35	1 2	4 26	2 39	19 44	0 4	11 53	1 27	29 18	6 6	18 11	17 55	10 0		n.a.
F 6	22 12	7 12	5 2	23 20	0 17	12 3	1 48	17 1	0 1	19 35	1 2	4 25	2 39	19 44	0 4	11 53	1 26	29 19	6 6	18 13	17 56	9 58		n.a.
S 7	22 21	11 40	5 3	23 5	0 31	12 28	1 46	17 13	0 1	19 36	1 2	4 25	2 38	19 43	0 4	11 52	1 26	29 19	6 7	18 15	17 57	9 56		n.a.
S 8	22 29	15 27	4 47	22 50	0 44	12 52	1 45	17 25	0 0	19 36	1 3	4 25	2 38	19 43	0 4	11 52	1 26	29 19	6 7	18 18	17 58	9 55		n.a.
M 9	22 36	18 20	4 14	22 35	0 58	13 16	1 43	17 37	0n 1	19 37	1 3	4 24	2 38	19 42	0 4	11 52	1 26	29 20	6 7	18 20	17 59	9 53		n.a.
T 10	22 43	20 10	3 28	22 19	1 12	13 40	1 41	17 49	0 1	19 38	1 3	4 24	2 38	19 42	0 4	11 51	1 26	29 20	6 7	18 22	17 59	9 51		n.a.
W11	22 50	20 54	2 33	22 4	1 27	14 4	1 39	18 1	0 2	19 39	1 4	4 23	2 37	19 41	0 4	11 51	1 26	29 20	6 7	18 24	18 0	9 49		n.a.
T 12	22 56	20 32	1 30	21 48	1 41	14 28	1 38	18 12	0 3	19 40	1 4	4 22	2 37	19 40	0 4	11 51	1 26	29 20	6 7	18 25	18 1	9 47		n.a.
F 13	23 2	19 11	0 25	21 33	1 56	14 51	1 36	18 24	0 3	19 40	1 4	4 22	2 37	19 40	0 4	11 51	1 26	29 21	6 7	18 25	18 2	9 45		n.a.
S 14	23 8	16 58	0n40	21 17	2 11	15 13	1 34	18 35	0 4	19 41	1 4	4 21	2 37	19 39	0 4	11 50	1 26	29 21	6 8	18 25	18 3	9 43		n.a.
S 15	23 13	14 3	1 43	21 3	2 26	15 36	1 32	18 46	0 4	19 42	1 5	4 20	2 36	19 39	0 4	11 50	1 26	29 21	6 8	18 25	18 4	9 41		n.a.
M16	23 18	10 35	2 40	20 48	2 41	15 58	1 30	18 57	0 5	19 43	1 5	4 20	2 36	19 38	0 4	11 50	1 26	29 21	6 8	18 24	18 5	9 39		n.a.
T 17	23 22	6 43	3 31	20 34	2 55	16 20	1 28	19 8	0 6	19 44	1 5	4 19	2 36	19 38	0 4	11 49	1 26	29 22	6 8	18 24	18 5	9 38		n.a.
W18	23 26	2 35	4 13	20 20	3 9	16 41	1 25	19 18	0 6	19 46	1 6	4 18	2 36	19 37	0 4	11 49	1 26	29 22	6 8	18 24	18 6	9 36		n.a.
T 19	23 30	1s42	4 45	20 8	3 23	17 2	1 23	19 29	0 7	19 47	1 6	4 17	2 35	19 37	0 4	11 48	1 26	29 22	6 8	18 25	18 7	9 34		n.a.
F 20	23 33	6 0	5 4	19 56	3 36	17 23	1 21	19 39	0 8	19 48	1 6	4 16	2 35	19 36	0 4	11 48	1 26	29 22	6 8	18 26	18 8	9 32		n.a.
S 21	23 36	10 9	5 9	19 45	3 48	17 43	1 19	19 49	0 8	19 49	1 6	4 15	2 35	19 36	0 4	11 48	1 26	29 23	6 9	18 28	18 9	9 30		n.a.
S 22	23 38	13 56	4 59	19 35	4 0	18 3	1 16	19 59	0 9	19 50	1 7	4 14	2 35	19 36	0 4	11 47	1 26	29 23	6 9	18 30	18 10	9 28		n.a.
M23	23 40	17 9	4 32	19 26	4 10	18 22	1 14	20 9	0 10	19 52	1 7	4 13	2 34	19 35	0 4	11 47	1 26	29 23	6 9	18 31	18 11	9 26		n.a.
T 24	23 41	19 31	3 50	19 18	4 20	18 41	1 12	20 18	0 10	19 53	1 7	4 12	2 34	19 35	0 4	11 46	1 26	29 23	6 9	18 33	18 11	9 24		n.a.
W25	23 42	20 47	2 53	19 11	4 27	18 59	1 9	20 28	0 11	19 54	1 8	4 11	2 34	19 34	0 4	11 46	1 26	29 24	6 9	18 34	18 12	9 22		n.a.
T 26	23 43	20 46	1 45	19 6	4 34	19 17	1 7	20 37	0 12	19 56	1 8	4 10	2 34	19 34	0 4	11 45	1 26	29 24	6 9	18 35	18 13	9 20		n.a.
F 27	23 43	19 26	0 30	19 2	4 39	19 35	1 4	20 46	0 12	19 57	1 8	4 9	2 33	19 33	0 4	11 45	1 26	29 24	6 9	18 36	18 14	9 18		n.a.
S 28	23 43	16 51	0s48	19 0	4 42	19 52	1 2	20 55	0 13	19 59	1 8	4 8	2 33	19 33	0 4	11 44	1 26	29 24	6 9	18 35	18 15	9 16		n.a.
S 29	23 42	13 14	2 4	18 59	4 44	20 8	0 59	21 4	0 14	20 0	1 9	4 7	2 33	19 32	0 4	11 44	1 26	29 24	6 10	18 35	18 16	9 15		n.a.
M30	23n41	8s51	3s11	18n59	4s43	20n24	0s57	21n12	0n14	20s 2	1s 9	4n 5	2n33	19s32	0n 4	11n43	1n26	29s25	6s10	18n35	18n17	9n13		n.a.

Julian Day Number = 1649254.5, Delta T = 03h31m57s
Ecliptic obliquity = 23°43'03, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°47'47, Lahiri = - 6°40'47 Julian Calendar 1 June 198 BCE == Greg. Calendar 29 May 198 BCE

The year -197 astronomical counting style corresponds to year 198 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 198 BCE
geocentric

JULY 198 BCE (-197) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 19 13	3♋50'03	29♓22	0°R 7	5♊58	3♊29	6°R11	25♍40	26°R29	3♍22	10°R47	7°R37	8♌43	13♍47	n.a.	T 1
W 2	18 23 9	4°47'24	13♈28	29♊28	7°10	4° 9	6♒ 5	25°43	26♏27	3°23	10♑45	7♌37	8°40	13°53	n.a.	W 2
T 3	18 27 6	5°44'47	27°26	28°53	8°22	4°48	5°59	25°46	26°25	3°25	10°44	7°36	8°37	14° 0	n.a.	T 3
F 4	18 31 3	6°42'12	11♉14	28°21	9°35	5°28	5°54	25°49	26°24	3°26	10°43	7°33	8°34	14° 7	n.a.	F 4
S 5	18 34 59	7°39'37	24°51	27°54	10°47	6° 7	5°48	25°52	26°22	3°27	10°41	7°29	8°31	14°13	n.a.	S 5
S 6	18 38 56	8°37'04	8♊15	27°32	11°59	6°46	5°41	25°55	26°20	3°29	10°40	7°24	8°27	14°20	n.a.	S 6
M 7	18 42 52	9°34'33	21°26	27°15	13°12	7°26	5°35	25°58	26°19	3°30	10°38	7°20	8°24	14°27	n.a.	M 7
T 8	18 46 49	10°32'02	4♋21	27° 4	14°24	8° 5	5°29	26° 1	26°17	3°32	10°37	7°16	8°21	14°33	n.a.	T 8
W 9	18 50 45	11°29'33	17° 2	27°D 0	15°37	8°44	5°22	26° 5	26°16	3°33	10°36	7°14	8°18	14°40	n.a.	W 9
T 10	18 54 42	12°27'05	29°28	27° 2	16°49	9°23	5°16	26° 8	26°14	3°35	10°34	7°12	8°15	14°47	n.a.	T 10
F 11	18 58 39	13°24'38	11♌41	27°11	18° 2	10° 2	5° 9	26°12	26°13	3°36	10°33	7°D12	8°12	14°53	n.a.	F 11
S 12	19 2 35	14°22'12	23°44	27°27	19°15	10°41	5° 2	26°15	26°11	3°38	10°32	7°13	8° 8	15° 0	n.a.	S 12
S 13	19 6 32	15°19'47	5♍38	27°50	20°27	11°20	4°55	26°19	26°10	3°40	10°30	7°14	8° 5	15° 7	n.a.	S 13
M14	19 10 28	16°17'24	17°28	28°20	21°40	11°59	4°48	26°23	26° 9	3°41	10°29	7°16	8° 2	15°13	n.a.	M14
T 15	19 14 25	17°15'01	29°18	28°57	22°53	12°38	4°41	26°27	26° 8	3°43	10°27	7°17	7°59	15°20	n.a.	T 15
W16	19 18 21	18°12'40	11♎12	29°41	24° 6	13°17	4°34	26°31	26° 6	3°45	10°26	7°18	7°56	15°27	n.a.	W16
T 17	19 22 18	19°10'20	23°15	0♋31	25°19	13°55	4°26	26°35	26° 5	3°46	10°25	7°R18	7°52	15°33	n.a.	T 17
F 18	19 26 14	20° 8'00	5♏32	1°28	26°32	14°34	4°19	26°39	26° 4	3°48	10°23	7°18	7°49	15°40	n.a.	F 18
S 19	19 30 11	21° 5'43	18° 8	2°32	27°45	15°13	4°12	26°43	26° 3	3°50	10°22	7°16	7°46	15°47	n.a.	S 19
S 20	19 34 8	22° 3'26	1♐ 5	3°41	28°58	15°51	4° 4	26°47	26° 2	3°52	10°21	7°15	7°43	15°53	n.a.	S 20
M21	19 38 4	23° 1'11	14°25	4°57	0♋11	16°30	3°56	26°51	26° 1	3°53	10°19	7°13	7°40	16° 0	n.a.	M21
T 22	19 42 1	23°58'57	28°10	6°18	1°24	17° 8	3°49	26°56	26° 0	3°55	10°18	7°11	7°37	16° 7	n.a.	T 22
W23	19 45 57	24°56'44	12♑17	7°45	2°37	17°47	3°41	27° 0	25°59	3°57	10°17	7°10	7°33	16°14	n.a.	W23
T 24	19 49 54	25°54'33	26°43	9°16	3°50	18°25	3°33	27° 5	25°58	3°59	10°15	7° 9	7°30	16°20	n.a.	T 24
F 25	19 53 50	26°52'24	11♒23	10°52	5° 4	19° 3	3°26	27° 9	25°58	4° 1	10°14	7°D 9	7°27	16°27	n.a.	F 25
S 26	19 57 47	27°50'16	26° 9	12°32	6°17	19°42	3°18	27°14	25°57	4° 2	10°13	7° 9	7°24	16°34	n.a.	S 26
S 27	20 1 43	28°48'10	10♓55	14°15	7°30	20°20	3°10	27°19	25°56	4° 4	10°11	7°10	7°21	16°40	n.a.	S 27
M28	20 5 40	29°46'06	25°34	16° 2	8°44	20°58	3° 2	27°24	25°56	4° 6	10°10	7°10	7°18	16°47	n.a.	M28
T 29	20 9 37	0♌44'04	10♈ 2	17°51	9°57	21°36	2°54	27°29	25°55	4° 8	10° 9	7°11	7°14	16°54	n.a.	T 29
W30	20 13 33	1°42'03	24°14	19°43	11°11	22°14	2°46	27°33	25°54	4°10	10° 8	7°11	7°11	17° 0	n.a.	W30
T 31	20 17 30	2♌40'05	8♉ 9	21♋36	12♋24	22♊52	2♒38	27♍38	25♏54	4♍12	10♑ 6	7°R11	7♌ 8	17♍ 7	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	23n40	4s 0	4s 6	19n 2	4s41	20n40	0s54	21n20	0n15	20s 4	1s 9	4n 4	2n32	19s32	0n 4	11n43	1n26	29s25	6s10	18n35	18n17	9n11			n.a.
W 2	23 38	1n 0	4 45	19 5	4 38	20 55	0 52	21 29	0 16	20 5	1 9	4 3	2 32	19 31	0 4	11 42	1 26	29 25	6 10	18 35	18 18	9 9			n.a.
T 3	23 35	5 54	5 8	19 10	4 32	21 9	0 49	21 37	0 16	20 7	1 10	4 1	2 32	19 31	0 4	11 42	1 26	29 25	6 10	18 35	18 19	9 7			n.a.
F 4	23 33	10 26	5 12	19 17	4 25	21 23	0 46	21 45	0 17	20 9	1 10	4 0	2 32	19 30	0 4	11 41	1 25	29 25	6 10	18 36	18 20	9 5			n.a.
S 5	23 30	14 22	4 58	19 25	4 17	21 36	0 44	21 52	0 18	20 10	1 10	3 58	2 31	19 30	0 4	11 41	1 25	29 26	6 10	18 37	18 21	9 3			n.a.
S 6	23 26	17 31	4 29	19 35	4 7	21 49	0 41	22 0	0 18	20 12	1 10	3 57	2 31	19 30	0 4	11 40	1 25	29 26	6 10	18 38	18 22	9 1			n.a.
M 7	23 22	19 41	3 45	19 45	3 56	22 1	0 38	22 7	0 19	20 14	1 11	3 55	2 31	19 29	0 4	11 40	1 25	29 26	6 10	18 39	18 22	8 59			n.a.
T 8	23 18	20 48	2 51	19 57	3 44	22 12	0 35	22 14	0 20	20 16	1 11	3 54	2 31	19 29	0 4	11 39	1 25	29 26	6 10	18 40	18 23	8 57			n.a.
W 9	23 13	20 49	1 49	20 10	3 31	22 23	0 33	22 21	0 20	20 18	1 11	3 52	2 30	19 29	0 4	11 38	1 25	29 26	6 10	18 41	18 24	8 55			n.a.
T 10	23 8	19 48	0 42	20 25	3 17	22 34	0 30	22 28	0 21	20 20	1 11	3 51	2 30	19 28	0 4	11 38	1 25	29 27	6 10	18 41	18 25	8 53			n.a.
F 11	23 2	17 52	0n25	20 39	3 2	22 43	0 27	22 34	0 22	20 21	1 12	3 49	2 30	19 28	0 4	11 37	1 25	29 27	6 11	18 41	18 26	8 51			n.a.
S 12	22 56	15 11	1 30	20 55	2 47	22 52	0 24	22 41	0 22	20 23	1 12	3 47	2 30	19 28	0 4	11 37	1 25	29 27	6 11	18 41	18 27	8 49			n.a.
S 13	22 49	11 53	2 30	21 11	2 31	23 0	0 22	22 47	0 23	20 25	1 12	3 46	2 30	19 27	0 4	11 36	1 25	29 27	6 11	18 41	18 27	8 47			n.a.
M14	22 43	8 8	3 24	21 27	2 15	23 8	0 19	22 53	0 24	20 27	1 12	3 44	2 29	19 27	0 4	11 35	1 25	29 27	6 11	18 40	18 28	8 45			n.a.
T 15	22 35	4 5	4 9	21 44	1 59	23 15	0 16	22 59	0 24	20 29	1 12	3 42	2 29	19 27	0 4	11 35	1 25	29 28	6 11	18 40	18 29	8 43			n.a.
W16	22 28	0s 8	4 44	22 0	1 43	23 22	0 14	23 4	0 25	20 31	1 13	3 41	2 29	19 27	0 4	11 34	1 25	29 28	6 11	18 40	18 30	8 41			n.a.
T 17	22 20	4 24	5 7	22 16	1 27	23 27	0 11	23 10	0 26	20 33	1 13	3 39	2 29	19 26	0 4	11 34	1 25	29 28	6 11	18 40	18 31	8 39			n.a.
F 18	22 11	8 33	5 16	22 32	1 11	23 32	0 8	23 15	0 27	20 35	1 13	3 37	2 28	19 26	0 4	11 33	1 25	29 28	6 11	18 40	18 32	8 37			n.a.
S 19	22 2	12 27	5 11	22 46	0 55	23 37	0 5	23 20	0 27	20 37	1 13	3 35	2 28	19 26	0 4	11 32	1 25	29 28	6 11	18 40	18 32	8 35			n.a.
S 20	21 53	15 54	4 49	23 0	0 40	23 40	0 3	23 25	0 28	20 39	1 13	3 33	2 28	19 26	0 4	11 32	1 25	29 28	6 11	18 41	18 33	8 33			n.a.
M21	21 44	18 37	4 12	23 12	0 25	23 43	0n 0	23 30	0 29	20 41	1 14	3 31	2 28	19 25	0 4	11 31	1 25	29 28	6 11	18 41	18 34	8 31			n.a.
T 22	21 34	20 23	3 20	23 23	0 11	23 45	0 3	23 34	0 29	20 43	1 14	3 29	2 28	19 25	0 4	11 30	1 25	29 29	6 11	18 41	18 35	8 29			n.a.
W23	21 23	20 56	2 13	23 32	0n 3	23 47	0 5	23 39	0 30	20 45	1 14	3 27	2 27	19 25	0 4	11 30	1 25	29 29	6 11	18 42	18 36	8 27			n.a.
T 24	21 13	20 7	0 57	23 39	0 16	23 48	0 8	23 43	0 31	20 47	1 14	3 25	2 27	19 25	0 4	11 29	1 25	29 29	6 11	18 42	18 36	8 25			n.a.
F 25	21 2	17 57	0s23	23 44	0 28	23 48	0 11	23 47	0 31	20 49	1 14	3 23	2 27	19 25	0 4	11 28	1 25	29 29	6 11	18 42	18 37	8 23			n.a.
S 26	20 50	14 34	1 44	23 46	0 39	23 47	0 13	23 51	0 32	20 51	1 14	3 21	2 27	19 24	0 4	11 27	1 25	29 29	6 11	18 42	18 38	8 21			n.a.
S 27	20 38	10 17	2 57	23 46	0 50	23 46	0 16	23 54	0 33	20 53	1 14	3 19	2 27	19 24	0 4	11 27	1 25	29 29	6 11	18 42	18 39	8 19			n.a.
M28	20 26	5 24	3 58	23 43	0 59	23 44	0 18	23 58	0 33	20 55	1 15	3 17	2 26	19 24	0 4	11 26	1 25	29 29	6 11	18 42	18 40	8 17			n.a.
T 29	20 14	0 18	4 43	23 38	1 8	23 41	0 21	24 1	0 34	20 57	1 15	3 15	2 26	19 24	0 4	11 25	1 25	29 30	6 11	18 41	18 41	8 15			n.a.
W30	20 1	4n43	5 9	23 30	1 16	23 38	0 23	24 4	0 35	20 59	1 15	3 13	2 26	19 24	0 4	11 25	1 25	29 30	6 11	18 41	18 41	8 13			n.a.
T 31	19n47	9n23	5s17	23n19	1n23	23n34	0n26	24n 7	0n36	21s 1	1s15	3n10	2n26	19s24	0n 4	11n24	1n25	29s30	6s11	18n41	18n42	8n11			n.a.

Julian Day Number = 1649284.5, Delta T = 03h31m56s
Ecliptic obliquity = 23°43'03, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°47'43, Lahiri = - 6°40'43 Julian Calendar 1 July 198 BCE == Greg. Calendar 28 June 198 BCE

The year -197 astronomical counting style corresponds to year 198 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 198 BCE
geocentric

AUGUST 198 BCE (-197) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 21 26	3♌38'09	21♉46	23♋31	13♋38	23♊30	2°R30	27♍44	25°R54	4♍14	10°R 5	7°R11	7♌ 5	17♍14	n.a.	F 1
S 2	20 25 23	4°36'15	5♊ 6	25°27	14°52	24° 8	2♒22	27°49	25♏53	4°16	10♑ 4	7♌11	7° 2	17°20	n.a.	S 2
S 3	20 29 19	5°34'23	18°10	27°24	16° 6	24°46	2°15	27°54	25°53	4°18	10° 3	7°11	6°58	17°27	n.a.	S 3
M 4	20 33 16	6°32'33	0♋58	29°21	17°19	25°24	2° 7	27°59	25°52	4°20	10° 1	7°10	6°55	17°34	n.a.	M 4
T 5	20 37 12	7°30'46	13°33	1♌18	18°33	26° 2	1°59	28° 5	25°52	4°22	10° 0	7°D10	6°52	17°40	n.a.	T 5
W 6	20 41 9	8°29'00	25°56	3°15	19°47	26°40	1°51	28°10	25°52	4°24	9°59	7°10	6°49	17°47	n.a.	W 6
T 7	20 45 6	9°27'16	8♌ 8	5°12	21° 1	27°17	1°43	28°15	25°52	4°26	9°58	7°R11	6°46	17°54	n.a.	T 7
F 8	20 49 2	10°25'33	20°11	7° 8	22°15	27°55	1°35	28°21	25°52	4°28	9°57	7°10	6°43	18° 0	n.a.	F 8
S 9	20 52 59	11°23'53	2♍ 7	9° 4	23°29	28°32	1°28	28°26	25°D52	4°30	9°56	7°10	6°39	18° 7	n.a.	S 9
S 10	20 56 55	12°22'15	13°59	10°59	24°43	29°10	1°20	28°32	25°52	4°32	9°55	7°10	6°36	18°14	n.a.	S 10
M11	21 0 52	13°20'38	25°47	12°53	25°57	29°47	1°12	28°38	25°52	4°35	9°53	7° 9	6°33	18°20	n.a.	M11
T 12	21 4 48	14°19'03	7♎37	14°46	27°11	0♋25	1° 5	28°43	25°52	4°37	9°52	7° 8	6°30	18°27	n.a.	T 12
W13	21 8 45	15°17'29	19°31	16°39	28°25	1° 2	0°57	28°49	25°52	4°39	9°51	7° 7	6°27	18°34	n.a.	W13
T 14	21 12 41	16°15'58	1♏33	18°30	29°40	1°39	0°50	28°55	25°52	4°41	9°50	7° 6	6°23	18°40	n.a.	T 14
F 15	21 16 38	17°14'28	13°48	20°20	0♌54	2°17	0°43	29° 1	25°53	4°43	9°49	7°D 6	6°20	18°47	n.a.	F 15
S 16	21 20 34	18°13'00	26°19	22° 9	2° 8	2°54	0°36	29° 7	25°53	4°45	9°48	7° 6	6°17	18°54	n.a.	S 16
S 17	21 24 31	19°11'34	9♐11	23°57	3°22	3°31	0°28	29°13	25°53	4°47	9°47	7° 7	6°14	19° 1	n.a.	S 17
M18	21 28 28	20°10'10	22°28	25°45	4°37	4° 8	0°21	29°19	25°54	4°50	9°46	7° 8	6°11	19° 7	n.a.	M18
T 19	21 32 24	21° 8'47	6♑11	27°31	5°51	4°45	0°15	29°25	25°54	4°52	9°45	7° 9	6° 8	19°14	n.a.	T 19
W20	21 36 21	22° 7'26	20°20	29°16	7° 5	5°22	0° 8	29°31	25°55	4°54	9°44	7°10	6° 4	19°21	n.a.	W20
T 21	21 40 17	23° 6'07	4♒54	1♍ 0	8°20	5°59	0° 1	29°37	25°55	4°56	9°43	7°R10	6° 1	19°27	n.a.	T 21
F 22	21 44 14	24° 4'50	19°48	2°43	9°34	6°36	29♑54	29°44	25°56	4°58	9°42	7°10	5°58	19°34	n.a.	F 22
S 23	21 48 10	25° 3'35	4♓53	4°25	10°49	7°12	29°48	29°50	25°57	5° 1	9°42	7° 9	5°55	19°41	n.a.	S 23
S 24	21 52 7	26° 2'22	20° 2	6° 6	12° 3	7°49	29°42	29°56	25°57	5° 3	9°41	7° 7	5°52	19°47	n.a.	S 24
M25	21 56 3	27° 1'12	5♈ 4	7°46	13°18	8°26	29°35	0♎ 3	25°58	5° 5	9°40	7° 4	5°49	19°54	n.a.	M25
T 26	22 0 0	28° 0'03	19°51	9°25	14°33	9° 2	29°29	0° 9	25°59	5° 7	9°39	7° 2	5°45	20° 1	n.a.	T 26
W27	22 3 57	28°58'57	4♉18	11° 3	15°47	9°39	29°23	0°15	26° 0	5° 9	9°38	6°59	5°42	20° 7	n.a.	W27
T 28	22 7 53	29°57'54	18°20	12°40	17° 2	10°15	29°18	0°22	26° 1	5°12	9°37	6°58	5°39	20°14	n.a.	T 28
F 29	22 11 50	0♍56'52	1♊57	14°16	18°17	10°52	29°12	0°28	26° 2	5°14	9°37	6°D57	5°36	20°21	n.a.	F 29
S 30	22 15 46	1°55'54	15°10	15°52	19°32	11°28	29° 7	0°35	26° 3	5°16	9°36	6°58	5°33	20°27	n.a.	S 30
S 31	22 19 43	2♍54'58	28♊ 2	17♍26	20♌46	12♋ 4	29♑ 1	0♎41	26♏ 4	5♍18	9♑35	6♌59	5♌29	20♍34	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	19n34	13n28	5s 7	23n 6	1n29	23n29	0n28	24n10	0n36	21s 3	1s15	3n 8	2n26	19s24	0n 4	11n23	1n25	29s30	6s11	18n41	18n43	8n 9		n.a.
S 2	19 20	16 48	4 41	22 50	1 34	23 23	0 31	24 12	0 37	21 5	1 15	3 6	2 26	19 24	0 4	11 22	1 25	29 30	6 11	18 41	18 44	8 7		n.a.
S 3	19 6	19 12	4 0	22 32	1 38	23 17	0 33	24 14	0 38	21 7	1 15	3 4	2 25	19 24	0 4	11 22	1 25	29 30	6 11	18 42	18 45	8 5		n.a.
M 4	18 51	20 35	3 8	22 11	1 42	23 10	0 35	24 16	0 38	21 9	1 15	3 1	2 25	19 23	0 4	11 21	1 25	29 30	6 11	18 42	18 45	8 3		n.a.
T 5	18 36	20 54	2 8	21 48	1 44	23 2	0 38	24 18	0 39	21 10	1 15	2 59	2 25	19 23	0 4	11 20	1 25	29 30	6 11	18 42	18 46	8 1		n.a.
W 6	18 21	20 11	1 2	21 23	1 46	22 54	0 40	24 20	0 40	21 12	1 16	2 57	2 25	19 23	0 4	11 19	1 25	29 30	6 11	18 42	18 47	7 59		n.a.
T 7	18 6	18 32	0n 5	20 55	1 47	22 45	0 42	24 22	0 40	21 14	1 16	2 55	2 25	19 23	0 4	11 18	1 25	29 30	6 11	18 42	18 48	7 57		n.a.
F 8	17 50	16 3	1 12	20 26	1 48	22 35	0 44	24 23	0 41	21 16	1 16	2 52	2 24	19 23	0 4	11 18	1 25	29 30	6 11	18 42	18 49	7 55		n.a.
S 9	17 34	12 55	2 14	19 56	1 48	22 25	0 46	24 24	0 42	21 18	1 16	2 50	2 24	19 23	0 4	11 17	1 25	29 31	6 11	18 42	18 50	7 53		n.a.
S 10	17 17	9 18	3 10	19 23	1 47	22 14	0 48	24 25	0 43	21 20	1 16	2 47	2 24	19 23	0 4	11 16	1 25	29 31	6 11	18 42	18 50	7 51		n.a.
M11	17 1	5 20	3 58	18 50	1 46	22 2	0 51	24 26	0 43	21 21	1 16	2 45	2 24	19 23	0 4	11 15	1 25	29 31	6 11	18 42	18 51	7 49		n.a.
T 12	16 44	1 10	4 36	18 14	1 44	21 49	0 53	24 27	0 44	21 23	1 16	2 42	2 24	19 23	0 4	11 15	1 25	29 31	6 11	18 42	18 52	7 47		n.a.
W13	16 26	3s 4	5 2	17 38	1 41	21 36	0 54	24 28	0 45	21 25	1 16	2 40	2 24	19 23	0 3	11 14	1 25	29 31	6 11	18 42	18 53	7 45		n.a.
T 14	16 9	7 13	5 16	17 1	1 38	21 23	0 56	24 28	0 45	21 26	1 16	2 38	2 24	19 24	0 3	11 13	1 25	29 31	6 11	18 43	18 54	7 43		n.a.
F 15	15 51	11 9	5 15	16 23	1 35	21 8	0 58	24 28	0 46	21 28	1 16	2 35	2 23	19 24	0 3	11 12	1 25	29 31	6 11	18 43	18 54	7 41		n.a.
S 16	15 33	14 42	4 59	15 44	1 31	20 53	1 0	24 28	0 47	21 30	1 16	2 33	2 23	19 24	0 3	11 11	1 25	29 31	6 11	18 43	18 55	7 39		n.a.
S 17	15 14	17 39	4 29	15 4	1 27	20 38	1 2	24 28	0 48	21 31	1 16	2 30	2 23	19 24	0 3	11 11	1 25	29 31	6 11	18 43	18 56	7 37		n.a.
M18	14 56	19 47	3 43	14 23	1 23	20 21	1 3	24 27	0 48	21 33	1 16	2 27	2 23	19 24	0 3	11 10	1 25	29 31	6 11	18 42	18 57	7 35		n.a.
T 19	14 37	20 51	2 43	13 42	1 18	20 5	1 5	24 27	0 49	21 34	1 16	2 25	2 23	19 24	0 3	11 9	1 25	29 31	6 11	18 42	18 58	7 32		n.a.
W20	14 18	20 39	1 32	13 0	1 13	19 47	1 7	24 26	0 50	21 36	1 16	2 22	2 23	19 24	0 3	11 8	1 25	29 31	6 11	18 42	18 58	7 30		n.a.
T 21	13 58	19 4	0 13	12 18	1 8	19 29	1 8	24 25	0 50	21 37	1 16	2 20	2 23	19 24	0 3	11 7	1 25	29 31	6 11	18 42	18 59	7 28		n.a.
F 22	13 39	16 9	1s 9	11 36	1 2	19 11	1 10	24 24	0 51	21 39	1 16	2 17	2 22	19 24	0 3	11 6	1 25	29 31	6 11	18 42	19 0	7 26		n.a.
S 23	13 19	12 6	2 27	10 53	0 56	18 52	1 11	24 23	0 52	21 40	1 16	2 14	2 22	19 25	0 3	11 6	1 25	29 31	6 11	18 42	19 1	7 24		n.a.
S 24	12 59	7 17	3 35	10 10	0 50	18 32	1 12	24 22	0 53	21 41	1 16	2 12	2 22	19 25	0 3	11 5	1 25	29 31	6 11	18 43	19 1	7 22		n.a.
M25	12 39	2 3	4 28	9 26	0 44	18 12	1 14	24 20	0 53	21 43	1 16	2 9	2 22	19 25	0 3	11 4	1 25	29 31	6 11	18 43	19 2	7 20		n.a.
T 26	12 18	3n13	5 1	8 43	0 38	17 51	1 15	24 18	0 54	21 44	1 16	2 6	2 22	19 25	0 3	11 3	1 25	29 31	6 11	18 44	19 3	7 18		n.a.
W27	11 58	8 10	5 15	7 59	0 31	17 30	1 16	24 16	0 55	21 45	1 16	2 4	2 22	19 25	0 3	11 2	1 25	29 31	6 11	18 44	19 4	7 16		n.a.
T 28	11 37	12 32	5 9	7 16	0 25	17 8	1 17	24 14	0 56	21 46	1 16	2 1	2 22	19 26	0 3	11 2	1 25	29 31	6 10	18 45	19 5	7 14		n.a.
F 29	11 16	16 7	4 46	6 32	0 18	16 46	1 18	24 12	0 56	21 48	1 16	1 58	2 22	19 26	0 3	11 1	1 25	29 31	6 10	18 45	19 5	7 12		n.a.
S 30	10 55	18 47	4 8	5 49	0 11	16 23	1 19	24 10	0 57	21 49	1 16	1 56	2 22	19 26	0 3	11 0	1 25	29 31	6 10	18 45	19 6	7 10		n.a.
S 31	10n33	20n24	3s18	5n 5	0n 4	16n 0	1n20	24n 7	0n58	21s50	1s16	1n53	2n21	19s26	0n 3	10n59	1n25	29s31	6s10	18n44	19n 7	7n 8		n.a.

Julian Day Number = 1649315.5, Delta T = 03h31m55s
Ecliptic obliquity = 23°43'03, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°47'39, Lahiri = - 6°40'38 Julian Calendar 1 Aug. 198 BCE == Greg. Calendar 29 July 198 BCE

The year -197 astronomical counting style corresponds to year 198 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 198 BCE
geocentric

SEPTEMBER 198 BCE (-197) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 23 39	3♍54'04	10♋36	19♍ 0	22♌ 1	12♋41	28°R56	0♎48	26♏ 5	5♍21	9°R35	7♌ 1	5♌26	20♍41	n.a.	M 1
T 2	22 27 36	4°53'12	22°56	20°32	23°16	13°17	28♑51	0°55	26° 6	5°23	9♑34	7° 2	5°23	20°47	n.a.	T 2
W 3	22 31 32	5°52'23	5♌ 4	22° 4	24°31	13°53	28°46	1° 1	26° 7	5°25	9°33	7°R 3	5°20	20°54	n.a.	W 3
T 4	22 35 29	6°51'36	17° 5	23°35	25°46	14°29	28°41	1° 8	26° 9	5°27	9°33	7° 3	5°17	21° 1	n.a.	T 4
F 5	22 39 25	7°50'51	28°59	25° 6	27° 1	15° 5	28°37	1°15	26°10	5°29	9°32	7° 1	5°14	21° 7	n.a.	F 5
S 6	22 43 22	8°50'09	10♍50	26°35	28°16	15°41	28°33	1°22	26°11	5°32	9°31	6°57	5°10	21°14	n.a.	S 6
S 7	22 47 19	9°49'28	22°40	28° 4	29°31	16°17	28°28	1°28	26°13	5°34	9°31	6°52	5° 7	21°21	n.a.	S 7
M 8	22 51 15	10°48'50	4♎30	29°31	0♍46	16°53	28°24	1°35	26°14	5°36	9°30	6°46	5° 4	21°28	n.a.	M 8
T 9	22 55 12	11°48'14	16°22	0♎58	2° 1	17°28	28°21	1°42	26°16	5°38	9°30	6°39	5° 1	21°34	n.a.	T 9
W10	22 59 8	12°47'39	28°18	2°24	3°16	18° 4	28°17	1°49	26°17	5°41	9°29	6°33	4°58	21°41	n.a.	W10
T 11	23 3 5	13°47'07	10♏22	3°49	4°31	18°39	28°14	1°56	26°19	5°43	9°29	6°27	4°55	21°48	n.a.	T 11
F 12	23 7 1	14°46'36	22°36	5°13	5°46	19°15	28°10	2° 3	26°21	5°45	9°29	6°23	4°51	21°54	n.a.	F 12
S 13	23 10 58	15°46'08	5♐ 5	6°36	7° 1	19°50	28° 7	2°10	26°22	5°47	9°28	6°21	4°48	22° 1	n.a.	S 13
S 14	23 14 54	16°45'41	17°51	7°58	8°17	20°26	28° 4	2°17	26°24	5°50	9°28	6°D21	4°45	22° 8	n.a.	S 14
M15	23 18 51	17°45'17	0♑59	9°20	9°32	21° 1	28° 2	2°24	26°26	5°52	9°28	6°21	4°42	22°14	n.a.	M15
T 16	23 22 48	18°44'54	14°32	10°40	10°47	21°36	27°59	2°31	26°28	5°54	9°27	6°23	4°39	22°21	n.a.	T 16
W17	23 26 44	19°44'33	28°32	11°58	12° 2	22°11	27°57	2°38	26°30	5°56	9°27	6°24	4°35	22°28	n.a.	W17
T 18	23 30 41	20°44'13	12♒59	13°16	13°17	22°46	27°55	2°45	26°32	5°58	9°27	6°R24	4°32	22°34	n.a.	T 18
F 19	23 34 37	21°43'56	27°51	14°32	14°33	23°21	27°53	2°52	26°34	6° 0	9°26	6°22	4°29	22°41	n.a.	F 19
S 20	23 38 34	22°43'40	13♓ 0	15°47	15°48	23°56	27°51	2°59	26°36	6° 3	9°26	6°18	4°26	22°48	n.a.	S 20
S 21	23 42 30	23°43'27	28°19	17° 1	17° 3	24°31	27°50	3° 6	26°38	6° 5	9°26	6°12	4°23	22°54	n.a.	S 21
M22	23 46 27	24°43'15	13♈35	18°12	18°18	25° 6	27°49	3°13	26°40	6° 7	9°26	6° 5	4°20	23° 1	n.a.	M22
T 23	23 50 23	25°43'06	28°39	19°22	19°34	25°40	27°47	3°20	26°42	6° 9	9°26	5°57	4°16	23° 8	n.a.	T 23
W24	23 54 20	26°42'59	13♉21	20°30	20°49	26°15	27°47	3°27	26°44	6°11	9°26	5°50	4°13	23°15	n.a.	W24
T 25	23 58 16	27°42'54	27°35	21°36	22° 4	26°49	27°46	3°35	26°47	6°13	9°26	5°45	4°10	23°21	n.a.	T 25
F 26	0 2 13	28°42'52	11♊20	22°39	23°20	27°24	27°45	3°42	26°49	6°15	9°26	5°41	4° 7	23°28	n.a.	F 26
S 27	0 6 10	29°42'52	24°36	23°40	24°35	27°58	27°45	3°49	26°51	6°18	9°D26	5°D39	4° 4	23°35	n.a.	S 27
S 28	0 10 6	0♎42'54	7♋27	24°38	25°50	28°33	27°D45	3°56	26°54	6°20	9°26	5°39	4° 0	23°41	n.a.	S 28
M29	0 14 3	1°42'58	19°56	25°32	27° 6	29° 7	27°45	4° 3	26°56	6°22	9°26	5°40	3°57	23°48	n.a.	M29
T 30	0 17 59	2♎43'05	2♌ 8	26♎23	28♍21	29♋41	27♑46	4♎10	26♏58	6♍24	9♑26	5°R41	3♌54	23♍55	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	10n12	20n57	2s20	4n22	0s 3	15n36	1n21	24n 5	0n59	21s51	1s16	1n50	2n21	19s27	0n 3	10n58	1n25	29s31	6s10	18n44	19n 8	7n 5		n.a.
T 2	9 50	20 29	1 17	3 38	0 10	15 12	1 22	24 2	0 59	21 52	1 16	1 47	2 21	19 27	0 3	10 57	1 25	29 31	6 10	18 44	19 9	7 3		n.a.
W 3	9 28	19 3	0 11	2 55	0 17	14 48	1 23	23 59	1 0	21 53	1 16	1 45	2 21	19 27	0 3	10 57	1 25	29 31	6 10	18 43	19 9	7 1		n.a.
T 4	9 6	16 46	0n55	2 12	0 24	14 23	1 23	23 56	1 1	21 54	1 16	1 42	2 21	19 28	0 3	10 56	1 25	29 31	6 10	18 44	19 10	6 59		n.a.
F 5	8 43	13 47	1 57	1 29	0 32	13 58	1 24	23 53	1 2	21 54	1 15	1 39	2 21	19 28	0 3	10 55	1 25	29 31	6 10	18 44	19 11	6 57		n.a.
S 6	8 21	10 16	2 54	0 47	0 39	13 32	1 24	23 49	1 2	21 55	1 15	1 36	2 21	19 28	0 3	10 54	1 25	29 31	6 10	18 45	19 12	6 55		n.a.
S 7	7 58	6 22	3 44	0 5	0 46	13 6	1 25	23 46	1 3	21 56	1 15	1 33	2 21	19 29	0 3	10 53	1 25	29 31	6 10	18 46	19 12	6 53		n.a.
M 8	7 36	2 13	4 23	0s37	0 53	12 39	1 25	23 42	1 4	21 57	1 15	1 31	2 21	19 29	0 3	10 53	1 25	29 31	6 10	18 48	19 13	6 51		n.a.
T 9	7 13	2s 2	4 52	1 19	1 1	12 12	1 25	23 38	1 5	21 58	1 15	1 28	2 21	19 29	0 3	10 52	1 25	29 31	6 10	18 50	19 14	6 49		n.a.
W10	6 50	6 13	5 7	2 0	1 8	11 45	1 26	23 34	1 6	21 58	1 15	1 25	2 21	19 30	0 3	10 51	1 25	29 31	6 10	18 51	19 15	6 46		n.a.
T 11	6 27	10 12	5 10	2 41	1 15	11 18	1 26	23 30	1 6	21 59	1 15	1 22	2 21	19 30	0 3	10 50	1 25	29 31	6 9	18 53	19 16	6 44		n.a.
F 12	6 4	13 50	4 58	3 21	1 22	10 50	1 26	23 26	1 7	21 59	1 15	1 19	2 21	19 31	0 3	10 49	1 25	29 31	6 9	18 54	19 16	6 42		n.a.
S 13	5 40	16 55	4 33	4 1	1 29	10 22	1 26	23 21	1 8	22 0	1 15	1 16	2 20	19 31	0 3	10 48	1 25	29 31	6 9	18 54	19 17	6 40		n.a.
S 14	5 17	19 17	3 53	4 40	1 36	9 53	1 26	23 17	1 9	22 0	1 15	1 14	2 20	19 31	0 3	10 48	1 25	29 31	6 9	18 54	19 18	6 38		n.a.
M15	4 54	20 43	3 0	5 18	1 43	9 25	1 26	23 12	1 10	22 1	1 15	1 11	2 20	19 32	0 3	10 47	1 25	29 31	6 9	18 54	19 19	6 36		n.a.
T 16	4 30	21 0	1 56	5 56	1 49	8 56	1 26	23 7	1 10	22 1	1 14	1 8	2 20	19 32	0 3	10 46	1 25	29 31	6 9	18 54	19 19	6 34		n.a.
W17	4 6	20 0	0 43	6 34	1 56	8 27	1 26	23 2	1 11	22 2	1 14	1 5	2 20	19 33	0 3	10 45	1 25	29 31	6 9	18 53	19 20	6 32		n.a.
T 18	3 43	17 41	0s36	7 10	2 2	7 57	1 25	22 57	1 12	22 2	1 14	1 2	2 20	19 33	0 3	10 44	1 25	29 30	6 9	18 53	19 21	6 29		n.a.
F 19	3 19	14 8	1 53	7 46	2 8	7 28	1 25	22 52	1 13	22 2	1 14	0 59	2 20	19 34	0 3	10 44	1 25	29 30	6 9	18 54	19 22	6 27		n.a.
S 20	2 55	9 35	3 5	8 21	2 14	6 58	1 25	22 47	1 14	22 2	1 14	0 56	2 20	19 34	0 3	10 43	1 25	29 30	6 9	18 55	19 23	6 25		n.a.
S 21	2 31	4 23	4 3	8 55	2 20	6 28	1 24	22 41	1 14	22 3	1 14	0 54	2 20	19 35	0 3	10 42	1 25	29 30	6 9	18 56	19 23	6 23		n.a.
M22	2 7	1n 4	4 44	9 28	2 26	5 58	1 24	22 36	1 15	22 3	1 14	0 51	2 20	19 35	0 3	10 41	1 25	29 30	6 8	18 58	19 24	6 21		n.a.
T 23	1 43	6 23	5 5	9 59	2 31	5 27	1 23	22 30	1 16	22 3	1 14	0 48	2 20	19 36	0 3	10 40	1 25	29 30	6 8	19 0	19 25	6 19		n.a.
W24	1 19	11 11	5 5	10 30	2 36	4 57	1 23	22 24	1 17	22 3	1 13	0 45	2 20	19 36	0 3	10 40	1 25	29 30	6 8	19 2	19 26	6 17		n.a.
T 25	0 55	15 13	4 45	10 59	2 40	4 26	1 22	22 18	1 18	22 3	1 13	0 42	2 20	19 37	0 3	10 39	1 25	29 30	6 8	19 3	19 26	6 14		n.a.
F 26	0 31	18 16	4 10	11 27	2 44	3 55	1 21	22 12	1 18	22 3	1 13	0 39	2 20	19 37	0 3	10 38	1 25	29 30	6 8	19 4	19 27	6 12		n.a.
S 27	0 7	20 14	3 22	11 53	2 48	3 24	1 20	22 6	1 19	22 3	1 13	0 36	2 20	19 38	0 3	10 37	1 25	29 30	6 8	19 5	19 28	6 10		n.a.
S 28	0s17	21 5	2 26	12 18	2 51	2 53	1 19	22 0	1 20	22 3	1 13	0 33	2 20	19 39	0 3	10 37	1 25	29 30	6 8	19 5	19 29	6 8		n.a.
M29	0 41	20 50	1 24	12 41	2 54	2 22	1 18	21 54	1 21	22 2	1 13	0 31	2 20	19 39	0 3	10 36	1 25	29 29	6 8	19 4	19 29	6 6		n.a.
T 30	1s 6	19n36	0s19	13s 2	2s56	1n51	1n17	21n47	1n22	22s 2	1s13	0n28	2n20	19s40	0n 3	10n35	1n25	29s29	6s 8	19n 4	19n30	6n 4		n.a.

Julian Day Number = 1649346.5, Delta T = 03h31m54s
Ecliptic obliquity = 23°43'04, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°47'35, Lahiri = - 6°40'34 Julian Calendar 1 Sept. 198 BCE == Greg. Calendar 29 Aug. 198 BCE

The year -197 astronomical counting style corresponds to year 198 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 198 BCE
geocentric

OCTOBER 198 BCE (-197) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 21 56	3♎43'14	14♌ 9	27♎10	29♍37	0♌15	27♑46	4♎17	27♏ 1	6♍26	9♑26	5°R41	3♌51	24♍ 1	n.a.	W 1
T 2	0 25 52	4°43'25	26° 2	27°53	0♎52	0°49	27°47	4°25	27° 3	6°28	9°26	5♌38	3°48	24° 8	n.a.	T 2
F 3	0 29 49	5°43'38	7♍52	28°31	2° 8	1°22	27°48	4°32	27° 6	6°30	9°26	5°34	3°45	24°15	n.a.	F 3
S 4	0 33 45	6°43'53	19°40	29° 3	3°23	1°56	27°49	4°39	27° 9	6°32	9°26	5°26	3°41	24°21	n.a.	S 4
S 5	0 37 42	7°44'10	1♎31	29°29	4°38	2°30	27°50	4°46	27°11	6°34	9°27	5°16	3°38	24°28	n.a.	S 5
M 6	0 41 39	8°44'29	13°24	29°48	5°54	3° 3	27°52	4°53	27°14	6°36	9°27	5° 4	3°35	24°35	n.a.	M 6
T 7	0 45 35	9°44'49	25°23	29°59	7° 9	3°37	27°54	5° 0	27°17	6°38	9°27	4°51	3°32	24°42	n.a.	T 7
W 8	0 49 32	10°45'12	7♏27	0°R 3	8°25	4°10	27°56	5° 7	27°19	6°40	9°27	4°38	3°29	24°48	n.a.	W 8
T 9	0 53 28	11°45'36	19°39	29°58	9°40	4°43	27°58	5°15	27°22	6°42	9°28	4°27	3°26	24°55	n.a.	T 9
F 10	0 57 25	12°46'02	1♐59	29°44	10°56	5°16	28° 0	5°22	27°25	6°43	9°28	4°18	3°22	25° 2	n.a.	F 10
S 11	1 1 21	13°46'29	14°31	29°20	12°11	5°49	28° 3	5°29	27°28	6°45	9°28	4°11	3°19	25° 8	n.a.	S 11
S 12	1 5 18	14°46'58	27°17	28°46	13°27	6°22	28° 5	5°36	27°31	6°47	9°29	4° 8	3°16	25°15	n.a.	S 12
M13	1 9 14	15°47'28	10♑20	28° 2	14°42	6°55	28° 8	5°43	27°34	6°49	9°29	4°D 6	3°13	25°22	n.a.	M13
T 14	1 13 11	16°48'00	23°44	27° 8	15°58	7°28	28°12	5°50	27°37	6°51	9°30	4° 6	3°10	25°28	n.a.	T 14
W15	1 17 8	17°48'33	7♒31	26° 5	17°13	8° 0	28°15	5°57	27°40	6°53	9°30	4°R 6	3° 6	25°35	n.a.	W15
T 16	1 21 4	18°49'08	21°43	24°55	18°29	8°33	28°18	6° 4	27°43	6°54	9°31	4° 5	3° 3	25°42	n.a.	T 16
F 17	1 25 1	19°49'43	6♓18	23°39	19°44	9° 5	28°22	6°11	27°46	6°56	9°31	4° 2	3° 0	25°48	n.a.	F 17
S 18	1 28 57	20°50'20	21°14	22°19	21° 0	9°37	28°26	6°18	27°49	6°58	9°32	3°56	2°57	25°55	n.a.	S 18
S 19	1 32 54	21°50'59	6♈24	20°58	22°15	10° 9	28°30	6°25	27°52	7° 0	9°33	3°47	2°54	26° 2	n.a.	S 19
M20	1 36 50	22°51'38	21°37	19°38	23°31	10°41	28°35	6°32	27°55	7° 1	9°33	3°37	2°51	26° 9	n.a.	M20
T 21	1 40 47	23°52'20	6♉42	18°22	24°46	11°13	28°39	6°39	27°58	7° 3	9°34	3°25	2°47	26°15	n.a.	T 21
W22	1 44 43	24°53'03	21°30	17°14	26° 2	11°45	28°44	6°46	28° 1	7° 5	9°35	3°14	2°44	26°22	n.a.	W22
T 23	1 48 40	25°53'47	5♊54	16°13	27°18	12°16	28°49	6°53	28° 4	7° 6	9°35	3° 4	2°41	26°29	n.a.	T 23
F 24	1 52 36	26°54'34	19°47	15°23	28°33	12°48	28°54	7° 0	28° 8	7° 8	9°36	2°58	2°38	26°35	n.a.	F 24
S 25	1 56 33	27°55'22	3♋11	14°44	29°49	13°19	28°59	7° 7	28°11	7°10	9°37	2°53	2°35	26°42	n.a.	S 25
S 26	2 0 30	28°56'11	16° 6	14°16	1♏ 4	13°50	29° 4	7°14	28°14	7°11	9°38	2°52	2°32	26°49	n.a.	S 26
M27	2 4 26	29°57'02	28°38	14° 0	2°20	14°21	29°10	7°20	28°17	7°13	9°38	2°51	2°28	26°55	n.a.	M27
T 28	2 8 23	0♏57'55	10♌51	13°D56	3°35	14°52	29°15	7°27	28°21	7°14	9°39	2°51	2°25	27° 2	n.a.	T 28
W29	2 12 19	1°58'49	22°50	14° 2	4°51	15°23	29°21	7°34	28°24	7°16	9°40	2°50	2°22	27° 9	n.a.	W29
T 30	2 16 16	2°59'45	4♍42	14°18	6° 6	15°54	29°27	7°41	28°27	7°17	9°41	2°47	2°19	27°16	n.a.	T 30
F 31	2 20 12	4♏ 0'42	16♍30	14♎44	7♏22	16♌24	29♑34	7♎47	28♏31	7♍18	9♑42	2♌41	2♌16	27♍22	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	1s30	17n30	0n45	13s20	2s58	1n19	1n16	21n41	1n23	22s 2	1s13	0n25	2n20	19s40	0n 3	10n34	1n25	29s29	6s 8	19n 4	19n31	6n 1		n.a.
T 2	1 54	14 39	1 47	13 37	2 58	0 48	1 15	21 34	1 24	22 2	1 12	0 22	2 20	19 41	0 3	10 34	1 25	29 29	6 7	19 5	19 32	5 59		n.a.
F 3	2 18	11 14	2 43	13 50	2 58	0 16	1 14	21 27	1 24	22 1	1 12	0 19	2 20	19 41	0 3	10 33	1 25	29 29	6 7	19 6	19 32	5 57		n.a.
S 4	2 42	7 23	3 32	14 1	2 57	0s15	1 13	21 21	1 25	22 1	1 12	0 16	2 20	19 42	0 3	10 32	1 25	29 29	6 7	19 8	19 33	5 55		n.a.
S 5	3 6	3 14	4 12	14 8	2 55	0 46	1 11	21 14	1 26	22 1	1 12	0 13	2 20	19 43	0 3	10 32	1 25	29 29	6 7	19 10	19 34	5 53		n.a.
M 6	3 30	1s 2	4 41	14 12	2 52	1 18	1 10	21 7	1 27	22 0	1 12	0 11	2 20	19 43	0 3	10 31	1 25	29 29	6 7	19 13	19 35	5 51		n.a.
T 7	3 54	5 18	4 58	14 12	2 47	1 49	1 9	21 0	1 28	22 0	1 12	0 8	2 20	19 44	0 3	10 30	1 25	29 29	6 7	19 16	19 35	5 48		n.a.
W 8	4 18	9 24	5 2	14 8	2 41	2 21	1 7	20 53	1 29	21 59	1 12	0 5	2 20	19 45	0 3	10 29	1 25	29 28	6 7	19 20	19 36	5 46		n.a.
T 9	4 42	13 10	4 52	13 59	2 34	2 52	1 6	20 45	1 30	21 59	1 11	0 2	2 20	19 45	0 3	10 29	1 26	29 28	6 7	19 22	19 37	5 44		n.a.
F 10	5 6	16 25	4 28	13 46	2 25	3 24	1 4	20 38	1 31	21 58	1 11	0s 1	2 20	19 46	0 3	10 28	1 26	29 28	6 7	19 25	19 38	5 42		n.a.
S 11	5 30	18 59	3 51	13 27	2 15	3 55	1 3	20 31	1 31	21 57	1 11	0 4	2 20	19 47	0 3	10 27	1 26	29 28	6 7	19 26	19 38	5 40		n.a.
S 12	5 53	20 39	3 2	13 4	2 2	4 26	1 1	20 23	1 32	21 57	1 11	0 6	2 20	19 47	0 3	10 27	1 26	29 28	6 7	19 27	19 39	5 37		n.a.
M13	6 17	21 16	2 3	12 35	1 48	4 57	0 59	20 16	1 33	21 56	1 11	0 9	2 20	19 48	0 3	10 26	1 26	29 28	6 6	19 27	19 40	5 35		n.a.
T 14	6 41	20 42	0 55	12 0	1 32	5 28	0 58	20 8	1 34	21 55	1 11	0 12	2 20	19 49	0 3	10 25	1 26	29 28	6 6	19 27	19 41	5 33		n.a.
W15	7 4	18 54	0s18	11 21	1 15	5 59	0 56	20 0	1 35	21 54	1 11	0 15	2 20	19 49	0 3	10 25	1 26	29 28	6 6	19 27	19 41	5 31		n.a.
T 16	7 27	15 53	1 32	10 38	0 56	6 30	0 54	19 53	1 36	21 53	1 10	0 18	2 20	19 50	0 3	10 24	1 26	29 27	6 6	19 27	19 42	5 29		n.a.
F 17	7 51	11 48	2 42	9 51	0 36	7 0	0 52	19 45	1 37	21 52	1 10	0 20	2 20	19 51	0 3	10 24	1 26	29 27	6 6	19 28	19 43	5 26		n.a.
S 18	8 14	6 54	3 42	9 2	0 16	7 31	0 50	19 37	1 38	21 51	1 10	0 23	2 20	19 51	0 3	10 23	1 26	29 27	6 6	19 30	19 44	5 24		n.a.
S 19	8 37	1 31	4 27	8 12	0n 5	8 1	0 48	19 29	1 39	21 50	1 10	0 26	2 21	19 52	0 3	10 22	1 26	29 27	6 6	19 32	19 44	5 22		n.a.
M20	8 59	3n59	4 54	7 23	0 25	8 31	0 46	19 21	1 40	21 49	1 10	0 29	2 21	19 53	0 3	10 22	1 26	29 27	6 6	19 34	19 45	5 20		n.a.
T 21	9 22	9 11	5 0	6 36	0 45	9 1	0 44	19 13	1 41	21 48	1 10	0 31	2 21	19 54	0 3	10 21	1 26	29 27	6 6	19 37	19 46	5 18		n.a.
W22	9 45	13 45	4 46	5 52	1 4	9 31	0 42	19 5	1 42	21 47	1 10	0 34	2 21	19 54	0 3	10 21	1 26	29 27	6 6	19 40	19 47	5 15		n.a.
T 23	10 7	17 23	4 13	5 13	1 21	10 0	0 40	18 57	1 43	21 46	1 9	0 37	2 21	19 55	0 3	10 20	1 26	29 26	6 5	19 42	19 47	5 13		n.a.
F 24	10 29	19 53	3 27	4 39	1 36	10 30	0 38	18 49	1 44	21 45	1 9	0 39	2 21	19 56	0 3	10 19	1 26	29 26	6 5	19 43	19 48	5 11		n.a.
S 25	10 51	21 11	2 30	4 12	1 49	10 59	0 36	18 41	1 45	21 44	1 9	0 42	2 21	19 57	0 3	10 19	1 26	29 26	6 5	19 44	19 49	5 9		n.a.
S 26	11 13	21 17	1 27	3 50	2 1	11 27	0 34	18 33	1 46	21 42	1 9	0 45	2 21	19 57	0 3	10 18	1 26	29 26	6 5	19 45	19 49	5 7		n.a.
M27	11 35	20 19	0 22	3 36	2 10	11 56	0 32	18 25	1 47	21 41	1 9	0 47	2 21	19 58	0 3	10 18	1 26	29 26	6 5	19 45	19 50	5 4		n.a.
T 28	11 57	18 23	0n42	3 27	2 18	12 24	0 29	18 16	1 48	21 40	1 9	0 50	2 21	19 59	0 3	10 17	1 26	29 26	6 5	19 45	19 51	5 2		n.a.
W29	12 18	15 42	1 44	3 24	2 23	12 52	0 27	18 8	1 49	21 38	1 9	0 53	2 21	20 0	0 3	10 17	1 26	29 26	6 5	19 45	19 52	5 0		n.a.
T 30	12 39	12 22	2 40	3 27	2 27	13 19	0 25	18 0	1 50	21 37	1 8	0 55	2 21	20 0	0 3	10 16	1 26	29 25	6 5	19 46	19 52	4 58		n.a.
F 31	13s 0	8n35	3n29	3s34	2n30	13s46	0n23	17n52	1n51	21s36	1s 8	0s58	2n22	20s 1	0n 3	10n16	1n26	29s25	6s 5	19n47	19n53	4n55		n.a.

Julian Day Number = 1649376.5, Delta T = 03h31m53s
Ecliptic obliquity = 23°43'04, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°47'31, Lahiri = - 6°40'30 Julian Calendar 1 Oct. 198 BCE == Greg. Calendar 28 Sept. 198 BCE

The year -197 astronomical counting style corresponds to year 198 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 198 BCE
geocentric

NOVEMBER 198 BCE (-197) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 24 9	5♏ 1'40	28♍19	15♎18	8♏37	16♌55	29♑40	7♎54	28♏34	7♍20	9♑43	2°R33	2♌12	27♍29	n.a.	S 1
S 2	2 28 5	6° 2'40	10♎12	15°59	9°53	17°25	29°47	8° 0	28°38	7°21	9°44	2♌21	2° 9	27°36	n.a.	S 2
M 3	2 32 2	7° 3'41	22°12	16°46	11° 8	17°55	29°53	8° 7	28°41	7°23	9°45	2° 7	2° 6	27°42	n.a.	M 3
T 4	2 35 59	8° 4'43	4♏19	17°40	12°24	18°25	0♒ 0	8°14	28°45	7°24	9°46	1°52	2° 3	27°49	n.a.	T 4
W 5	2 39 55	9° 5'46	16°36	18°38	13°39	18°54	0° 8	8°20	28°48	7°25	9°47	1°38	2° 0	27°56	n.a.	W 5
T 6	2 43 52	10° 6'50	29° 2	19°41	14°55	19°24	0°15	8°27	28°52	7°26	9°48	1°24	1°57	28° 2	n.a.	T 6
F 7	2 47 48	11° 7'55	11♐37	20°48	16°10	19°53	0°22	8°33	28°55	7°28	9°49	1°14	1°53	28° 9	n.a.	F 7
S 8	2 51 45	12° 9'01	24°22	21°58	17°26	20°22	0°30	8°39	28°59	7°29	9°50	1° 6	1°50	28°16	n.a.	S 8
S 9	2 55 41	13°10'08	7♑19	23°11	18°41	20°51	0°37	8°46	29° 2	7°30	9°51	1° 1	1°47	28°23	n.a.	S 9
M10	2 59 38	14°11'15	20°28	24°27	19°57	21°20	0°45	8°52	29° 6	7°31	9°53	0°59	1°44	28°29	n.a.	M10
T 11	3 3 34	15°12'23	3♒52	25°45	21°12	21°49	0°53	8°58	29° 9	7°32	9°54	0°D59	1°41	28°36	n.a.	T 11
W12	3 7 31	16°13'31	17°33	27° 4	22°28	22°17	1° 2	9° 4	29°13	7°33	9°55	0°R59	1°37	28°43	n.a.	W12
T 13	3 11 28	17°14'40	1♓32	28°25	23°43	22°45	1°10	9°11	29°16	7°34	9°56	0°58	1°34	28°49	n.a.	T 13
F 14	3 15 24	18°15'49	15°49	29°48	24°59	23°13	1°18	9°17	29°20	7°35	9°57	0°55	1°31	28°56	n.a.	F 14
S 15	3 19 21	19°16'58	0♈22	1♏12	26°14	23°41	1°27	9°23	29°23	7°36	9°59	0°50	1°28	29° 3	n.a.	S 15
S 16	3 23 17	20°18'08	15° 8	2°36	27°30	24° 9	1°36	9°29	29°27	7°37	10° 0	0°42	1°25	29° 9	n.a.	S 16
M17	3 27 14	21°19'18	29°59	4° 2	28°45	24°36	1°45	9°35	29°31	7°38	10° 1	0°32	1°22	29°16	n.a.	M17
T 18	3 31 10	22°20'28	14♉48	5°29	0♐ 0	25° 4	1°54	9°41	29°34	7°39	10° 3	0°21	1°18	29°23	n.a.	T 18
W19	3 35 7	23°21'39	29°25	6°56	1°16	25°31	2° 3	9°46	29°38	7°40	10° 4	0°10	1°15	29°30	n.a.	W19
T 20	3 39 4	24°22'51	13♊43	8°24	2°31	25°57	2°12	9°52	29°42	7°41	10° 5	0° 1	1°12	29°36	n.a.	T 20
F 21	3 43 0	25°24'03	27°36	9°52	3°47	26°24	2°21	9°58	29°45	7°42	10° 7	29♋54	1° 9	29°43	n.a.	F 21
S 22	3 46 57	26°25'16	11♋ 3	11°21	5° 2	26°50	2°31	10° 4	29°49	7°42	10° 8	29°50	1° 6	29°50	n.a.	S 22
S 23	3 50 53	27°26'30	24° 3	12°50	6°17	27°17	2°41	10° 9	29°52	7°43	10°10	29°D48	1° 3	29°56	n.a.	S 23
M24	3 54 50	28°27'43	6♌39	14°20	7°33	27°42	2°50	10°15	29°56	7°44	10°11	29°49	0°59	0♎ 3	n.a.	M24
T 25	3 58 46	29°28'58	18°56	15°50	8°48	28° 8	3° 0	10°20	29°59	7°44	10°13	29°49	0°56	0°10	n.a.	T 25
W26	4 2 43	0♐30'13	0♍59	17°21	10° 4	28°33	3°10	10°26	0♐ 3	7°45	10°14	29°R50	0°53	0°16	n.a.	W26
T 27	4 6 39	1°31'28	12°52	18°52	11°19	28°59	3°21	10°31	0° 7	7°46	10°16	29°49	0°50	0°23	n.a.	T 27
F 28	4 10 36	2°32'44	24°42	20°23	12°34	29°23	3°31	10°36	0°11	7°46	10°17	29°46	0°47	0°30	n.a.	F 28
S 29	4 14 33	3°34'00	6♎33	21°55	13°50	29°48	3°41	10°42	0°14	7°47	10°19	29°41	0°43	0°37	n.a.	S 29
S 30	4 18 29	4♐35'16	18♎29	23♏26	15♐ 5	0♍12	3♒52	10♎47	0♐18	7♍47	10♑20	29♋33	0♌40	0♎43	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s21	4n28	4n 9	3s46	2n31	14s13	0n20	17n43	1n52	21s34	1s 8	1s 0	2n22	20s 2	0n 3	10n15	1n27	29s25	6s 5	19n49	19n54	4n53		n.a.
S 2	13 41	0 10	4 38	4 2	2 31	14 40	0 18	17 35	1 53	21 32	1 8	1 3	2 22	20 3	0 3	10 15	1 27	29 25	6 5	19 52	19 55	4 51		n.a.
M 3	14 2	4s11	4 55	4 22	2 30	15 6	0 16	17 27	1 54	21 31	1 8	1 5	2 22	20 3	0 3	10 14	1 27	29 25	6 5	19 55	19 55	4 49		n.a.
T 4	14 22	8 25	4 59	4 44	2 28	15 32	0 13	17 18	1 55	21 29	1 8	1 8	2 22	20 4	0 3	10 14	1 27	29 25	6 4	19 58	19 56	4 47		n.a.
W 5	14 42	12 22	4 50	5 9	2 25	15 57	0 11	17 10	1 56	21 28	1 8	1 10	2 22	20 5	0 3	10 13	1 27	29 24	6 4	20 2	19 57	4 44		n.a.
T 6	15 1	15 51	4 26	5 37	2 22	16 22	0 9	17 1	1 57	21 26	1 8	1 13	2 22	20 6	0 3	10 13	1 27	29 24	6 4	20 5	19 57	4 42		n.a.
F 7	15 21	18 39	3 49	6 6	2 17	16 46	0 6	16 53	1 58	21 24	1 7	1 15	2 22	20 7	0 3	10 13	1 27	29 24	6 4	20 7	19 58	4 40		n.a.
S 8	15 40	20 35	3 1	6 37	2 13	17 10	0 4	16 45	1 59	21 22	1 7	1 18	2 22	20 7	0 3	10 12	1 27	29 24	6 4	20 9	19 59	4 38		n.a.
S 9	15 58	21 29	2 2	7 9	2 7	17 34	0 1	16 36	2 0	21 21	1 7	1 20	2 23	20 8	0 2	10 12	1 27	29 24	6 4	20 10	20 0	4 35		n.a.
M10	16 17	21 14	0 55	7 42	2 2	17 57	0s 1	16 28	2 1	21 19	1 7	1 22	2 23	20 9	0 2	10 11	1 27	29 24	6 4	20 10	20 0	4 33		n.a.
T 11	16 35	19 45	0s15	8 16	1 56	18 19	0 3	16 20	2 2	21 17	1 7	1 25	2 23	20 10	0 2	10 11	1 27	29 24	6 4	20 10	20 1	4 31		n.a.
W12	16 53	17 8	1 27	8 51	1 50	18 42	0 6	16 11	2 4	21 15	1 7	1 27	2 23	20 10	0 2	10 11	1 27	29 23	6 4	20 10	20 2	4 29		n.a.
T 13	17 11	13 27	2 34	9 26	1 43	19 3	0 8	16 3	2 5	21 13	1 7	1 29	2 23	20 11	0 2	10 10	1 27	29 23	6 4	20 11	20 2	4 26		n.a.
F 14	17 28	8 56	3 34	10 2	1 37	19 24	0 11	15 55	2 6	21 11	1 7	1 32	2 23	20 12	0 2	10 10	1 27	29 23	6 4	20 11	20 3	4 24		n.a.
S 15	17 45	3 50	4 21	10 37	1 30	19 45	0 13	15 46	2 7	21 9	1 6	1 34	2 23	20 13	0 2	10 10	1 27	29 23	6 4	20 12	20 4	4 22		n.a.
S 16	18 2	1n34	4 51	11 13	1 23	20 5	0 15	15 38	2 8	21 7	1 6	1 36	2 23	20 14	0 2	10 9	1 27	29 23	6 4	20 14	20 5	4 20		n.a.
M17	18 18	6 53	5 2	11 49	1 16	20 24	0 18	15 30	2 9	21 5	1 6	1 38	2 24	20 14	0 2	10 9	1 27	29 23	6 4	20 16	20 5	4 17		n.a.
T 18	18 34	11 48	4 53	12 25	1 9	20 43	0 20	15 22	2 10	21 2	1 6	1 41	2 24	20 15	0 2	10 9	1 27	29 22	6 4	20 19	20 6	4 15		n.a.
W19	18 50	15 58	4 24	13 1	1 1	21 1	0 22	15 14	2 12	21 0	1 6	1 43	2 24	20 16	0 2	10 9	1 27	29 22	6 4	20 21	20 7	4 13		n.a.
T 20	19 5	19 5	3 39	13 37	0 54	21 19	0 25	15 6	2 13	20 58	1 6	1 45	2 24	20 17	0 2	10 8	1 28	29 22	6 3	20 23	20 7	4 10		n.a.
F 21	19 20	20 59	2 43	14 12	0 47	21 36	0 27	14 57	2 14	20 56	1 6	1 47	2 24	20 18	0 2	10 8	1 28	29 22	6 3	20 24	20 8	4 8		n.a.
S 22	19 35	21 37	1 38	14 47	0 40	21 52	0 29	14 49	2 15	20 53	1 6	1 49	2 24	20 18	0 2	10 8	1 28	29 22	6 3	20 25	20 9	4 6		n.a.
S 23	19 49	21 3	0 31	15 22	0 32	22 8	0 32	14 42	2 17	20 51	1 5	1 51	2 25	20 19	0 2	10 8	1 28	29 22	6 3	20 26	20 10	4 4		n.a.
M24	20 3	19 25	0n37	15 56	0 25	22 23	0 34	14 34	2 18	20 49	1 5	1 53	2 25	20 20	0 2	10 7	1 28	29 21	6 3	20 26	20 10	4 1		n.a.
T 25	20 16	16 55	1 40	16 29	0 18	22 37	0 36	14 26	2 19	20 46	1 5	1 55	2 25	20 21	0 2	10 7	1 28	29 21	6 3	20 25	20 11	3 59		n.a.
W26	20 30	13 43	2 39	17 2	0 11	22 51	0 38	14 18	2 20	20 44	1 5	1 57	2 25	20 22	0 2	10 7	1 28	29 21	6 3	20 25	20 12	3 57		n.a.
T 27	20 42	10 1	3 29	17 34	0 4	23 4	0 41	14 10	2 22	20 41	1 5	1 59	2 25	20 22	0 2	10 7	1 28	29 21	6 3	20 26	20 12	3 54		n.a.
F 28	20 55	5 57	4 11	18 6	0s 3	23 16	0 43	14 3	2 23	20 39	1 5	2 1	2 25	20 23	0 2	10 7	1 28	29 21	6 3	20 26	20 13	3 52		n.a.
S 29	21 7	1 40	4 41	18 37	0 10	23 28	0 45	13 55	2 24	20 36	1 5	2 3	2 26	20 24	0 2	10 7	1 28	29 21	6 3	20 27	20 14	3 50		n.a.
S 30	21s18	2s43	5n 0	19s 7	0s17	23s39	0s47	13n48	2n25	20s34	1s 5	2s 5	2n26	20s25	0n 2	10n 6	1n28	29s21	6s 3	20n29	20n14	3n48		n.a.

Julian Day Number = 1649407.5, Delta T = 03h31m52s
Ecliptic obliquity = 23°43'04, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°47'26, Lahiri = - 6°40'26 Julian Calendar 1 Nov. 198 BCE == Greg. Calendar 29 Oct. 198 BCE

The year -197 astronomical counting style corresponds to year 198 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 198 BCE
geocentric

DECEMBER 198 BCE (-197) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 22 26	5♐36'33	0♏34	24♏59	16♐20	0♍36	4♒ 2	10♎52	0♐21	7♍48	10♑22	29°R24	0♌37	0♎50	n.a.	M 1
T 2	4 26 22	6°37'49	12°50	26°31	17°36	1° 0	4°13	10°57	0°25	7°48	10°23	29♋13	0°34	0°57	n.a.	T 2
W 3	4 30 19	7°39'06	25°19	28° 4	18°51	1°24	4°24	11° 2	0°29	7°49	10°25	29° 3	0°31	1° 3	n.a.	W 3
T 4	4 34 15	8°40'23	8♐ 1	29°37	20° 6	1°47	4°35	11° 7	0°32	7°49	10°26	28°54	0°28	1°10	n.a.	T 4
F 5	4 38 12	9°41'40	20°56	1♐11	21°22	2°10	4°46	11°12	0°36	7°49	10°28	28°46	0°24	1°17	n.a.	F 5
S 6	4 42 8	10°42'57	4♑ 3	2°44	22°37	2°32	4°57	11°16	0°40	7°49	10°30	28°41	0°21	1°24	n.a.	S 6
S 7	4 46 5	11°44'13	17°21	4°19	23°52	2°54	5° 9	11°21	0°43	7°50	10°31	28°38	0°18	1°30	n.a.	S 7
M 8	4 50 2	12°45'29	0♒50	5°53	25° 7	3°16	5°20	11°26	0°47	7°50	10°33	28°D37	0°15	1°37	n.a.	M 8
T 9	4 53 58	13°46'44	14°29	7°28	26°23	3°38	5°31	11°30	0°50	7°50	10°35	28°38	0°12	1°44	n.a.	T 9
W10	4 57 55	14°47'59	28°17	9° 4	27°38	3°59	5°43	11°35	0°54	7°50	10°36	28°40	0° 9	1°50	n.a.	W10
T 11	5 1 51	15°49'13	12♓16	10°39	28°53	4°20	5°55	11°39	0°57	7°50	10°38	28°R41	0° 5	1°57	n.a.	T 11
F 12	5 5 48	16°50'26	26°23	12°16	0♑ 8	4°40	6° 6	11°43	1° 1	7°50	10°40	28°40	0° 2	2° 4	n.a.	F 12
S 13	5 9 44	17°51'39	10♈39	13°52	1°24	5° 0	6°18	11°47	1° 5	7°50	10°42	28°38	29♋59	2°10	n.a.	S 13
S 14	5 13 41	18°52'50	25° 0	15°29	2°39	5°20	6°30	11°52	1° 8	7°R50	10°43	28°34	29°56	2°17	n.a.	S 14
M15	5 17 37	19°54'01	9♉22	17° 7	3°54	5°40	6°42	11°56	1°12	7°50	10°45	28°29	29°53	2°24	n.a.	M15
T 16	5 21 34	20°55'12	23°42	18°45	5° 9	5°59	6°54	12° 0	1°15	7°50	10°47	28°22	29°49	2°31	n.a.	T 16
W17	5 25 31	21°56'21	7♊52	20°24	6°24	6°17	7° 7	12° 3	1°18	7°50	10°49	28°16	29°46	2°37	n.a.	W17
T 18	5 29 27	22°57'30	21°49	22° 3	7°39	6°36	7°19	12° 7	1°22	7°50	10°50	28°11	29°43	2°44	n.a.	T 18
F 19	5 33 24	23°58'38	5♋28	23°42	8°54	6°53	7°31	12°11	1°25	7°50	10°52	28° 7	29°40	2°51	n.a.	F 19
S 20	5 37 20	24°59'46	18°46	25°22	10°10	7°11	7°44	12°15	1°29	7°50	10°54	28° 5	29°37	2°57	n.a.	S 20
S 21	5 41 17	26° 0'53	1♌43	27° 3	11°25	7°28	7°56	12°18	1°32	7°50	10°56	28°D 5	29°34	3° 4	n.a.	S 21
M22	5 45 13	27° 1'59	14°20	28°44	12°40	7°44	8° 9	12°21	1°36	7°49	10°58	28° 6	29°30	3°11	n.a.	M22
T 23	5 49 10	28° 3'05	26°39	0♑26	13°55	8° 0	8°21	12°25	1°39	7°49	10°59	28° 8	29°27	3°18	n.a.	T 23
W24	5 53 7	29° 4'09	8♍45	2° 9	15°10	8°16	8°34	12°28	1°42	7°49	11° 1	28°10	29°24	3°24	n.a.	W24
T 25	5 57 3	0♑ 5'14	20°41	3°51	16°25	8°31	8°47	12°31	1°46	7°48	11° 3	28°11	29°21	3°31	n.a.	T 25
F 26	6 1 0	1° 6'17	2♎33	5°35	17°40	8°46	9° 0	12°34	1°49	7°48	11° 5	28°R11	29°18	3°38	n.a.	F 26
S 27	6 4 56	2° 7'20	14°25	7°19	18°55	9° 0	9°13	12°37	1°52	7°47	11° 7	28°11	29°15	3°44	n.a.	S 27
S 28	6 8 53	3° 8'22	26°23	9° 3	20°10	9°14	9°26	12°40	1°55	7°47	11° 9	28° 9	29°11	3°51	n.a.	S 28
M29	6 12 49	4° 9'24	8♏30	10°48	21°25	9°27	9°39	12°43	1°59	7°47	11°10	28° 6	29° 8	3°58	n.a.	M29
T 30	6 16 46	5°10'24	20°50	12°33	22°40	9°39	9°52	12°46	2° 2	7°46	11°12	28° 2	29° 5	4° 5	n.a.	T 30
W31	6 20 42	6♑11'24	3♐27	14♑19	23♑54	9♍51	10♒ 5	12♎48	2♐ 5	7♍45	11♑14	27♋58	29♋ 2	4♎11	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21s29	7s 2	5n 5	19s37	0s23	23s49	0s49	13n40	2n27	20s31	1s 5	2s 7	2n26	20s26	0n 2	10n 6	1n28	29s20	6s 3	20n31	20n15	3n45		n.a.
T 2	21 40	11 9	4 57	20 5	0 30	23 59	0 51	13 33	2 28	20 28	1 5	2 9	2 26	20 26	0 2	10 6	1 28	29 20	6 3	20 33	20 16	3 43		n.a.
W 3	21 50	14 53	4 34	20 33	0 36	24 8	0 53	13 25	2 29	20 26	1 5	2 10	2 26	20 27	0 2	10 6	1 28	29 20	6 3	20 35	20 17	3 41		n.a.
T 4	22 0	17 59	3 58	21 0	0 43	24 16	0 55	13 18	2 31	20 23	1 4	2 12	2 27	20 28	0 2	10 6	1 28	29 20	6 3	20 37	20 17	3 38		n.a.
F 5	22 10	20 16	3 9	21 26	0 49	24 23	0 57	13 11	2 32	20 20	1 4	2 14	2 27	20 29	0 2	10 6	1 28	29 20	6 3	20 39	20 18	3 36		n.a.
S 6	22 19	21 31	2 9	21 51	0 55	24 30	0 59	13 4	2 33	20 17	1 4	2 16	2 27	20 29	0 2	10 6	1 28	29 20	6 3	20 40	20 19	3 34		n.a.
S 7	22 27	21 35	1 1	22 14	1 0	24 35	1 1	12 57	2 35	20 14	1 4	2 17	2 27	20 30	0 2	10 6	1 29	29 19	6 3	20 40	20 19	3 32		n.a.
M 8	22 35	20 24	0s12	22 37	1 6	24 40	1 3	12 51	2 36	20 11	1 4	2 19	2 27	20 31	0 2	10 6	1 29	29 19	6 3	20 41	20 20	3 29		n.a.
T 9	22 43	18 2	1 25	22 59	1 11	24 45	1 5	12 44	2 38	20 9	1 4	2 20	2 28	20 32	0 2	10 6	1 29	29 19	6 3	20 40	20 21	3 27		n.a.
W10	22 50	14 36	2 34	23 20	1 17	24 48	1 6	12 38	2 39	20 6	1 4	2 22	2 28	20 32	0 2	10 6	1 29	29 19	6 3	20 40	20 21	3 25		n.a.
T 11	22 57	10 20	3 34	23 39	1 22	24 51	1 8	12 31	2 40	20 3	1 4	2 23	2 28	20 33	0 2	10 6	1 29	29 19	6 3	20 40	20 22	3 22		n.a.
F 12	23 4	5 27	4 22	23 57	1 26	24 53	1 10	12 25	2 42	20 0	1 4	2 25	2 28	20 34	0 2	10 6	1 29	29 19	6 3	20 40	20 23	3 20		n.a.
S 13	23 9	0 15	4 55	24 14	1 31	24 54	1 11	12 19	2 43	19 57	1 4	2 26	2 29	20 35	0 2	10 6	1 29	29 19	6 3	20 40	20 23	3 18		n.a.
S 14	23 15	5n 0	5 9	24 30	1 35	24 54	1 13	12 13	2 45	19 53	1 4	2 28	2 29	20 35	0 2	10 6	1 29	29 18	6 3	20 41	20 24	3 15		n.a.
M15	23 20	9 58	5 4	24 44	1 39	24 54	1 14	12 7	2 46	19 50	1 4	2 29	2 29	20 36	0 2	10 6	1 29	29 18	6 3	20 42	20 25	3 13		n.a.
T 16	23 24	14 23	4 40	24 57	1 43	24 53	1 16	12 1	2 48	19 47	1 4	2 31	2 29	20 37	0 2	10 6	1 29	29 18	6 3	20 44	20 25	3 11		n.a.
W17	23 28	17 56	3 59	25 8	1 47	24 51	1 17	11 55	2 49	19 44	1 3	2 32	2 29	20 38	0 2	10 6	1 29	29 18	6 3	20 45	20 26	3 8		n.a.
T 18	23 32	20 23	3 5	25 18	1 50	24 48	1 19	11 50	2 51	19 41	1 3	2 33	2 30	20 38	0 2	10 6	1 29	29 18	6 3	20 46	20 27	3 6		n.a.
F 19	23 35	21 36	2 0	25 26	1 53	24 45	1 20	11 45	2 52	19 37	1 3	2 34	2 30	20 39	0 2	10 6	1 29	29 18	6 3	20 47	20 27	3 4		n.a.
S 20	23 37	21 33	0 51	25 33	1 55	24 40	1 21	11 40	2 54	19 34	1 3	2 36	2 30	20 40	0 2	10 6	1 29	29 18	6 3	20 47	20 28	3 1		n.a.
S 21	23 39	20 20	0n20	25 38	1 57	24 35	1 22	11 35	2 55	19 31	1 3	2 37	2 30	20 40	0 2	10 7	1 29	29 17	6 3	20 47	20 29	2 59		n.a.
M22	23 41	18 7	1 28	25 42	1 59	24 29	1 23	11 30	2 57	19 27	1 3	2 38	2 31	20 41	0 2	10 7	1 29	29 17	6 3	20 47	20 29	2 57		n.a.
T 23	23 42	15 7	2 30	25 44	2 1	24 23	1 25	11 25	2 59	19 24	1 3	2 39	2 31	20 42	0 2	10 7	1 29	29 17	6 3	20 47	20 30	2 54		n.a.
W24	23 43	11 32	3 25	25 44	2 2	24 16	1 26	11 21	3 0	19 21	1 3	2 40	2 31	20 43	0 2	10 7	1 30	29 17	6 3	20 46	20 31	2 52		n.a.
T 25	23 43	7 33	4 9	25 42	2 2	24 8	1 26	11 16	3 2	19 17	1 3	2 41	2 31	20 43	0 2	10 7	1 30	29 17	6 3	20 46	20 31	2 50		n.a.
F 26	23 43	3 18	4 43	25 38	2 3	23 59	1 27	11 12	3 3	19 14	1 3	2 42	2 32	20 44	0 2	10 8	1 30	29 17	6 3	20 46	20 32	2 47		n.a.
S 27	23 42	1s 4	5 5	25 33	2 2	23 49	1 28	11 8	3 5	19 10	1 3	2 43	2 32	20 45	0 2	10 8	1 30	29 17	6 3	20 46	20 33	2 45		n.a.
S 28	23 41	5 25	5 14	25 26	2 2	23 39	1 29	11 5	3 7	19 7	1 3	2 44	2 32	20 45	0 2	10 8	1 30	29 17	6 3	20 46	20 33	2 43		n.a.
M29	23 39	9 38	5 9	25 16	2 0	23 28	1 30	11 1	3 8	19 3	1 3	2 45	2 32	20 46	0 2	10 8	1 30	29 17	6 3	20 47	20 34	2 40		n.a.
T 30	23 37	13 31	4 50	25 5	1 59	23 16	1 30	10 58	3 10	18 59	1 3	2 46	2 33	20 47	0 2	10 8	1 30	29 16	6 3	20 48	20 35	2 38		n.a.
W31	23s34	16s54	4n16	24s52	1s56	23s 4	1s31	10n55	3n11	18s56	1s 3	2s46	2n33	20s47	0n 2	10n 9	1n30	29s16	6s 4	20n49	20n35	2n36		n.a.

Julian Day Number = 1649437.5, Delta T = 03h31m51s
Ecliptic obliquity = 23°43'04, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°47'22, Lahiri = - 6°40'22 Julian Calendar 1 Dec. 198 BCE == Greg. Calendar 28 Nov. 198 BCE

The year -197 astronomical counting style corresponds to year 198 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 197 BCE
geocentric

JANUARY 197 BCE (-196) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 24 39	7♑12'23	16♐21	16♑ 4	25♑ 9	10♍ 3	10♒18	12♎51	2♐ 8	7°R45	11♑16	27°R55	28♋59	4♎18	n.a.	T 1
F 2	6 28 36	8°13'20	29°34	17°50	26°24	10°14	10°32	12°53	2°11	7♍44	11°18	27♋52	28°55	4°25	n.a.	F 2
S 3	6 32 32	9°14'17	13♑ 3	19°36	27°39	10°24	10°45	12°56	2°14	7°44	11°20	27°51	28°52	4°31	n.a.	S 3
S 4	6 36 29	10°15'12	26°47	21°21	28°54	10°34	10°59	12°58	2°18	7°43	11°21	27°D50	28°49	4°38	n.a.	S 4
M 5	6 40 25	11°16'06	10♒44	23° 6	0♒ 9	10°43	11°12	13° 0	2°21	7°42	11°23	27°50	28°46	4°45	n.a.	M 5
T 6	6 44 22	12°16'58	24°49	24°51	1°24	10°52	11°26	13° 2	2°24	7°41	11°25	27°51	28°43	4°52	n.a.	T 6
W 7	6 48 18	13°17'49	9♓ 0	26°35	2°38	11° 0	11°39	13° 4	2°27	7°41	11°27	27°53	28°40	4°58	n.a.	W 7
T 8	6 52 15	14°18'38	23°13	28°17	3°53	11° 7	11°53	13° 6	2°29	7°40	11°29	27°54	28°36	5° 5	n.a.	T 8
F 9	6 56 11	15°19'26	7♈26	29°58	5° 8	11°14	12° 7	13° 8	2°32	7°39	11°31	27°54	28°33	5°12	n.a.	F 9
S 10	7 0 8	16°20'11	21°37	1♒37	6°22	11°20	12°20	13° 9	2°35	7°38	11°33	27°R54	28°30	5°18	n.a.	S 10
S 11	7 4 5	17°20'55	5♉43	3°14	7°37	11°26	12°34	13°11	2°38	7°37	11°34	27°54	28°27	5°25	n.a.	S 11
M12	7 8 1	18°21'37	19°43	4°47	8°52	11°30	12°48	13°12	2°41	7°36	11°36	27°53	28°24	5°32	n.a.	M12
T 13	7 11 58	19°22'18	3♊34	6°17	10° 6	11°35	13° 2	13°13	2°44	7°35	11°38	27°52	28°21	5°39	n.a.	T 13
W14	7 15 54	20°22'56	17°14	7°43	11°21	11°38	13°16	13°15	2°46	7°34	11°40	27°51	28°17	5°45	n.a.	W14
T 15	7 19 51	21°23'33	0♋42	9° 4	12°35	11°41	13°30	13°16	2°49	7°33	11°42	27°50	28°14	5°52	n.a.	T 15
F 16	7 23 47	22°24'09	13°57	10°20	13°50	11°43	13°44	13°17	2°52	7°32	11°44	27°50	28°11	5°59	n.a.	F 16
S 17	7 27 44	23°24'42	26°57	11°30	15° 4	11°44	13°58	13°18	2°55	7°31	11°45	27°D49	28° 8	6° 5	n.a.	S 17
S 18	7 31 41	24°25'14	9♌41	12°33	16°19	11°R45	14°12	13°19	2°57	7°30	11°47	27°49	28° 5	6°12	n.a.	S 18
M19	7 35 37	25°25'44	22°11	13°28	17°33	11°45	14°26	13°19	3° 0	7°29	11°49	27°50	28° 1	6°19	n.a.	M19
T 20	7 39 34	26°26'13	4♍27	14°15	18°48	11°44	14°40	13°20	3° 2	7°28	11°51	27°50	27°58	6°26	n.a.	T 20
W21	7 43 30	27°26'40	16°32	14°53	20° 2	11°42	14°54	13°20	3° 5	7°27	11°53	27°R50	27°55	6°32	n.a.	W21
T 22	7 47 27	28°27'06	28°29	15°22	21°16	11°40	15° 8	13°21	3° 7	7°26	11°54	27°50	27°52	6°39	n.a.	T 22
F 23	7 51 23	29°27'30	10♎22	15°41	22°30	11°37	15°22	13°21	3°10	7°24	11°56	27°50	27°49	6°46	n.a.	F 23
S 24	7 55 20	0♒27'52	22°14	15°R51	23°45	11°33	15°37	13°21	3°12	7°23	11°58	27°50	27°46	6°52	n.a.	S 24
S 25	7 59 16	1°28'13	4♏11	15°50	24°59	11°28	15°51	13°R21	3°14	7°22	12° 0	27°D50	27°42	6°59	n.a.	S 25
M26	8 3 13	2°28'33	16°17	15°40	26°13	11°22	16° 5	13°21	3°17	7°21	12° 2	27°50	27°39	7° 6	n.a.	M26
T 27	8 7 9	3°28'50	28°37	15°19	27°27	11°16	16°20	13°21	3°19	7°19	12° 3	27°50	27°36	7°13	n.a.	T 27
W28	8 11 6	4°29'07	11♐14	14°50	28°41	11° 9	16°34	13°21	3°21	7°18	12° 5	27°51	27°33	7°19	n.a.	W28
T 29	8 15 3	5°29'21	24°12	14°13	29°55	11° 1	16°48	13°21	3°23	7°17	12° 7	27°52	27°30	7°26	n.a.	T 29
F 30	8 18 59	6°29'34	7♑33	13°28	1♓ 9	10°53	17° 3	13°20	3°25	7°15	12° 9	27°52	27°27	7°33	n.a.	F 30
S 31	8 22 56	7♒29'46	21♑17	12♒37	2♓23	10♍43	17♒17	13♎20	3♐27	7♍14	12♑10	27°R53	27♋23	7♎39	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23s31	19s33	3n29	24s37	1s53	22s51	1s31	10n52	3n13	18s52	1s 3	2s47	2n33	20s48	0n 2	10n 9	1n30	29s16	6s 4	20n49	20n36	2n33		n.a.
F 2	23 28	21 13	2 30	24 20	1 50	22 37	1 32	10 49	3 15	18 48	1 3	2 48	2 33	20 48	0 2	10 9	1 30	29 16	6 4	20 50	20 37	2 31		n.a.
S 3	23 23	21 44	1 21	24 0	1 46	22 23	1 32	10 46	3 16	18 45	1 3	2 49	2 34	20 49	0 2	10 10	1 30	29 16	6 4	20 50	20 37	2 29		n.a.
S 4	23 19	20 57	0 6	23 39	1 41	22 8	1 33	10 44	3 18	18 41	1 3	2 49	2 34	20 50	0 2	10 10	1 30	29 16	6 4	20 50	20 38	2 26		n.a.
M 5	23 14	18 53	1s11	23 17	1 35	21 52	1 33	10 42	3 20	18 37	1 3	2 50	2 34	20 50	0 2	10 10	1 30	29 16	6 4	20 50	20 39	2 24		n.a.
T 6	23 9	15 39	2 24	22 52	1 29	21 35	1 33	10 40	3 21	18 33	1 3	2 50	2 34	20 51	0 2	10 11	1 30	29 16	6 4	20 50	20 39	2 22		n.a.
W 7	23 3	11 30	3 28	22 25	1 22	21 18	1 33	10 39	3 23	18 29	1 3	2 51	2 35	20 52	0 2	10 11	1 30	29 16	6 4	20 50	20 40	2 19		n.a.
T 8	22 56	6 42	4 21	21 57	1 14	21 1	1 33	10 38	3 25	18 26	1 3	2 51	2 35	20 52	0 2	10 11	1 30	29 15	6 4	20 49	20 41	2 17		n.a.
F 9	22 50	1 33	4 57	21 27	1 5	20 43	1 33	10 37	3 26	18 22	1 3	2 52	2 35	20 53	0 2	10 12	1 30	29 15	6 4	20 49	20 41	2 15		n.a.
S 10	22 42	3n40	5 15	20 56	0 56	20 24	1 33	10 36	3 28	18 18	1 2	2 52	2 35	20 53	0 2	10 12	1 30	29 15	6 4	20 49	20 42	2 12		n.a.
S 11	22 35	8 39	5 14	20 24	0 46	20 4	1 33	10 35	3 30	18 14	1 2	2 53	2 36	20 54	0 2	10 12	1 30	29 15	6 4	20 49	20 43	2 10		n.a.
M12	22 27	13 9	4 54	19 51	0 34	19 44	1 33	10 35	3 32	18 10	1 2	2 53	2 36	20 54	0 2	10 13	1 31	29 15	6 4	20 50	20 43	2 7		n.a.
T 13	22 18	16 54	4 17	19 17	0 23	19 24	1 32	10 35	3 33	18 6	1 2	2 53	2 36	20 55	0 2	10 13	1 31	29 15	6 4	20 50	20 44	2 5		n.a.
W14	22 9	19 40	3 26	18 43	0 10	19 3	1 32	10 35	3 35	18 2	1 2	2 53	2 36	20 56	0 2	10 14	1 31	29 15	6 5	20 50	20 45	2 3		n.a.
T 15	22 0	21 18	2 25	18 8	0n 4	18 41	1 31	10 36	3 37	17 58	1 2	2 54	2 37	20 56	0 2	10 14	1 31	29 15	6 5	20 50	20 45	2 0		n.a.
F 16	21 50	21 43	1 16	17 34	0 18	18 19	1 31	10 36	3 38	17 54	1 2	2 54	2 37	20 57	0 2	10 14	1 31	29 15	6 5	20 50	20 46	1 58		n.a.
S 17	21 40	20 56	0 5	17 1	0 33	17 56	1 30	10 37	3 40	17 49	1 2	2 54	2 37	20 57	0 2	10 15	1 31	29 15	6 5	20 50	20 47	1 56		n.a.
S 18	21 29	19 5	1n 5	16 28	0 48	17 33	1 30	10 39	3 42	17 45	1 2	2 54	2 37	20 58	0 2	10 15	1 31	29 15	6 5	20 50	20 47	1 53		n.a.
M19	21 18	16 21	2 11	15 58	1 4	17 10	1 29	10 40	3 43	17 41	1 2	2 54	2 38	20 58	0 2	10 16	1 31	29 15	6 5	20 50	20 48	1 51		n.a.
T 20	21 7	12 56	3 10	15 28	1 20	16 46	1 28	10 42	3 45	17 37	1 2	2 54	2 38	20 59	0 2	10 16	1 31	29 15	6 5	20 50	20 49	1 49		n.a.
W21	20 55	9 2	3 59	15 2	1 36	16 21	1 27	10 44	3 46	17 33	1 2	2 54	2 38	20 59	0 2	10 17	1 31	29 15	6 5	20 50	20 49	1 46		n.a.
T 22	20 43	4 50	4 37	14 38	1 52	15 56	1 26	10 46	3 48	17 29	1 2	2 54	2 39	21 0	0 2	10 17	1 31	29 14	6 5	20 50	20 50	1 44		n.a.
F 23	20 30	0 29	5 3	14 17	2 8	15 31	1 25	10 49	3 50	17 24	1 2	2 54	2 39	21 0	0 2	10 18	1 31	29 14	6 6	20 50	20 50	1 41		n.a.
S 24	20 17	3s53	5 16	13 59	2 24	15 5	1 24	10 52	3 51	17 20	1 2	2 54	2 39	21 1	0 2	10 18	1 31	29 14	6 6	20 50	20 51	1 39		n.a.
S 25	20 4	8 7	5 15	13 45	2 39	14 39	1 23	10 55	3 53	17 16	1 2	2 53	2 39	21 1	0 2	10 19	1 31	29 14	6 6	20 50	20 52	1 37		n.a.
M26	19 50	12 6	5 1	13 34	2 53	14 12	1 22	10 59	3 54	17 11	1 2	2 53	2 40	21 2	0 2	10 19	1 31	29 14	6 6	20 50	20 52	1 34		n.a.
T 27	19 36	15 39	4 33	13 27	3 7	13 45	1 20	11 3	3 56	17 7	1 2	2 53	2 40	21 2	0 2	10 20	1 31	29 14	6 6	20 50	20 53	1 32		n.a.
W28	19 22	18 35	3 51	13 25	3 18	13 18	1 19	11 7	3 57	17 3	1 2	2 53	2 40	21 2	0 2	10 20	1 31	29 14	6 6	20 50	20 54	1 29		n.a.
T 29	19 7	20 39	2 56	13 26	3 29	12 50	1 18	11 11	3 58	16 58	1 3	2 52	2 40	21 3	0 2	10 21	1 31	29 14	6 6	20 50	20 54	1 27		n.a.
F 30	18 52	21 40	1 50	13 30	3 37	12 22	1 16	11 15	4 0	16 54	1 3	2 52	2 41	21 3	0 2	10 21	1 31	29 14	6 6	20 50	20 55	1 25		n.a.
S 31	18s37	21s25	0n36	13s38	3n44	11s54	1s15	11n20	4n 1	16s50	1s 3	2s51	2n41	21s 4	0n 2	10n22	1n31	29s14	6s 7	20n50	20n55	1n22		n.a.

Julian Day Number = 1649468.5, Delta T = 03h31m50s
Ecliptic obliquity = 23°43'04, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°47'18, Lahiri = - 6°40'18 Julian Calendar 1 Jan. 197 BCE == Greg. Calendar 29 Dec. 198 BCE

The year -196 astronomical counting style corresponds to year 197 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 197 BCE
geocentric

FEBRUARY 197 BCE (-196) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 26 52	8♒29'55	5♒22	11°R41	3♓37	10°R33	17♒31	13°R19	3♐29	7°R13	12♑12	27°R53	27♋20	7♎46	n.a.	S 1
M 2	8 30 49	9°30'02	19°45	10♒42	4°51	10♍22	17°46	13♎19	3°31	7♍11	12°14	27♋52	27°17	7°53	n.a.	M 2
T 3	8 34 45	10°30'08	4♓19	9°41	6° 5	10°10	18° 0	13°18	3°33	7°10	12°15	27°51	27°14	8° 0	n.a.	T 3
W 4	8 38 42	11°30'11	18°59	8°39	7°19	9°58	18°15	13°17	3°35	7° 8	12°17	27°49	27°11	8° 6	n.a.	W 4
T 5	8 42 38	12°30'11	3♈38	7°38	8°33	9°45	18°29	13°16	3°37	7° 7	12°19	27°48	27° 7	8°13	n.a.	T 5
F 6	8 46 35	13°30'10	18°10	6°39	9°47	9°31	18°44	13°15	3°39	7° 5	12°20	27°46	27° 4	8°20	n.a.	F 6
S 7	8 50 32	14°30'06	2♉30	5°44	11° 0	9°16	18°58	13°14	3°41	7° 4	12°22	27°45	27° 1	8°26	n.a.	S 7
S 8	8 54 28	15°30'00	16°35	4°53	12°14	9° 1	19°13	13°12	3°42	7° 2	12°23	27°D44	26°58	8°33	n.a.	S 8
M 9	8 58 25	16°29'52	0♊25	4° 7	13°28	8°45	19°27	13°11	3°44	7° 1	12°25	27°45	26°55	8°40	n.a.	M 9
T 10	9 2 21	17°29'41	13°58	3°26	14°41	8°28	19°42	13° 9	3°46	6°59	12°27	27°46	26°52	8°47	n.a.	T 10
W11	9 6 18	18°29'28	27°16	2°52	15°55	8°10	19°56	13° 8	3°47	6°58	12°28	27°48	26°48	8°53	n.a.	W11
T 12	9 10 14	19°29'13	10♋19	2°24	17° 8	7°53	20°10	13° 6	3°49	6°56	12°30	27°49	26°45	9° 0	n.a.	T 12
F 13	9 14 11	20°28'56	23°10	2° 3	18°21	7°34	20°25	13° 4	3°50	6°55	12°31	27°R50	26°42	9° 7	n.a.	F 13
S 14	9 18 7	21°28'36	5♌48	1°48	19°35	7°15	20°39	13° 2	3°52	6°53	12°33	27°50	26°39	9°13	n.a.	S 14
S 15	9 22 4	22°28'14	18°15	1°39	20°48	6°55	20°54	13° 0	3°53	6°52	12°34	27°48	26°36	9°20	n.a.	S 15
M16	9 26 1	23°27'49	0♍33	1°D37	22° 1	6°35	21° 8	12°58	3°54	6°50	12°36	27°45	26°32	9°27	n.a.	M16
T 17	9 29 57	24°27'23	12°41	1°40	23°14	6°15	21°23	12°56	3°56	6°48	12°37	27°42	26°29	9°34	n.a.	T 17
W18	9 33 54	25°26'55	24°42	1°50	24°28	5°54	21°37	12°54	3°57	6°47	12°39	27°37	26°26	9°40	n.a.	W18
T 19	9 37 50	26°26'24	6♎37	2° 4	25°41	5°32	21°52	12°52	3°58	6°45	12°40	27°32	26°23	9°47	n.a.	T 19
F 20	9 41 47	27°25'52	18°30	2°24	26°54	5°10	22° 6	12°49	3°59	6°44	12°42	27°27	26°20	9°54	n.a.	F 20
S 21	9 45 43	28°25'18	0♏22	2°49	28° 7	4°48	22°21	12°47	4° 0	6°42	12°43	27°23	26°17	10° 0	n.a.	S 21
S 22	9 49 40	29°24'41	12°18	3°19	29°19	4°26	22°35	12°44	4° 1	6°40	12°44	27°20	26°13	10° 7	n.a.	S 22
M23	9 53 36	0♓24'03	24°22	3°52	0♈32	4° 3	22°50	12°41	4° 2	6°39	12°46	27°18	26°10	10°14	n.a.	M23
T 24	9 57 33	1°23'23	6♐38	4°31	1°45	3°40	23° 4	12°39	4° 3	6°37	12°47	27°D18	26° 7	10°21	n.a.	T 24
W25	10 1 29	2°22'42	19°11	5°12	2°58	3°17	23°18	12°36	4° 4	6°35	12°48	27°19	26° 4	10°27	n.a.	W25
T 26	10 5 26	3°21'58	2♑ 6	5°58	4°10	2°54	23°33	12°33	4° 5	6°34	12°50	27°21	26° 1	10°34	n.a.	T 26
F 27	10 9 23	4°21'13	15°25	6°47	5°23	2°31	23°47	12°30	4° 6	6°32	12°51	27°22	25°58	10°41	n.a.	F 27
S 28	10 13 19	5°20'25	29°12	7°39	6°36	2° 8	24° 1	12°27	4° 6	6°30	12°52	27°R23	25°54	10°47	n.a.	S 28
S 29	10 17 16	6♓19'36	13♒25	8♒35	7♈48	1♍44	24♒16	12♎24	4♐ 7	6♍29	12♑54	27♋22	25♋51	10♎54	n.a.	S 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s21	19s49	0s41	13s50	3n48	11s26	1s13	11n25	4n 2	16s45	1s 3	2s51	2n41	21s 4	0n 2	10n22	1n31	29s14	6s 7	20n50	20n56	1n20		n.a.
M 2	18 5	16 56	1 58	14 4	3 51	10 57	1 11	11 31	4 3	16 41	1 3	2 50	2 41	21 4	0 2	10 23	1 31	29 14	6 7	20 50	20 57	1 17		n.a.
T 3	17 49	12 57	3 8	14 20	3 51	10 28	1 10	11 36	4 5	16 36	1 3	2 50	2 42	21 5	0 2	10 24	1 31	29 14	6 7	20 50	20 57	1 15		n.a.
W 4	17 32	8 11	4 6	14 38	3 49	9 58	1 8	11 42	4 6	16 32	1 3	2 49	2 42	21 5	0 2	10 24	1 31	29 14	6 7	20 50	20 58	1 13		n.a.
T 5	17 15	2 56	4 48	14 57	3 45	9 29	1 6	11 48	4 7	16 27	1 3	2 49	2 42	21 6	0 2	10 25	1 32	29 14	6 7	20 51	20 59	1 10		n.a.
F 6	16 58	2n25	5 11	15 18	3 39	8 59	1 4	11 54	4 8	16 23	1 3	2 48	2 42	21 6	0 2	10 25	1 32	29 14	6 7	20 51	20 59	1 8		n.a.
S 7	16 40	7 33	5 15	15 39	3 31	8 29	1 2	12 1	4 8	16 18	1 3	2 47	2 43	21 6	0 2	10 26	1 32	29 14	6 8	20 51	21 0	1 5		n.a.
S 8	16 23	12 13	4 59	16 0	3 22	7 58	1 0	12 8	4 9	16 14	1 3	2 47	2 43	21 7	0 2	10 26	1 32	29 14	6 8	20 51	21 1	1 3		n.a.
M 9	16 4	16 8	4 26	16 21	3 12	7 28	0 58	12 14	4 10	16 9	1 3	2 46	2 43	21 7	0 2	10 27	1 32	29 14	6 8	20 51	21 1	1 1		n.a.
T 10	15 46	19 7	3 39	16 41	3 0	6 57	0 56	12 21	4 11	16 5	1 3	2 45	2 43	21 7	0 2	10 28	1 32	29 14	6 8	20 51	21 2	0 58		n.a.
W11	15 28	21 1	2 41	17 1	2 48	6 26	0 53	12 29	4 11	16 0	1 3	2 44	2 44	21 8	0 2	10 28	1 32	29 14	6 8	20 51	21 2	0 56		n.a.
T 12	15 9	21 44	1 35	17 20	2 35	5 55	0 51	12 36	4 12	15 55	1 3	2 43	2 44	21 8	0 2	10 29	1 32	29 14	6 8	20 50	21 3	0 53		n.a.
F 13	14 50	21 17	0 26	17 38	2 21	5 24	0 49	12 43	4 12	15 51	1 3	2 42	2 44	21 8	0 2	10 30	1 32	29 14	6 9	20 50	21 4	0 51		n.a.
S 14	14 31	19 45	0n44	17 55	2 8	4 53	0 46	12 51	4 13	15 46	1 3	2 41	2 44	21 8	0 2	10 30	1 32	29 14	6 9	20 50	21 4	0 49		n.a.
S 15	14 11	17 17	1 50	18 11	1 54	4 22	0 44	12 59	4 13	15 41	1 3	2 40	2 44	21 9	0 2	10 31	1 32	29 14	6 9	20 51	21 5	0 46		n.a.
M16	13 51	14 3	2 50	18 25	1 39	3 50	0 41	13 6	4 13	15 37	1 3	2 39	2 45	21 9	0 2	10 31	1 32	29 14	6 9	20 51	21 5	0 44		n.a.
T 17	13 31	10 17	3 42	18 38	1 25	3 19	0 39	13 14	4 13	15 32	1 3	2 38	2 45	21 9	0 2	10 32	1 32	29 14	6 9	20 52	21 6	0 41		n.a.
W18	13 11	6 8	4 23	18 49	1 12	2 47	0 36	13 22	4 13	15 28	1 3	2 37	2 45	21 9	0 2	10 33	1 32	29 14	6 10	20 53	21 7	0 39		n.a.
T 19	12 51	1 48	4 52	18 59	0 58	2 15	0 34	13 30	4 13	15 23	1 3	2 36	2 45	21 10	0 2	10 33	1 32	29 14	6 10	20 54	21 7	0 36		n.a.
F 20	12 30	2s35	5 9	19 8	0 44	1 43	0 31	13 38	4 13	15 18	1 3	2 35	2 46	21 10	0 2	10 34	1 32	29 14	6 10	20 55	21 8	0 34		n.a.
S 21	12 10	6 52	5 12	19 15	0 31	1 12	0 28	13 46	4 13	15 13	1 3	2 34	2 46	21 10	0 2	10 34	1 32	29 14	6 10	20 56	21 8	0 32		n.a.
S 22	11 49	10 55	5 2	19 20	0 19	0 40	0 26	13 54	4 12	15 9	1 4	2 33	2 46	21 10	0 2	10 35	1 32	29 14	6 10	20 56	21 9	0 29		n.a.
M23	11 28	14 35	4 38	19 24	0 6	0 8	0 23	14 2	4 12	15 4	1 4	2 31	2 46	21 10	0 2	10 36	1 32	29 15	6 10	20 57	21 10	0 27		n.a.
T 24	11 6	17 42	4 2	19 27	0s 6	0n24	0 20	14 10	4 11	14 59	1 4	2 30	2 46	21 11	0 2	10 36	1 32	29 15	6 11	20 57	21 10	0 24		n.a.
W25	10 45	20 4	3 13	19 28	0 17	0 56	0 17	14 18	4 10	14 55	1 4	2 29	2 47	21 11	0 2	10 37	1 32	29 15	6 11	20 56	21 11	0 22		n.a.
T 26	10 23	21 29	2 13	19 27	0 28	1 28	0 14	14 26	4 9	14 50	1 4	2 28	2 47	21 11	0 2	10 38	1 32	29 15	6 11	20 56	21 12	0 20		n.a.
F 27	10 2	21 45	1 5	19 25	0 39	2 0	0 11	14 33	4 8	14 45	1 4	2 26	2 47	21 11	0 2	10 38	1 32	29 15	6 11	20 56	21 12	0 17		n.a.
S 28	9 40	20 43	0s10	19 21	0 49	2 31	0 8	14 41	4 7	14 40	1 4	2 25	2 47	21 11	0 2	10 39	1 32	29 15	6 11	20 56	21 13	0 15		n.a.
S 29	9s18	18s22	1s26	19s16	0s59	3n 3	0s 5	14n48	4n 6	14s36	1s 4	2s23	2n47	21s11	0n 2	10n40	1n32	29s15	6s12	20n56	21n13	0n12		n.a.

Julian Day Number = 1649499.5, Delta T = 03h31m49s
Ecliptic obliquity = 23°43'04, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°47'14, Lahiri = - 6°40'13 Julian Calendar 1 Feb. 197 BCE == Greg. Calendar 29 Jan. 197 BCE

The year -196 astronomical counting style corresponds to year 197 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 197 BCE
geocentric

MARCH 197 BCE (-196) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 21 12	7♓18'44	28♒ 2	9♒33	9♈ 1	1°R21	24♒30	12°R21	4♐ 8	6°R27	12♑55	27°R19	25♋48	11♎ 1	n.a.	M 1
T 2	10 25 9	8°17'51	12♓57	10°34	10°13	0♍58	24°44	12♎17	4° 8	6♍26	12°56	27♋14	25°45	11° 8	n.a.	T 2
W 3	10 29 5	9°16'55	28° 2	11°37	11°25	0°35	24°59	12°14	4° 9	6°24	12°57	27° 8	25°42	11°14	n.a.	W 3
T 4	10 33 2	10°15'57	13♈ 7	12°44	12°37	0°13	25°13	12°11	4° 9	6°22	12°58	27° 1	25°38	11°21	n.a.	T 4
F 5	10 36 58	11°14'56	28° 1	13°52	13°50	29♌50	25°27	12° 7	4°10	6°21	12°59	26°55	25°35	11°28	n.a.	F 5
S 6	10 40 55	12°13'54	12♉39	15° 3	15° 2	29°28	25°41	12° 4	4°10	6°19	13° 0	26°50	25°32	11°35	n.a.	S 6
S 7	10 44 52	13°12'49	26°55	16°16	16°14	29° 6	25°55	12° 0	4°10	6°17	13° 2	26°47	25°29	11°41	n.a.	S 7
M 8	10 48 48	14°11'41	10♊47	17°31	17°26	28°45	26°10	11°56	4°10	6°16	13° 3	26°D46	25°26	11°48	n.a.	M 8
T 9	10 52 45	15°10'32	24°15	18°48	18°37	28°24	26°24	11°53	4°11	6°14	13° 4	26°46	25°23	11°55	n.a.	T 9
W10	10 56 41	16° 9'19	7♋22	20° 7	19°49	28° 3	26°38	11°49	4°11	6°12	13° 5	26°47	25°19	12° 1	n.a.	W10
T 11	11 0 38	17° 8'05	20°11	21°28	21° 1	27°43	26°52	11°45	4°11	6°11	13° 6	26°48	25°16	12° 8	n.a.	T 11
F 12	11 4 34	18° 6'48	2♌44	22°51	22°13	27°24	27° 6	11°41	4°R11	6° 9	13° 7	26°R48	25°13	12°15	n.a.	F 12
S 13	11 8 31	19° 5'29	15° 6	24°16	23°24	27° 5	27°20	11°37	4°11	6° 8	13° 8	26°47	25°10	12°22	n.a.	S 13
S 14	11 12 27	20° 4'07	27°19	25°42	24°36	26°47	27°34	11°33	4°11	6° 6	13° 9	26°43	25° 7	12°28	n.a.	S 14
M15	11 16 24	21° 2'44	9♍24	27°11	25°47	26°29	27°47	11°29	4°11	6° 4	13° 9	26°36	25° 4	12°35	n.a.	M15
T 16	11 20 20	22° 1'18	21°24	28°41	26°58	26°12	28° 1	11°25	4°11	6° 3	13°10	26°27	25° 0	12°42	n.a.	T 16
W17	11 24 17	22°59'50	3♎19	0♓13	28° 9	25°55	28°15	11°21	4°10	6° 1	13°11	26°17	24°57	12°48	n.a.	W17
T 18	11 28 14	23°58'21	15°13	1°46	29°21	25°40	28°29	11°17	4°10	6° 0	13°12	26° 6	24°54	12°55	n.a.	T 18
F 19	11 32 10	24°56'49	27° 5	3°21	0♉32	25°24	28°43	11°13	4°10	5°58	13°13	25°55	24°51	13° 2	n.a.	F 19
S 20	11 36 7	25°55'15	8♏58	4°58	1°43	25°10	28°56	11° 8	4° 9	5°57	13°14	25°45	24°48	13° 9	n.a.	S 20
S 21	11 40 3	26°53'40	20°55	6°37	2°53	24°56	29°10	11° 4	4° 9	5°55	13°14	25°37	24°44	13°15	n.a.	S 21
M22	11 44 0	27°52'03	2♐59	8°17	4° 4	24°44	29°24	11° 0	4° 9	5°53	13°15	25°32	24°41	13°22	n.a.	M22
T 23	11 47 56	28°50'25	15°14	9°59	5°15	24°31	29°37	10°55	4° 8	5°52	13°16	25°29	24°38	13°29	n.a.	T 23
W24	11 51 53	29°48'44	27°43	11°42	6°25	24°20	29°51	10°51	4° 7	5°51	13°16	25°D28	24°35	13°35	n.a.	W24
T 25	11 55 49	0♈47'02	10♑33	13°28	7°36	24° 9	0♓ 4	10°47	4° 7	5°49	13°17	25°28	24°32	13°42	n.a.	T 25
F 26	11 59 46	1°45'19	23°46	15°15	8°46	24° 0	0°17	10°42	4° 6	5°48	13°18	25°R29	24°29	13°49	n.a.	F 26
S 27	12 3 43	2°43'34	7♒26	17° 3	9°57	23°50	0°31	10°38	4° 6	5°46	13°18	25°28	24°25	13°56	n.a.	S 27
S 28	12 7 39	3°41'47	21°36	18°54	11° 7	23°42	0°44	10°33	4° 5	5°45	13°19	25°26	24°22	14° 2	n.a.	S 28
M29	12 11 36	4°39'59	6♓13	20°46	12°17	23°35	0°57	10°29	4° 4	5°43	13°19	25°21	24°19	14° 9	n.a.	M29
T 30	12 15 32	5°38'08	21°13	22°40	13°27	23°28	1°10	10°24	4° 3	5°42	13°20	25°13	24°16	14°16	n.a.	T 30
W31	12 19 29	6♈36'17	6♈28	24♓35	14♉37	23♌22	1♓24	10♎20	4♐ 2	5♍41	13♑20	25♋ 4	24♋13	14♎23	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊		☊		⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl		decl		decl		decl	lat
M 1	8s56	14s46	2s39	19s 9	1s 8	3n35	0s 2	14n55	4n 5	14s31	1s 4	2s22	2n48	21s12	0n 2	10n40	1n32	29s15	6s12	20n56	21n14	0n10					n.a.
T 2	8 33	10 11	3 42	19 1	1 16	4 6	0n 1	15 3	4 4	14 26	1 4	2 21	2 48	21 12	0 2	10 41	1 32	29 15	6 12	20 57	21 15	0 7					n.a.
W 3	8 11	4 55	4 30	18 51	1 25	4 38	0 4	15 10	4 2	14 21	1 4	2 19	2 48	21 12	0 2	10 41	1 32	29 15	6 12	20 59	21 15	0 5					n.a.
T 4	7 48	0n38	5 0	18 39	1 32	5 9	0 7	15 16	4 1	14 17	1 4	2 18	2 48	21 12	0 2	10 42	1 32	29 15	6 13	21 0	21 16	0 2					n.a.
F 5	7 26	6 6	5 9	18 26	1 39	5 40	0 10	15 23	3 59	14 12	1 5	2 16	2 48	21 12	0 2	10 43	1 32	29 15	6 13	21 1	21 16	0 0					n.a.
S 6	7 3	11 6	4 57	18 12	1 46	6 12	0 13	15 29	3 57	14 7	1 5	2 15	2 48	21 12	0 2	10 43	1 32	29 15	6 13	21 2	21 17	0s 2					n.a.
S 7	6 40	15 22	4 27	17 56	1 52	6 43	0 17	15 35	3 55	14 2	1 5	2 13	2 48	21 12	0 2	10 44	1 32	29 16	6 13	21 3	21 17	0 5					n.a.
M 8	6 17	18 39	3 43	17 38	1 58	7 13	0 20	15 41	3 54	13 58	1 5	2 11	2 49	21 12	0 2	10 45	1 32	29 16	6 13	21 3	21 18	0 7					n.a.
T 9	5 54	20 49	2 46	17 19	2 3	7 44	0 23	15 47	3 52	13 53	1 5	2 10	2 49	21 12	0 1	10 45	1 32	29 16	6 14	21 3	21 19	0 10					n.a.
W10	5 31	21 48	1 43	16 58	2 8	8 15	0 26	15 52	3 49	13 48	1 5	2 8	2 49	21 12	0 1	10 46	1 32	29 16	6 14	21 3	21 19	0 12					n.a.
T 11	5 8	21 36	0 36	16 35	2 12	8 45	0 29	15 57	3 47	13 43	1 5	2 7	2 49	21 12	0 1	10 46	1 32	29 16	6 14	21 2	21 20	0 15					n.a.
F 12	4 45	20 18	0n32	16 11	2 16	9 15	0 33	16 2	3 45	13 38	1 5	2 5	2 49	21 12	0 1	10 47	1 32	29 16	6 14	21 2	21 20	0 17					n.a.
S 13	4 22	18 2	1 37	15 46	2 19	9 45	0 36	16 6	3 43	13 34	1 5	2 3	2 49	21 12	0 1	10 48	1 32	29 16	6 15	21 3	21 21	0 20					n.a.
S 14	3 59	14 59	2 36	15 19	2 21	10 15	0 39	16 11	3 41	13 29	1 5	2 2	2 49	21 12	0 1	10 48	1 32	29 16	6 15	21 3	21 22	0 22					n.a.
M15	3 35	11 20	3 28	14 50	2 23	10 44	0 42	16 15	3 38	13 24	1 6	2 0	2 49	21 12	0 1	10 49	1 32	29 17	6 15	21 5	21 22	0 24					n.a.
T 16	3 12	7 16	4 10	14 20	2 25	11 13	0 46	16 18	3 36	13 19	1 6	1 58	2 50	21 12	0 1	10 49	1 32	29 17	6 15	21 6	21 23	0 27					n.a.
W17	2 49	2 57	4 40	13 48	2 26	11 42	0 49	16 22	3 33	13 15	1 6	1 56	2 50	21 12	0 1	10 50	1 32	29 17	6 15	21 8	21 23	0 29					n.a.
T 18	2 25	1s28	4 58	13 15	2 27	12 11	0 52	16 25	3 31	13 10	1 6	1 55	2 50	21 12	0 1	10 50	1 32	29 17	6 16	21 11	21 24	0 32					n.a.
F 19	2 2	5 50	5 4	12 40	2 27	12 39	0 55	16 28	3 28	13 5	1 6	1 53	2 50	21 12	0 1	10 51	1 32	29 17	6 16	21 13	21 24	0 34					n.a.
S 20	1 38	9 59	4 56	12 4	2 26	13 7	0 59	16 30	3 25	13 1	1 6	1 51	2 50	21 12	0 1	10 52	1 32	29 17	6 16	21 14	21 25	0 37					n.a.
S 21	1 15	13 46	4 35	11 26	2 25	13 35	1 2	16 32	3 23	12 56	1 6	1 50	2 50	21 12	0 1	10 52	1 32	29 17	6 16	21 16	21 26	0 39					n.a.
M22	0 51	17 3	4 2	10 47	2 24	14 3	1 5	16 34	3 20	12 51	1 6	1 48	2 50	21 12	0 1	10 53	1 32	29 18	6 17	21 17	21 26	0 42					n.a.
T 23	0 28	19 37	3 17	10 6	2 22	14 30	1 8	16 36	3 17	12 46	1 7	1 46	2 50	21 12	0 1	10 53	1 32	29 18	6 17	21 17	21 27	0 44					n.a.
W24	0 5	21 20	2 22	9 23	2 19	14 56	1 11	16 37	3 15	12 42	1 7	1 44	2 50	21 12	0 1	10 54	1 32	29 18	6 17	21 18	21 27	0 47					n.a.
T 25	0n19	21 59	1 19	8 40	2 16	15 23	1 15	16 38	3 12	12 37	1 7	1 42	2 50	21 12	0 1	10 54	1 32	29 18	6 17	21 18	21 28	0 49					n.a.
F 26	0 42	21 27	0 9	7 54	2 12	15 49	1 18	16 39	3 9	12 32	1 7	1 41	2 50	21 11	0 1	10 55	1 32	29 18	6 18	21 18	21 28	0 51					n.a.
S 27	1 6	19 39	1s 3	7 8	2 8	16 15	1 21	16 39	3 6	12 28	1 7	1 39	2 50	21 11	0 1	10 55	1 32	29 18	6 18	21 18	21 29	0 54					n.a.
S 28	1 29	16 35	2 14	6 20	2 3	16 40	1 24	16 39	3 3	12 23	1 7	1 37	2 50	21 11	0 1	10 56	1 32	29 19	6 18	21 18	21 30	0 56					n.a.
M29	1 53	12 24	3 18	5 30	1 58	17 5	1 27	16 39	3 1	12 19	1 7	1 35	2 50	21 11	0 1	10 56	1 32	29 19	6 18	21 19	21 30	0 59					n.a.
T 30	2 16	7 21	4 11	4 39	1 52	17 29	1 30	16 39	2 58	12 14	1 7	1 34	2 50	21 11	0 1	10 57	1 32	29 19	6 19	21 20	21 31	1 1					n.a.
W31	2n39	1s47	4s46	3s47	1s46	17n53	1n33	16n38	2n55	12s 9	1s 8	1s32	2n50	21s11	0n 1	10n57	1n32	29s19	6s19	21n22	21n31	1s 4					n.a.

Julian Day Number = 1649528.5, Delta T = 03h31m48s
Ecliptic obliquity = 23°43'05, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°47'10, Lahiri = - 6°40'09 Julian Calendar 1 March 197 BCE == Greg. Calendar 27 Feb. 197 BCE

The year -196 astronomical counting style corresponds to year 197 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 197 BCE
geocentric

APRIL 197 BCE (-196) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 23 25	7♈34'23	21♈46	26♓32	15♉47	23°R17	1♓37	10°R15	4°R 1	5°R39	13♑21	24°R54	24♋ 9	14♎29	n.a.	T 1
F 2	12 27 22	8°32'27	6♉58	28°31	16°56	23♌13	1°50	10♎11	4♐ 0	5♍38	13°21	24♋44	24° 6	14°36	n.a.	F 2
S 3	12 31 18	9°30'30	21°51	0♈32	18° 6	23°10	2° 3	10° 6	3°59	5°37	13°22	24°35	24° 3	14°43	n.a.	S 3
S 4	12 35 15	10°28'31	6♊21	2°34	19°16	23° 7	2°15	10° 2	3°58	5°35	13°22	24°29	24° 0	14°49	n.a.	S 4
M 5	12 39 11	11°26'30	20°22	4°38	20°25	23° 5	2°28	9°57	3°57	5°34	13°22	24°26	23°57	14°56	n.a.	M 5
T 6	12 43 8	12°24'26	3♋55	6°43	21°34	23° 4	2°41	9°53	3°56	5°33	13°23	24°24	23°54	15° 3	n.a.	T 6
W 7	12 47 5	13°22'21	17° 1	8°49	22°43	23°D 4	2°54	9°49	3°55	5°31	13°23	24°24	23°50	15°10	n.a.	W 7
T 8	12 51 1	14°20'14	29°46	10°57	23°52	23° 4	3° 6	9°44	3°53	5°30	13°23	24°24	23°47	15°16	n.a.	T 8
F 9	12 54 58	15°18'05	12♌12	13° 5	25° 1	23° 6	3°19	9°40	3°52	5°29	13°24	24°23	23°44	15°23	n.a.	F 9
S 10	12 58 54	16°15'54	24°25	15°15	26°10	23° 8	3°31	9°35	3°51	5°28	13°24	24°20	23°41	15°30	n.a.	S 10
S 11	13 2 51	17°13'42	6♍29	17°25	27°19	23°10	3°44	9°31	3°49	5°27	13°24	24°14	23°38	15°36	n.a.	S 11
M12	13 6 47	18°11'27	18°26	19°35	28°27	23°14	3°56	9°26	3°48	5°26	13°24	24° 6	23°35	15°43	n.a.	M12
T 13	13 10 44	19° 9'11	0♎20	21°46	29°35	23°18	4° 8	9°22	3°46	5°25	13°24	23°55	23°31	15°50	n.a.	T 13
W14	13 14 40	20° 6'53	12°13	23°57	0♊44	23°23	4°20	9°17	3°45	5°23	13°24	23°42	23°28	15°57	n.a.	W14
T 15	13 18 37	21° 4'34	24° 5	26° 7	1°52	23°29	4°32	9°13	3°43	5°22	13°24	23°28	23°25	16° 3	n.a.	T 15
F 16	13 22 34	22° 2'14	6♏ 0	28°16	3° 0	23°35	4°44	9° 9	3°42	5°21	13°24	23°14	23°22	16°10	n.a.	F 16
S 17	13 26 30	22°59'52	17°57	0♉25	4° 7	23°42	4°56	9° 4	3°40	5°20	13°24	23° 1	23°19	16°17	n.a.	S 17
S 18	13 30 27	23°57'28	29°59	2°32	5°15	23°49	5° 8	9° 0	3°39	5°19	13°R25	22°51	23°15	16°24	n.a.	S 18
M19	13 34 23	24°55'04	12♐ 8	4°38	6°23	23°58	5°20	8°56	3°37	5°18	13°24	22°44	23°12	16°30	n.a.	M19
T 20	13 38 20	25°52'39	24°26	6°42	7°30	24° 7	5°32	8°52	3°35	5°18	13°24	22°39	23° 9	16°37	n.a.	T 20
W21	13 42 16	26°50'12	6♑58	8°44	8°37	24°16	5°43	8°48	3°33	5°17	13°24	22°37	23° 6	16°44	n.a.	W21
T 22	13 46 13	27°47'44	19°46	10°45	9°44	24°26	5°55	8°43	3°32	5°16	13°24	22°36	23° 3	16°50	n.a.	T 22
F 23	13 50 9	28°45'16	2♒55	12°42	10°51	24°37	6° 6	8°39	3°30	5°15	13°24	22°36	23° 0	16°57	n.a.	F 23
S 24	13 54 6	29°42'46	16°28	14°38	11°58	24°49	6°17	8°35	3°28	5°14	13°24	22°35	22°56	17° 4	n.a.	S 24
S 25	13 58 3	0♉40'16	0♓29	16°31	13° 4	25° 1	6°29	8°31	3°26	5°13	13°24	22°33	22°53	17°11	n.a.	S 25
M26	14 1 59	1°37'44	14°55	18°21	14°11	25°13	6°40	8°27	3°24	5°13	13°24	22°28	22°50	17°17	n.a.	M26
T 27	14 5 56	2°35'12	29°46	20° 8	15°17	25°26	6°51	8°23	3°22	5°12	13°23	22°21	22°47	17°24	n.a.	T 27
W28	14 9 52	3°32'39	14♈54	21°53	16°23	25°40	7° 2	8°20	3°20	5°11	13°23	22°11	22°44	17°31	n.a.	W28
T 29	14 13 49	4°30'05	0♉10	23°35	17°29	25°54	7°13	8°16	3°18	5°10	13°23	22° 1	22°40	17°37	n.a.	T 29
F 30	14 17 45	5♉27'29	15♉23	25♉14	18♊34	26♌ 9	7♓23	8♎12	3♐16	5♍10	13♑22	21♋51	22♋37	17♎44	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n 2	3n56	5s 1	2s54	1s39	18n17	1n36	16n37	2n52	12s 5	1s 8	1s30	2n50	21s11	0n 1	10n58	1n32	29s19	6s19	21n24	21n32	1s 6		n.a.
F 2	3 25	9 21	4 55	1 59	1 32	18 40	1 39	16 36	2 49	12 0	1 8	1 28	2 50	21 10	0 1	10 58	1 32	29 20	6 19	21 26	21 32	1 9		n.a.
S 3	3 49	14 7	4 29	1 4	1 24	19 3	1 42	16 34	2 46	11 56	1 8	1 26	2 50	21 10	0 1	10 59	1 32	29 20	6 20	21 27	21 33	1 11		n.a.
S 4	4 12	17 55	3 45	0 7	1 15	19 25	1 45	16 33	2 44	11 51	1 8	1 25	2 50	21 10	0 1	10 59	1 32	29 20	6 20	21 28	21 34	1 14		n.a.
M 5	4 35	20 32	2 50	0n50	1 7	19 47	1 47	16 30	2 41	11 47	1 8	1 23	2 50	21 10	0 1	11 0	1 32	29 20	6 20	21 29	21 34	1 16		n.a.
T 6	4 57	21 53	1 46	1 49	0 58	20 8	1 50	16 28	2 38	11 42	1 9	1 21	2 50	21 10	0 1	11 0	1 32	29 20	6 20	21 29	21 35	1 19		n.a.
W 7	5 20	21 59	0 39	2 48	0 48	20 29	1 53	16 26	2 35	11 38	1 9	1 19	2 50	21 9	0 1	11 1	1 32	29 21	6 21	21 29	21 35	1 21		n.a.
T 8	5 43	20 54	0n28	3 48	0 38	20 49	1 55	16 23	2 32	11 33	1 9	1 18	2 50	21 9	0 1	11 1	1 32	29 21	6 21	21 29	21 36	1 24		n.a.
F 9	6 6	18 49	1 33	4 48	0 28	21 9	1 58	16 20	2 30	11 29	1 9	1 16	2 50	21 9	0 1	11 2	1 32	29 21	6 21	21 29	21 36	1 26		n.a.
S 10	6 28	15 55	2 32	5 48	0 18	21 28	2 1	16 17	2 27	11 24	1 9	1 14	2 50	21 9	0 1	11 2	1 32	29 21	6 21	21 30	21 37	1 29		n.a.
S 11	6 51	12 22	3 23	6 48	0 7	21 47	2 3	16 13	2 24	11 20	1 9	1 12	2 50	21 8	0 1	11 2	1 32	29 22	6 22	21 31	21 37	1 31		n.a.
M12	7 13	8 22	4 4	7 48	0n 3	22 5	2 5	16 9	2 22	11 16	1 10	1 11	2 50	21 8	0 1	11 3	1 32	29 22	6 22	21 33	21 38	1 34		n.a.
T 13	7 35	4 4	4 35	8 47	0 14	22 23	2 8	16 5	2 19	11 11	1 10	1 9	2 50	21 8	0 1	11 3	1 32	29 22	6 22	21 35	21 39	1 36		n.a.
W14	7 57	0s23	4 54	9 46	0 24	22 40	2 10	16 1	2 16	11 7	1 10	1 7	2 50	21 8	0 1	11 4	1 32	29 22	6 22	21 37	21 39	1 38		n.a.
T 15	8 19	4 49	4 59	10 44	0 35	22 56	2 12	15 57	2 13	11 3	1 10	1 6	2 50	21 7	0 1	11 4	1 32	29 22	6 23	21 39	21 40	1 41		n.a.
F 16	8 41	9 5	4 52	11 41	0 45	23 12	2 14	15 52	2 11	10 58	1 10	1 4	2 50	21 7	0 1	11 4	1 31	29 23	6 23	21 42	21 40	1 43		n.a.
S 17	9 3	13 1	4 32	12 36	0 55	23 27	2 16	15 47	2 8	10 54	1 10	1 2	2 50	21 7	0 1	11 5	1 31	29 23	6 23	21 44	21 41	1 46		n.a.
S 18	9 24	16 29	4 0	13 30	1 5	23 42	2 18	15 42	2 6	10 50	1 11	1 1	2 50	21 6	0 1	11 5	1 31	29 23	6 23	21 45	21 41	1 48		n.a.
M19	9 45	19 16	3 16	14 23	1 14	23 56	2 20	15 37	2 3	10 46	1 11	0 59	2 50	21 6	0 1	11 5	1 31	29 23	6 24	21 47	21 42	1 51		n.a.
T 20	10 7	21 13	2 23	15 13	1 23	24 9	2 22	15 32	2 1	10 42	1 11	0 58	2 50	21 6	0 1	11 6	1 31	29 24	6 24	21 47	21 42	1 53		n.a.
W21	10 28	22 10	1 22	16 1	1 31	24 22	2 24	15 26	1 58	10 37	1 11	0 56	2 50	21 5	0 1	11 6	1 31	29 24	6 24	21 48	21 43	1 56		n.a.
T 22	10 49	22 0	0 15	16 47	1 39	24 34	2 26	15 20	1 55	10 33	1 11	0 54	2 49	21 5	0 1	11 6	1 31	29 24	6 24	21 48	21 43	1 58		n.a.
F 23	11 9	20 37	0s54	17 31	1 46	24 46	2 27	15 14	1 53	10 29	1 12	0 53	2 49	21 5	0 1	11 6	1 31	29 24	6 25	21 48	21 44	2 1		n.a.
S 24	11 30	18 2	2 3	18 12	1 53	24 57	2 29	15 8	1 51	10 25	1 12	0 51	2 49	21 4	0 1	11 7	1 31	29 25	6 25	21 48	21 45	2 3		n.a.
S 25	11 50	14 19	3 6	18 52	1 59	25 7	2 30	15 2	1 48	10 21	1 12	0 50	2 49	21 4	0 1	11 7	1 31	29 25	6 25	21 48	21 45	2 6		n.a.
M26	12 11	9 40	3 59	19 28	2 4	25 16	2 31	14 55	1 46	10 17	1 12	0 48	2 49	21 4	0 1	11 7	1 31	29 25	6 25	21 49	21 46	2 8		n.a.
T 27	12 31	4 20	4 38	20 2	2 8	25 25	2 33	14 48	1 43	10 13	1 12	0 47	2 49	21 3	0 1	11 7	1 31	29 26	6 25	21 50	21 46	2 11		n.a.
W28	12 51	1n21	4 58	20 34	2 12	25 34	2 34	14 42	1 41	10 9	1 13	0 46	2 49	21 3	0 1	11 8	1 31	29 26	6 26	21 52	21 47	2 13		n.a.
T 29	13 10	7 1	4 58	21 4	2 15	25 41	2 35	14 34	1 39	10 5	1 13	0 44	2 49	21 3	0 1	11 8	1 31	29 26	6 26	21 54	21 47	2 16		n.a.
F 30	13n30	12n14	4s36	21n31	2n17	25n48	2n36	14n27	1n36	10s 2	1s13	0s43	2n48	21s 2	0n 1	11n 8	1n31	29s26	6s26	21n55	21n48	2s18		n.a.

Julian Day Number = 1649559.5, Delta T = 03h31m47s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°47'06, Lahiri = - 6°40'05 Julian Calendar 1 Apr. 197 BCE == Greg. Calendar 29 March 197 BCE

The year -196 astronomical counting style corresponds to year 197 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 197 BCE
geocentric

MAY 197 BCE (-196) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 21 42	6♉24'53	0♊22	26♉50	19♊40	26♌25	7♓34	8°R 8	3°R14	5°R 9	13°R22	21°R42	22♋34	17♎51	n.a.	S 1
S 2	14 25 38	7°22'16	14°58	28°23	20°45	26°41	7°44	8♎ 5	3♐12	5♍ 9	13♑22	21♋35	22°31	17°58	n.a.	S 2
M 3	14 29 35	8°19'37	29° 7	29°54	21°50	26°57	7°55	8° 1	3°10	5° 8	13°21	21°31	22°28	18° 4	n.a.	M 3
T 4	14 33 32	9°16'57	12♋47	1♊21	22°55	27°14	8° 5	7°58	3° 8	5° 8	13°21	21°29	22°25	18°11	n.a.	T 4
W 5	14 37 28	10°14'17	25°58	2°45	23°59	27°31	8°15	7°54	3° 5	5° 7	13°21	21°D29	22°21	18°18	n.a.	W 5
T 6	14 41 25	11°11'35	8♌45	4° 6	25° 4	27°49	8°26	7°51	3° 3	5° 7	13°20	21°R30	22°18	18°25	n.a.	T 6
F 7	14 45 21	12° 8'51	21°12	5°24	26° 8	28° 8	8°36	7°47	3° 1	5° 6	13°20	21°29	22°15	18°31	n.a.	F 7
S 8	14 49 18	13° 6'07	3♍24	6°39	27°12	28°27	8°45	7°44	2°59	5° 6	13°19	21°27	22°12	18°38	n.a.	S 8
S 9	14 53 14	14° 3'22	15°25	7°50	28°16	28°46	8°55	7°41	2°57	5° 5	13°19	21°23	22° 9	18°45	n.a.	S 9
M10	14 57 11	15° 0'35	27°19	8°59	29°19	29° 6	9° 5	7°38	2°54	5° 5	13°18	21°16	22° 6	18°51	n.a.	M10
T 11	15 1 7	15°57'48	9♎11	10° 4	0♋22	29°26	9°14	7°35	2°52	5° 5	13°17	21° 8	22° 2	18°58	n.a.	T 11
W12	15 5 4	16°55'00	21° 3	11° 5	1°25	29°46	9°24	7°32	2°50	5° 4	13°17	20°57	21°59	19° 5	n.a.	W12
T 13	15 9 1	17°52'11	2♏58	12° 3	2°28	0♍ 7	9°33	7°29	2°47	5° 4	13°16	20°45	21°56	19°12	n.a.	T 13
F 14	15 12 57	18°49'21	14°57	12°58	3°30	0°29	9°42	7°26	2°45	5° 4	13°15	20°34	21°53	19°18	n.a.	F 14
S 15	15 16 54	19°46'31	27° 1	13°49	4°32	0°51	9°51	7°23	2°43	5° 4	13°15	20°24	21°50	19°25	n.a.	S 15
S 16	15 20 50	20°43'41	9♐13	14°36	5°34	1°13	10° 0	7°21	2°40	5° 4	13°14	20°15	21°46	19°32	n.a.	S 16
M17	15 24 47	21°40'50	21°32	15°19	6°35	1°35	10° 9	7°18	2°38	5° 4	13°13	20° 9	21°43	19°39	n.a.	M17
T 18	15 28 43	22°37'58	4♑ 2	15°59	7°36	1°58	10°18	7°16	2°36	5° 3	13°13	20° 6	21°40	19°45	n.a.	T 18
W19	15 32 40	23°35'07	16°43	16°34	8°37	2°22	10°26	7°13	2°33	5° 3	13°12	20°D 4	21°37	19°52	n.a.	W19
T 20	15 36 36	24°32'15	29°39	17° 5	9°38	2°45	10°35	7°11	2°31	5°D 3	13°11	20° 5	21°34	19°59	n.a.	T 20
F 21	15 40 33	25°29'23	12♒51	17°32	10°38	3°10	10°43	7° 9	2°28	5° 3	13°10	20° 6	21°31	20° 5	n.a.	F 21
S 22	15 44 30	26°26'31	26°23	17°55	11°38	3°34	10°51	7° 6	2°26	5° 3	13° 9	20°R 6	21°27	20°12	n.a.	S 22
S 23	15 48 26	27°23'39	10♓17	18°13	12°37	3°59	10°59	7° 4	2°24	5° 3	13° 9	20° 5	21°24	20°19	n.a.	S 23
M24	15 52 23	28°20'47	24°32	18°27	13°36	4°24	11° 7	7° 2	2°21	5° 4	13° 8	20° 3	21°21	20°26	n.a.	M24
T 25	15 56 19	29°17'55	9♈ 6	18°36	14°35	4°49	11°14	7° 0	2°19	5° 4	13° 7	19°58	21°18	20°32	n.a.	T 25
W26	16 0 16	0♊15'02	23°57	18°R40	15°33	5°15	11°22	6°59	2°16	5° 4	13° 6	19°52	21°15	20°39	n.a.	W26
T 27	16 4 12	1°12'10	8♉55	18°40	16°31	5°41	11°29	6°57	2°14	5° 4	13° 5	19°45	21°12	20°46	n.a.	T 27
F 28	16 8 9	2° 9'18	23°53	18°36	17°28	6° 7	11°37	6°55	2°11	5° 4	13° 4	19°38	21° 8	20°52	n.a.	F 28
S 29	16 12 6	3° 6'26	8♊42	18°27	18°25	6°34	11°44	6°54	2° 9	5° 5	13° 3	19°32	21° 5	20°59	n.a.	S 29
S 30	16 16 2	4° 3'34	23°13	18°13	19°22	7° 1	11°51	6°52	2° 6	5° 5	13° 2	19°27	21° 2	21° 6	n.a.	S 30
M31	16 19 59	5♊ 0'42	7♋21	17♊56	20♋18	7♍29	11♓58	6♎51	2♐ 4	5♍ 5	13♑ 1	19♋25	20♋59	21♎13	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	13n49	16n37	3s56	21n55	2n18	25n55	2n37	14n20	1n34	9s58	1s13	0s42	2n48	21s 2	0n 1	11n 8	1n31	29s27	6s26	21n57	21n48	2s21			n.a.
S 2	14 8	19 52	3 1	22 17	2 19	26 0	2 37	14 12	1 32	9 54	1 14	0 40	2 48	21 1	0 1	11 9	1 31	29 27	6 27	21 58	21 49	2 23			n.a.
M 3	14 27	21 47	1 56	22 37	2 19	26 5	2 38	14 4	1 30	9 50	1 14	0 39	2 48	21 1	0 1	11 9	1 31	29 27	6 27	21 58	21 49	2 26			n.a.
T 4	14 45	22 20	0 46	22 55	2 18	26 10	2 38	13 56	1 27	9 47	1 14	0 38	2 48	21 1	0 1	11 9	1 31	29 27	6 27	21 59	21 50	2 28			n.a.
W 5	15 4	21 35	0n24	23 11	2 16	26 13	2 39	13 48	1 25	9 43	1 14	0 36	2 48	21 0	0 1	11 9	1 31	29 28	6 27	21 59	21 50	2 31			n.a.
T 6	15 22	19 44	1 30	23 24	2 14	26 16	2 39	13 40	1 23	9 39	1 14	0 35	2 47	21 0	0 1	11 9	1 31	29 28	6 28	21 59	21 51	2 33			n.a.
F 7	15 40	16 59	2 31	23 36	2 11	26 19	2 39	13 32	1 21	9 36	1 15	0 34	2 47	20 59	0 1	11 9	1 31	29 28	6 28	21 59	21 51	2 36			n.a.
S 8	15 57	13 32	3 23	23 45	2 7	26 20	2 39	13 23	1 19	9 32	1 15	0 33	2 47	20 59	0 1	11 9	1 31	29 29	6 28	21 59	21 52	2 38			n.a.
S 9	16 15	9 35	4 6	23 52	2 2	26 21	2 39	13 14	1 17	9 29	1 15	0 32	2 47	20 59	0 1	11 9	1 31	29 29	6 28	22 0	21 52	2 41			n.a.
M10	16 32	5 18	4 37	23 58	1 56	26 22	2 39	13 5	1 15	9 25	1 15	0 31	2 47	20 58	0 1	11 10	1 31	29 29	6 29	22 1	21 53	2 43			n.a.
T 11	16 48	0 51	4 56	24 2	1 50	26 21	2 38	12 56	1 13	9 22	1 16	0 30	2 47	20 58	0 1	11 10	1 31	29 29	6 29	22 2	21 53	2 46			n.a.
W12	17 5	3s38	5 3	24 4	1 43	26 20	2 38	12 47	1 11	9 18	1 16	0 29	2 46	20 57	0 1	11 10	1 31	29 30	6 29	22 4	21 54	2 48			n.a.
T 13	17 21	8 1	4 56	24 4	1 35	26 19	2 37	12 38	1 9	9 15	1 16	0 28	2 46	20 57	0 1	11 10	1 31	29 30	6 29	22 6	21 54	2 51			n.a.
F 14	17 37	12 7	4 36	24 3	1 26	26 17	2 36	12 28	1 7	9 12	1 16	0 27	2 46	20 56	0 1	11 10	1 30	29 30	6 29	22 7	21 55	2 53			n.a.
S 15	17 53	15 46	4 4	24 0	1 17	26 14	2 36	12 18	1 5	9 9	1 17	0 26	2 46	20 56	0 1	11 10	1 30	29 31	6 30	22 9	21 56	2 56			n.a.
S 16	18 9	18 48	3 20	23 56	1 7	26 10	2 34	12 9	1 3	9 5	1 17	0 25	2 46	20 55	0 1	11 10	1 30	29 31	6 30	22 10	21 56	2 58			n.a.
M17	18 24	21 1	2 26	23 50	0 56	26 6	2 33	11 59	1 1	9 2	1 17	0 24	2 45	20 55	0 1	11 10	1 30	29 31	6 30	22 11	21 57	3 1			n.a.
T 18	18 39	22 15	1 25	23 43	0 45	26 1	2 32	11 49	0 59	8 59	1 17	0 23	2 45	20 54	0 1	11 10	1 30	29 31	6 30	22 12	21 57	3 3			n.a.
W19	18 53	22 22	0 18	23 34	0 33	25 56	2 30	11 38	0 57	8 56	1 18	0 23	2 45	20 54	0 1	11 10	1 30	29 32	6 31	22 12	21 58	3 6			n.a.
T 20	19 7	21 18	0s51	23 25	0 20	25 50	2 29	11 28	0 55	8 53	1 18	0 22	2 45	20 54	0 1	11 10	1 30	29 32	6 31	22 12	21 58	3 8			n.a.
F 21	19 21	19 3	1 59	23 14	0 7	25 44	2 27	11 18	0 53	8 50	1 18	0 21	2 44	20 53	0 1	11 10	1 30	29 32	6 31	22 12	21 59	3 11			n.a.
S 22	19 35	15 43	3 2	23 3	0s 7	25 37	2 25	11 7	0 52	8 47	1 18	0 21	2 44	20 53	0 1	11 10	1 30	29 33	6 31	22 12	21 59	3 14			n.a.
S 23	19 48	11 26	3 56	22 50	0 22	25 29	2 23	10 56	0 50	8 45	1 19	0 20	2 44	20 52	0 1	11 10	1 30	29 33	6 31	22 12	22 0	3 16			n.a.
M24	20 1	6 26	4 37	22 36	0 37	25 21	2 21	10 45	0 48	8 42	1 19	0 19	2 44	20 52	0 1	11 10	1 30	29 33	6 32	22 12	22 0	3 19			n.a.
T 25	20 14	0 58	5 1	22 22	0 52	25 12	2 18	10 34	0 46	8 39	1 19	0 19	2 43	20 51	0 1	11 9	1 30	29 34	6 32	22 13	22 1	3 21			n.a.
W26	20 26	4n39	5 6	22 6	1 7	25 3	2 16	10 23	0 44	8 36	1 20	0 18	2 43	20 51	0 1	11 9	1 30	29 34	6 32	22 14	22 1	3 24			n.a.
T 27	20 38	10 3	4 50	21 51	1 23	24 53	2 13	10 12	0 43	8 34	1 20	0 18	2 43	20 50	0 1	11 9	1 30	29 34	6 32	22 15	22 2	3 26			n.a.
F 28	20 50	14 51	4 14	21 34	1 39	24 43	2 10	10 0	0 41	8 31	1 20	0 17	2 43	20 50	0 1	11 9	1 30	29 34	6 32	22 16	22 2	3 29			n.a.
S 29	21 1	18 41	3 22	21 17	1 56	24 32	2 7	9 49	0 39	8 29	1 20	0 17	2 43	20 49	0 1	11 9	1 30	29 35	6 33	22 17	22 3	3 31			n.a.
S 30	21 12	21 16	2 17	21 0	2 12	24 20	2 4	9 37	0 38	8 26	1 21	0 17	2 42	20 49	0 1	11 9	1 30	29 35	6 33	22 17	22 3	3 34			n.a.
M31	21n23	22n26	1s 5	20n43	2s28	24n 9	2n 0	9n25	0n36	8s24	1s21	0s16	2n42	20s48	0n 1	11n 9	1n30	29s35	6s33	22n18	22n 4	3s36			n.a.

Julian Day Number = 1649589.5, Delta T = 03h31m46s
Ecliptic obliquity = 23°43'05, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°47'02, Lahiri = - 6°40'01 Julian Calendar 1 May 197 BCE == Greg. Calendar 28 Apr. 197 BCE

The year -196 astronomical counting style corresponds to year 197 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 197 BCE
geocentric

JUNE 197 BCE (-196) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 23 55	5♊57'50	21♋ 2	17°R34	21♋14	7♍56	12♓ 4	6°R50	2°R 2	5♍ 6	13°R 0	19°D24	20♋56	21♎19	n.a.	T 1
W 2	16 27 52	6°54'57	4♌17	17♊ 9	22° 9	8°24	12°11	6♎48	1♐59	5° 6	12♑59	19♋25	20°52	21°26	n.a.	W 2
T 3	16 31 48	7°52'04	17° 8	16°40	23° 4	8°52	12°17	6°47	1°57	5° 6	12°58	19°26	20°49	21°33	n.a.	T 3
F 4	16 35 45	8°49'11	29°38	16° 9	23°58	9°21	12°24	6°46	1°54	5° 7	12°57	19°27	20°46	21°40	n.a.	F 4
S 5	16 39 41	9°46'18	11♍52	15°35	24°51	9°50	12°30	6°45	1°52	5° 7	12°56	19°R28	20°43	21°46	n.a.	S 5
S 6	16 43 38	10°43'24	23°54	14°59	25°44	10°19	12°35	6°45	1°49	5° 8	12°55	19°27	20°40	21°53	n.a.	S 6
M 7	16 47 35	11°40'31	5♎49	14°22	26°37	10°48	12°41	6°44	1°47	5° 8	12°54	19°24	20°37	22° 0	n.a.	M 7
T 8	16 51 31	12°37'37	17°42	13°44	27°29	11°18	12°47	6°43	1°45	5° 9	12°52	19°20	20°33	22° 6	n.a.	T 8
W 9	16 55 28	13°34'43	29°35	13° 6	28°20	11°47	12°52	6°43	1°42	5°10	12°51	19°15	20°30	22°13	n.a.	W 9
T 10	16 59 24	14°31'50	11♏34	12°29	29°10	12°17	12°57	6°42	1°40	5°10	12°50	19° 9	20°27	22°20	n.a.	T 10
F 11	17 3 21	15°28'57	23°39	11°53	29°59	12°48	13° 2	6°42	1°38	5°11	12°49	19° 3	20°24	22°27	n.a.	F 11
S 12	17 7 17	16°26'04	5♐52	11°19	0♌49	13°18	13° 7	6°42	1°35	5°12	12°48	18°58	20°21	22°33	n.a.	S 12
S 13	17 11 14	17°23'12	18°17	10°47	1°37	13°49	13°12	6°42	1°33	5°12	12°47	18°53	20°18	22°40	n.a.	S 13
M14	17 15 10	18°20'20	0♑52	10°18	2°25	14°20	13°17	6°D42	1°31	5°13	12°45	18°51	20°14	22°47	n.a.	M14
T 15	17 19 7	19°17'28	13°39	9°53	3°12	14°51	13°21	6°42	1°28	5°14	12°44	18°D49	20°11	22°54	n.a.	T 15
W16	17 23 4	20°14'37	26°38	9°32	3°57	15°23	13°25	6°42	1°26	5°15	12°43	18°49	20° 8	23° 0	n.a.	W16
T 17	17 27 0	21°11'47	9♒50	9°16	4°43	15°54	13°29	6°42	1°24	5°16	12°42	18°51	20° 5	23° 7	n.a.	T 17
F 18	17 30 57	22° 8'57	23°16	9° 5	5°27	16°26	13°33	6°42	1°22	5°17	12°40	18°52	20° 2	23°14	n.a.	F 18
S 19	17 34 53	23° 6'09	6♓56	8°58	6°10	16°59	13°37	6°43	1°19	5°18	12°39	18°53	19°58	23°20	n.a.	S 19
S 20	17 38 50	24° 3'21	20°51	8°D57	6°52	17°31	13°40	6°43	1°17	5°18	12°38	18°R54	19°55	23°27	n.a.	S 20
M21	17 42 46	25° 0'34	5♈ 0	9° 2	7°34	18° 3	13°43	6°44	1°15	5°19	12°37	18°54	19°52	23°34	n.a.	M21
T 22	17 46 43	25°57'48	19°20	9°12	8°14	18°36	13°47	6°45	1°13	5°20	12°35	18°53	19°49	23°41	n.a.	T 22
W23	17 50 39	26°55'03	3♉50	9°28	8°53	19° 9	13°49	6°46	1°11	5°22	12°34	18°50	19°46	23°47	n.a.	W23
T 24	17 54 36	27°52'19	18°24	9°50	9°31	19°42	13°52	6°47	1° 9	5°23	12°33	18°48	19°43	23°54	n.a.	T 24
F 25	17 58 33	28°49'36	2♊57	10°18	10° 8	20°16	13°55	6°48	1° 7	5°24	12°31	18°45	19°39	24° 1	n.a.	F 25
S 26	18 2 29	29°46'55	17°23	10°52	10°44	20°49	13°57	6°49	1° 5	5°25	12°30	18°43	19°36	24° 8	n.a.	S 26
S 27	18 6 26	0♋44'14	1♋36	11°31	11°19	21°23	13°59	6°50	1° 3	5°26	12°29	18°41	19°33	24°14	n.a.	S 27
M28	18 10 22	1°41'34	15°31	12°17	11°52	21°57	14° 1	6°51	1° 1	5°27	12°27	18°D41	19°30	24°21	n.a.	M28
T 29	18 14 19	2°38'55	29° 5	13° 8	12°24	22°31	14° 3	6°53	0°59	5°28	12°26	18°41	19°27	24°28	n.a.	T 29
W30	18 18 15	3♋36'16	12♌18	14♊ 5	12♌54	23♍ 6	14♓ 5	6♎54	0♐57	5♍30	12♑25	18♋42	19♋24	24♎34	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n33	22n12	0n 9	20n25	2s43	23n56	1n57	9n13	0n34	8s22	1s21	0s16	2n42	20s48	0n 1	11n 8	1n30	29s36	6s33	22n18	22n 4	3s39		n.a.
W 2	21 43	20 42	1 20	20 8	2 58	23 44	1 53	9 1	0 33	8 19	1 22	0 16	2 42	20 47	0 1	11 8	1 30	29 36	6 33	22 18	22 5	3 41		n.a.
T 3	21 53	18 10	2 25	19 51	3 13	23 31	1 49	8 49	0 31	8 17	1 22	0 16	2 41	20 47	0 1	11 8	1 30	29 36	6 34	22 17	22 5	3 44		n.a.
F 4	22 2	14 51	3 21	19 34	3 26	23 17	1 45	8 37	0 30	8 15	1 22	0 16	2 41	20 46	0 1	11 8	1 30	29 36	6 34	22 17	22 6	3 46		n.a.
S 5	22 10	10 59	4 6	19 18	3 39	23 3	1 40	8 24	0 28	8 13	1 22	0 15	2 41	20 46	0 1	11 8	1 30	29 37	6 34	22 17	22 6	3 49		n.a.
S 6	22 19	6 44	4 40	19 2	3 51	22 49	1 36	8 12	0 27	8 11	1 23	0 15	2 40	20 45	0 1	11 7	1 30	29 37	6 34	22 17	22 7	3 51		n.a.
M 7	22 27	2 16	5 2	18 47	4 2	22 34	1 31	7 59	0 25	8 9	1 23	0 15	2 40	20 45	0 1	11 7	1 29	29 37	6 34	22 18	22 7	3 54		n.a.
T 8	22 34	2s15	5 10	18 34	4 11	22 19	1 26	7 47	0 24	8 7	1 23	0 15	2 40	20 44	0 1	11 7	1 29	29 38	6 34	22 18	22 7	3 56		n.a.
W 9	22 42	6 42	5 5	18 21	4 19	22 3	1 21	7 34	0 22	8 5	1 24	0 15	2 40	20 44	0 1	11 7	1 29	29 38	6 35	22 19	22 8	3 59		n.a.
T 10	22 49	10 55	4 47	18 10	4 25	21 48	1 16	7 21	0 21	8 4	1 24	0 15	2 39	20 43	0 1	11 6	1 29	29 38	6 35	22 20	22 8	4 1		n.a.
F 11	22 55	14 46	4 16	18 1	4 30	21 32	1 10	7 8	0 19	8 2	1 24	0 15	2 39	20 43	0 1	11 6	1 29	29 38	6 35	22 21	22 9	4 4		n.a.
S 12	23 1	18 3	3 33	17 53	4 33	21 15	1 4	6 54	0 18	8 0	1 25	0 16	2 39	20 43	0 1	11 6	1 29	29 39	6 35	22 22	22 9	4 6		n.a.
S 13	23 7	20 33	2 39	17 47	4 35	20 58	0 58	6 41	0 16	7 59	1 25	0 16	2 39	20 42	0 1	11 5	1 29	29 39	6 35	22 22	22 10	4 9		n.a.
M14	23 12	22 6	1 37	17 43	4 35	20 42	0 52	6 28	0 15	7 57	1 25	0 16	2 38	20 42	0 1	11 5	1 29	29 39	6 35	22 23	22 10	4 11		n.a.
T 15	23 17	22 32	0 28	17 41	4 34	20 24	0 46	6 14	0 13	7 56	1 26	0 16	2 38	20 41	0 1	11 5	1 29	29 40	6 35	22 23	22 11	4 14		n.a.
W16	23 21	21 46	0s43	17 41	4 31	20 7	0 39	6 1	0 12	7 55	1 26	0 17	2 38	20 41	0 1	11 4	1 29	29 40	6 36	22 23	22 11	4 17		n.a.
T 17	23 25	19 48	1 53	17 42	4 26	19 50	0 32	5 47	0 11	7 53	1 26	0 17	2 38	20 40	0 1	11 4	1 29	29 40	6 36	22 23	22 12	4 19		n.a.
F 18	23 29	16 43	2 58	17 46	4 21	19 32	0 25	5 33	0 9	7 52	1 26	0 17	2 37	20 40	0 1	11 4	1 29	29 40	6 36	22 22	22 12	4 22		n.a.
S 19	23 32	12 41	3 54	17 52	4 14	19 14	0 18	5 19	0 8	7 51	1 27	0 18	2 37	20 39	0 1	11 3	1 29	29 41	6 36	22 22	22 13	4 24		n.a.
S 20	23 35	7 54	4 38	18 0	4 6	18 56	0 10	5 5	0 7	7 50	1 27	0 18	2 37	20 39	0 1	11 3	1 29	29 41	6 36	22 22	22 13	4 27		n.a.
M21	23 37	2 39	5 5	18 10	3 56	18 38	0 2	4 51	0 5	7 49	1 27	0 19	2 36	20 38	0 1	11 3	1 29	29 41	6 36	22 22	22 14	4 29		n.a.
T 22	23 39	2n49	5 14	18 22	3 46	18 19	0s 6	4 37	0 4	7 48	1 28	0 19	2 36	20 38	0 1	11 2	1 29	29 41	6 36	22 22	22 14	4 32		n.a.
W23	23 41	8 11	5 4	18 35	3 35	18 1	0 14	4 23	0 3	7 47	1 28	0 20	2 36	20 38	0 1	11 2	1 29	29 42	6 37	22 23	22 15	4 34		n.a.
T 24	23 42	13 8	4 34	18 50	3 23	17 43	0 23	4 9	0 1	7 46	1 28	0 21	2 36	20 37	0 0	11 1	1 29	29 42	6 37	22 23	22 15	4 37		n.a.
F 25	23 43	17 18	3 46	19 6	3 11	17 24	0 32	3 54	0 0	7 46	1 29	0 21	2 35	20 37	0 0	11 1	1 29	29 42	6 37	22 23	22 16	4 39		n.a.
S 26	23 43	20 23	2 44	19 24	2 58	17 6	0 41	3 40	0s 1	7 45	1 29	0 22	2 35	20 36	0 0	11 0	1 29	29 42	6 37	22 24	22 16	4 42		n.a.
S 27	23 43	22 10	1 33	19 43	2 44	16 47	0 50	3 25	0 2	7 45	1 29	0 23	2 35	20 36	0 0	11 0	1 29	29 43	6 37	22 24	22 16	4 44		n.a.
M28	23 42	22 31	0 17	20 3	2 30	16 29	0 59	3 11	0 4	7 44	1 30	0 23	2 35	20 36	0 0	10 59	1 29	29 43	6 37	22 24	22 17	4 47		n.a.
T 29	23 41	21 31	0n57	20 23	2 16	16 11	1 9	2 56	0 5	7 44	1 30	0 24	2 34	20 35	0 0	10 59	1 29	29 43	6 37	22 24	22 17	4 49		n.a.
W30	23n40	19n20	2n 7	20n45	2s 2	15n52	1s19	2n41	0s 6	7s43	1s30	0s25	2n34	20s35	0n 0	10n58	1n29	29s43	6s37	22n24	22n18	4s52		n.a.

Julian Day Number = 1649620.5, Delta T = 03h31m45s
Ecliptic obliquity = 23°43'05, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°46'57, Lahiri = - 6°39'57 Julian Calendar 1 June 197 BCE == Greg. Calendar 29 May 197 BCE

The year -196 astronomical counting style corresponds to year 197 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 197 BCE
geocentric

JULY 197 BCE (-196) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 22 12	4♋33'38	25♌ 9	15♊ 8	13♌23	23♍40	14♓ 6	6♎56	0°R55	5♍31	12°R23	18♋43	19♋20	24♎41	n.a.	T 1
F 2	18 26 9	5°31'01	7♍40	16°16	13°51	24°15	14° 7	6°57	0♐53	5°32	12♑22	18°44	19°17	24°48	n.a.	F 2
S 3	18 30 5	6°28'25	19°56	17°29	14°17	24°50	14° 8	6°59	0°51	5°34	12°21	18°45	19°14	24°55	n.a.	S 3
S 4	18 34 2	7°25'50	2♎ 0	18°47	14°41	25°25	14° 9	7° 1	0°49	5°35	12°19	18°R45	19°11	25° 1	n.a.	S 4
M 5	18 37 58	8°23'15	13°56	20°11	15° 4	26° 0	14°10	7° 3	0°47	5°36	12°18	18°45	19° 8	25° 8	n.a.	M 5
T 6	18 41 55	9°20'41	25°50	21°39	15°25	26°35	14°10	7° 5	0°46	5°38	12°17	18°45	19° 4	25°15	n.a.	T 6
W 7	18 45 51	10°18'09	7♏45	23°12	15°44	27°11	14°10	7° 7	0°44	5°39	12°15	18°44	19° 1	25°21	n.a.	W 7
T 8	18 49 48	11°15'37	19°45	24°49	16° 1	27°47	14°R10	7°10	0°42	5°40	12°14	18°43	18°58	25°28	n.a.	T 8
F 9	18 53 44	12°13'06	1♐55	26°30	16°17	28°23	14°10	7°12	0°41	5°42	12°12	18°42	18°55	25°35	n.a.	F 9
S 10	18 57 41	13°10'36	14°17	28°15	16°30	28°59	14°10	7°14	0°39	5°43	12°11	18°42	18°52	25°42	n.a.	S 10
S 11	19 1 38	14° 8'08	26°54	0♋ 3	16°42	29°35	14° 9	7°17	0°38	5°45	12°10	18°41	18°49	25°48	n.a.	S 11
M12	19 5 34	15° 5'40	9♑46	1°54	16°51	0♎11	14° 8	7°19	0°36	5°47	12° 8	18°41	18°45	25°55	n.a.	M12
T 13	19 9 31	16° 3'14	22°53	3°48	16°58	0°48	14° 7	7°22	0°35	5°48	12° 7	18°D41	18°42	26° 2	n.a.	T 13
W14	19 13 27	17° 0'50	6♒16	5°44	17° 3	1°25	14° 6	7°25	0°33	5°50	12° 6	18°41	18°39	26° 9	n.a.	W14
T 15	19 17 24	17°58'26	19°53	7°41	17° 5	2° 2	14° 5	7°28	0°32	5°51	12° 4	18°41	18°36	26°15	n.a.	T 15
F 16	19 21 20	18°56'05	3♓42	9°41	17°R 6	2°39	14° 3	7°31	0°30	5°53	12° 3	18°R41	18°33	26°22	n.a.	F 16
S 17	19 25 17	19°53'44	17°41	11°41	17° 4	3°16	14° 2	7°34	0°29	5°55	12° 2	18°41	18°30	26°29	n.a.	S 17
S 18	19 29 13	20°51'26	1♈48	13°42	16°59	3°53	14° 0	7°37	0°28	5°56	12° 0	18°41	18°26	26°35	n.a.	S 18
M19	19 33 10	21°49'09	15°59	15°43	16°53	4°31	13°57	7°40	0°27	5°58	11°59	18°D41	18°23	26°42	n.a.	M19
T 20	19 37 7	22°46'54	0♉13	17°44	16°44	5° 8	13°55	7°43	0°25	6° 0	11°57	18°41	18°20	26°49	n.a.	T 20
W21	19 41 3	23°44'41	14°28	19°46	16°32	5°46	13°53	7°47	0°24	6° 1	11°56	18°41	18°17	26°56	n.a.	W21
T 22	19 45 0	24°42'30	28°39	21°47	16°19	6°24	13°50	7°50	0°23	6° 3	11°55	18°41	18°14	27° 2	n.a.	T 22
F 23	19 48 56	25°40'21	12♊45	23°47	16° 3	7° 2	13°47	7°54	0°22	6° 5	11°53	18°42	18°10	27° 9	n.a.	F 23
S 24	19 52 53	26°38'13	26°43	25°47	15°44	7°40	13°44	7°58	0°21	6° 7	11°52	18°43	18° 7	27°16	n.a.	S 24
S 25	19 56 49	27°36'08	10♋30	27°45	15°24	8°18	13°41	8° 1	0°20	6° 9	11°51	18°43	18° 4	27°23	n.a.	S 25
M26	20 0 46	28°34'04	24° 4	29°43	15° 1	8°57	13°37	8° 5	0°19	6°11	11°50	18°R43	18° 1	27°29	n.a.	M26
T 27	20 4 42	29°32'02	7♌22	1♌40	14°36	9°35	13°33	8° 9	0°18	6°12	11°48	18°43	17°58	27°36	n.a.	T 27
W28	20 8 39	0♌30'01	20°23	3°36	14° 9	10°14	13°29	8°13	0°18	6°14	11°47	18°42	17°55	27°43	n.a.	W28
T 29	20 12 36	1°28'02	3♍ 8	5°31	13°41	10°53	13°25	8°17	0°17	6°16	11°46	18°40	17°51	27°49	n.a.	T 29
F 30	20 16 32	2°26'04	15°37	7°24	13°11	11°32	13°21	8°21	0°16	6°18	11°44	18°38	17°48	27°56	n.a.	F 30
S 31	20 20 29	3♌24'08	27♍52	9♌17	12♌39	12♎11	13♓17	8♎25	0♐15	6♍20	11♑43	18♋36	17♋45	28♎ 3	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	23n38	16n14	3n 8	21n 6	1s47	15n34	1s29	2n26	0s 7	7s43	1s31	0s26	2n34	20s34	0n 0	10n58	1n29	29s44	6s37	22n24	22n18	4s55			n.a.
F 2	23 36	12 28	3 59	21 28	1 33	15 16	1 40	2 11	0 8	7 43	1 31	0 27	2 34	20 34	0 0	10 57	1 29	29 44	6 38	22 23	22 19	4 57			n.a.
S 3	23 33	8 16	4 37	21 50	1 18	14 58	1 51	1 56	0 9	7 43	1 31	0 28	2 33	20 34	0 0	10 57	1 28	29 44	6 38	22 23	22 19	5 0			n.a.
S 4	23 30	3 49	5 3	22 11	1 4	14 41	2 2	1 41	0 11	7 43	1 32	0 29	2 33	20 33	0 0	10 56	1 28	29 44	6 38	22 23	22 20	5 2			n.a.
M 5	23 27	0s43	5 15	22 32	0 49	14 23	2 13	1 26	0 12	7 43	1 32	0 30	2 33	20 33	0 0	10 56	1 28	29 45	6 38	22 23	22 20	5 5			n.a.
T 6	23 23	5 13	5 14	22 52	0 35	14 6	2 24	1 10	0 13	7 43	1 32	0 31	2 32	20 33	0 0	10 55	1 28	29 45	6 38	22 23	22 21	5 7			n.a.
W 7	23 19	9 32	4 59	23 11	0 22	13 49	2 36	0 55	0 14	7 43	1 33	0 32	2 32	20 32	0 0	10 55	1 28	29 45	6 38	22 23	22 21	5 10			n.a.
T 8	23 14	13 32	4 31	23 28	0 9	13 33	2 48	0 40	0 15	7 44	1 33	0 33	2 32	20 32	0 0	10 54	1 28	29 45	6 38	22 24	22 21	5 12			n.a.
F 9	23 9	17 1	3 51	23 44	0n 4	13 16	3 0	0 24	0 16	7 44	1 33	0 34	2 32	20 31	0 0	10 54	1 28	29 45	6 38	22 24	22 22	5 15			n.a.
S 10	23 3	19 49	2 59	23 59	0 16	13 1	3 13	0 9	0 17	7 44	1 34	0 35	2 31	20 31	0 0	10 53	1 28	29 46	6 38	22 24	22 22	5 17			n.a.
S 11	22 57	21 43	1 58	24 11	0 28	12 45	3 25	0s 7	0 18	7 45	1 34	0 37	2 31	20 31	0 0	10 52	1 28	29 46	6 38	22 24	22 23	5 20			n.a.
M12	22 51	22 32	0 49	24 21	0 38	12 30	3 38	0 22	0 20	7 45	1 34	0 38	2 31	20 31	0 0	10 52	1 28	29 46	6 38	22 24	22 23	5 22			n.a.
T 13	22 44	22 8	0s23	24 28	0 48	12 16	3 51	0 38	0 21	7 46	1 35	0 39	2 31	20 30	0 0	10 51	1 28	29 46	6 38	22 24	22 24	5 25			n.a.
W14	22 37	20 28	1 36	24 33	0 58	12 2	4 4	0 54	0 22	7 47	1 35	0 41	2 30	20 30	0 0	10 51	1 28	29 46	6 39	22 24	22 24	5 27			n.a.
T 15	22 30	17 37	2 44	24 36	1 6	11 49	4 17	1 10	0 23	7 48	1 35	0 42	2 30	20 30	0 0	10 50	1 28	29 47	6 39	22 24	22 25	5 30			n.a.
F 16	22 22	13 45	3 44	24 35	1 14	11 36	4 30	1 25	0 24	7 49	1 36	0 43	2 30	20 29	0 0	10 49	1 28	29 47	6 39	22 24	22 25	5 33			n.a.
S 17	22 13	9 5	4 32	24 32	1 21	11 24	4 44	1 41	0 25	7 50	1 36	0 45	2 30	20 29	0 0	10 49	1 28	29 47	6 39	22 24	22 25	5 35			n.a.
S 18	22 5	3 54	5 3	24 27	1 27	11 12	4 57	1 57	0 26	7 51	1 36	0 46	2 29	20 29	0 0	10 48	1 28	29 47	6 39	22 24	22 26	5 38			n.a.
M19	21 56	1n30	5 16	24 18	1 32	11 2	5 11	2 13	0 27	7 52	1 36	0 48	2 29	20 29	0 0	10 47	1 28	29 47	6 39	22 24	22 26	5 40			n.a.
T 20	21 46	6 50	5 10	24 7	1 36	10 52	5 24	2 29	0 28	7 53	1 37	0 49	2 29	20 28	0 0	10 47	1 28	29 47	6 39	22 24	22 27	5 43			n.a.
W21	21 36	11 49	4 45	23 54	1 40	10 42	5 37	2 45	0 29	7 54	1 37	0 51	2 29	20 28	0 0	10 46	1 28	29 48	6 39	22 24	22 27	5 45			n.a.
T 22	21 26	16 8	4 3	23 38	1 43	10 34	5 50	3 1	0 30	7 56	1 37	0 53	2 28	20 28	0 0	10 45	1 28	29 48	6 39	22 24	22 28	5 48			n.a.
F 23	21 15	19 31	3 6	23 19	1 45	10 26	6 3	3 17	0 31	7 57	1 38	0 54	2 28	20 28	0 0	10 45	1 28	29 48	6 39	22 24	22 28	5 50			n.a.
S 24	21 4	21 42	1 59	22 59	1 46	10 19	6 16	3 33	0 32	7 58	1 38	0 56	2 28	20 28	0 0	10 44	1 28	29 48	6 39	22 24	22 29	5 53			n.a.
S 25	20 53	22 33	0 45	22 36	1 47	10 13	6 28	3 50	0 32	8 0	1 38	0 58	2 28	20 27	0 0	10 43	1 28	29 48	6 39	22 24	22 29	5 55			n.a.
M26	20 41	22 2	0n30	22 11	1 47	10 8	6 40	4 6	0 33	8 2	1 39	0 59	2 27	20 27	0 0	10 43	1 28	29 48	6 39	22 24	22 29	5 58			n.a.
T 27	20 29	20 17	1 41	21 45	1 47	10 4	6 52	4 22	0 34	8 3	1 39	1 1	2 27	20 27	0 0	10 42	1 28	29 48	6 39	22 24	22 30	6 0			n.a.
W28	20 17	17 29	2 46	21 17	1 45	10 1	7 4	4 38	0 35	8 5	1 39	1 3	2 27	20 27	0 0	10 41	1 28	29 49	6 39	22 24	22 30	6 3			n.a.
T 29	20 4	13 54	3 41	20 47	1 44	9 58	7 14	4 55	0 36	8 7	1 39	1 5	2 27	20 27	0 0	10 40	1 28	29 49	6 39	22 24	22 31	6 6			n.a.
F 30	19 51	9 48	4 25	20 16	1 42	9 57	7 25	5 11	0 37	8 9	1 40	1 6	2 27	20 26	0 0	10 40	1 28	29 49	6 39	22 24	22 31	6 8			n.a.
S 31	19n37	5n22	4n55	19n44	1n39	9n57	7s34	5s27	0s38	8s11	1s40	1s 8	2n26	20s26	0n 0	10n39	1n28	29s49	6s39	22n25	22n32	6s11			n.a.

Julian Day Number = 1649650.5, Delta T = 03h31m44s
Ecliptic obliquity = 23°43'05, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°46'53, Lahiri = - 6°39'53 Julian Calendar 1 July 197 BCE == Greg. Calendar 28 June 197 BCE

The year -196 astronomical counting style corresponds to year 197 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 197 BCE
geocentric

AUGUST 197 BCE (-196) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 24 25	4♌22'14	9♎55	11♌ 8	12°R 5	12♎50	13°R12	8♎29	0°R15	6♍22	11°R42	18°R34	17♋42	28♎10	n.a.	S 1
M 2	20 28 22	5°20'21	21°51	12°57	11♌31	13°30	13♓ 8	8°34	0♐14	6°24	11♑41	18♋33	17°39	28°16	n.a.	M 2
T 3	20 32 18	6°18'29	3♏44	14°46	10°56	14° 9	13° 3	8°38	0°14	6°26	11°39	18°D32	17°35	28°23	n.a.	T 3
W 4	20 36 15	7°16'40	15°39	16°33	10°20	14°49	12°58	8°43	0°13	6°28	11°38	18°33	17°32	28°30	n.a.	W 4
T 5	20 40 11	8°14'52	27°39	18°19	9°43	15°29	12°52	8°47	0°13	6°30	11°37	18°33	17°29	28°36	n.a.	T 5
F 6	20 44 8	9°13'05	9♐50	20° 4	9° 6	16° 9	12°47	8°52	0°12	6°32	11°36	18°35	17°26	28°43	n.a.	F 6
S 7	20 48 5	10°11'20	22°16	21°48	8°29	16°49	12°41	8°56	0°12	6°34	11°35	18°36	17°23	28°50	n.a.	S 7
S 8	20 52 1	11° 9'37	5♑ 0	23°30	7°52	17°29	12°36	9° 1	0°12	6°36	11°34	18°38	17°20	28°57	n.a.	S 8
M 9	20 55 58	12° 7'56	18° 4	25°12	7°16	18° 9	12°30	9° 6	0°12	6°38	11°32	18°R38	17°16	29° 3	n.a.	M 9
T 10	20 59 54	13° 6'16	1♒30	26°52	6°40	18°49	12°24	9°11	0°11	6°40	11°31	18°38	17°13	29°10	n.a.	T 10
W11	21 3 51	14° 4'39	15°17	28°31	6° 5	19°30	12°18	9°16	0°11	6°42	11°30	18°36	17°10	29°17	n.a.	W11
T 12	21 7 47	15° 3'03	29°21	0♍ 9	5°32	20°10	12°11	9°21	0°11	6°44	11°29	18°33	17° 7	29°24	n.a.	T 12
F 13	21 11 44	16° 1'29	13♓38	1°46	5° 0	20°51	12° 5	9°26	0°D11	6°46	11°28	18°29	17° 4	29°30	n.a.	F 13
S 14	21 15 40	16°59'58	28° 4	3°21	4°29	21°32	11°58	9°31	0°11	6°49	11°27	18°25	17° 1	29°37	n.a.	S 14
S 15	21 19 37	17°58'28	12♈32	4°56	4° 0	22°13	11°52	9°36	0°11	6°51	11°26	18°22	16°57	29°44	n.a.	S 15
M16	21 23 33	18°57'01	26°58	6°30	3°33	22°54	11°45	9°42	0°11	6°53	11°25	18°19	16°54	29°50	n.a.	M16
T 17	21 27 30	19°55'36	11♉17	8° 2	3° 7	23°35	11°38	9°47	0°11	6°55	11°24	18°17	16°51	29°57	n.a.	T 17
W18	21 31 27	20°54'14	25°25	9°34	2°44	24°16	11°31	9°52	0°12	6°57	11°23	18°D17	16°48	0♏ 4	n.a.	W18
T 19	21 35 23	21°52'54	9♊23	11° 4	2°23	24°57	11°24	9°58	0°12	6°59	11°22	18°18	16°45	0°11	n.a.	T 19
F 20	21 39 20	22°51'36	23° 8	12°33	2° 5	25°39	11°17	10° 3	0°12	7° 2	11°21	18°19	16°41	0°17	n.a.	F 20
S 21	21 43 16	23°50'21	6♋42	14° 2	1°49	26°20	11° 9	10° 9	0°13	7° 4	11°20	18°21	16°38	0°24	n.a.	S 21
S 22	21 47 13	24°49'08	20° 3	15°29	1°35	27° 2	11° 2	10°15	0°13	7° 6	11°19	18°R21	16°35	0°31	n.a.	S 22
M23	21 51 9	25°47'57	3♌12	16°55	1°23	27°44	10°54	10°20	0°14	7° 8	11°18	18°20	16°32	0°37	n.a.	M23
T 24	21 55 6	26°46'49	16° 9	18°20	1°14	28°26	10°47	10°26	0°14	7°10	11°17	18°17	16°29	0°44	n.a.	T 24
W25	21 59 2	27°45'42	28°54	19°44	1° 7	29° 8	10°39	10°32	0°15	7°13	11°16	18°12	16°26	0°51	n.a.	W25
T 26	22 2 59	28°44'38	11♍26	21° 6	1° 3	29°50	10°31	10°38	0°15	7°15	11°16	18° 6	16°22	0°58	n.a.	T 26
F 27	22 6 56	29°43'36	23°47	22°28	1°D 1	0♏32	10°24	10°43	0°16	7°17	11°15	17°58	16°19	1° 4	n.a.	F 27
S 28	22 10 52	0♍42'35	5♎57	23°48	1° 2	1°14	10°16	10°49	0°17	7°19	11°14	17°50	16°16	1°11	n.a.	S 28
S 29	22 14 49	1°41'37	17°58	25° 7	1° 5	1°56	10° 8	10°55	0°18	7°21	11°13	17°43	16°13	1°18	n.a.	S 29
M30	22 18 45	2°40'40	29°52	26°24	1°10	2°39	10° 0	11° 1	0°18	7°24	11°12	17°36	16°10	1°24	n.a.	M30
T 31	22 22 42	3♍39'46	11♏44	27♍41	1♌17	3♏22	9♓52	11♎ 8	0♐19	7♍26	11♑12	17♋32	16♋ 7	1♏31	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	19n23	0n48	5n12	19n10	1n36	9n57	7s43	5s43	0s39	8s13	1s40	1s10	2n26	20s26	0n 0	10n38	1n28	29s49	6s39	22n25	22n32	6s13			n.a.
M 2	19 9	3s45	5 15	18 36	1 32	9 58	7 52	6 0	0 40	8 15	1 40	1 12	2 26	20 26	0 0	10 37	1 28	29 49	6 39	22 25	22 32	6 16			n.a.
T 3	18 55	8 8	5 4	18 0	1 28	10 0	7 59	6 16	0 40	8 17	1 41	1 14	2 26	20 26	0 0	10 37	1 28	29 49	6 39	22 25	22 33	6 18			n.a.
W 4	18 40	12 14	4 41	17 23	1 24	10 4	8 6	6 32	0 41	8 19	1 41	1 16	2 25	20 26	0 0	10 36	1 28	29 49	6 39	22 25	22 33	6 21			n.a.
T 5	18 25	15 53	4 5	16 46	1 19	10 7	8 12	6 49	0 42	8 22	1 41	1 18	2 25	20 26	0 0	10 35	1 28	29 50	6 39	22 25	22 34	6 23			n.a.
F 6	18 9	18 56	3 18	16 8	1 14	10 12	8 17	7 5	0 43	8 24	1 41	1 20	2 25	20 26	0 0	10 34	1 28	29 50	6 39	22 25	22 34	6 26			n.a.
S 7	17 54	21 10	2 20	15 29	1 9	10 17	8 21	7 21	0 44	8 26	1 42	1 22	2 25	20 26	0 0	10 34	1 28	29 50	6 39	22 25	22 34	6 28			n.a.
S 8	17 38	22 23	1 14	14 50	1 3	10 24	8 24	7 37	0 45	8 29	1 42	1 24	2 25	20 26	0 0	10 33	1 28	29 50	6 39	22 24	22 35	6 31			n.a.
M 9	17 21	22 26	0 3	14 10	0 57	10 30	8 26	7 54	0 45	8 31	1 42	1 26	2 24	20 26	0 0	10 32	1 28	29 50	6 39	22 24	22 35	6 33			n.a.
T 10	17 5	21 12	1s10	13 30	0 51	10 38	8 28	8 10	0 46	8 34	1 42	1 28	2 24	20 26	0 0	10 31	1 28	29 50	6 39	22 24	22 36	6 36			n.a.
W11	16 48	18 41	2 21	12 50	0 45	10 46	8 28	8 26	0 47	8 36	1 43	1 31	2 24	20 26	0 0	10 30	1 28	29 50	6 39	22 25	22 36	6 39			n.a.
T 12	16 31	15 2	3 25	12 9	0 38	10 54	8 28	8 42	0 48	8 39	1 43	1 33	2 24	20 26	0 0	10 30	1 28	29 50	6 39	22 25	22 36	6 41			n.a.
F 13	16 13	10 27	4 17	11 28	0 32	11 3	8 26	8 59	0 48	8 41	1 43	1 35	2 24	20 26	0s 0	10 29	1 28	29 50	6 39	22 26	22 37	6 44			n.a.
S 14	15 55	5 15	4 53	10 47	0 25	11 12	8 24	9 15	0 49	8 44	1 43	1 37	2 23	20 26	0 0	10 28	1 28	29 50	6 39	22 26	22 37	6 46			n.a.
S 15	15 37	0n15	5 11	10 5	0 18	11 21	8 21	9 31	0 50	8 47	1 43	1 39	2 23	20 26	0 0	10 27	1 28	29 50	6 39	22 27	22 38	6 49			n.a.
M16	15 19	5 43	5 9	9 24	0 11	11 31	8 18	9 47	0 51	8 50	1 44	1 42	2 23	20 26	0 0	10 26	1 28	29 50	6 39	22 27	22 38	6 51			n.a.
T 17	15 0	10 50	4 48	8 42	0 3	11 41	8 13	10 3	0 51	8 53	1 44	1 44	2 23	20 26	0 0	10 26	1 28	29 50	6 39	22 27	22 39	6 54			n.a.
W18	14 42	15 18	4 9	8 1	0s 4	11 51	8 8	10 19	0 52	8 55	1 44	1 46	2 23	20 26	0 0	10 25	1 28	29 50	6 39	22 27	22 39	6 56			n.a.
T 19	14 23	18 53	3 17	7 19	0 12	12 1	8 2	10 35	0 53	8 58	1 44	1 49	2 23	20 26	0 0	10 24	1 28	29 51	6 39	22 27	22 39	6 59			n.a.
F 20	14 3	21 19	2 13	6 38	0 19	12 12	7 56	10 51	0 53	9 1	1 44	1 51	2 22	20 26	0 0	10 23	1 28	29 51	6 39	22 27	22 40	7 1			n.a.
S 21	13 44	22 30	1 3	5 57	0 27	12 22	7 49	11 7	0 54	9 4	1 44	1 53	2 22	20 26	0 0	10 22	1 28	29 51	6 38	22 27	22 40	7 4			n.a.
S 22	13 24	22 21	0n 9	5 16	0 34	12 32	7 42	11 23	0 55	9 7	1 45	1 56	2 22	20 26	0 0	10 21	1 28	29 51	6 38	22 27	22 41	7 6			n.a.
M23	13 4	20 58	1 20	4 35	0 42	12 42	7 34	11 39	0 55	9 10	1 45	1 58	2 22	20 26	0 0	10 21	1 28	29 51	6 38	22 27	22 41	7 9			n.a.
T 24	12 44	18 29	2 25	3 54	0 50	12 52	7 25	11 55	0 56	9 13	1 45	2 1	2 22	20 26	0 0	10 20	1 28	29 51	6 38	22 27	22 41	7 12			n.a.
W25	12 23	15 8	3 22	3 14	0 58	13 2	7 17	12 10	0 57	9 16	1 45	2 3	2 22	20 26	0 0	10 19	1 28	29 51	6 38	22 28	22 42	7 14			n.a.
T 26	12 3	11 10	4 8	2 34	1 6	13 12	7 8	12 26	0 57	9 19	1 45	2 5	2 21	20 27	0 0	10 18	1 28	29 51	6 38	22 29	22 42	7 17			n.a.
F 27	11 42	6 47	4 41	1 54	1 13	13 21	6 59	12 42	0 58	9 22	1 45	2 8	2 21	20 27	0 0	10 17	1 28	29 51	6 38	22 30	22 42	7 19			n.a.
S 28	11 21	2 13	5 2	1 15	1 21	13 30	6 49	12 57	0 59	9 26	1 45	2 10	2 21	20 27	0 0	10 16	1 28	29 51	6 38	22 31	22 43	7 22			n.a.
S 29	11 0	2s23	5 8	0 36	1 29	13 39	6 39	13 13	0 59	9 29	1 45	2 13	2 21	20 27	0 0	10 16	1 28	29 51	6 38	22 32	22 43	7 24			n.a.
M30	10 38	6 52	5 1	0s 2	1 36	13 48	6 29	13 28	1 0	9 32	1 45	2 15	2 21	20 27	0 0	10 15	1 28	29 51	6 38	22 33	22 44	7 27			n.a.
T 31	10n17	11s 4	4n41	0s39	1s44	13n56	6s19	13s43	1s 0	9s35	1s45	2s18	2n21	20s27	0s 0	10n14	1n28	29s51	6s38	22n33	22n44	7s29			n.a.

Julian Day Number = 1649681.5, Delta T = 03h31m43s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°46'49, Lahiri = - 6°39'49 Julian Calendar 1 Aug. 197 BCE == Greg. Calendar 29 July 197 BCE

The year -196 astronomical counting style corresponds to year 197 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 197 BCE
geocentric

SEPTEMBER 197 BCE (-196) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 26 38	4♍38'53	23♏36	28♍55	1♌27	4♏ 4	9°R44	11♎14	0♐20	7♍28	11°R11	17°R29	16♋ 3	1♏38	n.a.	W 1
T 2	22 30 35	5°38'03	5♐33	0♎ 8	1°38	4°47	9♓36	11°20	0°21	7°30	11♑10	17°D28	16° 0	1°45	n.a.	T 2
F 3	22 34 31	6°37'14	17°41	1°20	1°52	5°30	9°28	11°26	0°22	7°33	11°10	17♋29	15°57	1°51	n.a.	F 3
S 4	22 38 28	7°36'27	0♑ 5	2°30	2° 8	6°13	9°20	11°32	0°23	7°35	11° 9	17°30	15°54	1°58	n.a.	S 4
S 5	22 42 25	8°35'43	12°49	3°37	2°26	6°56	9°12	11°39	0°25	7°37	11° 8	17°R31	15°51	2° 5	n.a.	S 5
M 6	22 46 21	9°35'00	25°57	4°43	2°45	7°39	9° 4	11°45	0°26	7°39	11° 8	17°31	15°47	2°12	n.a.	M 6
T 7	22 50 18	10°34'19	9♒32	5°47	3° 7	8°22	8°56	11°51	0°27	7°42	11° 7	17°29	15°44	2°18	n.a.	T 7
W 8	22 54 14	11°33'40	23°33	6°48	3°30	9° 5	8°48	11°58	0°28	7°44	11° 7	17°24	15°41	2°25	n.a.	W 8
T 9	22 58 11	12°33'02	7♓59	7°46	3°56	9°49	8°39	12° 4	0°30	7°46	11° 6	17°18	15°38	2°32	n.a.	T 9
F 10	23 2 7	13°32'27	22°42	8°42	4°22	10°32	8°31	12°11	0°31	7°48	11° 6	17° 9	15°35	2°38	n.a.	F 10
S 11	23 6 4	14°31'55	7♈35	9°34	4°51	11°16	8°23	12°17	0°33	7°50	11° 5	17° 0	15°32	2°45	n.a.	S 11
S 12	23 10 0	15°31'24	22°31	10°23	5°21	11°59	8°16	12°24	0°34	7°53	11° 5	16°52	15°28	2°52	n.a.	S 12
M13	23 13 57	16°30'56	7♉18	11° 9	5°53	12°43	8° 8	12°30	0°36	7°55	11° 4	16°45	15°25	2°59	n.a.	M13
T 14	23 17 53	17°30'30	21°52	11°50	6°26	13°27	8° 0	12°37	0°37	7°57	11° 4	16°40	15°22	3° 5	n.a.	T 14
W15	23 21 50	18°30'07	6♊ 8	12°27	7° 0	14°10	7°52	12°44	0°39	7°59	11° 4	16°37	15°19	3°12	n.a.	W15
T 16	23 25 47	19°29'46	20° 3	12°58	7°36	14°54	7°44	12°50	0°40	8° 2	11° 3	16°D36	15°16	3°19	n.a.	T 16
F 17	23 29 43	20°29'27	3♋39	13°25	8°13	15°38	7°36	12°57	0°42	8° 4	11° 3	16°37	15°12	3°25	n.a.	F 17
S 18	23 33 40	21°29'11	16°58	13°45	8°52	16°22	7°29	13° 4	0°44	8° 6	11° 3	16°R37	15° 9	3°32	n.a.	S 18
S 19	23 37 36	22°28'58	29°59	13°59	9°31	17° 7	7°21	13°11	0°46	8° 8	11° 2	16°36	15° 6	3°39	n.a.	S 19
M20	23 41 33	23°28'46	12♌49	14°R 6	10°12	17°51	7°14	13°17	0°48	8°10	11° 2	16°33	15° 3	3°46	n.a.	M20
T 21	23 45 29	24°28'37	25°26	14° 5	10°54	18°35	7° 6	13°24	0°50	8°12	11° 2	16°28	15° 0	3°52	n.a.	T 21
W22	23 49 26	25°28'30	7♍54	13°56	11°37	19°19	6°59	13°31	0°52	8°15	11° 2	16°19	14°57	3°59	n.a.	W22
T 23	23 53 22	26°28'25	20°12	13°38	12°21	20° 4	6°52	13°38	0°54	8°17	11° 2	16° 8	14°53	4° 6	n.a.	T 23
F 24	23 57 19	27°28'22	2♎23	13°12	13° 7	20°48	6°45	13°45	0°56	8°19	11° 2	15°54	14°50	4°12	n.a.	F 24
S 25	0 1 16	28°28'21	14°26	12°37	13°53	21°33	6°38	13°52	0°58	8°21	11° 2	15°41	14°47	4°19	n.a.	S 25
S 26	0 5 12	29°28'22	26°22	11°52	14°40	22°18	6°31	13°59	1° 0	8°23	11° 1	15°27	14°44	4°26	n.a.	S 26
M27	0 9 9	0♎28'25	8♏14	10°59	15°28	23° 2	6°24	14° 6	1° 2	8°25	11° 1	15°16	14°41	4°33	n.a.	M27
T 28	0 13 5	1°28'30	20° 3	9°58	16°16	23°47	6°18	14°13	1° 4	8°27	11°D 1	15° 6	14°38	4°39	n.a.	T 28
W29	0 17 2	2°28'37	1♐54	8°50	17° 6	24°32	6°11	14°20	1° 6	8°29	11° 1	15° 0	14°34	4°46	n.a.	W29
T 30	0 20 58	3♎28'45	13♐48	7♎37	17♌56	25♏17	6♓ 5	14♎27	1♐ 9	8♍32	11♑ 1	14♋56	14♋31	4♏53	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	9n55	14s52	4n 9	1s16	1s52	14n 4	6s 9	13s59	1s 1	9s38	1s45	2s20	2n21	20s28	0s 0	10n13	1n28	29s51	6s38	22n34	22n44	7s32		n.a.
T 2	9 33	18 6	3 26	1 52	1 59	14 11	5 59	14 14	1 2	9 41	1 46	2 23	2 20	20 28	0 0	10 12	1 28	29 51	6 38	22 34	22 45	7 34		n.a.
F 3	9 11	20 36	2 34	2 28	2 6	14 18	5 49	14 29	1 2	9 44	1 46	2 26	2 20	20 28	0 0	10 11	1 28	29 51	6 38	22 34	22 45	7 37		n.a.
S 4	8 49	22 11	1 32	3 2	2 13	14 25	5 38	14 44	1 3	9 47	1 46	2 28	2 20	20 28	0 0	10 11	1 28	29 51	6 37	22 33	22 46	7 39		n.a.
S 5	8 27	22 40	0 25	3 36	2 20	14 31	5 28	14 59	1 3	9 51	1 46	2 31	2 20	20 29	0 0	10 10	1 28	29 51	6 37	22 33	22 46	7 42		n.a.
M 6	8 4	21 57	0s45	4 8	2 27	14 37	5 18	15 14	1 4	9 54	1 46	2 33	2 20	20 29	0 0	10 9	1 28	29 51	6 37	22 33	22 46	7 45		n.a.
T 7	7 41	19 55	1 55	4 40	2 33	14 42	5 7	15 28	1 4	9 57	1 46	2 36	2 20	20 29	0 0	10 8	1 28	29 51	6 37	22 34	22 47	7 47		n.a.
W 8	7 19	16 40	3 1	5 10	2 40	14 47	4 57	15 43	1 5	10 0	1 46	2 39	2 20	20 29	0 0	10 7	1 28	29 50	6 37	22 34	22 47	7 50		n.a.
T 9	6 56	12 19	3 56	5 39	2 46	14 52	4 46	15 57	1 5	10 3	1 46	2 41	2 19	20 30	0 0	10 6	1 28	29 50	6 37	22 35	22 47	7 52		n.a.
F 10	6 33	7 10	4 37	6 6	2 51	14 55	4 36	16 12	1 6	10 6	1 46	2 44	2 19	20 30	0 0	10 6	1 28	29 50	6 37	22 36	22 48	7 55		n.a.
S 11	6 10	1 33	5 0	6 32	2 56	14 59	4 26	16 26	1 6	10 9	1 46	2 47	2 19	20 30	0 0	10 5	1 28	29 50	6 37	22 37	22 48	7 57		n.a.
S 12	5 46	4n11	5 3	6 56	3 1	15 1	4 15	16 40	1 7	10 12	1 46	2 49	2 19	20 31	0 0	10 4	1 28	29 50	6 37	22 38	22 49	8 0		n.a.
M13	5 23	9 37	4 45	7 18	3 5	15 4	4 5	16 54	1 7	10 15	1 46	2 52	2 19	20 31	0 0	10 3	1 28	29 50	6 37	22 39	22 49	8 2		n.a.
T 14	4 59	14 26	4 9	7 38	3 9	15 5	3 55	17 8	1 8	10 18	1 46	2 55	2 19	20 31	0 0	10 2	1 28	29 50	6 37	22 40	22 49	8 5		n.a.
W15	4 36	18 20	3 18	7 55	3 12	15 6	3 45	17 22	1 8	10 21	1 45	2 57	2 19	20 32	0 0	10 1	1 28	29 50	6 36	22 40	22 50	8 7		n.a.
T 16	4 12	21 4	2 17	8 10	3 15	15 7	3 35	17 35	1 9	10 24	1 45	3 0	2 19	20 32	0 0	10 1	1 28	29 50	6 36	22 40	22 50	8 10		n.a.
F 17	3 49	22 32	1 9	8 21	3 16	15 7	3 26	17 49	1 9	10 26	1 45	3 3	2 19	20 32	0 0	10 0	1 28	29 50	6 36	22 40	22 50	8 12		n.a.
S 18	3 25	22 39	0n 2	8 30	3 17	15 6	3 16	18 2	1 9	10 29	1 45	3 6	2 19	20 33	0 0	9 59	1 28	29 50	6 36	22 40	22 51	8 15		n.a.
S 19	3 1	21 32	1 11	8 35	3 17	15 5	3 6	18 15	1 10	10 32	1 45	3 8	2 18	20 33	0 0	9 58	1 28	29 50	6 36	22 40	22 51	8 17		n.a.
M20	2 37	19 18	2 14	8 37	3 15	15 3	2 57	18 28	1 10	10 35	1 45	3 11	2 18	20 34	0 0	9 57	1 28	29 50	6 36	22 41	22 51	8 20		n.a.
T 21	2 13	16 10	3 11	8 34	3 12	15 1	2 48	18 41	1 11	10 37	1 45	3 14	2 18	20 34	0 0	9 57	1 28	29 50	6 36	22 41	22 52	8 22		n.a.
W22	1 49	12 21	3 57	8 26	3 8	14 58	2 38	18 54	1 11	10 40	1 45	3 17	2 18	20 34	0 0	9 56	1 28	29 50	6 36	22 43	22 52	8 25		n.a.
T 23	1 25	8 4	4 31	8 14	3 3	14 54	2 29	19 7	1 11	10 43	1 45	3 19	2 18	20 35	0 0	9 55	1 28	29 49	6 36	22 44	22 53	8 28		n.a.
F 24	1 1	3 30	4 52	7 57	2 55	14 50	2 20	19 19	1 12	10 45	1 45	3 22	2 18	20 35	0 0	9 54	1 28	29 49	6 36	22 45	22 53	8 30		n.a.
S 25	0 37	1s 8	5 1	7 35	2 46	14 45	2 11	19 31	1 12	10 48	1 44	3 25	2 18	20 36	0 0	9 53	1 28	29 49	6 35	22 47	22 53	8 33		n.a.
S 26	0 13	5 42	4 55	7 7	2 35	14 40	2 3	19 43	1 13	10 50	1 44	3 28	2 18	20 36	0 0	9 53	1 28	29 49	6 35	22 49	22 54	8 35		n.a.
M27	0s11	10 2	4 37	6 35	2 23	14 34	1 54	19 55	1 13	10 53	1 44	3 30	2 18	20 37	0 0	9 52	1 28	29 49	6 35	22 50	22 54	8 38		n.a.
T 28	0 36	14 0	4 7	5 57	2 8	14 28	1 46	20 7	1 13	10 55	1 44	3 33	2 18	20 37	0 0	9 51	1 28	29 49	6 35	22 51	22 54	8 40		n.a.
W29	1 0	17 24	3 27	5 15	1 52	14 21	1 38	20 19	1 14	10 57	1 44	3 36	2 18	20 38	0 0	9 50	1 28	29 49	6 35	22 52	22 55	8 43		n.a.
T 30	1s24	20s 8	2n37	4s29	1s34	14n13	1s29	20s30	1s14	10s59	1s44	3s39	2n18	20s38	0s 0	9n50	1n28	29s49	6s35	22n52	22n55	8s45		n.a.

Julian Day Number = 1649712.5, Delta T = 03h31m42s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°46'45, Lahiri = - 6°39'44 Julian Calendar 1 Sept. 197 BCE == Greg. Calendar 29 Aug. 197 BCE

The year -196 astronomical counting style corresponds to year 197 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 197 BCE
geocentric

OCTOBER 197 BCE (-196) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 24 55	4♎28'56	25♐53	6°R20	18♌48	26♏ 2	5°R59	14♎34	1♐11	8♍34	11♑ 2	14°R54	14♋28	4♏59	n.a.	F 1
S 2	0 28 51	5°29'07	8♑12	5♎ 2	19°40	26°47	5♓53	14°41	1°13	8°36	11° 2	14♋54	14°25	5° 6	n.a.	S 2
S 3	0 32 48	6°29'21	20°50	3°45	20°32	27°32	5°47	14°48	1°16	8°38	11° 2	14°54	14°22	5°13	n.a.	S 3
M 4	0 36 44	7°29'36	3♒54	2°32	21°26	28°17	5°41	14°55	1°18	8°40	11° 2	14°53	14°18	5°20	n.a.	M 4
T 5	0 40 41	8°29'52	17°26	1°25	22°20	29° 3	5°35	15° 2	1°21	8°42	11° 2	14°50	14°15	5°26	n.a.	T 5
W 6	0 44 38	9°30'11	1♓28	0°26	23°14	29°48	5°30	15° 9	1°23	8°44	11° 2	14°44	14°12	5°33	n.a.	W 6
T 7	0 48 34	10°30'30	16° 0	29♍37	24°10	0♐33	5°25	15°16	1°26	8°46	11° 3	14°36	14° 9	5°40	n.a.	T 7
F 8	0 52 31	11°30'52	0♈55	28°58	25° 5	1°19	5°19	15°23	1°29	8°48	11° 3	14°25	14° 6	5°46	n.a.	F 8
S 9	0 56 27	12°31'15	16° 6	28°31	26° 2	2° 4	5°15	15°30	1°31	8°50	11° 3	14°13	14° 3	5°53	n.a.	S 9
S 10	1 0 24	13°31'40	1♉23	28°15	26°59	2°50	5°10	15°37	1°34	8°52	11° 4	14° 2	13°59	6° 0	n.a.	S 10
M11	1 4 20	14°32'07	16°33	28°D12	27°57	3°35	5° 5	15°44	1°37	8°53	11° 4	13°52	13°56	6° 7	n.a.	M11
T 12	1 8 17	15°32'35	1♊27	28°19	28°55	4°21	5° 1	15°51	1°39	8°55	11° 4	13°45	13°53	6°13	n.a.	T 12
W13	1 12 13	16°33'06	15°59	28°37	29°54	5° 7	4°57	15°59	1°42	8°57	11° 5	13°41	13°50	6°20	n.a.	W13
T 14	1 16 10	17°33'39	0♋ 4	29° 4	0♍53	5°52	4°52	16° 6	1°45	8°59	11° 5	13°39	13°47	6°27	n.a.	T 14
F 15	1 20 7	18°34'14	13°44	29°40	1°53	6°38	4°49	16°13	1°48	9° 1	11° 6	13°39	13°44	6°33	n.a.	F 15
S 16	1 24 3	19°34'50	26°59	0♎24	2°53	7°24	4°45	16°20	1°51	9° 3	11° 6	13°38	13°40	6°40	n.a.	S 16
S 17	1 28 0	20°35'29	9♌54	1°16	3°53	8°10	4°41	16°27	1°54	9° 5	11° 7	13°37	13°37	6°47	n.a.	S 17
M18	1 31 56	21°36'09	22°32	2°13	4°54	8°56	4°38	16°34	1°57	9° 6	11° 7	13°34	13°34	6°54	n.a.	M18
T 19	1 35 53	22°36'51	4♍56	3°16	5°56	9°42	4°35	16°41	2° 0	9° 8	11° 8	13°28	13°31	7° 0	n.a.	T 19
W20	1 39 49	23°37'34	17°11	4°23	6°58	10°28	4°32	16°48	2° 3	9°10	11° 8	13°19	13°28	7° 7	n.a.	W20
T 21	1 43 46	24°38'20	29°17	5°35	8° 0	11°14	4°30	16°55	2° 6	9°11	11° 9	13° 7	13°24	7°14	n.a.	T 21
F 22	1 47 42	25°39'07	11♎18	6°50	9° 3	12° 0	4°27	17° 2	2° 9	9°13	11°10	12°53	13°21	7°20	n.a.	F 22
S 23	1 51 39	26°39'55	23°14	8° 8	10° 6	12°46	4°25	17° 9	2°12	9°15	11°10	12°38	13°18	7°27	n.a.	S 23
S 24	1 55 36	27°40'45	5♏ 6	9°28	11° 9	13°32	4°23	17°16	2°15	9°16	11°11	12°24	13°15	7°34	n.a.	S 24
M25	1 59 32	28°41'36	16°57	10°51	12°13	14°19	4°21	17°23	2°18	9°18	11°12	12°11	13°12	7°41	n.a.	M25
T 26	2 3 29	29°42'28	28°47	12°15	13°17	15° 5	4°19	17°30	2°21	9°20	11°13	12° 1	13° 9	7°47	n.a.	T 26
W27	2 7 25	0♏43'22	10♐39	13°41	14°21	15°51	4°18	17°37	2°24	9°21	11°13	11°54	13° 5	7°54	n.a.	W27
T 28	2 11 22	1°44'17	22°36	15° 8	15°26	16°38	4°16	17°44	2°28	9°23	11°14	11°49	13° 2	8° 1	n.a.	T 28
F 29	2 15 18	2°45'13	4♑40	16°36	16°31	17°24	4°15	17°51	2°31	9°24	11°15	11°48	12°59	8° 7	n.a.	F 29
S 30	2 19 15	3°46'10	16°58	18° 6	17°36	18°10	4°15	17°58	2°34	9°26	11°16	11°D47	12°56	8°14	n.a.	S 30
S 31	2 23 11	4♏47'07	29♑32	19♎35	18♍42	18♐57	4♓14	18♎ 5	2♐37	9♍27	11♑17	11°R48	12♋53	8♏21	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	1s48	22s 0	1n39	3s41	1s15	14n 5	1s21	20s41	1s14	11s 2	1s44	3s42	2n18	20s39	0s 0	9n49	1n28	29s49	6s35	22n52	22n55	8s48		n.a.
S 2	2 12	22 52	0 35	2 51	0 54	13 56	1 13	20 52	1 14	11 4	1 43	3 44	2 18	20 39	0 0	9 48	1 28	29 48	6 35	22 52	22 56	8 50		n.a.
S 3	2 36	22 36	0s31	2 2	0 34	13 47	1 6	21 3	1 15	11 6	1 43	3 47	2 18	20 40	0 0	9 47	1 28	29 48	6 35	22 52	22 56	8 53		n.a.
M 4	3 0	21 6	1 39	1 13	0 13	13 37	0 58	21 14	1 15	11 8	1 43	3 50	2 18	20 40	0 0	9 47	1 28	29 48	6 34	22 53	22 56	8 55		n.a.
T 5	3 24	18 22	2 43	0 28	0n 7	13 26	0 51	21 24	1 15	11 10	1 43	3 53	2 18	20 41	0 0	9 46	1 28	29 48	6 34	22 53	22 57	8 58		n.a.
W 6	3 48	14 29	3 39	0n14	0 27	13 15	0 43	21 34	1 15	11 11	1 43	3 55	2 17	20 41	0 0	9 45	1 28	29 48	6 34	22 54	22 57	9 0		n.a.
T 7	4 12	9 38	4 24	0 51	0 45	13 3	0 36	21 44	1 16	11 13	1 42	3 58	2 17	20 42	0 1	9 44	1 28	29 48	6 34	22 55	22 57	9 3		n.a.
F 8	4 36	4 5	4 52	1 22	1 2	12 51	0 29	21 54	1 16	11 15	1 42	4 1	2 17	20 42	0 1	9 44	1 28	29 48	6 34	22 56	22 58	9 5		n.a.
S 9	5 0	1n48	5 0	1 46	1 17	12 38	0 22	22 4	1 16	11 16	1 42	4 4	2 17	20 43	0 1	9 43	1 28	29 48	6 34	22 57	22 58	9 8		n.a.
S 10	5 24	7 37	4 47	2 5	1 31	12 25	0 16	22 13	1 16	11 18	1 42	4 7	2 17	20 43	0 1	9 42	1 28	29 47	6 34	22 58	22 58	9 10		n.a.
M11	5 48	12 56	4 13	2 17	1 42	12 11	0 9	22 22	1 17	11 20	1 41	4 9	2 17	20 44	0 1	9 42	1 28	29 47	6 34	22 59	22 59	9 13		n.a.
T 12	6 11	17 23	3 23	2 23	1 52	11 57	0 2	22 31	1 17	11 21	1 41	4 12	2 17	20 45	0 1	9 41	1 28	29 47	6 34	23 0	22 59	9 15		n.a.
W13	6 35	20 39	2 20	2 24	2 0	11 42	0n 4	22 40	1 17	11 22	1 41	4 15	2 17	20 45	0 1	9 40	1 28	29 47	6 33	23 0	22 59	9 18		n.a.
T 14	6 58	22 32	1 11	2 19	2 7	11 27	0 10	22 48	1 17	11 24	1 41	4 18	2 17	20 46	0 1	9 40	1 29	29 47	6 33	23 1	23 0	9 20		n.a.
F 15	7 22	23 1	0n 0	2 9	2 12	11 11	0 16	22 56	1 17	11 25	1 40	4 20	2 17	20 46	0 1	9 39	1 29	29 47	6 33	23 1	23 0	9 23		n.a.
S 16	7 45	22 9	1 10	1 54	2 15	10 54	0 22	23 4	1 18	11 26	1 40	4 23	2 17	20 47	0 1	9 38	1 29	29 47	6 33	23 1	23 0	9 26		n.a.
S 17	8 8	20 7	2 14	1 36	2 18	10 37	0 28	23 12	1 18	11 27	1 40	4 26	2 17	20 47	0 1	9 38	1 29	29 46	6 33	23 1	23 1	9 28		n.a.
M18	8 31	17 9	3 10	1 14	2 19	10 20	0 33	23 20	1 18	11 28	1 40	4 29	2 17	20 48	0 1	9 37	1 29	29 46	6 33	23 1	23 1	9 31		n.a.
T 19	8 54	13 27	3 56	0 49	2 19	10 2	0 39	23 27	1 18	11 29	1 39	4 31	2 17	20 49	0 1	9 36	1 29	29 46	6 33	23 2	23 1	9 33		n.a.
W20	9 17	9 15	4 30	0 21	2 18	9 44	0 44	23 34	1 18	11 30	1 39	4 34	2 17	20 49	0 1	9 36	1 29	29 46	6 33	23 3	23 2	9 36		n.a.
T 21	9 39	4 44	4 51	0s10	2 16	9 25	0 49	23 41	1 18	11 30	1 39	4 37	2 17	20 50	0 1	9 35	1 29	29 46	6 33	23 4	23 2	9 38		n.a.
F 22	10 2	0 4	5 0	0 42	2 14	9 6	0 54	23 47	1 18	11 31	1 39	4 39	2 17	20 51	0 1	9 34	1 29	29 46	6 32	23 5	23 2	9 41		n.a.
S 23	10 24	4s34	4 55	1 16	2 11	8 47	0 59	23 53	1 18	11 32	1 38	4 42	2 17	20 51	0 1	9 34	1 29	29 45	6 32	23 7	23 3	9 43		n.a.
S 24	10 46	9 1	4 37	1 51	2 7	8 27	1 4	23 59	1 19	11 32	1 38	4 45	2 17	20 52	0 1	9 33	1 29	29 45	6 32	23 8	23 3	9 46		n.a.
M25	11 8	13 8	4 7	2 27	2 3	8 6	1 8	24 5	1 19	11 33	1 38	4 48	2 17	20 52	0 1	9 33	1 29	29 45	6 32	23 9	23 3	9 48		n.a.
T 26	11 30	16 45	3 27	3 5	1 58	7 46	1 13	24 11	1 19	11 33	1 38	4 50	2 17	20 53	0 1	9 32	1 29	29 45	6 32	23 10	23 4	9 51		n.a.
W27	11 52	19 43	2 37	3 43	1 53	7 24	1 17	24 16	1 19	11 33	1 37	4 53	2 17	20 54	0 1	9 32	1 29	29 45	6 32	23 11	23 4	9 53		n.a.
T 28	12 13	21 51	1 40	4 22	1 48	7 3	1 21	24 21	1 19	11 33	1 37	4 55	2 18	20 54	0 1	9 31	1 29	29 45	6 32	23 11	23 4	9 56		n.a.
F 29	12 34	23 0	0 38	5 2	1 43	6 41	1 25	24 25	1 19	11 34	1 37	4 58	2 18	20 55	0 1	9 31	1 29	29 44	6 32	23 11	23 5	9 58		n.a.
S 30	12 55	23 5	0s28	5 41	1 37	6 19	1 29	24 30	1 19	11 34	1 36	5 1	2 18	20 56	0 1	9 30	1 29	29 44	6 32	23 11	23 5	10 1		n.a.
S 31	13s16	22s 0	1s33	6s21	1n31	5n56	1n32	24s34	1s19	11s34	1s36	5s 3	2n18	20s56	0s 1	9n29	1n29	29s44	6s32	23n11	23n 5	10s 3		n.a.

Julian Day Number = 1649742.5, Delta T = 03h31m41s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°46'41, Lahiri = - 6°39'40 Julian Calendar 1 Oct. 197 BCE == Greg. Calendar 28 Sept. 197 BCE

The year -196 astronomical counting style corresponds to year 197 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 197 BCE
geocentric

NOVEMBER 197 BCE (-196) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 27 8	5♏48'06	12♒29	21♎ 6	19♍48	19♐43	4°R13	18♎12	2♐41	9♍29	11♑18	11°R48	12♋49	8♏27	n.a.	M 1
T 2	2 31 5	6°49'05	25°52	22°37	20°54	20°30	4°D13	18°19	2°44	9°30	11°19	11♋46	12°46	8°34	n.a.	T 2
W 3	2 35 1	7°50'05	9♓44	24° 8	22° 0	21°16	4♓13	18°26	2°47	9°31	11°20	11°42	12°43	8°41	n.a.	W 3
T 4	2 38 58	8°51'06	24° 6	25°40	23° 7	22° 3	4°14	18°33	2°51	9°33	11°21	11°36	12°40	8°48	n.a.	T 4
F 5	2 42 54	9°52'08	8♈55	27°12	24°14	22°50	4°14	18°39	2°54	9°34	11°22	11°27	12°37	8°54	n.a.	F 5
S 6	2 46 51	10°53'10	24° 5	28°44	25°21	23°36	4°15	18°46	2°58	9°35	11°23	11°18	12°34	9° 1	n.a.	S 6
S 7	2 50 47	11°54'13	9♉25	0♏16	26°28	24°23	4°15	18°53	3° 1	9°37	11°24	11° 8	12°30	9° 8	n.a.	S 7
M 8	2 54 44	12°55'17	24°45	1°49	27°36	25°10	4°16	19° 0	3° 5	9°38	11°25	11° 0	12°27	9°14	n.a.	M 8
T 9	2 58 40	13°56'23	9♊53	3°21	28°43	25°56	4°18	19° 6	3° 8	9°39	11°26	10°54	12°24	9°21	n.a.	T 9
W10	3 2 37	14°57'29	24°40	4°54	29°51	26°43	4°19	19°13	3°11	9°40	11°27	10°51	12°21	9°28	n.a.	W10
T 11	3 6 34	15°58'36	9♋ 0	6°27	1♎ 0	27°30	4°21	19°20	3°15	9°41	11°28	10°D49	12°18	9°35	n.a.	T 11
F 12	3 10 30	16°59'44	22°51	8° 0	2° 8	28°17	4°23	19°26	3°18	9°43	11°29	10°50	12°15	9°41	n.a.	F 12
S 13	3 14 27	18° 0'53	6♌15	9°33	3°17	29° 3	4°25	19°33	3°22	9°44	11°31	10°51	12°11	9°48	n.a.	S 13
S 14	3 18 23	19° 2'03	19°13	11° 7	4°25	29°50	4°27	19°39	3°26	9°45	11°32	10°R52	12° 8	9°55	n.a.	S 14
M15	3 22 20	20° 3'14	1♍51	12°40	5°34	0♑37	4°29	19°46	3°29	9°46	11°33	10°51	12° 5	10° 1	n.a.	M15
T 16	3 26 16	21° 4'26	14°12	14°14	6°44	1°24	4°32	19°52	3°33	9°47	11°34	10°48	12° 2	10° 8	n.a.	T 16
W17	3 30 13	22° 5'39	26°20	15°47	7°53	2°11	4°35	19°58	3°36	9°48	11°36	10°43	11°59	10°15	n.a.	W17
T 18	3 34 9	23° 6'52	8♎20	17°21	9° 2	2°58	4°38	20° 5	3°40	9°49	11°37	10°35	11°55	10°22	n.a.	T 18
F 19	3 38 6	24° 8'06	20°14	18°55	10°12	3°45	4°41	20°11	3°43	9°50	11°38	10°27	11°52	10°28	n.a.	F 19
S 20	3 42 3	25° 9'21	2♏ 5	20°29	11°22	4°32	4°45	20°17	3°47	9°50	11°40	10°17	11°49	10°35	n.a.	S 20
S 21	3 45 59	26°10'36	13°56	22° 3	12°32	5°19	4°48	20°24	3°51	9°51	11°41	10° 8	11°46	10°42	n.a.	S 21
M22	3 49 56	27°11'51	25°48	23°38	13°42	6° 6	4°52	20°30	3°54	9°52	11°42	10° 0	11°43	10°48	n.a.	M22
T 23	3 53 52	28°13'07	7♐43	25°12	14°52	6°53	4°56	20°36	3°58	9°53	11°44	9°53	11°40	10°55	n.a.	T 23
W24	3 57 49	29°14'24	19°41	26°47	16° 2	7°40	5° 1	20°42	4° 1	9°54	11°45	9°49	11°36	11° 2	n.a.	W24
T 25	4 1 45	0♐15'40	1♑46	28°22	17°13	8°27	5° 5	20°48	4° 5	9°54	11°47	9°47	11°33	11° 8	n.a.	T 25
F 26	4 5 42	1°16'57	13°59	29°57	18°23	9°14	5°10	20°54	4° 9	9°55	11°48	9°D47	11°30	11°15	n.a.	F 26
S 27	4 9 39	2°18'13	26°23	1♐33	19°34	10° 1	5°15	21° 0	4°12	9°56	11°50	9°48	11°27	11°22	n.a.	S 27
S 28	4 13 35	3°19'29	9♒ 2	3° 9	20°45	10°48	5°20	21° 6	4°16	9°56	11°51	9°49	11°24	11°29	n.a.	S 28
M29	4 17 32	4°20'45	21°58	4°45	21°56	11°35	5°25	21°12	4°19	9°57	11°53	9°51	11°21	11°35	n.a.	M29
T 30	4 21 28	5♐22'01	5♓16	6♐21	23♎ 7	12♑22	5♓30	21♎17	4♐23	9♍57	11♑54	9°R52	11♋17	11♏42	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13s37	19s45	2s36	7s 2	1n24	5n33	1n36	24s38	1s19	11s33	1s36	5s 6	2n18	20s57	0s 1	9n29	1n29	29s44	6s31	23n11	23n 6	10s 6		n.a.
T 2	13 57	16 22	3 32	7 42	1 18	5 10	1 39	24 41	1 19	11 33	1 36	5 9	2 18	20 58	0 1	9 28	1 29	29 44	6 31	23 11	23 6	10 8		n.a.
W 3	14 17	11 59	4 18	8 22	1 11	4 47	1 43	24 44	1 19	11 33	1 35	5 11	2 18	20 58	0 1	9 28	1 29	29 43	6 31	23 12	23 6	10 11		n.a.
T 4	14 37	6 48	4 50	9 2	1 5	4 23	1 46	24 47	1 19	11 33	1 35	5 14	2 18	20 59	0 1	9 28	1 29	29 43	6 31	23 12	23 6	10 13		n.a.
F 5	14 57	1 4	5 4	9 42	0 58	3 59	1 49	24 50	1 19	11 32	1 35	5 16	2 18	21 0	0 1	9 27	1 30	29 43	6 31	23 13	23 7	10 16		n.a.
S 6	15 16	4n51	4 56	10 21	0 51	3 35	1 52	24 53	1 19	11 32	1 34	5 19	2 18	21 0	0 1	9 27	1 30	29 43	6 31	23 14	23 7	10 18		n.a.
S 7	15 35	10 34	4 28	11 1	0 44	3 10	1 54	24 55	1 19	11 31	1 34	5 21	2 18	21 1	0 1	9 26	1 30	29 43	6 31	23 15	23 7	10 21		n.a.
M 8	15 54	15 37	3 40	11 40	0 37	2 45	1 57	24 57	1 19	11 30	1 34	5 24	2 18	21 2	0 1	9 26	1 30	29 43	6 31	23 15	23 8	10 23		n.a.
T 9	16 12	19 36	2 38	12 18	0 30	2 20	1 59	24 58	1 19	11 30	1 33	5 26	2 18	21 2	0 1	9 25	1 30	29 42	6 31	23 16	23 8	10 26		n.a.
W10	16 31	22 11	1 26	12 56	0 23	1 55	2 2	24 59	1 19	11 29	1 33	5 29	2 18	21 3	0 1	9 25	1 30	29 42	6 31	23 16	23 8	10 28		n.a.
T 11	16 49	23 15	0 10	13 34	0 17	1 30	2 4	25 0	1 19	11 28	1 33	5 31	2 18	21 4	0 1	9 25	1 30	29 42	6 31	23 16	23 9	10 31		n.a.
F 12	17 6	22 49	1n 4	14 11	0 10	1 4	2 6	25 1	1 19	11 27	1 33	5 34	2 18	21 5	0 1	9 24	1 30	29 42	6 31	23 16	23 9	10 33		n.a.
S 13	17 24	21 4	2 12	14 48	0 3	0 38	2 8	25 1	1 19	11 26	1 32	5 36	2 19	21 5	0 1	9 24	1 30	29 42	6 30	23 16	23 9	10 36		n.a.
S 14	17 41	18 15	3 11	15 24	0s 4	0 12	2 10	25 2	1 18	11 25	1 32	5 38	2 19	21 6	0 1	9 23	1 30	29 41	6 30	23 16	23 9	10 38		n.a.
M15	17 58	14 39	3 59	15 59	0 10	0s14	2 11	25 1	1 18	11 24	1 32	5 41	2 19	21 7	0 1	9 23	1 30	29 41	6 30	23 16	23 10	10 41		n.a.
T 16	18 14	10 31	4 35	16 34	0 17	0 40	2 13	25 1	1 18	11 22	1 31	5 43	2 19	21 7	0 1	9 23	1 30	29 41	6 30	23 16	23 10	10 43		n.a.
W17	18 30	6 1	4 58	17 8	0 24	1 6	2 14	25 0	1 18	11 21	1 31	5 45	2 19	21 8	0 1	9 22	1 30	29 41	6 30	23 17	23 10	10 46		n.a.
T 18	18 46	1 21	5 7	17 41	0 30	1 33	2 16	24 59	1 18	11 20	1 31	5 48	2 19	21 9	0 1	9 22	1 30	29 41	6 30	23 17	23 11	10 48		n.a.
F 19	19 1	3s20	5 3	18 14	0 36	1 59	2 17	24 58	1 18	11 18	1 30	5 50	2 19	21 9	0 1	9 22	1 30	29 41	6 30	23 18	23 11	10 51		n.a.
S 20	19 17	7 52	4 46	18 46	0 42	2 26	2 18	24 56	1 18	11 17	1 30	5 52	2 19	21 10	0 1	9 22	1 30	29 40	6 30	23 19	23 11	10 53		n.a.
S 21	19 31	12 8	4 16	19 16	0 49	2 53	2 19	24 54	1 18	11 15	1 30	5 55	2 19	21 11	0 1	9 21	1 30	29 40	6 30	23 20	23 11	10 56		n.a.
M22	19 46	15 57	3 35	19 47	0 54	3 20	2 19	24 52	1 17	11 13	1 30	5 57	2 19	21 11	0 1	9 21	1 30	29 40	6 30	23 20	23 12	10 58		n.a.
T 23	20 0	19 8	2 45	20 16	1 0	3 46	2 20	24 49	1 17	11 11	1 29	5 59	2 20	21 12	0 1	9 21	1 31	29 40	6 30	23 21	23 12	11 0		n.a.
W24	20 13	21 32	1 47	20 44	1 6	4 13	2 21	24 47	1 17	11 10	1 29	6 1	2 20	21 13	0 1	9 21	1 31	29 40	6 30	23 21	23 12	11 3		n.a.
T 25	20 27	22 59	0 43	21 11	1 11	4 40	2 21	24 44	1 17	11 8	1 29	6 3	2 20	21 14	0 1	9 20	1 31	29 39	6 30	23 21	23 13	11 5		n.a.
F 26	20 39	23 21	0s23	21 37	1 17	5 7	2 21	24 40	1 17	11 6	1 28	6 5	2 20	21 14	0 1	9 20	1 31	29 39	6 30	23 21	23 13	11 8		n.a.
S 27	20 52	22 35	1 29	22 3	1 22	5 34	2 22	24 37	1 17	11 4	1 28	6 8	2 20	21 15	0 1	9 20	1 31	29 39	6 30	23 21	23 13	11 10		n.a.
S 28	21 4	20 40	2 33	22 27	1 26	6 0	2 22	24 33	1 16	11 2	1 28	6 10	2 20	21 16	0 1	9 20	1 31	29 39	6 30	23 21	23 13	11 13		n.a.
M29	21 16	17 39	3 30	22 50	1 31	6 27	2 22	24 28	1 16	10 59	1 28	6 12	2 20	21 16	0 1	9 20	1 31	29 39	6 30	23 21	23 14	11 15		n.a.
T 30	21s27	13s40	4s18	23s11	1s35	6s54	2n22	24s24	1s16	10s57	1s27	6s14	2n20	21s17	0s 1	9n20	1n31	29s39	6s30	23n21	23n14	11s18		n.a.

Julian Day Number = 1649773.5, Delta T = 03h31m41s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°46'36, Lahiri = - 6°39'36 Julian Calendar 1 Nov. 197 BCE == Greg. Calendar 29 Oct. 197 BCE

The year -196 astronomical counting style corresponds to year 197 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 197 BCE
geocentric

DECEMBER 197 BCE (-196) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 25 25	6♐23'17	18♓57	7♐58	24♎18	13♑ 9	5♓36	21♎23	4♐27	9♍58	11♑56	9°R51	11♋14	11♏49	n.a.	W 1
T 2	4 29 21	7°24'32	3♈ 4	9°35	25°29	13°56	5°41	21°29	4°30	9°58	11°57	9♋49	11° 11	11°55	n.a.	T 2
F 3	4 33 18	8°25'46	17°34	11°12	26°40	14°43	5°47	21°34	4°34	9°59	11°59	9°45	11° 8	12° 2	n.a.	F 3
S 4	4 37 14	9°27'01	2♉25	12°50	27°52	15°30	5°53	21°40	4°38	9°59	12° 1	9°41	11° 5	12° 9	n.a.	S 4
S 5	4 41 11	10°28'15	17°30	14°28	29° 3	16°17	5°59	21°45	4°41	9°59	12° 2	9°36	11° 1	12°16	n.a.	S 5
M 6	4 45 8	11°29'29	2♊38	16° 7	0♏15	17° 4	6° 6	21°51	4°45	10° 0	12° 4	9°32	10°58	12°22	n.a.	M 6
T 7	4 49 4	12°30'42	17°42	17°45	1°27	17°51	6°12	21°56	4°48	10° 0	12° 5	9°30	10°55	12°29	n.a.	T 7
W 8	4 53 1	13°31'56	2♋31	19°24	2°38	18°38	6°19	22° 1	4°52	10° 0	12° 7	9°D28	10°52	12°36	n.a.	W 8
T 9	4 56 57	14°33'09	16°59	21° 4	3°50	19°25	6°26	22° 7	4°56	10° 1	12° 9	9°28	10°49	12°42	n.a.	T 9
F 10	5 0 54	15°34'22	1♌ 0	22°44	5° 2	20°12	6°33	22°12	4°59	10° 1	12°10	9°29	10°46	12°49	n.a.	F 10
S 11	5 4 50	16°35'34	14°35	24°24	6°14	20°59	6°40	22°17	5° 3	10° 1	12°12	9°31	10°42	12°56	n.a.	S 11
S 12	5 8 47	17°36'47	27°42	26° 4	7°26	21°46	6°48	22°22	5° 6	10° 1	12°14	9°32	10°39	13° 2	n.a.	S 12
M13	5 12 43	18°37'59	10♍27	27°44	8°39	22°33	6°55	22°27	5°10	10° 1	12°15	9°33	10°36	13° 9	n.a.	M13
T 14	5 16 40	19°39'11	22°51	29°25	9°51	23°20	7° 3	22°32	5°13	10° 1	12°17	9°R34	10°33	13°16	n.a.	T 14
W15	5 20 37	20°40'23	5♎ 0	1♑ 6	11° 3	24° 7	7°11	22°37	5°17	10°R 1	12°19	9°33	10°30	13°23	n.a.	W15
T 16	5 24 33	21°41'34	16°59	2°46	12°15	24°54	7°19	22°41	5°20	10° 1	12°21	9°31	10°27	13°29	n.a.	T 16
F 17	5 28 30	22°42'45	28°51	4°27	13°28	25°41	7°27	22°46	5°24	10° 1	12°22	9°29	10°23	13°36	n.a.	F 17
S 18	5 32 26	23°43'56	10♏41	6° 7	14°40	26°28	7°35	22°51	5°27	10° 1	12°24	9°26	10°20	13°43	n.a.	S 18
S 19	5 36 23	24°45'06	22°32	7°47	15°53	27°15	7°44	22°55	5°31	10° 1	12°26	9°24	10°17	13°49	n.a.	S 19
M20	5 40 19	25°46'15	4♐27	9°26	17° 6	28° 2	7°52	23° 0	5°34	10° 1	12°28	9°22	10°14	13°56	n.a.	M20
T 21	5 44 16	26°47'24	16°28	11° 5	18°18	28°48	8° 1	23° 4	5°38	10° 1	12°29	9°20	10°11	14° 3	n.a.	T 21
W22	5 48 13	27°48'32	28°37	12°42	19°31	29°35	8°10	23° 8	5°41	10° 0	12°31	9°19	10° 7	14° 9	n.a.	W22
T 23	5 52 9	28°49'39	10♑55	14°18	20°44	0♒22	8°19	23°12	5°45	10° 0	12°33	9°D19	10° 4	14°16	n.a.	T 23
F 24	5 56 6	29°50'46	23°24	15°52	21°56	1° 9	8°28	23°17	5°48	10° 0	12°35	9°19	10° 1	14°23	n.a.	F 24
S 25	6 0 2	0♑51'51	6♒ 5	17°24	23° 9	1°56	8°37	23°21	5°52	10° 0	12°37	9°20	9°58	14°30	n.a.	S 25
S 26	6 3 59	1°52'55	19° 0	18°54	24°22	2°43	8°47	23°25	5°55	9°59	12°38	9°21	9°55	14°36	n.a.	S 26
M27	6 7 55	2°53'58	2♓ 8	20°20	25°35	3°30	8°56	23°28	5°58	9°59	12°40	9°21	9°52	14°43	n.a.	M27
T 28	6 11 52	3°54'59	15°32	21°42	26°48	4°16	9° 6	23°32	6° 2	9°58	12°42	9°22	9°48	14°50	n.a.	T 28
W29	6 15 48	4°55'59	29°13	23° 0	28° 1	5° 3	9°16	23°36	6° 5	9°58	12°44	9°R22	9°45	14°56	n.a.	W29
T 30	6 19 45	5°56'58	13♈10	24°13	29°14	5°50	9°26	23°40	6° 8	9°57	12°46	9°22	9°42	15° 3	n.a.	T 30
F 31	6 23 42	6♑57'55	27♈23	25♑20	0♐27	6♒37	9♓36	23♎43	6♐11	9♍57	12♑48	9♋22	9♋39	15♏10	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	21 s38	8 s53	4 s52	23 s32	1 s40	7 s20	2n21	24 s19	1 s16	10 s55	1 s27	6 s16	2n21	21 s18	0 s 1	9n19	1n31	29 s38	6 s29	23n21	23n14	11 s20			n.a.
T 2	21 48	3 30	5 10	23 51	1 44	7 47	2 21	24 14	1 16	10 52	1 27	6 18	2 21	21 18	0 1	9 19	1 31	29 38	6 29	23 21	23 14	11 23			n.a.
F 3	21 58	2n13	5 10	24 9	1 47	8 13	2 21	24 9	1 15	10 50	1 26	6 20	2 21	21 19	0 1	9 19	1 31	29 38	6 29	23 21	23 15	11 25			n.a.
S 4	22 8	7 56	4 48	24 26	1 51	8 40	2 20	24 3	1 15	10 47	1 26	6 22	2 21	21 20	0 1	9 19	1 31	29 38	6 29	23 22	23 15	11 28			n.a.
S 5	22 17	13 18	4 7	24 41	1 54	9 6	2 19	23 57	1 15	10 45	1 26	6 24	2 21	21 20	0 1	9 19	1 31	29 38	6 29	23 22	23 15	11 30			n.a.
M 6	22 25	17 51	3 8	24 55	1 56	9 32	2 19	23 51	1 15	10 42	1 26	6 26	2 21	21 21	0 1	9 19	1 31	29 37	6 29	23 22	23 16	11 33			n.a.
T 7	22 34	21 12	1 57	25 7	1 59	9 58	2 18	23 44	1 14	10 39	1 25	6 27	2 22	21 22	0 1	9 19	1 31	29 37	6 29	23 22	23 16	11 35			n.a.
W 8	22 41	23 4	0 38	25 18	2 1	10 23	2 17	23 38	1 14	10 37	1 25	6 29	2 22	21 22	0 1	9 19	1 31	29 37	6 29	23 23	23 16	11 38			n.a.
T 9	22 49	23 18	0n41	25 27	2 3	10 49	2 16	23 31	1 14	10 34	1 25	6 31	2 22	21 23	0 1	9 19	1 31	29 37	6 29	23 23	23 16	11 40			n.a.
F 10	22 56	22 3	1 56	25 35	2 4	11 14	2 15	23 23	1 13	10 31	1 25	6 33	2 22	21 24	0 1	9 19	1 32	29 37	6 29	23 22	23 17	11 42			n.a.
S 11	23 2	19 32	3 1	25 40	2 5	11 40	2 13	23 16	1 13	10 28	1 24	6 35	2 22	21 24	0 1	9 19	1 32	29 37	6 29	23 22	23 17	11 45			n.a.
S 12	23 8	16 5	3 55	25 45	2 5	12 4	2 12	23 8	1 13	10 25	1 24	6 36	2 22	21 25	0 1	9 19	1 32	29 36	6 29	23 22	23 17	11 47			n.a.
M13	23 14	11 59	4 36	25 47	2 5	12 29	2 11	23 0	1 13	10 22	1 24	6 38	2 22	21 26	0 1	9 19	1 32	29 36	6 29	23 22	23 17	11 50			n.a.
T 14	23 19	7 29	5 2	25 48	2 5	12 54	2 9	22 52	1 12	10 19	1 23	6 40	2 23	21 26	0 1	9 19	1 32	29 36	6 29	23 22	23 18	11 52			n.a.
W15	23 23	2 48	5 14	25 46	2 4	13 18	2 8	22 43	1 12	10 16	1 23	6 41	2 23	21 27	0 1	9 19	1 32	29 36	6 29	23 22	23 18	11 55			n.a.
T 16	23 27	1 s56	5 13	25 43	2 2	13 42	2 6	22 34	1 12	10 12	1 23	6 43	2 23	21 28	0 1	9 19	1 32	29 36	6 29	23 22	23 18	11 57			n.a.
F 17	23 31	6 33	4 58	25 38	2 0	14 5	2 4	22 25	1 11	10 9	1 23	6 45	2 23	21 28	0 1	9 19	1 32	29 36	6 29	23 22	23 18	12 0			n.a.
S 18	23 34	10 56	4 30	25 31	1 57	14 29	2 3	22 16	1 11	10 6	1 22	6 46	2 23	21 29	0 1	9 19	1 32	29 35	6 29	23 23	23 19	12 2			n.a.
S 19	23 37	14 54	3 51	25 22	1 53	14 52	2 1	22 6	1 11	10 2	1 22	6 48	2 24	21 30	0 1	9 19	1 32	29 35	6 29	23 23	23 19	12 5			n.a.
M20	23 39	18 19	3 1	25 12	1 49	15 14	1 59	21 57	1 10	9 59	1 22	6 49	2 24	21 30	0 1	9 19	1 32	29 35	6 29	23 23	23 19	12 7			n.a.
T 21	23 41	20 59	2 3	24 59	1 44	15 37	1 57	21 47	1 10	9 55	1 22	6 51	2 24	21 31	0 1	9 19	1 32	29 35	6 29	23 23	23 19	12 9			n.a.
W22	23 42	22 44	0 59	24 45	1 39	15 58	1 55	21 36	1 10	9 52	1 21	6 52	2 24	21 31	0 1	9 20	1 32	29 35	6 29	23 23	23 20	12 12			n.a.
T 23	23 43	23 25	0 s 9	24 28	1 32	16 20	1 53	21 26	1 9	9 48	1 21	6 53	2 24	21 32	0 1	9 20	1 32	29 35	6 29	23 23	23 20	12 14			n.a.
F 24	23 43	22 56	1 17	24 10	1 25	16 41	1 50	21 15	1 9	9 44	1 21	6 55	2 25	21 33	0 1	9 20	1 32	29 34	6 29	23 23	23 20	12 17			n.a.
S 25	23 43	21 17	2 23	23 51	1 17	17 2	1 48	21 4	1 8	9 41	1 21	6 56	2 25	21 33	0 1	9 20	1 32	29 34	6 29	23 23	23 20	12 19			n.a.
S 26	23 42	18 31	3 23	23 29	1 8	17 22	1 46	20 53	1 8	9 37	1 21	6 57	2 25	21 34	0 1	9 20	1 32	29 34	6 29	23 23	23 21	12 22			n.a.
M27	23 41	14 46	4 13	23 7	0 58	17 42	1 43	20 42	1 8	9 33	1 20	6 59	2 25	21 34	0 1	9 20	1 33	29 34	6 30	23 23	23 21	12 24			n.a.
T 28	23 40	10 13	4 51	22 43	0 47	18 2	1 41	20 30	1 7	9 29	1 20	7 0	2 25	21 35	0 1	9 21	1 33	29 34	6 30	23 23	23 21	12 27			n.a.
W29	23 38	5 5	5 13	22 19	0 35	18 21	1 39	20 18	1 7	9 25	1 20	7 1	2 26	21 36	0 1	9 21	1 33	29 34	6 30	23 23	23 21	12 29			n.a.
T 30	23 35	0n24	5 17	21 53	0 23	18 39	1 36	20 6	1 6	9 21	1 20	7 2	2 26	21 36	0 1	9 21	1 33	29 34	6 30	23 23	23 22	12 31			n.a.
F 31	23 s32	5n58	5 s 2	21 s28	0 s 9	18 s58	1n34	19 s54	1 s 6	9 s17	1 s19	7 s 3	2n26	21 s37	0 s 1	9n21	1n33	29 s33	6 s30	23n23	23n22	12 s34			n.a.

Julian Day Number = 1649803.5, Delta T = 03h31m40s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°46'32, Lahiri = - 6°39'32 Julian Calendar 1 Dec. 197 BCE == Greg. Calendar 28 Nov. 197 BCE

The year -196 astronomical counting style corresponds to year 197 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 196 BCE
geocentric

JANUARY 196 BCE (-195) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 27 38	7♑58'51	11♉51	26♑21	1♐40	7♒23	9♓46	23♎47	6♐15	9°R56	12♑49	9°R22	9♋36	15♏16	n.a.	S 1
S 2	6 31 35	8°59'45	26°28	27°13	2°53	8°10	9°56	23°50	6°18	9♍56	12°51	9°D22	9°33	15°23	n.a.	S 2
M 3	6 35 31	10° 0'38	11♊11	27°58	4° 6	8°57	10° 6	23°53	6°21	9°55	12°53	9♋22	9°29	15°30	n.a.	M 3
T 4	6 39 28	11° 1'30	25°52	28°34	5°19	9°43	10°17	23°56	6°24	9°55	12°55	9°22	9°26	15°37	n.a.	T 4
W 5	6 43 24	12° 2'20	10♋25	28°59	6°32	10°30	10°27	24° 0	6°27	9°54	12°57	9°R22	9°23	15°43	n.a.	W 5
T 6	6 47 21	13° 3'09	24°44	29°15	7°46	11°16	10°38	24° 3	6°30	9°53	12°59	9°22	9°20	15°50	n.a.	T 6
F 7	6 51 17	14° 3'56	8♌43	29°R20	8°59	12° 3	10°49	24° 5	6°33	9°52	13° 0	9°22	9°17	15°57	n.a.	F 7
S 8	6 55 14	15° 4'42	22°20	29°14	10°12	12°49	11° 0	24° 8	6°36	9°52	13° 2	9°21	9°13	16° 3	n.a.	S 8
S 9	6 59 11	16° 5'27	5♍33	28°56	11°25	13°36	11°11	24°11	6°39	9°51	13° 4	9°20	9°10	16°10	n.a.	S 9
M10	7 3 7	17° 6'11	18°23	28°29	12°39	14°22	11°22	24°14	6°42	9°50	13° 6	9°19	9° 7	16°17	n.a.	M10
T 11	7 7 4	18° 6'53	0♎53	27°51	13°52	15° 9	11°33	24°16	6°45	9°49	13° 8	9°18	9° 4	16°23	n.a.	T 11
W12	7 11 0	19° 7'34	13° 7	27° 5	15° 5	15°55	11°45	24°19	6°48	9°48	13°10	9°18	9° 1	16°30	n.a.	W12
T 13	7 14 57	20° 8'14	25° 7	26°10	16°19	16°42	11°56	24°21	6°51	9°47	13°11	9°D18	8°58	16°37	n.a.	T 13
F 14	7 18 53	21° 8'53	7♏ 0	25°10	17°32	17°28	12° 7	24°23	6°54	9°47	13°13	9°18	8°54	16°44	n.a.	F 14
S 15	7 22 50	22° 9'30	18°50	24° 5	18°46	18°14	12°19	24°25	6°57	9°46	13°15	9°19	8°51	16°50	n.a.	S 15
S 16	7 26 46	23°10'06	0♐42	22°57	19°59	19° 0	12°31	24°28	7° 0	9°45	13°17	9°21	8°48	16°57	n.a.	S 16
M17	7 30 43	24°10'40	12°40	21°48	21°12	19°47	12°43	24°30	7° 2	9°44	13°19	9°22	8°45	17° 4	n.a.	M17
T 18	7 34 40	25°11'13	24°47	20°40	22°26	20°33	12°54	24°31	7° 5	9°43	13°21	9°23	8°42	17°10	n.a.	T 18
W19	7 38 36	26°11'45	7♑ 6	19°34	23°39	21°19	13° 6	24°33	7° 8	9°41	13°22	9°R24	8°39	17°17	n.a.	W19
T 20	7 42 33	27°12'15	19°40	18°33	24°53	22° 5	13°18	24°35	7°10	9°40	13°24	9°23	8°35	17°24	n.a.	T 20
F 21	7 46 29	28°12'43	2♒29	17°36	26° 6	22°51	13°31	24°36	7°13	9°39	13°26	9°22	8°32	17°30	n.a.	F 21
S 22	7 50 26	29°13'09	15°33	16°46	27°20	23°37	13°43	24°38	7°16	9°38	13°28	9°20	8°29	17°37	n.a.	S 22
S 23	7 54 22	0♒13'34	28°51	16° 2	28°33	24°23	13°55	24°39	7°18	9°37	13°30	9°17	8°26	17°44	n.a.	S 23
M24	7 58 19	1°13'56	12♓23	15°26	29°47	25° 9	14° 7	24°41	7°21	9°36	13°31	9°14	8°23	17°50	n.a.	M24
T 25	8 2 15	2°14'17	26° 7	14°56	1♑ 1	25°55	14°20	24°42	7°23	9°35	13°33	9°10	8°19	17°57	n.a.	T 25
W26	8 6 12	3°14'35	10♈ 0	14°34	2°14	26°41	14°32	24°43	7°26	9°33	13°35	9° 8	8°16	18° 4	n.a.	W26
T 27	8 10 9	4°14'51	24° 1	14°19	3°28	27°27	14°45	24°44	7°28	9°32	13°37	9° 6	8°13	18°11	n.a.	T 27
F 28	8 14 5	5°15'05	8♉ 9	14°12	4°41	28°13	14°58	24°45	7°30	9°31	13°38	9°D 6	8°10	18°17	n.a.	F 28
S 29	8 18 2	6°15'17	22°21	14°D11	5°55	28°59	15°10	24°45	7°33	9°29	13°40	9° 7	8° 7	18°24	n.a.	S 29
S 30	8 21 58	7°15'26	6♊35	14°16	7° 8	29°45	15°23	24°46	7°35	9°28	13°42	9° 8	8° 4	18°31	n.a.	S 30
M31	8 25 55	8♒15'34	20♊50	14♑28	8♑22	0♓30	15♓36	24♎47	7♐37	9♍27	13♑43	9♋10	8♋ 0	18♏37	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s28	11n19	4s28	21s 2	0n 6	19s15	1n31	19s42	1s 6	9s13	1s19	7s 4	2n26	21s37	0s 1	9n22	1n33	29s33	6s30	23n23	23n22	12s36		n.a.
S 2	23 25	16 5	3 36	20 37	0 21	19 32	1 28	19 29	1 5	9 9	1 19	7 5	2 26	21 38	0 1	9 22	1 33	29 33	6 30	23 23	23 22	12 39		n.a.
M 3	23 20	19 54	2 30	20 12	0 37	19 49	1 26	19 16	1 5	9 5	1 19	7 6	2 27	21 38	0 1	9 22	1 33	29 33	6 30	23 23	23 22	12 41		n.a.
T 4	23 15	22 25	1 14	19 48	0 54	20 5	1 23	19 3	1 4	9 1	1 19	7 7	2 27	21 39	0 1	9 22	1 33	29 33	6 30	23 23	23 23	12 44		n.a.
W 5	23 10	23 24	0n 6	19 26	1 11	20 20	1 20	18 50	1 4	8 56	1 18	7 8	2 27	21 40	0 1	9 23	1 33	29 33	6 30	23 23	23 23	12 46		n.a.
T 6	23 4	22 49	1 24	19 6	1 29	20 35	1 17	18 37	1 3	8 52	1 18	7 9	2 27	21 40	0 1	9 23	1 33	29 33	6 30	23 23	23 23	12 48		n.a.
F 7	22 58	20 48	2 36	18 47	1 47	20 50	1 14	18 23	1 3	8 48	1 18	7 10	2 27	21 41	0 1	9 23	1 33	29 33	6 30	23 23	23 23	12 51		n.a.
S 8	22 51	17 38	3 37	18 32	2 4	21 3	1 12	18 9	1 2	8 43	1 18	7 11	2 28	21 41	0 1	9 24	1 33	29 32	6 30	23 23	23 24	12 53		n.a.
S 9	22 44	13 40	4 24	18 18	2 21	21 17	1 9	17 55	1 2	8 39	1 18	7 12	2 28	21 42	0 1	9 24	1 33	29 32	6 30	23 23	23 24	12 56		n.a.
M10	22 37	9 11	4 56	18 8	2 38	21 29	1 6	17 41	1 2	8 35	1 17	7 12	2 28	21 42	0 1	9 24	1 33	29 32	6 30	23 23	23 24	12 58		n.a.
T 11	22 29	4 26	5 14	18 0	2 53	21 41	1 3	17 27	1 1	8 30	1 17	7 13	2 28	21 43	0 1	9 25	1 33	29 32	6 30	23 23	23 24	13 1		n.a.
W12	22 20	0s23	5 16	17 56	3 7	21 53	1 0	17 13	1 1	8 26	1 17	7 14	2 29	21 43	0 1	9 25	1 33	29 32	6 31	23 23	23 24	13 3		n.a.
T 13	22 11	5 6	5 5	17 54	3 19	22 4	0 57	16 58	1 0	8 21	1 17	7 15	2 29	21 44	0 1	9 26	1 33	29 32	6 31	23 23	23 25	13 5		n.a.
F 14	22 2	9 35	4 41	17 55	3 30	22 14	0 54	16 44	1 0	8 16	1 17	7 15	2 29	21 44	0 1	9 26	1 34	29 32	6 31	23 23	23 25	13 8		n.a.
S 15	21 52	13 42	4 5	17 58	3 38	22 23	0 51	16 29	0 59	8 12	1 17	7 16	2 29	21 45	0 1	9 26	1 34	29 32	6 31	23 23	23 25	13 10		n.a.
S 16	21 42	17 18	3 18	18 4	3 44	22 32	0 48	16 14	0 59	8 7	1 16	7 16	2 30	21 45	0 1	9 27	1 34	29 32	6 31	23 23	23 25	13 13		n.a.
M17	21 32	20 13	2 23	18 11	3 47	22 41	0 45	15 58	0 58	8 2	1 16	7 17	2 30	21 46	0 1	9 27	1 34	29 32	6 31	23 23	23 26	13 15		n.a.
T 18	21 21	22 17	1 20	18 20	3 49	22 48	0 42	15 43	0 58	7 57	1 16	7 17	2 30	21 46	0 1	9 28	1 34	29 31	6 31	23 23	23 26	13 17		n.a.
W19	21 9	23 19	0 13	18 31	3 48	22 55	0 39	15 28	0 57	7 53	1 16	7 18	2 30	21 47	0 1	9 28	1 34	29 31	6 31	23 23	23 26	13 20		n.a.
T 20	20 58	23 11	0s56	18 42	3 45	23 1	0 36	15 12	0 57	7 48	1 16	7 18	2 30	21 47	0 1	9 29	1 34	29 31	6 31	23 23	23 26	13 22		n.a.
F 21	20 46	21 51	2 4	18 55	3 40	23 7	0 33	14 56	0 56	7 43	1 16	7 19	2 31	21 48	0 1	9 29	1 34	29 31	6 31	23 23	23 26	13 25		n.a.
S 22	20 33	19 19	3 6	19 8	3 33	23 12	0 30	14 41	0 56	7 38	1 15	7 19	2 31	21 48	0 1	9 30	1 34	29 31	6 32	23 23	23 27	13 27		n.a.
S 23	20 20	15 45	4 0	19 21	3 25	23 16	0 27	14 25	0 55	7 33	1 15	7 19	2 31	21 48	0 1	9 30	1 34	29 31	6 32	23 23	23 27	13 29		n.a.
M24	20 7	11 18	4 41	19 35	3 16	23 19	0 24	14 9	0 55	7 28	1 15	7 19	2 31	21 49	0 1	9 31	1 34	29 31	6 32	23 24	23 27	13 32		n.a.
T 25	19 53	6 14	5 6	19 48	3 5	23 22	0 21	13 52	0 54	7 23	1 15	7 20	2 32	21 49	0 2	9 31	1 34	29 31	6 32	23 24	23 27	13 34		n.a.
W26	19 40	0 48	5 14	20 2	2 54	23 24	0 18	13 36	0 54	7 18	1 15	7 20	2 32	21 50	0 2	9 32	1 34	29 31	6 32	23 24	23 27	13 37		n.a.
T 27	19 25	4n43	5 4	20 15	2 42	23 26	0 15	13 20	0 53	7 13	1 15	7 20	2 32	21 50	0 2	9 32	1 34	29 31	6 32	23 24	23 28	13 39		n.a.
F 28	19 11	10 3	4 35	20 28	2 30	23 26	0 12	13 3	0 53	7 8	1 14	7 20	2 32	21 51	0 2	9 33	1 34	29 31	6 32	23 24	23 28	13 41		n.a.
S 29	18 56	14 53	3 49	20 40	2 18	23 26	0 9	12 46	0 52	7 3	1 14	7 20	2 33	21 51	0 2	9 33	1 34	29 31	6 32	23 24	23 28	13 44		n.a.
S 30	18 40	18 53	2 49	20 53	2 5	23 26	0 6	12 30	0 51	6 58	1 14	7 20	2 33	21 51	0 2	9 34	1 34	29 31	6 33	23 24	23 28	13 46		n.a.
M31	18s25	21n45	1s39	21s 4	1n52	23s24	0n 3	12s13	0s51	6s53	1s14	7s20	2n33	21s52	0s 2	9n34	1n34	29s31	6s33	23n24	23n28	13s49		n.a.

Julian Day Number = 1649834.5, Delta T = 03h31m39s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°46'28, Lahiri = - 6°39'28 Julian Calendar 1 Jan. 196 BCE == Greg. Calendar 29 Dec. 197 BCE

The year -195 astronomical counting style corresponds to year 196 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 196 BCE
geocentric

FEBRUARY 196 BCE (-195) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 29 51	9♒15'39	5♋ 1	14♉45	9♉35	1♓16	15♓49	24♎47	7♐39	9°R25	13♉45	9°R11	7♋57	18♏44	n.a.	T 1
W 2	8 33 48	10°15'42	19° 7	15° 8	10°49	2° 2	16° 2	24°48	7°41	9♍24	13°47	9♋10	7°54	18°51	n.a.	W 2
T 3	8 37 44	11°15'43	3♌ 3	15°36	12° 3	2°47	16°15	24°48	7°44	9°23	13°48	9° 8	7°51	18°57	n.a.	T 3
F 4	8 41 41	12°15'42	16°46	16° 8	13°16	3°33	16°28	24°48	7°46	9°21	13°50	9° 5	7°48	19° 4	n.a.	F 4
S 5	8 45 38	13°15'39	0♍12	16°45	14°30	4°18	16°41	24°R48	7°48	9°20	13°52	9° 0	7°45	19°11	n.a.	S 5
S 6	8 49 34	14°15'34	13°20	17°26	15°43	5° 4	16°55	24°48	7°50	9°18	13°53	8°54	7°41	19°17	n.a.	S 6
M 7	8 53 31	15°15'27	26° 9	18°11	16°57	5°49	17° 8	24°48	7°51	9°17	13°55	8°48	7°38	19°24	n.a.	M 7
T 8	8 57 27	16°15'18	8♎40	18°59	18°11	6°35	17°21	24°48	7°53	9°15	13°57	8°42	7°35	19°31	n.a.	T 8
W 9	9 1 24	17°15'07	20°55	19°51	19°24	7°20	17°35	24°47	7°55	9°14	13°58	8°37	7°32	19°38	n.a.	W 9
T 10	9 5 20	18°14'55	2♏57	20°46	20°38	8° 5	17°48	24°47	7°57	9°12	14° 0	8°34	7°29	19°44	n.a.	T 10
F 11	9 9 17	19°14'40	14°51	21°43	21°51	8°50	18° 2	24°46	7°59	9°11	14° 1	8°D33	7°25	19°51	n.a.	F 11
S 12	9 13 13	20°14'24	26°42	22°44	23° 5	9°36	18°15	24°46	8° 0	9° 9	14° 3	8°33	7°22	19°58	n.a.	S 12
S 13	9 17 10	21°14'06	8♐34	23°47	24°19	10°21	18°29	24°45	8° 2	9° 8	14° 5	8°34	7°19	20° 4	n.a.	S 13
M14	9 21 7	22°13'46	20°32	24°52	25°32	11° 6	18°42	24°44	8° 4	9° 6	14° 6	8°35	7°16	20°11	n.a.	M14
T 15	9 25 3	23°13'25	2♑43	26° 0	26°46	11°51	18°56	24°43	8° 5	9° 5	14° 8	8°R37	7°13	20°18	n.a.	T 15
W16	9 29 0	24°13'01	15° 8	27°10	28° 0	12°36	19°10	24°42	8° 7	9° 3	14° 9	8°36	7°10	20°24	n.a.	W16
T 17	9 32 56	25°12'36	27°53	28°22	29°13	13°21	19°23	24°41	8° 8	9° 2	14°11	8°35	7° 6	20°31	n.a.	T 17
F 18	9 36 53	26°12'08	10♒58	29°36	0♒27	14° 6	19°37	24°40	8° 9	9° 0	14°12	8°31	7° 3	20°38	n.a.	F 18
S 19	9 40 49	27°11'38	24°24	0♒52	1°41	14°51	19°51	24°38	8°11	8°58	14°13	8°24	7° 0	20°44	n.a.	S 19
S 20	9 44 46	28°11'07	8♓ 9	2°10	2°54	15°36	20° 5	24°37	8°12	8°57	14°15	8°17	6°57	20°51	n.a.	S 20
M21	9 48 42	29°10'33	22° 9	3°29	4° 8	16°20	20°19	24°36	8°13	8°55	14°16	8° 8	6°54	20°58	n.a.	M21
T 22	9 52 39	0♓ 9'56	6♈20	4°50	5°21	17° 5	20°33	24°34	8°15	8°53	14°18	8° 0	6°50	21° 4	n.a.	T 22
W23	9 56 35	1° 9'18	20°37	6°13	6°35	17°50	20°47	24°32	8°16	8°52	14°19	7°53	6°47	21°11	n.a.	W23
T 24	10 0 32	2° 8'37	4♉55	7°37	7°49	18°35	21° 1	24°30	8°17	8°50	14°20	7°47	6°44	21°18	n.a.	T 24
F 25	10 4 29	3° 7'53	19°11	9° 4	9° 2	19°19	21°15	24°29	8°18	8°49	14°22	7°45	6°41	21°24	n.a.	F 25
S 26	10 8 25	4° 7'07	3♊21	10°31	10°16	20° 4	21°29	24°27	8°19	8°47	14°23	7°D44	6°38	21°31	n.a.	S 26
S 27	10 12 22	5° 6'19	17°24	12° 0	11°30	20°48	21°43	24°25	8°20	8°45	14°24	7°44	6°35	21°38	n.a.	S 27
M28	10 16 18	6♓ 5'28	1♋20	13♒31	12♒43	21♓33	21♓57	24♎22	8♐21	8♍44	14♉26	7°R45	6♋31	21♏45	n.a.	M28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s 9	23n15	0s23	21s15	1n39	23s22	0s 0	11s56	0s50	6s47	1s14	7s20	2n33	21s52	0s 2	9n35	1n34	29s31	6s33	23n24	23n29	13s51		n.a.
W 2	17 53	23 14	0n54	21 25	1 27	23 19	0 3	11 39	0 50	6 42	1 14	7 20	2 34	21 52	0 2	9 35	1 34	29 30	6 33	23 24	23 29	13 53		n.a.
T 3	17 36	21 46	2 7	21 34	1 14	23 16	0 6	11 22	0 49	6 37	1 14	7 20	2 34	21 53	0 2	9 36	1 34	29 30	6 33	23 24	23 29	13 56		n.a.
F 4	17 19	19 1	3 11	21 43	1 2	23 12	0 9	11 5	0 49	6 32	1 14	7 20	2 34	21 53	0 2	9 37	1 34	29 30	6 33	23 24	23 29	13 58		n.a.
S 5	17 2	15 19	4 3	21 50	0 50	23 7	0 12	10 47	0 48	6 26	1 13	7 19	2 34	21 53	0 2	9 37	1 34	29 30	6 33	23 25	23 29	14 0		n.a.
S 6	16 45	10 56	4 41	21 57	0 38	23 1	0 14	10 30	0 48	6 21	1 13	7 19	2 34	21 54	0 2	9 38	1 34	29 30	6 34	23 25	23 30	14 3		n.a.
M 7	16 27	6 10	5 3	22 2	0 26	22 55	0 17	10 13	0 47	6 16	1 13	7 19	2 35	21 54	0 2	9 38	1 35	29 30	6 34	23 25	23 30	14 5		n.a.
T 8	16 9	1 17	5 11	22 6	0 15	22 48	0 20	9 55	0 46	6 10	1 13	7 19	2 35	21 54	0 2	9 39	1 35	29 30	6 34	23 26	23 30	14 8		n.a.
W 9	15 51	3s34	5 4	22 10	0 4	22 40	0 22	9 38	0 46	6 5	1 13	7 18	2 35	21 55	0 2	9 39	1 35	29 30	6 34	23 26	23 30	14 10		n.a.
T 10	15 32	8 12	4 43	22 12	0s 6	22 32	0 25	9 20	0 45	5 59	1 13	7 18	2 35	21 55	0 2	9 40	1 35	29 30	6 34	23 26	23 30	14 12		n.a.
F 11	15 13	12 29	4 11	22 13	0 16	22 23	0 28	9 2	0 45	5 54	1 13	7 18	2 36	21 55	0 2	9 41	1 35	29 30	6 34	23 26	23 30	14 15		n.a.
S 12	14 54	16 17	3 28	22 13	0 26	22 13	0 30	8 45	0 44	5 49	1 13	7 17	2 36	21 56	0 2	9 41	1 35	29 30	6 35	23 26	23 31	14 17		n.a.
S 13	14 35	19 26	2 36	22 11	0 36	22 3	0 33	8 27	0 44	5 43	1 13	7 17	2 36	21 56	0 2	9 42	1 35	29 30	6 35	23 26	23 31	14 19		n.a.
M14	14 16	21 46	1 36	22 8	0 45	21 52	0 35	8 9	0 43	5 38	1 12	7 16	2 36	21 56	0 2	9 43	1 35	29 30	6 35	23 26	23 31	14 22		n.a.
T 15	13 56	23 10	0 32	22 4	0 53	21 40	0 38	7 51	0 42	5 32	1 12	7 16	2 37	21 56	0 2	9 43	1 35	29 30	6 35	23 26	23 31	14 24		n.a.
W16	13 36	23 26	0s35	21 59	1 2	21 28	0 40	7 33	0 42	5 27	1 12	7 15	2 37	21 57	0 2	9 44	1 35	29 30	6 35	23 26	23 31	14 26		n.a.
T 17	13 16	22 30	1 42	21 52	1 10	21 15	0 43	7 15	0 41	5 21	1 12	7 14	2 37	21 57	0 2	9 44	1 35	29 30	6 35	23 26	23 32	14 29		n.a.
F 18	12 56	20 20	2 46	21 44	1 17	21 1	0 45	6 57	0 41	5 15	1 12	7 14	2 37	21 57	0 2	9 45	1 35	29 30	6 36	23 27	23 32	14 31		n.a.
S 19	12 35	17 1	3 41	21 34	1 24	20 47	0 47	6 39	0 40	5 10	1 12	7 13	2 37	21 57	0 2	9 46	1 35	29 30	6 36	23 27	23 32	14 33		n.a.
S 20	12 15	12 42	4 25	21 23	1 31	20 32	0 49	6 21	0 39	5 4	1 12	7 12	2 38	21 58	0 2	9 46	1 35	29 30	6 36	23 27	23 32	14 36		n.a.
M21	11 54	7 39	4 55	21 10	1 37	20 17	0 52	6 3	0 39	4 59	1 12	7 12	2 38	21 58	0 2	9 47	1 35	29 30	6 36	23 28	23 32	14 38		n.a.
T 22	11 33	2 8	5 6	20 56	1 43	20 1	0 54	5 45	0 38	4 53	1 12	7 11	2 38	21 58	0 2	9 48	1 35	29 30	6 36	23 28	23 32	14 41		n.a.
W23	11 11	3n32	4 59	20 41	1 48	19 45	0 56	5 26	0 38	4 47	1 12	7 10	2 38	21 58	0 2	9 48	1 35	29 31	6 37	23 29	23 33	14 43		n.a.
T 24	10 50	9 2	4 33	20 24	1 53	19 28	0 58	5 8	0 37	4 42	1 12	7 9	2 38	21 58	0 2	9 49	1 35	29 31	6 37	23 29	23 33	14 45		n.a.
F 25	10 28	14 2	3 50	20 5	1 57	19 10	1 0	4 50	0 36	4 36	1 11	7 8	2 39	21 59	0 2	9 49	1 35	29 31	6 37	23 29	23 33	14 48		n.a.
S 26	10 7	18 14	2 54	19 45	2 2	18 52	1 2	4 32	0 36	4 30	1 11	7 7	2 39	21 59	0 2	9 50	1 35	29 31	6 37	23 29	23 33	14 50		n.a.
S 27	9 45	21 21	1 47	19 24	2 5	18 33	1 4	4 13	0 35	4 25	1 11	7 6	2 39	21 59	0 2	9 51	1 35	29 31	6 37	23 29	23 33	14 52		n.a.
M28	9s23	23n 8	0s34	19s 0	2s 8	18s14	1s 5	3s55	0s35	4s19	1s11	7s 5	2n39	21s59	0s 2	9n51	1n35	29s31	6s38	23n29	23n33	14s54		n.a.

Julian Day Number = 1649865.5, Delta T = 03h31m38s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°46'24, Lahiri = - 6°39'23 Julian Calendar 1 Feb. 196 BCE == Greg. Calendar 29 Jan. 196 BCE

The year -195 astronomical counting style corresponds to year 196 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 196 BCE
geocentric

MARCH 196 BCE (-195) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 20 15	7♓ 4'35	15♋ 7	15♒ 3	13♒57	22♓17	22♓11	24°R20	8♐21	8°R42	14♑27	7°R45	6♋28	21♏51	n.a.	T 1
W 2	10 24 11	8° 3'40	28°47	16°36	15°10	23° 1	22°25	24♎18	8°22	8♍40	14°28	7♋43	6°25	21°58	n.a.	W 2
T 3	10 28 8	9° 2'42	12♌16	18°11	16°24	23°46	22°39	24°15	8°23	8°39	14°29	7°38	6°22	22° 5	n.a.	T 3
F 4	10 32 4	10° 1'42	25°35	19°48	17°38	24°30	22°54	24°13	8°24	8°37	14°30	7°31	6°19	22°11	n.a.	F 4
S 5	10 36 1	11° 0'39	8♍42	21°26	18°51	25°14	23° 8	24°10	8°24	8°35	14°32	7°22	6°16	22°18	n.a.	S 5
S 6	10 39 58	11°59'35	21°35	23° 5	20° 5	25°58	23°22	24° 8	8°25	8°34	14°33	7°11	6°12	22°25	n.a.	S 6
M 7	10 43 54	12°58'28	4♎14	24°46	21°19	26°42	23°36	24° 5	8°25	8°32	14°34	6°59	6° 9	22°31	n.a.	M 7
T 8	10 47 51	13°57'19	16°39	26°29	22°32	27°27	23°51	24° 2	8°26	8°30	14°35	6°48	6° 6	22°38	n.a.	T 8
W 9	10 51 47	14°56'09	28°51	28°12	23°46	28°11	24° 5	23°59	8°26	8°29	14°36	6°38	6° 3	22°45	n.a.	W 9
T 10	10 55 44	15°54'56	10♏51	29°58	24°59	28°54	24°19	23°56	8°27	8°27	14°37	6°30	6° 0	22°51	n.a.	T 10
F 11	10 59 40	16°53'42	22°44	1♓45	26°13	29°38	24°34	23°53	8°27	8°26	14°38	6°25	5°56	22°58	n.a.	F 11
S 12	11 3 37	17°52'26	4♐34	3°33	27°27	0♈22	24°48	23°50	8°27	8°24	14°39	6°22	5°53	23° 5	n.a.	S 12
S 13	11 7 33	18°51'08	16°25	5°23	28°40	1° 6	25° 2	23°47	8°28	8°22	14°40	6°D21	5°50	23°11	n.a.	S 13
M14	11 11 30	19°49'48	28°23	7°14	29°54	1°50	25°17	23°44	8°28	8°21	14°41	6°21	5°47	23°18	n.a.	M14
T 15	11 15 27	20°48'26	10♑33	9° 7	1♓ 7	2°34	25°31	23°40	8°28	8°19	14°42	6°R21	5°44	23°25	n.a.	T 15
W16	11 19 23	21°47'03	23° 0	11° 2	2°21	3°17	25°45	23°37	8°28	8°17	14°43	6°20	5°41	23°31	n.a.	W16
T 17	11 23 20	22°45'38	5♒49	12°58	3°35	4° 1	26° 0	23°34	8°R28	8°16	14°44	6°17	5°37	23°38	n.a.	T 17
F 18	11 27 16	23°44'11	19° 3	14°55	4°48	4°44	26°14	23°30	8°28	8°14	14°45	6°12	5°34	23°45	n.a.	F 18
S 19	11 31 13	24°42'42	2♓42	16°54	6° 2	5°28	26°28	23°26	8°28	8°13	14°45	6° 3	5°31	23°52	n.a.	S 19
S 20	11 35 9	25°41'11	16°46	18°55	7°15	6°11	26°43	23°23	8°28	8°11	14°46	5°53	5°28	23°58	n.a.	S 20
M21	11 39 6	26°39'39	1♈10	20°56	8°29	6°55	26°57	23°19	8°28	8°10	14°47	5°41	5°25	24° 5	n.a.	M21
T 22	11 43 2	27°38'04	15°47	22°59	9°43	7°38	27°11	23°15	8°27	8° 8	14°48	5°30	5°21	24°12	n.a.	T 22
W23	11 46 59	28°36'27	0♉31	25° 4	10°56	8°21	27°26	23°12	8°27	8° 6	14°49	5°20	5°18	24°18	n.a.	W23
T 24	11 50 55	29°34'48	15°13	27° 9	12°10	9° 5	27°40	23° 8	8°27	8° 5	14°49	5°12	5°15	24°25	n.a.	T 24
F 25	11 54 52	0♈33'08	29°46	29°16	13°23	9°48	27°54	23° 4	8°26	8° 3	14°50	5° 8	5°12	24°32	n.a.	F 25
S 26	11 58 49	1°31'24	14♊ 7	1♈23	14°37	10°31	28° 9	23° 0	8°26	8° 2	14°51	5° 5	5° 9	24°38	n.a.	S 26
S 27	12 2 45	2°29'39	28°13	3°31	15°51	11°14	28°23	22°56	8°25	8° 1	14°51	5° 5	5° 6	24°45	n.a.	S 27
M28	12 6 42	3°27'52	12♋ 3	5°40	17° 4	11°57	28°37	22°52	8°25	7°59	14°52	5° 5	5° 2	24°52	n.a.	M28
T 29	12 10 38	4°26'02	25°38	7°49	18°18	12°40	28°52	22°48	8°24	7°58	14°52	5° 4	4°59	24°58	n.a.	T 29
W30	12 14 35	5°24'11	8♌59	9°58	19°31	13°23	29° 6	22°44	8°24	7°56	14°53	5° 1	4°56	25° 5	n.a.	W30
T 31	12 18 31	6♈22'17	22♌ 8	12♈ 6	20♓45	14♈ 6	29♓20	22♎39	8♐23	7♍55	14♑54	4♋56	4♋53	25♏12	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9s 1	23n30	0n39	18s36	2s11	17s54	1s 7	3s37	0s34	4s13	1s11	7s 4	2n39	21s59	0s 2	9n52	1n35	29s31	6s38	23n29	23n34	14s57		n.a.
W 2	8 39	22 26	1 50	18 9	2 13	17 34	1 9	3 19	0 33	4 8	1 11	7 3	2 40	21 59	0 2	9 53	1 35	29 31	6 38	23 29	23 34	14 59		n.a.
T 3	8 16	20 5	2 53	17 42	2 15	17 13	1 10	3 0	0 33	4 2	1 11	7 2	2 40	21 59	0 2	9 53	1 35	29 31	6 38	23 30	23 34	15 1		n.a.
F 4	7 54	16 41	3 46	17 12	2 16	16 52	1 12	2 42	0 32	3 56	1 11	7 1	2 40	22 0	0 2	9 54	1 35	29 31	6 39	23 30	23 34	15 4		n.a.
S 5	7 31	12 30	4 26	16 41	2 17	16 31	1 13	2 24	0 32	3 50	1 11	7 0	2 40	22 0	0 2	9 55	1 35	29 31	6 39	23 31	23 34	15 6		n.a.
S 6	7 9	7 50	4 52	16 9	2 18	16 8	1 15	2 5	0 31	3 45	1 11	6 59	2 40	22 0	0 2	9 55	1 35	29 31	6 39	23 31	23 34	15 8		n.a.
M 7	6 46	2 55	5 2	15 34	2 17	15 46	1 16	1 47	0 30	3 39	1 11	6 58	2 40	22 0	0 2	9 56	1 35	29 31	6 39	23 32	23 34	15 11		n.a.
T 8	6 23	2s 2	4 58	14 59	2 17	15 23	1 18	1 29	0 30	3 33	1 11	6 57	2 41	22 0	0 2	9 56	1 35	29 31	6 39	23 33	23 35	15 13		n.a.
W 9	6 0	6 49	4 40	14 21	2 16	15 0	1 19	1 11	0 29	3 27	1 11	6 55	2 41	22 0	0 2	9 57	1 35	29 32	6 40	23 33	23 35	15 15		n.a.
T 10	5 37	11 17	4 11	13 42	2 14	14 36	1 20	0 52	0 29	3 22	1 11	6 54	2 41	22 0	0 2	9 58	1 35	29 32	6 40	23 33	23 35	15 18		n.a.
F 11	5 14	15 17	3 30	13 2	2 12	14 12	1 21	0 34	0 28	3 16	1 11	6 53	2 41	22 0	0 2	9 58	1 35	29 32	6 40	23 34	23 35	15 20		n.a.
S 12	4 51	18 40	2 40	12 19	2 9	13 47	1 22	0 16	0 27	3 10	1 11	6 52	2 41	22 0	0 2	9 59	1 35	29 32	6 40	23 34	23 35	15 22		n.a.
S 13	4 28	21 18	1 44	11 36	2 6	13 22	1 23	0n 2	0 27	3 4	1 11	6 50	2 41	22 0	0 2	10 0	1 35	29 32	6 41	23 34	23 35	15 25		n.a.
M14	4 4	23 0	0 42	10 50	2 2	12 57	1 24	0 20	0 26	2 58	1 10	6 49	2 42	22 0	0 2	10 0	1 35	29 32	6 41	23 34	23 35	15 27		n.a.
T 15	3 41	23 40	0s22	10 4	1 58	12 31	1 25	0 38	0 25	2 53	1 10	6 48	2 42	22 0	0 2	10 1	1 35	29 32	6 41	23 34	23 36	15 29		n.a.
W16	3 18	23 10	1 27	9 15	1 53	12 5	1 26	0 57	0 25	2 47	1 10	6 46	2 42	22 0	0 2	10 1	1 35	29 32	6 41	23 34	23 36	15 31		n.a.
T 17	2 54	21 27	2 29	8 25	1 48	11 39	1 26	1 15	0 24	2 41	1 10	6 45	2 42	22 0	0 2	10 2	1 35	29 33	6 41	23 34	23 36	15 34		n.a.
F 18	2 31	18 32	3 26	7 34	1 42	11 12	1 27	1 33	0 24	2 35	1 10	6 43	2 42	22 0	0 2	10 3	1 35	29 33	6 42	23 34	23 36	15 36		n.a.
S 19	2 7	14 32	4 12	6 42	1 36	10 46	1 28	1 51	0 23	2 30	1 10	6 42	2 42	22 0	0 2	10 3	1 35	29 33	6 42	23 35	23 36	15 38		n.a.
S 20	1 44	9 38	4 44	5 48	1 29	10 18	1 28	2 9	0 22	2 24	1 10	6 40	2 42	22 0	0 2	10 4	1 35	29 33	6 42	23 35	23 36	15 41		n.a.
M21	1 21	4 6	5 0	4 52	1 21	9 51	1 29	2 27	0 22	2 18	1 10	6 39	2 42	22 0	0 2	10 4	1 35	29 33	6 42	23 36	23 36	15 43		n.a.
T 22	0 57	1n44	4 56	3 56	1 13	9 23	1 29	2 44	0 21	2 12	1 10	6 37	2 43	22 0	0 2	10 5	1 35	29 33	6 43	23 36	23 37	15 45		n.a.
W23	0 34	7 32	4 32	2 58	1 5	8 55	1 29	3 2	0 20	2 6	1 10	6 36	2 43	22 0	0 2	10 5	1 35	29 33	6 43	23 37	23 37	15 47		n.a.
T 24	0 10	12 54	3 51	2 0	0 56	8 27	1 30	3 20	0 20	2 1	1 10	6 34	2 43	22 0	0 2	10 6	1 35	29 34	6 43	23 37	23 37	15 50		n.a.
F 25	0n13	17 29	2 55	1 0	0 47	7 59	1 30	3 38	0 19	1 55	1 10	6 33	2 43	22 0	0 2	10 7	1 35	29 34	6 43	23 37	23 37	15 52		n.a.
S 26	0 37	20 58	1 48	0 0	0 37	7 30	1 30	3 56	0 19	1 49	1 10	6 31	2 43	22 0	0 2	10 7	1 35	29 34	6 44	23 37	23 37	15 54		n.a.
S 27	1 0	23 6	0 36	1n 0	0 27	7 1	1 30	4 13	0 18	1 43	1 10	6 30	2 43	22 0	0 2	10 8	1 35	29 34	6 44	23 37	23 37	15 56		n.a.
M28	1 24	23 47	0n37	2 1	0 17	6 32	1 30	4 31	0 17	1 37	1 10	6 28	2 43	22 0	0 2	10 8	1 35	29 34	6 44	23 37	23 37	15 59		n.a.
T 29	1 47	23 0	1 46	3 2	0 6	6 3	1 30	4 48	0 17	1 32	1 10	6 27	2 43	22 0	0 2	10 9	1 35	29 34	6 44	23 37	23 37	16 1		n.a.
W30	2 10	20 56	2 49	4 3	0n 4	5 34	1 30	5 6	0 16	1 26	1 10	6 25	2 43	22 0	0 2	10 9	1 35	29 35	6 45	23 37	23 38	16 3		n.a.
T 31	2n34	17n46	3n41	5n 4	0n15	5s 4	1s29	5n23	0s15	1s20	1s10	6s23	2n43	22s 0	0s 2	10n10	1n35	29s35	6s45	23n38	23n38	16s 6		n.a.

Julian Day Number = 1649893.5, Delta T = 03h31m37s
Ecliptic obliquity = 23°43'08, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°46'20, Lahiri = - 6°39'20 Julian Calendar 1 March 196 BCE == Greg. Calendar 26 Feb. 196 BCE

The year -195 astronomical counting style corresponds to year 196 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 196 BCE
geocentric

APRIL 196 BCE (-195) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 22 28	7♈20'21	5♍ 5	14♈14	21♓58	14♈49	29♓35	22°R35	8°R22	7°R53	14♑54	4°R47	4♋50	25♏18	n.a.	F 1
S 2	12 26 24	8°18'23	17°52	16°21	23°12	15°32	29°49	22♎31	8♐21	7♍52	14°54	4♋37	4°47	25°25	n.a.	S 2
S 3	12 30 21	9°16'24	0♎27	18°27	24°25	16°15	0♈ 3	22°27	8°21	7°51	14°55	4°24	4°43	25°32	n.a.	S 3
M 4	12 34 18	10°14'22	12°51	20°31	25°39	16°57	0°17	22°22	8°20	7°49	14°55	4°10	4°40	25°38	n.a.	M 4
T 5	12 38 14	11°12'19	25° 5	22°34	26°52	17°40	0°32	22°18	8°19	7°48	14°56	3°57	4°37	25°45	n.a.	T 5
W 6	12 42 11	12°10'14	7♏10	24°35	28° 6	18°22	0°46	22°14	8°18	7°47	14°56	3°46	4°34	25°52	n.a.	W 6
T 7	12 46 7	13° 8'08	19° 6	26°33	29°20	19° 5	1° 0	22° 9	8°17	7°45	14°56	3°36	4°31	25°58	n.a.	T 7
F 8	12 50 4	14° 6'01	0♐56	28°29	0♈33	19°47	1°14	22° 5	8°16	7°44	14°57	3°30	4°27	26° 5	n.a.	F 8
S 9	12 54 0	15° 3'51	12°45	0♉22	1°47	20°30	1°28	22° 1	8°15	7°43	14°57	3°26	4°24	26°12	n.a.	S 9
S 10	12 57 57	16° 1'41	24°35	2°12	3° 0	21°12	1°42	21°56	8°14	7°42	14°57	3°24	4°21	26°18	n.a.	S 10
M11	13 1 53	16°59'29	6♑31	3°59	4°14	21°55	1°57	21°52	8°12	7°40	14°58	3°D24	4°18	26°25	n.a.	M11
T 12	13 5 50	17°57'16	18°40	5°44	5°27	22°37	2°11	21°47	8°11	7°39	14°58	3°R24	4°15	26°32	n.a.	T 12
W13	13 9 46	18°55'02	1♒ 5	7°24	6°41	23°19	2°25	21°43	8°10	7°38	14°58	3°24	4°12	26°38	n.a.	W13
T 14	13 13 43	19°52'46	13°53	9° 2	7°54	24° 2	2°39	21°38	8° 9	7°37	14°58	3°22	4° 8	26°45	n.a.	T 14
F 15	13 17 40	20°50'29	27° 7	10°36	9° 8	24°44	2°53	21°34	8° 7	7°36	14°58	3°17	4° 5	26°52	n.a.	F 15
S 16	13 21 36	21°48'11	10♓50	12° 7	10°21	25°26	3° 7	21°30	8° 6	7°35	14°58	3°10	4° 2	26°58	n.a.	S 16
S 17	13 25 33	22°45'52	25° 1	13°34	11°35	26° 8	3°20	21°25	8° 4	7°34	14°58	3° 1	3°59	27° 5	n.a.	S 17
M18	13 29 29	23°43'31	9♈37	14°57	12°49	26°50	3°34	21°21	8° 3	7°33	14°59	2°51	3°56	27°12	n.a.	M18
T 19	13 33 26	24°41'10	24°31	16°17	14° 2	27°32	3°48	21°16	8° 1	7°32	14°R59	2°41	3°53	27°18	n.a.	T 19
W20	13 37 22	25°38'46	9♉34	17°34	15°16	28°14	4° 2	21°12	8° 0	7°31	14°59	2°32	3°49	27°25	n.a.	W20
T 21	13 41 19	26°36'22	24°37	18°46	16°29	28°56	4°16	21° 7	7°58	7°30	14°59	2°25	3°46	27°32	n.a.	T 21
F 22	13 45 15	27°33'56	9♊31	19°55	17°43	29°38	4°30	21° 3	7°57	7°29	14°58	2°21	3°43	27°38	n.a.	F 22
S 23	13 49 12	28°31'28	24° 9	21° 0	18°56	0♉19	4°43	20°58	7°55	7°28	14°58	2°19	3°40	27°45	n.a.	S 23
S 24	13 53 9	29°29'00	8♋26	22° 1	20°10	1° 1	4°57	20°54	7°53	7°27	14°58	2°D19	3°37	27°52	n.a.	S 24
M25	13 57 5	0♉26'29	22°21	22°58	21°23	1°43	5°11	20°50	7°52	7°26	14°58	2°20	3°33	27°59	n.a.	M25
T 26	14 1 2	1°23'57	5♌56	23°50	22°37	2°24	5°24	20°45	7°50	7°25	14°58	2°R20	3°30	28° 5	n.a.	T 26
W27	14 4 58	2°21'24	19°10	24°39	23°51	3° 6	5°38	20°41	7°48	7°24	14°58	2°18	3°27	28°12	n.a.	W27
T 28	14 8 55	3°18'49	2♍ 8	25°24	25° 4	3°48	5°51	20°37	7°46	7°24	14°58	2°15	3°24	28°19	n.a.	T 28
F 29	14 12 51	4°16'13	14°51	26° 4	26°18	4°29	6° 5	20°32	7°44	7°23	14°57	2° 9	3°21	28°25	n.a.	F 29
S 30	14 16 48	5♉13'35	27♍22	26♉40	27♈31	5♉10	6♈18	20♎28	7♐42	7♍22	14♑57	2♋ 1	3♋18	28♏32	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	2n57	13n48	4n21	6n 5	0n26	4s35	1s29	5n41	0s15	1s14	1s10	6s22	2n43	22s 0	0s 2	10n10	1n35	29s35	6s45	23n38	23n38	16s 8		n.a.
S 2	3 20	9 15	4 47	7 4	0 37	4 5	1 29	5 58	0 14	1 9	1 10	6 20	2 43	22 0	0 2	10 11	1 35	29 35	6 45	23 38	23 38	16 10		n.a.
S 3	3 43	4 23	4 59	8 3	0 48	3 35	1 28	6 15	0 14	1 3	1 10	6 19	2 43	21 59	0 2	10 11	1 35	29 35	6 46	23 39	23 38	16 12		n.a.
M 4	4 6	0s35	4 57	9 0	0 58	3 5	1 28	6 32	0 13	0 57	1 10	6 17	2 44	21 59	0 2	10 12	1 35	29 36	6 46	23 39	23 38	16 15		n.a.
T 5	4 29	5 29	4 40	9 56	1 8	2 35	1 27	6 49	0 12	0 52	1 10	6 15	2 44	21 59	0 2	10 12	1 35	29 36	6 46	23 40	23 38	16 17		n.a.
W 6	4 52	10 6	4 11	10 50	1 18	2 5	1 27	7 6	0 12	0 46	1 10	6 14	2 44	21 59	0 2	10 13	1 35	29 36	6 46	23 40	23 38	16 19		n.a.
T 7	5 15	14 18	3 32	11 43	1 28	1 35	1 26	7 23	0 11	0 40	1 10	6 12	2 44	21 59	0 2	10 13	1 35	29 36	6 47	23 40	23 38	16 21		n.a.
F 8	5 37	17 56	2 43	12 34	1 37	1 5	1 25	7 40	0 11	0 34	1 10	6 10	2 44	21 59	0 2	10 14	1 35	29 36	6 47	23 40	23 39	16 23		n.a.
S 9	6 0	20 49	1 47	13 22	1 45	0 34	1 24	7 57	0 10	0 29	1 10	6 9	2 44	21 59	0 2	10 14	1 35	29 37	6 47	23 40	23 39	16 26		n.a.
S 10	6 23	22 50	0 47	14 8	1 53	0 4	1 24	8 13	0 9	0 23	1 10	6 7	2 44	21 58	0 2	10 15	1 35	29 37	6 48	23 40	23 39	16 28		n.a.
M11	6 45	23 50	0s17	14 53	2 0	0n26	1 23	8 30	0 9	0 18	1 10	6 5	2 44	21 58	0 2	10 15	1 35	29 37	6 48	23 40	23 39	16 30		n.a.
T 12	7 7	23 43	1 20	15 34	2 7	0 57	1 22	8 46	0 8	0 12	1 10	6 4	2 44	21 58	0 2	10 15	1 35	29 37	6 48	23 40	23 39	16 32		n.a.
W13	7 30	22 27	2 21	16 14	2 13	1 27	1 21	9 3	0 7	0 6	1 10	6 2	2 44	21 58	0 2	10 16	1 35	29 38	6 48	23 40	23 39	16 35		n.a.
T 14	7 52	20 0	3 17	16 51	2 18	1 57	1 20	9 19	0 7	0 1	1 10	6 0	2 44	21 58	0 2	10 16	1 35	29 38	6 49	23 41	23 39	16 37		n.a.
F 15	8 14	16 26	4 5	17 25	2 22	2 28	1 18	9 35	0 6	0n 5	1 10	5 59	2 44	21 57	0 2	10 17	1 35	29 38	6 49	23 41	23 39	16 39		n.a.
S 16	8 36	11 54	4 40	17 57	2 26	2 58	1 17	9 52	0 6	0 10	1 10	5 57	2 44	21 57	0 2	10 17	1 34	29 38	6 49	23 41	23 39	16 41		n.a.
S 17	8 57	6 35	5 0	18 27	2 29	3 28	1 16	10 8	0 5	0 16	1 10	5 55	2 44	21 57	0 2	10 17	1 34	29 39	6 49	23 41	23 39	16 43		n.a.
M18	9 19	0 45	5 0	18 54	2 30	3 58	1 15	10 24	0 4	0 22	1 11	5 54	2 44	21 57	0 2	10 18	1 34	29 39	6 50	23 41	23 40	16 46		n.a.
T 19	9 40	5n15	4 41	19 19	2 32	4 28	1 13	10 39	0 4	0 27	1 11	5 52	2 44	21 57	0 2	10 18	1 34	29 39	6 50	23 41	23 40	16 48		n.a.
W20	10 2	11 1	4 2	19 42	2 32	4 58	1 12	10 55	0 3	0 33	1 11	5 50	2 43	21 56	0 2	10 18	1 34	29 39	6 50	23 42	23 40	16 50		n.a.
T 21	10 23	16 8	3 7	20 2	2 31	5 28	1 11	11 11	0 2	0 38	1 11	5 49	2 43	21 56	0 2	10 19	1 34	29 40	6 50	23 42	23 40	16 52		n.a.
F 22	10 44	20 11	1 58	20 19	2 30	5 58	1 9	11 26	0 2	0 44	1 11	5 47	2 43	21 56	0 2	10 19	1 34	29 40	6 51	23 42	23 40	16 54		n.a.
S 23	11 4	22 52	0 43	20 35	2 27	6 28	1 7	11 42	0 1	0 49	1 11	5 46	2 43	21 56	0 2	10 19	1 34	29 40	6 51	23 42	23 40	16 57		n.a.
S 24	11 25	23 59	0n33	20 48	2 24	6 57	1 6	11 57	0 1	0 54	1 11	5 44	2 43	21 55	0 2	10 20	1 34	29 40	6 51	23 42	23 40	16 59		n.a.
M25	11 46	23 34	1 45	20 59	2 20	7 27	1 4	12 12	0 0	1 0	1 11	5 42	2 43	21 55	0 2	10 20	1 34	29 41	6 51	23 42	23 40	17 1		n.a.
T 26	12 6	21 45	2 49	21 8	2 15	7 56	1 3	12 28	0n 1	1 5	1 11	5 41	2 43	21 55	0 3	10 20	1 34	29 41	6 52	23 42	23 40	17 3		n.a.
W27	12 26	18 46	3 43	21 14	2 9	8 25	1 1	12 42	0 1	1 11	1 11	5 39	2 43	21 54	0 3	10 21	1 34	29 41	6 52	23 42	23 40	17 5		n.a.
T 28	12 46	14 56	4 24	21 19	2 2	8 54	0 59	12 57	0 2	1 16	1 11	5 38	2 43	21 54	0 3	10 21	1 34	29 41	6 52	23 42	23 40	17 8		n.a.
F 29	13 5	10 30	4 51	21 21	1 54	9 23	0 57	13 12	0 2	1 21	1 11	5 36	2 43	21 54	0 3	10 21	1 34	29 42	6 52	23 42	23 41	17 10		n.a.
S 30	13n25	5n42	5n 4	21n21	1n46	9n51	0s55	13n27	0n 3	1n27	1s11	5s35	2n43	21s54	0s 3	10n21	1n34	29s42	6s53	23n42	23n41	17s12		n.a.

Julian Day Number = 1649924.5, Delta T = 03h31m36s
Ecliptic obliquity = 23°43'08, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°46'16, Lahiri = - 6°39'15 Julian Calendar 1 Apr. 196 BCE == Greg. Calendar 29 March 196 BCE

The year -195 astronomical counting style corresponds to year 196 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 196 BCE
geocentric

MAY 196 BCE (-195) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 20 44	6♉10'57	9♎42	27♉12	28♈45	5♉52	6♈31	20°R24	7°R40	7°R22	14°R57	1°R52	3♋14	28♏39	n.a.	S 1
M 2	14 24 41	7° 8'17	21°52	27°39	29°58	6°33	6°45	20♎20	7♐38	7♑21	14♏56	1♋42	3°11	28°45	n.a.	M 2
T 3	14 28 38	8° 5'36	3♏55	28° 1	1♉12	7°15	6°58	20°16	7°37	7°20	14°56	1°32	3° 8	28°52	n.a.	T 3
W 4	14 32 34	9° 2'54	15°52	28°19	2°25	7°56	7°11	20°12	7°34	7°20	14°56	1°23	3° 5	28°59	n.a.	W 4
T 5	14 36 31	10° 0'11	27°43	28°33	3°39	8°37	7°24	20° 8	7°32	7°19	14°55	1°16	3° 2	29° 5	n.a.	T 5
F 6	14 40 27	10°57'28	9♐32	28°42	4°52	9°18	7°37	20° 3	7°30	7°19	14°55	1°12	2°58	29°12	n.a.	F 6
S 7	14 44 24	11°54'44	21°20	28°R46	6° 6	9°59	7°50	19°59	7°28	7°18	14°54	1° 9	2°55	29°19	n.a.	S 7
S 8	14 48 20	12°51'59	3♑11	28°45	7°20	10°40	8° 3	19°56	7°26	7°18	14°54	1°D 9	2°52	29°25	n.a.	S 8
M 9	14 52 17	13°49'14	15° 9	28°41	8°33	11°21	8°16	19°52	7°24	7°17	14°54	1°10	2°49	29°32	n.a.	M 9
T 10	14 56 13	14°46'28	27°18	28°31	9°47	12° 2	8°29	19°48	7°22	7°17	14°53	1°11	2°46	29°39	n.a.	T 10
W11	15 0 10	15°43'42	9♒43	28°18	11° 0	12°43	8°42	19°44	7°20	7°16	14°52	1°12	2°43	29°45	n.a.	W11
T 12	15 4 7	16°40'55	22°29	28° 1	12°14	13°24	8°55	19°40	7°17	7°16	14°52	1°R12	2°39	29°52	n.a.	T 12
F 13	15 8 3	17°38'08	5♓39	27°40	13°27	14° 5	9° 7	19°37	7°15	7°16	14°51	1°10	2°36	29°59	n.a.	F 13
S 14	15 12 0	18°35'20	19°18	27°16	14°41	14°46	9°20	19°33	7°13	7°15	14°51	1° 7	2°33	0♐ 5	n.a.	S 14
S 15	15 15 56	19°32'32	3♈25	26°49	15°55	15°27	9°33	19°29	7°11	7°15	14°50	1° 2	2°30	0°12	n.a.	S 15
M16	15 19 53	20°29'44	17°58	26°19	17° 8	16° 8	9°45	19°26	7° 8	7°15	14°49	0°57	2°27	0°19	n.a.	M16
T 17	15 23 49	21°26'55	2♉54	25°48	18°22	16°48	9°58	19°22	7° 6	7°15	14°49	0°51	2°24	0°25	n.a.	T 17
W18	15 27 46	22°24'06	18° 3	25°15	19°36	17°29	10°10	19°19	7° 4	7°14	14°48	0°46	2°20	0°32	n.a.	W18
T 19	15 31 43	23°21'17	3♊16	24°41	20°49	18°10	10°22	19°16	7° 1	7°14	14°47	0°42	2°17	0°39	n.a.	T 19
F 20	15 35 39	24°18'27	18°24	24° 7	22° 3	18°50	10°34	19°13	6°59	7°14	14°47	0°40	2°14	0°45	n.a.	F 20
S 21	15 39 36	25°15'37	3♋16	23°33	23°16	19°31	10°46	19° 9	6°57	7°14	14°46	0°D39	2°11	0°52	n.a.	S 21
S 22	15 43 32	26°12'46	17°47	22°59	24°30	20°11	10°59	19° 6	6°54	7°14	14°45	0°40	2° 8	0°59	n.a.	S 22
M23	15 47 29	27° 9'55	1♌54	22°27	25°44	20°52	11°10	19° 3	6°52	7°D14	14°44	0°41	2° 4	1° 5	n.a.	M23
T 24	15 51 25	28° 7'03	15°35	21°58	26°57	21°32	11°22	19° 0	6°50	7°14	14°43	0°43	2° 1	1°12	n.a.	T 24
W25	15 55 22	29° 4'10	28°52	21°30	28°11	22°12	11°34	18°57	6°47	7°14	14°43	0°R43	1°58	1°19	n.a.	W25
T 26	15 59 18	0♊ 1'17	11♍48	21° 6	29°25	22°53	11°46	18°55	6°45	7°14	14°42	0°43	1°55	1°25	n.a.	T 26
F 27	16 3 15	0°58'23	24°25	20°44	0♊38	23°33	11°58	18°52	6°42	7°14	14°41	0°41	1°52	1°32	n.a.	F 27
S 28	16 7 12	1°55'29	6♎47	20°27	1°52	24°13	12° 9	18°49	6°40	7°15	14°40	0°37	1°49	1°39	n.a.	S 28
S 29	16 11 8	2°52'34	18°57	20°13	3° 6	24°54	12°21	18°47	6°38	7°15	14°39	0°33	1°45	1°45	n.a.	S 29
M30	16 15 5	3°49'40	0♏58	20° 4	4°20	25°34	12°32	18°44	6°35	7°15	14°38	0°29	1°42	1°52	n.a.	M30
T 31	16 19 1	4♊46'45	12♏53	20°D 0	5♊33	26♉14	12♈43	18♎42	6♐33	7♑15	14♏37	0♋25	1♋39	1♐59	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	13n44	0n44	5n 2	21n19	1n36	10n19	0s53	13n41	0n 4	1n32	1s11	5s33	2n43	21s53	0s 3	10n22	1n34	29s42	6s53	23n42	23n41	17s14			n.a.
M 2	14 3	4s12	4 47	21 15	1 25	10 47	0 51	13 56	0 4	1 37	1 11	5 32	2 43	21 53	0 3	10 22	1 34	29 43	6 53	23 42	23 41	17 16			n.a.
T 3	14 22	8 55	4 18	21 9	1 14	11 15	0 50	14 10	0 5	1 42	1 11	5 30	2 42	21 53	0 3	10 22	1 34	29 43	6 53	23 43	23 41	17 18			n.a.
W 4	14 41	13 17	3 39	21 1	1 2	11 43	0 48	14 24	0 5	1 48	1 11	5 29	2 42	21 52	0 3	10 22	1 34	29 43	6 54	23 43	23 41	17 21			n.a.
T 5	14 59	17 7	2 50	20 52	0 49	12 10	0 45	14 38	0 6	1 53	1 11	5 27	2 42	21 52	0 3	10 22	1 34	29 43	6 54	23 43	23 41	17 23			n.a.
F 6	15 17	20 16	1 54	20 40	0 35	12 37	0 43	14 52	0 7	1 58	1 12	5 26	2 42	21 52	0 3	10 22	1 34	29 44	6 54	23 43	23 41	17 25			n.a.
S 7	15 35	22 33	0 53	20 27	0 21	13 4	0 41	15 6	0 7	2 3	1 12	5 25	2 42	21 51	0 3	10 23	1 34	29 44	6 54	23 43	23 41	17 27			n.a.
S 8	15 53	23 52	0s11	20 12	0 6	13 30	0 39	15 19	0 8	2 8	1 12	5 23	2 42	21 51	0 3	10 23	1 34	29 44	6 55	23 43	23 41	17 29			n.a.
M 9	16 10	24 5	1 15	19 56	0s10	13 56	0 37	15 33	0 8	2 13	1 12	5 22	2 42	21 51	0 3	10 23	1 34	29 45	6 55	23 43	23 41	17 31			n.a.
T 10	16 27	23 11	2 17	19 38	0 26	14 22	0 35	15 46	0 9	2 18	1 12	5 20	2 42	21 50	0 3	10 23	1 34	29 45	6 55	23 43	23 41	17 34			n.a.
W11	16 44	21 8	3 14	19 19	0 43	14 47	0 33	15 59	0 10	2 23	1 12	5 19	2 41	21 50	0 3	10 23	1 34	29 45	6 55	23 43	23 41	17 36			n.a.
T 12	17 1	17 59	4 2	18 59	0 59	15 12	0 30	16 12	0 10	2 28	1 12	5 18	2 41	21 50	0 3	10 23	1 34	29 46	6 56	23 43	23 42	17 38			n.a.
F 13	17 17	13 52	4 40	18 38	1 16	15 37	0 28	16 25	0 11	2 33	1 12	5 17	2 41	21 49	0 3	10 23	1 34	29 46	6 56	23 43	23 42	17 40			n.a.
S 14	17 33	8 56	5 3	18 16	1 33	16 1	0 26	16 38	0 11	2 38	1 12	5 15	2 41	21 49	0 3	10 23	1 33	29 46	6 56	23 43	23 42	17 42			n.a.
S 15	17 49	3 21	5 10	17 53	1 50	16 25	0 24	16 51	0 12	2 43	1 12	5 14	2 41	21 48	0 3	10 23	1 33	29 46	6 56	23 43	23 42	17 44			n.a.
M16	18 5	2n34	4 57	17 30	2 7	16 48	0 21	17 3	0 13	2 48	1 12	5 13	2 41	21 48	0 3	10 24	1 33	29 47	6 56	23 43	23 42	17 46			n.a.
T 17	18 20	8 30	4 23	17 7	2 23	17 11	0 19	17 16	0 13	2 53	1 13	5 12	2 40	21 48	0 3	10 24	1 33	29 47	6 57	23 43	23 42	17 48			n.a.
W18	18 35	14 2	3 31	16 45	2 38	17 34	0 17	17 28	0 14	2 58	1 13	5 11	2 40	21 47	0 3	10 24	1 33	29 47	6 57	23 43	23 42	17 51			n.a.
T 19	18 50	18 42	2 24	16 22	2 53	17 56	0 14	17 40	0 14	3 2	1 13	5 10	2 40	21 47	0 3	10 24	1 33	29 48	6 57	23 43	23 42	17 53			n.a.
F 20	19 4	22 6	1 6	16 0	3 7	18 18	0 12	17 52	0 15	3 7	1 13	5 9	2 40	21 47	0 3	10 24	1 33	29 48	6 57	23 43	23 42	17 55			n.a.
S 21	19 18	23 55	0n14	15 40	3 19	18 39	0 10	18 4	0 16	3 12	1 13	5 8	2 40	21 46	0 3	10 24	1 33	29 48	6 58	23 43	23 42	17 57			n.a.
S 22	19 32	24 3	1 32	15 20	3 31	19 0	0 7	18 15	0 16	3 16	1 13	5 7	2 39	21 46	0 3	10 24	1 33	29 49	6 58	23 43	23 42	17 59			n.a.
M23	19 45	22 36	2 42	15 2	3 42	19 20	0 5	18 27	0 17	3 21	1 13	5 6	2 39	21 45	0 3	10 23	1 33	29 49	6 58	23 43	23 42	18 1			n.a.
T 24	19 58	19 52	3 41	14 45	3 51	19 40	0 3	18 38	0 17	3 26	1 13	5 5	2 39	21 45	0 3	10 23	1 33	29 49	6 58	23 43	23 42	18 3			n.a.
W25	20 11	16 9	4 26	14 31	3 59	19 59	0 0	18 49	0 18	3 30	1 13	5 4	2 39	21 45	0 3	10 23	1 33	29 50	6 58	23 43	23 42	18 5			n.a.
T 26	20 23	11 46	4 56	14 18	4 5	20 18	0n 2	19 0	0 18	3 35	1 14	5 3	2 39	21 44	0 3	10 23	1 33	29 50	6 59	23 43	23 42	18 7			n.a.
F 27	20 36	7 0	5 11	14 8	4 10	20 36	0 5	19 11	0 19	3 39	1 14	5 2	2 38	21 44	0 3	10 23	1 33	29 50	6 59	23 43	23 42	18 10			n.a.
S 28	20 47	2 2	5 11	14 0	4 14	20 53	0 7	19 22	0 20	3 44	1 14	5 1	2 38	21 43	0 3	10 23	1 33	29 50	6 59	23 43	23 42	18 12			n.a.
S 29	20 59	2s56	4 57	13 54	4 16	21 10	0 9	19 32	0 20	3 48	1 14	5 0	2 38	21 43	0 3	10 23	1 33	29 51	6 59	23 43	23 42	18 14			n.a.
M30	21 10	7 44	4 30	13 51	4 17	21 27	0 12	19 43	0 21	3 52	1 14	5 0	2 38	21 43	0 3	10 23	1 33	29 51	6 59	23 43	23 42	18 16			n.a.
T 31	21n20	12s13	3n52	13n50	4s17	21n43	0n14	19n53	0n21	3n57	1s14	4s59	2n38	21s42	0s 3	10n23	1n33	29s51	7s 0	23n43	23n42	18s18			n.a.

Julian Day Number = 1649954.5, Delta T = 03h31m35s
Ecliptic obliquity = 23°43'08, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°46'12, Lahiri = - 6°39'11 Julian Calendar 1 May 196 BCE == Greg. Calendar 28 Apr. 196 BCE

The year -195 astronomical counting style corresponds to year 196 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 196 BCE
geocentric

JUNE 196 BCE (-195) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 22 58	5♊43'50	24♏44	20♉ 0	6♊47	26♉54	12♈54	18°R39	6°R30	7♍16	14°R36	0°R21	1♋36	2♐ 5	n.a.	W 1
T 2	16 26 54	6°40'55	6♐33	20° 5	8° 1	27°34	13° 6	18♎37	6♐28	7°16	14♑35	0♋18	1°33	2°12	n.a.	T 2
F 3	16 30 51	7°38'00	18°22	20°15	9°14	28°14	13°17	18°35	6°25	7°16	14°34	0°16	1°30	2°19	n.a.	F 3
S 4	16 34 47	8°35'05	0♑14	20°30	10°28	28°54	13°28	18°33	6°23	7°17	14°33	0°D16	1°26	2°25	n.a.	S 4
S 5	16 38 44	9°32'11	12°11	20°50	11°42	29°34	13°38	18°31	6°20	7°17	14°32	0°16	1°23	2°32	n.a.	S 5
M 6	16 42 41	10°29'16	24°15	21°15	12°56	0♊14	13°49	18°29	6°18	7°17	14°31	0°17	1°20	2°39	n.a.	M 6
T 7	16 46 37	11°26'22	6♒30	21°45	14° 9	0°54	14° 0	18°27	6°16	7°18	14°30	0°19	1°17	2°45	n.a.	T 7
W 8	16 50 34	12°23'29	18°59	22°20	15°23	1°33	14°10	18°25	6°13	7°18	14°29	0°20	1°14	2°52	n.a.	W 8
T 9	16 54 30	13°20'36	1♓46	23° 0	16°37	2°13	14°21	18°24	6°11	7°19	14°28	0°21	1°10	2°59	n.a.	T 9
F 10	16 58 27	14°17'43	14°55	23°45	17°51	2°53	14°31	18°22	6° 8	7°20	14°26	0°R22	1° 7	3° 5	n.a.	F 10
S 11	17 2 23	15°14'51	28°27	24°34	19° 4	3°33	14°41	18°21	6° 6	7°20	14°25	0°21	1° 4	3°12	n.a.	S 11
S 12	17 6 20	16°12'00	12♈25	25°29	20°18	4°12	14°51	18°19	6° 4	7°21	14°24	0°20	1° 1	3°19	n.a.	S 12
M13	17 10 16	17° 9'09	26°47	26°28	21°32	4°52	15° 1	18°18	6° 1	7°21	14°23	0°19	0°58	3°25	n.a.	M13
T 14	17 14 13	18° 6'19	11♉31	27°32	22°46	5°32	15°11	18°17	5°59	7°22	14°22	0°17	0°55	3°32	n.a.	T 14
W15	17 18 10	19° 3'30	26°31	28°41	24° 0	6°11	15°21	18°16	5°56	7°23	14°21	0°16	0°51	3°39	n.a.	W15
T 16	17 22 6	20° 0'41	11♊39	29°54	25°14	6°51	15°31	18°15	5°54	7°24	14°19	0°15	0°48	3°45	n.a.	T 16
F 17	17 26 3	20°57'53	26°46	1♊12	26°27	7°30	15°40	18°14	5°52	7°24	14°18	0°D15	0°45	3°52	n.a.	F 17
S 18	17 29 59	21°55'06	11♋43	2°34	27°41	8°10	15°50	18°13	5°50	7°25	14°17	0°15	0°42	3°59	n.a.	S 18
S 19	17 33 56	22°52'19	26°22	4° 0	28°55	8°49	15°59	18°12	5°47	7°26	14°16	0°15	0°39	4° 5	n.a.	S 19
M20	17 37 52	23°49'32	10♌38	5°30	0♌ 9	9°28	16° 8	18°11	5°45	7°27	14°14	0°16	0°36	4°12	n.a.	M20
T 21	17 41 49	24°46'46	24°28	7° 5	1°23	10° 8	16°17	18°11	5°43	7°28	14°13	0°16	0°32	4°19	n.a.	T 21
W22	17 45 46	25°44'00	7♍52	8°43	2°37	10°47	16°26	18°10	5°40	7°29	14°12	0°17	0°29	4°25	n.a.	W22
T 23	17 49 42	26°41'14	20°51	10°26	3°51	11°26	16°35	18°10	5°38	7°30	14°11	0°17	0°26	4°32	n.a.	T 23
F 24	17 53 39	27°38'29	3♎28	12°11	5° 5	12° 6	16°44	18°10	5°36	7°31	14° 9	0°R17	0°23	4°38	n.a.	F 24
S 25	17 57 35	28°35'45	15°48	14° 0	6°19	12°45	16°52	18°10	5°34	7°32	14° 8	0°17	0°20	4°45	n.a.	S 25
S 26	18 1 32	29°33'01	27°54	15°52	7°32	13°24	17° 1	18°D10	5°32	7°33	14° 7	0°17	0°16	4°52	n.a.	S 26
M27	18 5 28	0♋30'17	9♏51	17°47	8°46	14° 3	17° 9	18°10	5°30	7°34	14° 5	0°D17	0°13	4°58	n.a.	M27
T 28	18 9 25	1°27'35	21°41	19°44	10° 0	14°42	17°17	18°10	5°27	7°35	14° 4	0°17	0°10	5° 5	n.a.	T 28
W29	18 13 21	2°24'53	3♐30	21°43	11°14	15°21	17°25	18°10	5°25	7°36	14° 3	0°17	0° 7	5°12	n.a.	W29
T 30	18 17 18	3♋22'12	15♐20	23♊44	12♋28	16♊ 0	17♈33	18♎10	5♐23	7♍37	14♑ 1	0♋17	0♋ 4	5♐18	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21n31	16s13	3n 3	13n51	4s15	21n58	0n16	20n 3	0n22	4n 1	1s14	4s58	2n37	21s42	0s 3	10n23	1n33	29s52	7s 0	23n43	23n43	18s20		n.a.
T 2	21 41	19 34	2 7	13 55	4 12	22 12	0 19	20 13	0 22	4 5	1 14	4 58	2 37	21 41	0 3	10 22	1 33	29 52	7 0	23 43	23 43	18 22		n.a.
F 3	21 50	22 7	1 5	14 2	4 8	22 26	0 21	20 22	0 23	4 9	1 15	4 57	2 37	21 41	0 3	10 22	1 33	29 52	7 0	23 43	23 43	18 24		n.a.
S 4	22 0	23 43	0 0	14 11	4 3	22 40	0 23	20 32	0 24	4 14	1 15	4 56	2 37	21 40	0 3	10 22	1 33	29 53	7 0	23 43	23 43	18 26		n.a.
S 5	22 8	24 14	1s 5	14 22	3 57	22 52	0 25	20 41	0 24	4 18	1 15	4 56	2 36	21 40	0 3	10 22	1 33	29 53	7 1	23 43	23 43	18 28		n.a.
M 6	22 17	23 38	2 9	14 35	3 50	23 4	0 28	20 50	0 25	4 22	1 15	4 55	2 36	21 40	0 3	10 22	1 32	29 53	7 1	23 43	23 43	18 30		n.a.
T 7	22 25	21 53	3 7	14 50	3 42	23 16	0 30	20 59	0 25	4 26	1 15	4 55	2 36	21 39	0 3	10 21	1 32	29 54	7 1	23 43	23 43	18 32		n.a.
W 8	22 33	19 4	3 58	15 8	3 33	23 26	0 32	21 8	0 26	4 30	1 15	4 54	2 36	21 39	0 3	10 21	1 32	29 54	7 1	23 43	23 43	18 34		n.a.
T 9	22 40	15 17	4 38	15 27	3 24	23 36	0 34	21 17	0 26	4 34	1 15	4 54	2 35	21 38	0 3	10 21	1 32	29 54	7 1	23 43	23 43	18 36		n.a.
F 10	22 47	10 41	5 5	15 48	3 14	23 46	0 37	21 25	0 27	4 38	1 16	4 54	2 35	21 38	0 3	10 21	1 32	29 54	7 2	23 43	23 43	18 38		n.a.
S 11	22 53	5 27	5 16	16 10	3 3	23 54	0 39	21 34	0 28	4 42	1 16	4 53	2 35	21 38	0 3	10 20	1 32	29 55	7 2	23 43	23 43	18 41		n.a.
S 12	23 0	0n13	5 10	16 34	2 52	24 2	0 41	21 42	0 28	4 45	1 16	4 53	2 35	21 37	0 3	10 20	1 32	29 55	7 2	23 43	23 43	18 43		n.a.
M13	23 5	6 2	4 44	16 59	2 41	24 9	0 43	21 50	0 29	4 49	1 16	4 53	2 34	21 37	0 3	10 20	1 32	29 55	7 2	23 43	23 43	18 45		n.a.
T 14	23 11	11 41	3 58	17 26	2 28	24 16	0 45	21 57	0 29	4 53	1 16	4 53	2 34	21 36	0 3	10 20	1 32	29 56	7 2	23 43	23 43	18 47		n.a.
W15	23 16	16 45	2 56	17 53	2 16	24 22	0 47	22 5	0 30	4 57	1 16	4 52	2 34	21 36	0 3	10 19	1 32	29 56	7 2	23 43	23 43	18 49		n.a.
T 16	23 20	20 46	1 41	18 21	2 3	24 27	0 49	22 12	0 30	5 0	1 16	4 52	2 34	21 36	0 3	10 19	1 32	29 56	7 3	23 43	23 43	18 51		n.a.
F 17	23 24	23 21	0 19	18 50	1 50	24 31	0 51	22 19	0 31	5 4	1 17	4 52	2 33	21 35	0 3	10 19	1 32	29 56	7 3	23 43	23 43	18 53		n.a.
S 18	23 28	24 15	1n 3	19 20	1 37	24 35	0 53	22 26	0 31	5 7	1 17	4 52	2 33	21 35	0 3	10 18	1 32	29 57	7 3	23 43	23 43	18 55		n.a.
S 19	23 31	23 25	2 20	19 49	1 24	24 38	0 55	22 33	0 32	5 11	1 17	4 52	2 33	21 34	0 3	10 18	1 32	29 57	7 3	23 43	23 43	18 57		n.a.
M20	23 34	21 4	3 26	20 19	1 11	24 40	0 57	22 40	0 33	5 14	1 17	4 52	2 33	21 34	0 3	10 18	1 32	29 57	7 3	23 43	23 43	18 59		n.a.
T 21	23 37	17 34	4 18	20 48	0 58	24 41	0 58	22 46	0 33	5 17	1 17	4 52	2 32	21 34	0 3	10 17	1 32	29 58	7 3	23 43	23 43	19 1		n.a.
W22	23 39	13 15	4 54	21 17	0 45	24 42	1 0	22 53	0 34	5 21	1 17	4 52	2 32	21 33	0 3	10 17	1 32	29 58	7 3	23 43	23 43	19 3		n.a.
T 23	23 41	8 27	5 13	21 45	0 32	24 42	1 2	22 59	0 34	5 24	1 18	4 52	2 32	21 33	0 3	10 16	1 32	29 58	7 4	23 43	23 43	19 5		n.a.
F 24	23 42	3 27	5 17	22 12	0 19	24 41	1 4	23 5	0 35	5 27	1 18	4 52	2 31	21 32	0 3	10 16	1 32	29 58	7 4	23 43	23 43	19 7		n.a.
S 25	23 43	1s35	5 6	22 38	0 7	24 39	1 5	23 10	0 35	5 30	1 18	4 53	2 31	21 32	0 3	10 16	1 32	29 59	7 4	23 43	23 43	19 9		n.a.
S 26	23 43	6 28	4 42	23 3	0n 5	24 37	1 7	23 16	0 36	5 33	1 18	4 53	2 31	21 32	0 3	10 15	1 32	29 59	7 4	23 43	23 43	19 11		n.a.
M27	23 43	11 4	4 5	23 26	0 17	24 34	1 8	23 21	0 36	5 37	1 18	4 53	2 31	21 31	0 3	10 15	1 32	29 59	7 4	23 43	23 43	19 13		n.a.
T 28	23 43	15 12	3 18	23 47	0 28	24 30	1 10	23 26	0 37	5 39	1 19	4 53	2 30	21 31	0 3	10 14	1 32	30 0	7 4	23 43	23 43	19 15		n.a.
W29	23 42	18 45	2 23	24 5	0 38	24 25	1 11	23 31	0 37	5 42	1 19	4 54	2 30	21 31	0 3	10 14	1 32	30 0	7 4	23 43	23 43	19 17		n.a.
T 30	23n41	21s32	1n22	24n22	0n48	24n20	1n13	23n36	0n38	5n45	1s19	4s54	2n30	21s30	0s 3	10n13	1n31	30s 0	7s 4	23n43	23n43	19s19		n.a.

Julian Day Number = 1649985.5, Delta T = 03h31m34s
Ecliptic obliquity = 23°43'08, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°46'08, Lahiri = - 6°39'07 Julian Calendar 1 June 196 BCE == Greg. Calendar 29 May 196 BCE

The year -195 astronomical counting style corresponds to year 196 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 196 BCE
geocentric

JULY 196 BCE (-195) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 21 15	4♋19'31	27♐13	25♊47	13♋42	16♊39	17♈41	18♎11	5°R21	7♍39	14°R 0	0°R17	0♋ 1	5♐25	n.a.	F 1
S 2	18 25 11	5°16'52	9♑12	27°50	14°56	17°18	17°49	18°11	5♐19	7°40	13♑59	0♋17	29♊57	5°32	n.a.	S 2
S 3	18 29 8	6°14'14	21°18	29°55	16°10	17°57	17°56	18°12	5°17	7°41	13°57	0°17	29°54	5°38	n.a.	S 3
M 4	18 33 4	7°11'37	3♒35	2♋ 0	17°24	18°36	18° 3	18°13	5°15	7°42	13°56	0°16	29°51	5°45	n.a.	M 4
T 5	18 37 1	8° 9'01	16° 3	4° 5	18°38	19°15	18°11	18°13	5°13	7°44	13°55	0°15	29°48	5°52	n.a.	T 5
W 6	18 40 57	9° 6'26	28°44	6°10	19°52	19°54	18°18	18°14	5°11	7°45	13°53	0°14	29°45	5°58	n.a.	W 6
T 7	18 44 54	10° 3'53	11♓41	8°14	21° 6	20°33	18°25	18°15	5°10	7°46	13°52	0°13	29°42	6° 5	n.a.	T 7
F 8	18 48 50	11° 1'21	24°53	10°18	22°20	21°11	18°31	18°16	5° 8	7°48	13°51	0°12	29°38	6°12	n.a.	F 8
S 9	18 52 47	11°58'50	8♈25	12°22	23°34	21°50	18°38	18°18	5° 6	7°49	13°49	0°D12	29°35	6°18	n.a.	S 9
S 10	18 56 44	12°56'21	22°15	14°24	24°48	22°29	18°44	18°19	5° 4	7°51	13°48	0°12	29°32	6°25	n.a.	S 10
M11	19 0 40	13°53'54	6♉24	16°26	26° 2	23° 8	18°51	18°20	5° 3	7°52	13°47	0°13	29°29	6°32	n.a.	M11
T 12	19 4 37	14°51'28	20°50	18°26	27°16	23°46	18°57	18°22	5° 1	7°54	13°45	0°14	29°26	6°38	n.a.	T 12
W13	19 8 33	15°49'04	5♊31	20°25	28°30	24°25	19° 3	18°23	4°59	7°55	13°44	0°15	29°22	6°45	n.a.	W13
T 14	19 12 30	16°46'42	20°20	22°23	29°44	25° 3	19° 8	18°25	4°58	7°57	13°42	0°16	29°19	6°52	n.a.	T 14
F 15	19 16 26	17°44'21	5♋12	24°19	0♌58	25°42	19°14	18°27	4°56	7°58	13°41	0°R16	29°16	6°58	n.a.	F 15
S 16	19 20 23	18°42'01	20° 0	26°14	2°12	26°21	19°20	18°29	4°54	8° 0	13°40	0°15	29°13	7° 5	n.a.	S 16
S 17	19 24 20	19°39'43	4♌35	28° 8	3°26	26°59	19°25	18°31	4°53	8° 1	13°38	0°13	29°10	7°12	n.a.	S 17
M18	19 28 16	20°37'26	18°51	0♌ 0	4°40	27°38	19°30	18°33	4°52	8° 3	13°37	0°11	29° 7	7°18	n.a.	M18
T 19	19 32 13	21°35'10	2♍45	1°51	5°55	28°16	19°35	18°35	4°50	8° 5	13°36	0° 8	29° 3	7°25	n.a.	T 19
W20	19 36 9	22°32'56	16°13	3°40	7° 9	28°54	19°40	18°37	4°49	8° 6	13°34	0° 5	29° 0	7°32	n.a.	W20
T 21	19 40 6	23°30'43	29°16	5°29	8°23	29°33	19°44	18°39	4°47	8° 8	13°33	0° 2	28°57	7°38	n.a.	T 21
F 22	19 44 2	24°28'31	11♎56	7°15	9°37	0♋11	19°49	18°42	4°46	8°10	13°32	0° 1	28°54	7°45	n.a.	F 22
S 23	19 47 59	25°26'21	24°17	9° 1	10°51	0°49	19°53	18°44	4°45	8°11	13°30	0°D 0	28°51	7°52	n.a.	S 23
S 24	19 51 55	26°24'11	6♏23	10°44	12° 5	1°28	19°57	18°47	4°44	8°13	13°29	0° 1	28°48	7°58	n.a.	S 24
M25	19 55 52	27°22'04	18°18	12°27	13°19	2° 6	20° 1	18°49	4°42	8°15	13°28	0° 2	28°44	8° 5	n.a.	M25
T 26	19 59 48	28°19'57	0♐ 8	14° 8	14°33	2°44	20° 5	18°52	4°41	8°17	13°26	0° 4	28°41	8°12	n.a.	T 26
W27	20 3 45	29°17'52	11°56	15°48	15°47	3°22	20° 8	18°55	4°40	8°19	13°25	0° 5	28°38	8°18	n.a.	W27
T 28	20 7 42	0♌15'49	23°48	17°27	17° 1	4° 1	20°11	18°58	4°39	8°20	13°24	0° 6	28°35	8°25	n.a.	T 28
F 29	20 11 38	1°13'47	5♑47	19° 4	18°15	4°39	20°15	19° 1	4°38	8°22	13°23	0°R 6	28°32	8°32	n.a.	F 29
S 30	20 15 35	2°11'47	17°56	20°40	19°29	5°17	20°18	19° 4	4°37	8°24	13°21	0° 5	28°28	8°38	n.a.	S 30
S 31	20 19 31	3♌ 9'49	0♒16	22♌14	20♌43	5♋55	20♈20	19♎ 7	4♐36	8♍26	13♑20	0♋ 2	28♊25	8♐45	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23n39	23s24	0n17	24n36	0n57	24n14	1n14	23n41	0n39	5n48	1s19	4s55	2n30	21s30	0s 3	10n13	1n31	30s 0	7s 4	23n43	23n43	19s21		n.a.
S 2	23 37	24 13	0s49	24 47	1 5	24 7	1 15	23 45	0 39	5 51	1 19	4 55	2 29	21 29	0 3	10 12	1 31	30 1	7 5	23 43	23 43	19 23		n.a.
S 3	23 34	23 53	1 54	24 56	1 13	24 0	1 16	23 49	0 40	5 54	1 20	4 55	2 29	21 29	0 3	10 12	1 31	30 1	7 5	23 43	23 43	19 25		n.a.
M 4	23 31	22 24	2 54	25 2	1 20	23 51	1 18	23 53	0 40	5 56	1 20	4 56	2 29	21 29	0 3	10 11	1 31	30 1	7 5	23 43	23 43	19 27		n.a.
T 5	23 28	19 49	3 48	25 5	1 26	23 42	1 19	23 57	0 41	5 59	1 20	4 57	2 28	21 28	0 3	10 11	1 31	30 1	7 5	23 43	23 43	19 29		n.a.
W 6	23 24	16 16	4 30	25 6	1 31	23 33	1 20	24 1	0 41	6 1	1 20	4 57	2 28	21 28	0 3	10 10	1 31	30 2	7 5	23 43	23 43	19 31		n.a.
T 7	23 20	11 53	5 0	25 3	1 36	23 22	1 21	24 4	0 42	6 4	1 20	4 58	2 28	21 28	0 3	10 10	1 31	30 2	7 5	23 43	23 43	19 32		n.a.
F 8	23 15	6 52	5 15	24 58	1 40	23 11	1 22	24 8	0 42	6 6	1 21	4 58	2 28	21 27	0 3	10 9	1 31	30 2	7 5	23 43	23 43	19 34		n.a.
S 9	23 10	1 25	5 14	24 50	1 43	22 59	1 23	24 11	0 43	6 8	1 21	4 59	2 27	21 27	0 3	10 8	1 31	30 2	7 5	23 43	23 43	19 36		n.a.
S 10	23 5	4n13	4 54	24 40	1 45	22 47	1 23	24 13	0 43	6 11	1 21	5 0	2 27	21 27	0 3	10 8	1 31	30 2	7 5	23 43	23 43	19 38		n.a.
M11	22 59	9 47	4 16	24 27	1 47	22 34	1 24	24 16	0 44	6 13	1 21	5 1	2 27	21 26	0 3	10 7	1 31	30 3	7 5	23 43	23 43	19 40		n.a.
T 12	22 53	14 56	3 21	24 13	1 48	22 20	1 25	24 19	0 44	6 15	1 21	5 1	2 27	21 26	0 3	10 7	1 31	30 3	7 5	23 43	23 43	19 42		n.a.
W13	22 46	19 18	2 13	23 55	1 48	22 6	1 26	24 21	0 45	6 17	1 22	5 2	2 26	21 26	0 3	10 6	1 31	30 3	7 5	23 43	23 43	19 44		n.a.
T 14	22 39	22 27	0 55	23 36	1 47	21 51	1 26	24 23	0 45	6 19	1 22	5 3	2 26	21 26	0 3	10 6	1 31	30 3	7 6	23 43	23 43	19 46		n.a.
F 15	22 32	24 4	0n27	23 15	1 47	21 35	1 27	24 25	0 46	6 21	1 22	5 4	2 26	21 25	0 3	10 5	1 31	30 4	7 6	23 43	23 43	19 48		n.a.
S 16	22 24	23 58	1 47	22 52	1 45	21 19	1 27	24 27	0 47	6 23	1 22	5 5	2 26	21 25	0 3	10 4	1 31	30 4	7 6	23 43	23 43	19 50		n.a.
S 17	22 16	22 13	2 58	22 28	1 43	21 2	1 27	24 28	0 47	6 25	1 22	5 6	2 25	21 25	0 3	10 4	1 31	30 4	7 6	23 43	23 43	19 52		n.a.
M18	22 7	19 6	3 57	22 1	1 41	20 44	1 28	24 29	0 48	6 27	1 23	5 7	2 25	21 25	0 3	10 3	1 31	30 4	7 6	23 43	23 43	19 54		n.a.
T 19	21 58	14 57	4 40	21 34	1 38	20 26	1 28	24 31	0 48	6 28	1 23	5 8	2 25	21 24	0 3	10 2	1 31	30 4	7 6	23 43	23 43	19 56		n.a.
W20	21 48	10 11	5 6	21 5	1 34	20 7	1 28	24 31	0 49	6 30	1 23	5 9	2 24	21 24	0 3	10 2	1 31	30 5	7 6	23 43	23 43	19 57		n.a.
T 21	21 39	5 6	5 15	20 35	1 30	19 48	1 28	24 32	0 49	6 32	1 23	5 10	2 24	21 24	0 3	10 1	1 31	30 5	7 6	23 43	23 43	19 59		n.a.
F 22	21 29	0s 3	5 8	20 3	1 26	19 28	1 28	24 33	0 50	6 33	1 23	5 12	2 24	21 24	0 3	10 0	1 31	30 5	7 6	23 43	23 43	20 1		n.a.
S 23	21 18	5 5	4 47	19 31	1 21	19 8	1 28	24 33	0 50	6 34	1 24	5 13	2 24	21 23	0 3	10 0	1 31	30 5	7 6	23 43	23 43	20 3		n.a.
S 24	21 7	9 49	4 14	18 58	1 16	18 47	1 28	24 33	0 51	6 36	1 24	5 14	2 23	21 23	0 3	9 59	1 31	30 5	7 6	23 43	23 43	20 5		n.a.
M25	20 56	14 7	3 30	18 24	1 11	18 25	1 28	24 33	0 51	6 37	1 24	5 15	2 23	21 23	0 3	9 58	1 31	30 5	7 6	23 43	23 43	20 7		n.a.
T 26	20 44	17 51	2 37	17 49	1 5	18 3	1 28	24 33	0 52	6 38	1 24	5 16	2 23	21 23	0 3	9 58	1 31	30 6	7 6	23 43	23 43	20 9		n.a.
W27	20 32	20 52	1 38	17 13	0 59	17 41	1 27	24 33	0 52	6 39	1 25	5 18	2 23	21 23	0 3	9 57	1 31	30 6	7 6	23 43	23 43	20 11		n.a.
T 28	20 20	23 0	0 35	16 37	0 53	17 18	1 27	24 32	0 53	6 40	1 25	5 19	2 22	21 22	0 3	9 56	1 31	30 6	7 6	23 43	23 43	20 13		n.a.
F 29	20 7	24 6	0s31	16 1	0 46	16 54	1 27	24 31	0 53	6 41	1 25	5 21	2 22	21 22	0 3	9 55	1 31	30 6	7 6	23 43	23 43	20 14		n.a.
S 30	19 54	24 5	1 36	15 24	0 40	16 31	1 26	24 30	0 54	6 42	1 25	5 22	2 22	21 22	0 3	9 55	1 31	30 6	7 6	23 43	23 43	20 16		n.a.
S 31	19n41	22s53	2s37	14n46	0n33	16n 6	1n26	24n29	0n54	6n43	1s25	5s23	2n22	21s22	0s 3	9n54	1n31	30s 6	7s 6	23n43	23n43	20s18		n.a.

Julian Day Number = 1650015.5, Delta T = 03h31m33s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°46'03, Lahiri = - 6°39'03 Julian Calendar 1 July 196 BCE == Greg. Calendar 28 June 196 BCE

The year -195 astronomical counting style corresponds to year 196 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 196 BCE
geocentric

AUGUST 196 BCE (-195) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 23 28	4♌ 7'52	12♒49	23♌48	21♌57	6♋33	20♈23	19♎11	4°R36	8♏28	13°R19	29°R58	28♊22	8♐51	n.a.	M 1
T 2	20 27 24	5° 5'57	25°37	25°20	23°11	7°11	20°25	19°14	4♐35	8°30	13♑17	29♊52	28°19	8°58	n.a.	T 2
W 3	20 31 21	6° 4'04	8♓38	26°50	24°25	7°49	20°28	19°17	4°34	8°32	13°16	29°46	28°16	9° 5	n.a.	W 3
T 4	20 35 17	7° 2'12	21°52	28°20	25°40	8°27	20°30	19°21	4°33	8°34	13°15	29°40	28°13	9°11	n.a.	T 4
F 5	20 39 14	8° 0'23	5♈19	29°48	26°54	9° 5	20°31	19°24	4°33	8°36	13°14	29°35	28° 9	9°18	n.a.	F 5
S 6	20 43 11	8°58'36	18°58	1♏15	28° 8	9°43	20°33	19°28	4°32	8°38	13°13	29°32	28° 6	9°25	n.a.	S 6
S 7	20 47 7	9°56'51	2♉49	2°40	29°22	10°21	20°34	19°32	4°31	8°40	13°11	29°30	28° 3	9°31	n.a.	S 7
M 8	20 51 4	10°55'09	16°50	4° 5	0♏36	10°58	20°36	19°36	4°31	8°42	13°10	29°D30	28° 0	9°38	n.a.	M 8
T 9	20 55 0	11°53'28	1♊ 2	5°27	1°50	11°36	20°37	19°40	4°30	8°44	13° 9	29°31	27°57	9°45	n.a.	T 9
W10	20 58 57	12°51'50	15°21	6°49	3° 4	12°14	20°38	19°44	4°30	8°46	13° 8	29°32	27°53	9°51	n.a.	W10
T 11	21 2 53	13°50'14	29°47	8° 9	4°18	12°52	20°38	19°48	4°30	8°48	13° 7	29°R33	27°50	9°58	n.a.	T 11
F 12	21 6 50	14°48'41	14♋15	9°27	5°32	13°30	20°39	19°52	4°29	8°50	13° 6	29°32	27°47	10° 5	n.a.	F 12
S 13	21 10 46	15°47'09	28°41	10°44	6°46	14° 7	20°39	19°56	4°29	8°52	13° 5	29°29	27°44	10°11	n.a.	S 13
S 14	21 14 43	16°45'40	12♌59	12° 0	8° 0	14°45	20°R39	20° 0	4°29	8°54	13° 3	29°24	27°41	10°18	n.a.	S 14
M15	21 18 40	17°44'12	27° 3	13°13	9°14	15°23	20°39	20° 5	4°29	8°56	13° 2	29°17	27°38	10°25	n.a.	M15
T 16	21 22 36	18°42'47	10♏49	14°25	10°28	16° 0	20°38	20° 9	4°29	8°58	13° 1	29° 9	27°34	10°31	n.a.	T 16
W17	21 26 33	19°41'23	24°15	15°35	11°42	16°38	20°38	20°14	4°28	9° 1	13° 0	29° 0	27°31	10°38	n.a.	W17
T 18	21 30 29	20°40'01	7♎17	16°43	12°56	17°15	20°37	20°18	4°D28	9° 3	12°59	28°53	27°28	10°45	n.a.	T 18
F 19	21 34 26	21°38'41	19°58	17°49	14°10	17°53	20°36	20°23	4°29	9° 5	12°58	28°46	27°25	10°51	n.a.	F 19
S 20	21 38 22	22°37'23	2♏19	18°53	15°24	18°31	20°35	20°28	4°29	9° 7	12°57	28°42	27°22	10°58	n.a.	S 20
S 21	21 42 19	23°36'07	14°25	19°55	16°38	19° 8	20°33	20°32	4°29	9° 9	12°56	28°40	27°19	11° 5	n.a.	S 21
M22	21 46 15	24°34'52	26°20	20°54	17°52	19°45	20°32	20°37	4°29	9°11	12°55	28°D39	27°15	11°11	n.a.	M22
T 23	21 50 12	25°33'40	8♐10	21°50	19° 6	20°23	20°30	20°42	4°29	9°13	12°54	28°40	27°12	11°18	n.a.	T 23
W24	21 54 9	26°32'29	19°59	22°44	20°20	21° 0	20°28	20°47	4°29	9°16	12°53	28°41	27° 9	11°24	n.a.	W24
T 25	21 58 5	27°31'20	1♑53	23°34	21°34	21°38	20°26	20°52	4°30	9°18	12°53	28°R41	27° 6	11°31	n.a.	T 25
F 26	22 2 2	28°30'13	13°56	24°21	22°48	22°15	20°24	20°57	4°30	9°20	12°52	28°40	27° 3	11°38	n.a.	F 26
S 27	22 5 58	29°29'08	26°13	25° 5	24° 2	22°52	20°21	21° 3	4°31	9°22	12°51	28°36	26°59	11°44	n.a.	S 27
S 28	22 9 55	0♏28'05	8♒46	25°44	25°16	23°29	20°18	21° 8	4°31	9°24	12°50	28°30	26°56	11°51	n.a.	S 28
M29	22 13 51	1°27'04	21°37	26°19	26°30	24° 7	20°15	21°13	4°32	9°27	12°49	28°22	26°53	11°58	n.a.	M29
T 30	22 17 48	2°26'05	4♓46	26°50	27°43	24°44	20°12	21°19	4°32	9°29	12°48	28°12	26°50	12° 4	n.a.	T 30
W31	22 21 44	3♏25'08	18♓11	27♏15	28♏57	25♋21	20♈ 9	21♎24	4♐33	9♏31	12♑48	28♊ 1	26♊47	12♐11	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	19n27	20s33	3s32	14n 9	0n25	15n41	1n25	24n28	0n55	6n44	1s26	5s25	2n21	21s22	0s 3	9n53	1n31	30s 6	7s 6	23n43	23n43	20s20		n.a.
T 2	19 13	17 10	4 17	13 31	0 18	15 16	1 24	24 26	0 55	6 45	1 26	5 26	2 21	21 22	0 3	9 52	1 31	30 7	7 6	23 43	23 42	20 22		n.a.
W 3	18 58	12 54	4 50	12 52	0 10	14 51	1 23	24 25	0 56	6 45	1 26	5 28	2 21	21 21	0 3	9 52	1 30	30 7	7 6	23 43	23 42	20 24		n.a.
T 4	18 44	7 58	5 8	12 14	0 3	14 25	1 23	24 23	0 56	6 46	1 26	5 29	2 21	21 21	0 3	9 51	1 30	30 7	7 6	23 43	23 42	20 26		n.a.
F 5	18 29	2 35	5 9	11 36	0s 5	13 58	1 22	24 21	0 57	6 46	1 27	5 31	2 20	21 21	0 3	9 50	1 30	30 7	7 6	23 43	23 42	20 27		n.a.
S 6	18 13	3n 0	4 53	10 57	0 13	13 31	1 21	24 19	0 57	6 47	1 27	5 33	2 20	21 21	0 3	9 49	1 30	30 7	7 6	23 43	23 42	20 29		n.a.
S 7	17 58	8 31	4 20	10 19	0 21	13 4	1 20	24 16	0 58	6 47	1 27	5 34	2 20	21 21	0 3	9 49	1 30	30 7	7 6	23 43	23 42	20 31		n.a.
M 8	17 42	13 42	3 31	9 40	0 30	12 37	1 19	24 14	0 58	6 47	1 27	5 36	2 20	21 21	0 3	9 48	1 30	30 7	7 6	23 43	23 42	20 33		n.a.
T 9	17 25	18 11	2 28	9 2	0 38	12 9	1 17	24 11	0 59	6 48	1 27	5 38	2 19	21 21	0 3	9 47	1 30	30 7	7 6	23 43	23 42	20 35		n.a.
W10	17 9	21 38	1 16	8 24	0 46	11 41	1 16	24 8	0 59	6 48	1 28	5 39	2 19	21 21	0 3	9 46	1 30	30 7	7 6	23 43	23 42	20 37		n.a.
T 11	16 52	23 44	0n 1	7 46	0 55	11 12	1 15	24 5	1 0	6 48	1 28	5 41	2 19	21 21	0 3	9 45	1 30	30 8	7 6	23 43	23 42	20 38		n.a.
F 12	16 35	24 15	1 19	7 8	1 3	10 44	1 13	24 2	1 0	6 48	1 28	5 43	2 19	21 21	0 3	9 45	1 30	30 8	7 6	23 43	23 42	20 40		n.a.
S 13	16 17	23 7	2 31	6 31	1 12	10 15	1 12	23 58	1 1	6 48	1 28	5 45	2 19	21 21	0 3	9 44	1 30	30 8	7 6	23 43	23 42	20 42		n.a.
S 14	16 0	20 30	3 33	5 54	1 20	9 45	1 11	23 54	1 1	6 47	1 29	5 47	2 18	21 21	0 3	9 43	1 30	30 8	7 6	23 43	23 42	20 44		n.a.
M15	15 42	16 42	4 20	5 18	1 29	9 16	1 9	23 51	1 2	6 47	1 29	5 49	2 18	21 21	0 3	9 42	1 30	30 8	7 6	23 43	23 42	20 46		n.a.
T 16	15 24	12 5	4 52	4 42	1 38	8 46	1 7	23 47	1 2	6 47	1 29	5 50	2 18	21 20	0 3	9 41	1 30	30 8	7 6	23 43	23 42	20 47		n.a.
W17	15 5	6 59	5 6	4 7	1 46	8 16	1 6	23 42	1 3	6 46	1 29	5 52	2 18	21 20	0 4	9 41	1 30	30 8	7 6	23 43	23 42	20 49		n.a.
T 18	14 46	1 43	5 4	3 33	1 55	7 46	1 4	23 38	1 3	6 46	1 29	5 54	2 17	21 20	0 4	9 40	1 30	30 8	7 6	23 43	23 42	20 51		n.a.
F 19	14 27	3s29	4 46	2 59	2 3	7 15	1 2	23 34	1 4	6 45	1 30	5 56	2 17	21 20	0 4	9 39	1 30	30 8	7 6	23 43	23 42	20 53		n.a.
S 20	14 8	8 25	4 16	2 26	2 11	6 45	1 0	23 29	1 4	6 45	1 30	5 58	2 17	21 21	0 4	9 38	1 30	30 8	7 6	23 43	23 42	20 54		n.a.
S 21	13 49	12 56	3 35	1 54	2 19	6 14	0 58	23 24	1 5	6 44	1 30	6 0	2 17	21 21	0 4	9 37	1 30	30 8	7 5	23 43	23 41	20 56		n.a.
M22	13 29	16 54	2 45	1 24	2 27	5 43	0 56	23 19	1 5	6 43	1 30	6 2	2 17	21 21	0 4	9 36	1 30	30 8	7 5	23 43	23 41	20 58		n.a.
T 23	13 9	20 9	1 48	0 54	2 35	5 12	0 54	23 14	1 6	6 42	1 30	6 4	2 16	21 21	0 4	9 36	1 30	30 8	7 5	23 43	23 41	21 0		n.a.
W24	12 49	22 34	0 47	0 26	2 43	4 40	0 52	23 9	1 6	6 41	1 31	6 6	2 16	21 21	0 4	9 35	1 30	30 8	7 5	23 43	23 41	21 2		n.a.
T 25	12 28	23 59	0s17	0s 1	2 50	4 9	0 50	23 3	1 7	6 40	1 31	6 8	2 16	21 21	0 4	9 34	1 30	30 8	7 5	23 43	23 41	21 3		n.a.
F 26	12 8	24 19	1 21	0 26	2 57	3 38	0 48	22 58	1 7	6 39	1 31	6 11	2 16	21 21	0 4	9 33	1 30	30 8	7 5	23 43	23 41	21 5		n.a.
S 27	11 47	23 28	2 22	0 50	3 4	3 6	0 46	22 52	1 8	6 38	1 31	6 13	2 16	21 21	0 4	9 32	1 30	30 8	7 5	23 43	23 41	21 7		n.a.
S 28	11 26	21 26	3 17	1 12	3 11	2 34	0 44	22 46	1 8	6 37	1 31	6 15	2 15	21 21	0 4	9 31	1 30	30 8	7 5	23 43	23 41	21 9		n.a.
M29	11 5	18 18	4 4	1 31	3 16	2 2	0 41	22 40	1 9	6 36	1 32	6 17	2 15	21 21	0 4	9 31	1 30	30 8	7 5	23 43	23 41	21 10		n.a.
T 30	10 44	14 11	4 38	1 48	3 22	1 31	0 39	22 34	1 9	6 34	1 32	6 19	2 15	21 21	0 4	9 30	1 30	30 8	7 5	23 42	23 41	21 12		n.a.
W31	10n22	9s17	4s58	2s 3	3s27	0n59	0n37	22n27	1n10	6n33	1s32	6s21	2n15	21s21	0s 4	9n29	1n30	30s 8	7s 5	23n42	23n41	21s14		n.a.

Julian Day Number = 1650046.5, Delta T = 03h31m32s
Ecliptic obliquity = 23°43'08, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'59, Lahiri = - 6°38'59 Julian Calendar 1 Aug. 196 BCE == Greg. Calendar 29 July 196 BCE

The year -195 astronomical counting style corresponds to year 196 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 196 BCE
geocentric

SEPTEMBER 196 BCE (-195) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 25 41	4♍24'13	1♈51	27♍35	0♎11	25♋58	20°R 5	21♎29	4♐34	9♍33	12°R47	27°R50	26♊44	12♐18	n.a.	T 1
F 2	22 29 37	5°23'21	15°41	27°49	1°25	26°35	20♈ 1	21°35	4°34	9°36	12♑46	27♊40	26°40	12°24	n.a.	F 2
S 3	22 33 34	6°22'31	29°39	27°57	2°39	27°12	19°58	21°41	4°35	9°38	12°45	27°33	26°37	12°31	n.a.	S 3
S 4	22 37 31	7°21'43	13♉41	27°R58	3°53	27°49	19°53	21°46	4°36	9°40	12°45	27°29	26°34	12°38	n.a.	S 4
M 5	22 41 27	8°20'58	27°47	27°52	5° 6	28°26	19°49	21°52	4°37	9°42	12°44	27°26	26°31	12°44	n.a.	M 5
T 6	22 45 24	9°20'15	11♊53	27°38	6°20	29° 3	19°45	21°58	4°38	9°45	12°43	27°D26	26°28	12°51	n.a.	T 6
W 7	22 49 20	10°19'35	25°59	27°17	7°34	29°40	19°40	22° 3	4°39	9°47	12°43	27°R26	26°25	12°58	n.a.	W 7
T 8	22 53 17	11°18'58	10♋ 5	26°47	8°48	0♌17	19°35	22° 9	4°40	9°49	12°42	27°26	26°21	13° 4	n.a.	T 8
F 9	22 57 13	12°18'23	24° 8	26°10	10° 2	0°54	19°30	22°15	4°41	9°51	12°42	27°23	26°18	13°11	n.a.	F 9
S 10	23 1 10	13°17'50	8♌ 7	25°24	11°15	1°31	19°25	22°21	4°42	9°54	12°41	27°18	26°15	13°18	n.a.	S 10
S 11	23 5 6	14°17'19	22° 0	24°31	12°29	2° 8	19°20	22°27	4°44	9°56	12°41	27°10	26°12	13°24	n.a.	S 11
M12	23 9 3	15°16'51	5♍42	23°31	13°43	2°45	19°14	22°33	4°45	9°58	12°40	27° 0	26° 9	13°31	n.a.	M12
T 13	23 13 0	16°16'24	19°11	22°26	14°57	3°22	19° 9	22°39	4°46	10° 0	12°40	26°47	26° 5	13°37	n.a.	T 13
W14	23 16 56	17°16'00	2♎24	21°16	16°10	3°58	19° 3	22°46	4°47	10° 2	12°39	26°34	26° 2	13°44	n.a.	W14
T 15	23 20 53	18°15'38	15°18	20° 3	17°24	4°35	18°57	22°52	4°49	10° 5	12°39	26°22	25°59	13°51	n.a.	T 15
F 16	23 24 49	19°15'18	27°54	18°50	18°38	5°12	18°51	22°58	4°50	10° 7	12°39	26°11	25°56	13°57	n.a.	F 16
S 17	23 28 46	20°15'00	10♏12	17°38	19°51	5°48	18°45	23° 4	4°52	10° 9	12°38	26° 3	25°53	14° 4	n.a.	S 17
S 18	23 32 42	21°14'44	22°17	16°29	21° 5	6°25	18°38	23°11	4°53	10°11	12°38	25°58	25°50	14°11	n.a.	S 18
M19	23 36 39	22°14'29	4♐11	15°26	22°19	7° 1	18°32	23°17	4°55	10°14	12°38	25°55	25°46	14°17	n.a.	M19
T 20	23 40 35	23°14'17	15°59	14°31	23°32	7°38	18°25	23°23	4°57	10°16	12°37	25°54	25°43	14°24	n.a.	T 20
W21	23 44 32	24°14'06	27°47	13°44	24°46	8°14	18°18	23°30	4°58	10°18	12°37	25°54	25°40	14°31	n.a.	W21
T 22	23 48 28	25°13'58	9♑41	13° 8	25°59	8°51	18°11	23°36	5° 0	10°20	12°37	25°54	25°37	14°37	n.a.	T 22
F 23	23 52 25	26°13'51	21°46	12°42	27°13	9°27	18° 4	23°43	5° 2	10°22	12°37	25°52	25°34	14°44	n.a.	F 23
S 24	23 56 22	27°13'45	4♒ 6	12°28	28°26	10° 4	17°57	23°49	5° 4	10°24	12°36	25°48	25°31	14°51	n.a.	S 24
S 25	0 0 18	28°13'42	16°46	12°D25	29°40	10°40	17°50	23°56	5° 6	10°27	12°36	25°41	25°27	14°57	n.a.	S 25
M26	0 4 15	29°13'40	29°49	12°33	0♏53	11°16	17°43	24° 2	5° 8	10°29	12°36	25°32	25°24	15° 4	n.a.	M26
T 27	0 8 11	0♎13'41	13♓14	12°52	2° 7	11°53	17°35	24° 9	5° 9	10°31	12°36	25°20	25°21	15°11	n.a.	T 27
W28	0 12 8	1°13'43	27° 1	13°20	3°20	12°29	17°28	24°16	5°12	10°33	12°36	25° 8	25°18	15°17	n.a.	W28
T 29	0 16 4	2°13'47	11♈ 6	13°59	4°34	13° 5	17°20	24°22	5°14	10°35	12°36	24°55	25°15	15°24	n.a.	T 29
F 30	0 20 1	3♎13'53	25♈24	14♍45	5♏47	13♌41	17♈12	24♎29	5♐16	10♍37	12°D36	24♊45	25♊11	15♐30	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	10n 0	3s52	5s 2	2s15	3s31	0n27	0n34	22n21	1n10	6n31	1s32	6s24	2n15	21s22	0s 4	9n28	1n30	30s 8	7s 5	23n42	23n41	21s15		n.a.
F 2	9 39	1n49	4 48	2 23	3 34	0s 5	0 32	22 14	1 11	6 30	1 32	6 26	2 15	21 22	0 4	9 27	1 30	30 8	7 5	23 42	23 41	21 17		n.a.
S 3	9 17	7 28	4 17	2 29	3 36	0 37	0 29	22 7	1 11	6 28	1 33	6 28	2 14	21 22	0 4	9 26	1 30	30 8	7 4	23 42	23 41	21 19		n.a.
S 4	8 54	12 47	3 30	2 30	3 38	1 9	0 26	22 1	1 12	6 26	1 33	6 30	2 14	21 22	0 4	9 26	1 30	30 8	7 4	23 42	23 40	21 21		n.a.
M 5	8 32	17 27	2 31	2 28	3 38	1 41	0 24	21 53	1 12	6 25	1 33	6 33	2 14	21 22	0 4	9 25	1 30	30 8	7 4	23 42	23 40	21 22		n.a.
T 6	8 10	21 8	1 22	2 21	3 37	2 13	0 21	21 46	1 13	6 23	1 33	6 35	2 14	21 22	0 4	9 24	1 30	30 8	7 4	23 42	23 40	21 24		n.a.
W 7	7 47	23 32	0 8	2 10	3 34	2 45	0 19	21 39	1 13	6 21	1 33	6 37	2 14	21 23	0 4	9 23	1 30	30 8	7 4	23 42	23 40	21 26		n.a.
T 8	7 24	24 26	1n 7	1 55	3 30	3 17	0 16	21 31	1 14	6 19	1 33	6 40	2 14	21 23	0 4	9 22	1 30	30 8	7 4	23 42	23 40	21 27		n.a.
F 9	7 1	23 46	2 16	1 34	3 24	3 49	0 13	21 24	1 14	6 17	1 33	6 42	2 13	21 23	0 4	9 21	1 30	30 8	7 4	23 42	23 40	21 29		n.a.
S 10	6 38	21 38	3 18	1 9	3 16	4 21	0 10	21 16	1 15	6 15	1 34	6 44	2 13	21 23	0 4	9 20	1 30	30 8	7 4	23 41	23 40	21 31		n.a.
S 11	6 15	18 13	4 7	0 39	3 7	4 52	0 8	21 8	1 15	6 13	1 34	6 47	2 13	21 23	0 4	9 20	1 30	30 8	7 4	23 41	23 40	21 32		n.a.
M12	5 52	13 52	4 40	0 5	2 55	5 24	0 5	21 0	1 16	6 10	1 34	6 49	2 13	21 24	0 4	9 19	1 30	30 8	7 4	23 41	23 40	21 34		n.a.
T 13	5 29	8 53	4 58	0n34	2 42	5 55	0 2	20 52	1 16	6 8	1 34	6 52	2 13	21 24	0 4	9 18	1 30	30 8	7 4	23 41	23 40	21 36		n.a.
W14	5 5	3 36	4 59	1 16	2 26	6 27	0s 1	20 44	1 17	6 6	1 34	6 54	2 13	21 24	0 4	9 17	1 30	30 8	7 3	23 40	23 40	21 37		n.a.
T 15	4 42	1s43	4 45	2 0	2 9	6 58	0 4	20 35	1 17	6 3	1 34	6 57	2 13	21 24	0 4	9 16	1 30	30 8	7 3	23 40	23 39	21 39		n.a.
F 16	4 18	6 51	4 16	2 46	1 51	7 29	0 7	20 27	1 18	6 1	1 34	6 59	2 12	21 25	0 4	9 15	1 30	30 8	7 3	23 40	23 39	21 41		n.a.
S 17	3 54	11 37	3 37	3 33	1 31	8 0	0 10	20 18	1 18	5 58	1 34	7 1	2 12	21 25	0 4	9 15	1 30	30 8	7 3	23 40	23 39	21 42		n.a.
S 18	3 31	15 51	2 48	4 18	1 11	8 31	0 13	20 9	1 19	5 56	1 34	7 4	2 12	21 25	0 4	9 14	1 30	30 8	7 3	23 39	23 39	21 44		n.a.
M19	3 7	19 23	1 52	5 2	0 51	9 1	0 16	20 0	1 19	5 53	1 35	7 6	2 12	21 26	0 4	9 13	1 30	30 8	7 3	23 39	23 39	21 46		n.a.
T 20	2 43	22 6	0 52	5 42	0 30	9 32	0 18	19 51	1 19	5 51	1 35	7 9	2 12	21 26	0 4	9 12	1 30	30 7	7 3	23 39	23 39	21 47		n.a.
W21	2 19	23 52	0s10	6 19	0 10	10 2	0 21	19 42	1 20	5 48	1 35	7 11	2 12	21 26	0 4	9 11	1 31	30 7	7 3	23 39	23 39	21 49		n.a.
T 22	1 55	24 34	1 12	6 51	0n 9	10 32	0 24	19 33	1 20	5 45	1 35	7 14	2 12	21 27	0 4	9 10	1 31	30 7	7 3	23 39	23 39	21 51		n.a.
F 23	1 31	24 7	2 12	7 17	0 27	11 2	0 27	19 24	1 21	5 43	1 35	7 16	2 11	21 27	0 4	9 10	1 31	30 7	7 2	23 39	23 39	21 52		n.a.
S 24	1 7	22 29	3 7	7 38	0 44	11 31	0 30	19 14	1 21	5 40	1 35	7 19	2 11	21 27	0 4	9 9	1 31	30 7	7 2	23 39	23 39	21 54		n.a.
S 25	0 43	19 43	3 55	7 53	0 59	12 0	0 33	19 5	1 22	5 37	1 35	7 22	2 11	21 28	0 4	9 8	1 31	30 7	7 2	23 39	23 38	21 55		n.a.
M26	0 19	15 53	4 31	8 3	1 13	12 29	0 36	18 55	1 22	5 34	1 35	7 24	2 11	21 28	0 4	9 7	1 31	30 7	7 2	23 39	23 38	21 57		n.a.
T 27	0s 6	11 10	4 54	8 7	1 25	12 58	0 39	18 45	1 23	5 31	1 35	7 27	2 11	21 28	0 4	9 6	1 31	30 7	7 2	23 38	23 38	21 59		n.a.
W28	0 30	5 47	5 0	8 5	1 35	13 26	0 42	18 35	1 23	5 28	1 35	7 29	2 11	21 29	0 4	9 6	1 31	30 7	7 2	23 38	23 38	22 0		n.a.
T 29	0 54	0n 1	4 49	7 58	1 44	13 54	0 45	18 25	1 24	5 25	1 35	7 32	2 11	21 29	0 4	9 5	1 31	30 6	7 2	23 37	23 38	22 2		n.a.
F 30	1s18	5n55	4s19	7n47	1n51	14s22	0s48	18n15	1n24	5n22	1s35	7s34	2n11	21s29	0s 4	9n 4	1n31	30s 6	7s 2	23n37	23n38	22s 3		n.a.

Julian Day Number = 1650077.5, Delta T = 03h31m31s
Ecliptic obliquity = 23°43'09, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'55, Lahiri = - 6°38'55 Julian Calendar 1 Sept. 196 BCE == Greg. Calendar 29 Aug. 196 BCE

The year -195 astronomical counting style corresponds to year 196 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 196 BCE
geocentric

OCTOBER 196 BCE (-195) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 23 57	4♎14'01	9♉49	15♍39	7♏ 0	14♌17	17°R 5	24♎36	5♐18	10♍39	12♑36	24°R36	25♊ 8	15♐37	n.a.	S 1
S 2	0 27 54	5°14'11	24°14	16°39	8°14	14°53	16♈57	24°43	5°20	10°41	12°36	24♊31	25° 5	15°44	n.a.	S 2
M 3	0 31 51	6°14'24	8♊35	17°46	9°27	15°29	16°49	24°49	5°22	10°43	12°36	24°28	25° 2	15°50	n.a.	M 3
T 4	0 35 47	7°14'38	22°50	18°57	10°40	16° 5	16°41	24°56	5°24	10°46	12°36	24°D27	24°59	15°57	n.a.	T 4
W 5	0 39 44	8°14'55	6♋56	20°13	11°54	16°41	16°33	25° 3	5°27	10°48	12°36	24°R27	24°56	16° 4	n.a.	W 5
T 6	0 43 40	9°15'14	20°52	21°33	13° 7	17°17	16°25	25°10	5°29	10°50	12°37	24°27	24°52	16°10	n.a.	T 6
F 7	0 47 37	10°15'36	4♌39	22°55	14°20	17°53	16°17	25°17	5°32	10°52	12°37	24°25	24°49	16°17	n.a.	F 7
S 8	0 51 33	11°15'59	18°17	24°21	15°33	18°29	16° 9	25°24	5°34	10°54	12°37	24°20	24°46	16°24	n.a.	S 8
S 9	0 55 30	12°16'24	1♍45	25°48	16°47	19° 5	16° 0	25°31	5°36	10°56	12°37	24°12	24°43	16°30	n.a.	S 9
M10	0 59 26	13°16'51	15° 2	27°17	18° 0	19°40	15°52	25°38	5°39	10°58	12°38	24° 2	24°40	16°37	n.a.	M10
T 11	1 3 23	14°17'20	28° 8	28°48	19°13	20°16	15°44	25°45	5°41	11° 0	12°38	23°50	24°36	16°44	n.a.	T 11
W12	1 7 20	15°17'51	11♎ 1	0♎20	20°26	20°52	15°36	25°52	5°44	11° 1	12°38	23°37	24°33	16°50	n.a.	W12
T 13	1 11 16	16°18'24	23°39	1°53	21°39	21°27	15°28	25°59	5°47	11° 3	12°39	23°25	24°30	16°57	n.a.	T 13
F 14	1 15 13	17°18'58	6♏ 4	3°27	22°52	22° 3	15°19	26° 6	5°49	11° 5	12°39	23°15	24°27	17° 4	n.a.	F 14
S 15	1 19 9	18°19'34	18°16	5° 1	24° 5	22°38	15°11	26°13	5°52	11° 7	12°39	23° 7	24°24	17°10	n.a.	S 15
S 16	1 23 6	19°20'11	0♐16	6°36	25°18	23°14	15° 3	26°20	5°55	11° 9	12°40	23° 1	24°21	17°17	n.a.	S 16
M17	1 27 2	20°20'50	12° 8	8°11	26°31	23°49	14°55	26°27	5°58	11°11	12°40	22°59	24°17	17°23	n.a.	M17
T 18	1 30 59	21°21'30	23°54	9°46	27°44	24°25	14°47	26°34	6° 0	11°13	12°41	22°D58	24°14	17°30	n.a.	T 18
W19	1 34 55	22°22'12	5♑41	11°22	28°57	25° 0	14°39	26°41	6° 3	11°14	12°41	22°58	24°11	17°37	n.a.	W19
T 20	1 38 52	23°22'55	17°33	12°57	0♐10	25°35	14°31	26°48	6° 6	11°16	12°42	22°R59	24° 8	17°43	n.a.	T 20
F 21	1 42 49	24°23'39	29°35	14°33	1°22	26°10	14°23	26°55	6° 9	11°18	12°42	22°59	24° 5	17°50	n.a.	F 21
S 22	1 46 45	25°24'24	11♒54	16° 9	2°35	26°46	14°15	27° 2	6°12	11°20	12°43	22°58	24° 2	17°57	n.a.	S 22
S 23	1 50 42	26°25'11	24°33	17°44	3°48	27°21	14° 7	27° 9	6°15	11°21	12°44	22°54	23°58	18° 3	n.a.	S 23
M24	1 54 38	27°25'58	7♓37	19°19	5° 1	27°56	13°59	27°16	6°18	11°23	12°44	22°48	23°55	18°10	n.a.	M24
T 25	1 58 35	28°26'47	21° 8	20°55	6°13	28°31	13°52	27°23	6°21	11°25	12°45	22°40	23°52	18°17	n.a.	T 25
W26	2 2 31	29°27'36	5♈ 6	22°30	7°26	29° 5	13°44	27°30	6°24	11°26	12°46	22°31	23°49	18°23	n.a.	W26
T 27	2 6 28	0♏28'27	19°27	24° 5	8°38	29°40	13°37	27°37	6°27	11°28	12°46	22°22	23°46	18°30	n.a.	T 27
F 28	2 10 24	1°29'19	4♉ 6	25°40	9°51	0♍15	13°29	27°44	6°30	11°30	12°47	22°14	23°42	18°37	n.a.	F 28
S 29	2 14 21	2°30'13	18°56	27°15	11° 3	0°50	13°22	27°51	6°33	11°31	12°48	22° 8	23°39	18°43	n.a.	S 29
S 30	2 18 18	3°31'08	3♊48	28°50	12°16	1°25	13°15	27°58	6°36	11°33	12°49	22° 4	23°36	18°50	n.a.	S 30
M31	2 22 14	4♏32'04	18♊34	0♏24	13♐28	1♍59	13♈ 8	28♎ 5	6♐39	11♍34	12♑50	22°D 3	23♊33	18♐56	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	1 s42	11n34	3 s33	7n31	1n57	14 s49	0 s51	18n 5	1n25	5n19	1 s35	7 s37	2n11	21 s30	0 s 4	9n 3	1n31	30 s 6	7 s 1	23n36	23n38	22 s 5		n.a.
S 2	2 6	16 35	2 33	7 12	2 2	15 16	0 54	17 55	1 25	5 16	1 35	7 40	2 11	21 30	0 4	9 2	1 31	30 6	7 1	23 36	23 38	22 7		n.a.
M 3	2 30	20 38	1 23	6 49	2 5	15 42	0 57	17 45	1 26	5 13	1 35	7 42	2 10	21 31	0 4	9 2	1 31	30 6	7 1	23 36	23 37	22 8		n.a.
T 4	2 54	23 23	0 9	6 22	2 8	16 9	1 0	17 34	1 26	5 10	1 35	7 45	2 10	21 31	0 4	9 1	1 31	30 6	7 1	23 36	23 37	22 10		n.a.
W 5	3 18	24 38	1n 6	5 53	2 9	16 34	1 3	17 24	1 27	5 7	1 35	7 47	2 10	21 31	0 4	9 0	1 31	30 6	7 1	23 36	23 37	22 11		n.a.
T 6	3 43	24 18	2 15	5 22	2 9	17 0	1 6	17 13	1 27	5 4	1 35	7 50	2 10	21 32	0 4	8 59	1 31	30 6	7 1	23 36	23 37	22 13		n.a.
F 7	4 7	22 29	3 16	4 48	2 9	17 25	1 8	17 2	1 28	5 1	1 35	7 53	2 10	21 32	0 4	8 59	1 31	30 5	7 1	23 36	23 37	22 14		n.a.
S 8	4 30	19 24	4 5	4 13	2 7	17 49	1 11	16 52	1 28	4 58	1 35	7 55	2 10	21 33	0 4	8 58	1 31	30 5	7 1	23 36	23 37	22 16		n.a.
S 9	4 54	15 19	4 39	3 36	2 5	18 13	1 14	16 41	1 29	4 55	1 35	7 58	2 10	21 33	0 4	8 57	1 31	30 5	7 0	23 35	23 37	22 18		n.a.
M10	5 18	10 32	4 58	2 58	2 3	18 37	1 17	16 30	1 29	4 52	1 35	8 0	2 10	21 34	0 4	8 56	1 31	30 5	7 0	23 35	23 37	22 19		n.a.
T 11	5 42	5 21	5 1	2 18	1 59	19 0	1 19	16 19	1 30	4 48	1 35	8 3	2 10	21 34	0 4	8 56	1 31	30 5	7 0	23 34	23 36	22 21		n.a.
W12	6 6	0 0	4 48	1 38	1 56	19 23	1 22	16 8	1 30	4 45	1 35	8 6	2 10	21 35	0 4	8 55	1 31	30 5	7 0	23 34	23 36	22 22		n.a.
T 13	6 29	5 s15	4 22	0 57	1 52	19 45	1 25	15 57	1 31	4 42	1 35	8 8	2 10	21 35	0 4	8 54	1 31	30 5	7 0	23 33	23 36	22 24		n.a.
F 14	6 53	10 12	3 43	0 15	1 47	20 7	1 27	15 46	1 31	4 39	1 34	8 11	2 10	21 36	0 4	8 54	1 31	30 4	7 0	23 33	23 36	22 25		n.a.
S 15	7 16	14 41	2 54	0 s27	1 42	20 28	1 30	15 34	1 32	4 36	1 34	8 13	2 10	21 36	0 4	8 53	1 31	30 4	7 0	23 32	23 36	22 27		n.a.
S 16	7 39	18 31	1 58	1 10	1 37	20 48	1 32	15 23	1 32	4 33	1 34	8 16	2 10	21 37	0 4	8 52	1 31	30 4	7 0	23 32	23 36	22 28		n.a.
M17	8 2	21 33	0 58	1 53	1 32	21 8	1 35	15 12	1 33	4 30	1 34	8 19	2 10	21 37	0 4	8 52	1 31	30 4	6 59	23 32	23 36	22 30		n.a.
T 18	8 25	23 40	0 s 5	2 36	1 26	21 28	1 37	15 0	1 33	4 27	1 34	8 21	2 9	21 37	0 4	8 51	1 31	30 4	6 59	23 32	23 36	22 31		n.a.
W19	8 48	24 43	1 8	3 19	1 20	21 47	1 40	14 49	1 34	4 24	1 34	8 24	2 9	21 38	0 4	8 50	1 31	30 3	6 59	23 32	23 35	22 33		n.a.
T 20	9 11	24 40	2 8	4 2	1 14	22 5	1 42	14 37	1 34	4 21	1 34	8 26	2 9	21 39	0 4	8 50	1 31	30 3	6 59	23 32	23 35	22 34		n.a.
F 21	9 34	23 28	3 3	4 46	1 8	22 23	1 44	14 25	1 35	4 18	1 34	8 29	2 9	21 39	0 4	8 49	1 31	30 3	6 59	23 32	23 35	22 36		n.a.
S 22	9 56	21 7	3 52	5 29	1 1	22 40	1 47	14 14	1 35	4 15	1 33	8 32	2 9	21 40	0 4	8 48	1 31	30 3	6 59	23 32	23 35	22 37		n.a.
S 23	10 19	17 43	4 30	6 11	0 55	22 56	1 49	14 2	1 36	4 12	1 33	8 34	2 9	21 40	0 4	8 48	1 32	30 3	6 59	23 32	23 35	22 39		n.a.
M24	10 41	13 22	4 56	6 54	0 49	23 12	1 51	13 50	1 36	4 9	1 33	8 37	2 9	21 41	0 4	8 47	1 32	30 3	6 59	23 31	23 35	22 40		n.a.
T 25	11 3	8 14	5 6	7 36	0 42	23 27	1 53	13 38	1 37	4 6	1 33	8 39	2 9	21 41	0 4	8 47	1 32	30 2	6 58	23 31	23 35	22 42		n.a.
W26	11 25	2 31	4 59	8 19	0 35	23 42	1 55	13 26	1 37	4 3	1 33	8 42	2 9	21 42	0 4	8 46	1 32	30 2	6 58	23 30	23 34	22 43		n.a.
T 27	11 46	3n29	4 33	9 0	0 29	23 55	1 57	13 14	1 38	4 1	1 33	8 44	2 9	21 42	0 4	8 45	1 32	30 2	6 58	23 30	23 34	22 45		n.a.
F 28	12 8	9 27	3 49	9 42	0 22	24 8	1 59	13 3	1 38	3 58	1 32	8 47	2 9	21 43	0 4	8 45	1 32	30 2	6 58	23 29	23 34	22 46		n.a.
S 29	12 29	14 57	2 49	10 22	0 15	24 21	2 0	12 50	1 39	3 55	1 32	8 49	2 9	21 43	0 4	8 44	1 32	30 2	6 58	23 29	23 34	22 48		n.a.
S 30	12 50	19 34	1 37	11 3	0 9	24 33	2 2	12 38	1 39	3 53	1 32	8 52	2 9	21 44	0 4	8 44	1 32	30 1	6 58	23 29	23 34	22 49		n.a.
M31	13 s11	22n55	0 s19	11 s43	0n 2	24 s44	2 s 4	12n26	1n40	3n50	1 s32	8 s55	2n 9	21 s44	0 s 4	8n43	1n32	30 s 1	6 s58	23n29	23n34	22 s50		n.a.

Julian Day Number = 1650107.5, Delta T = 03h31m30s
Ecliptic obliquity = 23°43'09, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'51, Lahiri = - 6°38'50 Julian Calendar 1 Oct. 196 BCE == Greg. Calendar 28 Sept. 196 BCE

The year -195 astronomical counting style corresponds to year 196 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 196 BCE
geocentric

NOVEMBER 196 BCE (-195) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 26 11	5♏33'02	3♋ 9	1♏59	14♐40	2♍34	13°R 1	28♎12	6♐43	11♍36	12♑51	22♊ 3	23♊30	19♐ 3	n.a.	T 1
W 2	2 30 7	6°34'01	17°29	3°34	15°52	3° 8	12♈54	28°19	6°46	11°37	12°51	22° 5	23°27	19°10	n.a.	W 2
T 3	2 34 4	7°35'01	1♌31	5° 8	17° 5	3°43	12°47	28°26	6°49	11°39	12°52	22°R 6	23°23	19°16	n.a.	T 3
F 4	2 38 0	8°36'03	15°15	6°42	18°17	4°17	12°40	28°33	6°52	11°40	12°53	22° 6	23°20	19°23	n.a.	F 4
S 5	2 41 57	9°37'06	28°42	8°17	19°29	4°51	12°34	28°40	6°56	11°42	12°54	22° 4	23°17	19°30	n.a.	S 5
S 6	2 45 53	10°38'10	11♍54	9°51	20°41	5°26	12°27	28°47	6°59	11°43	12°55	22° 0	23°14	19°36	n.a.	S 6
M 7	2 49 50	11°39'15	24°52	11°26	21°53	6° 0	12°21	28°54	7° 2	11°44	12°56	21°54	23°11	19°43	n.a.	M 7
T 8	2 53 47	12°40'22	7♎36	13° 0	23° 5	6°34	12°15	29° 1	7° 6	11°46	12°57	21°48	23° 7	19°50	n.a.	T 8
W 9	2 57 43	13°41'29	20° 9	14°34	24°16	7° 8	12° 9	29° 8	7° 9	11°47	12°58	21°40	23° 4	19°56	n.a.	W 9
T 10	3 1 40	14°42'38	2♏30	16° 9	25°28	7°42	12° 3	29°15	7°12	11°48	12°59	21°33	23° 1	20° 3	n.a.	T 10
F 11	3 5 36	15°43'47	14°41	17°43	26°40	8°16	11°58	29°22	7°16	11°49	13° 1	21°27	22°58	20°10	n.a.	F 11
S 12	3 9 33	16°44'57	26°42	19°18	27°51	8°50	11°52	29°29	7°19	11°51	13° 2	21°23	22°55	20°16	n.a.	S 12
S 13	3 13 29	17°46'08	8♐36	20°52	29° 3	9°23	11°47	29°36	7°23	11°52	13° 3	21°20	22°52	20°23	n.a.	S 13
M14	3 17 26	18°47'20	20°25	22°27	0♑14	9°57	11°42	29°42	7°26	11°53	13° 4	21°D19	22°48	20°30	n.a.	M14
T 15	3 21 22	19°48'32	2♑11	24° 2	1°26	10°31	11°37	29°49	7°30	11°54	13° 5	21°20	22°45	20°36	n.a.	T 15
W16	3 25 19	20°49'44	13°58	25°37	2°37	11° 4	11°32	29°56	7°33	11°55	13° 6	21°21	22°42	20°43	n.a.	W16
T 17	3 29 16	21°50'57	25°49	27°12	3°48	11°37	11°28	0♏ 3	7°37	11°56	13° 8	21°23	22°39	20°49	n.a.	T 17
F 18	3 33 12	22°52'10	7♒50	28°47	4°59	12°11	11°23	0° 9	7°40	11°57	13° 9	21°25	22°36	20°56	n.a.	F 18
S 19	3 37 9	23°53'23	20° 5	0♐22	6°10	12°44	11°19	0°16	7°44	11°58	13°10	21°R26	22°33	21° 3	n.a.	S 19
S 20	3 41 5	24°54'36	2♓40	1°58	7°21	13°17	11°15	0°23	7°47	11°59	13°12	21°25	22°29	21° 9	n.a.	S 20
M21	3 45 2	25°55'50	15°37	3°34	8°32	13°50	11°11	0°29	7°51	12° 0	13°13	21°24	22°26	21°16	n.a.	M21
T 22	3 48 58	26°57'03	29° 2	5° 9	9°43	14°23	11° 8	0°36	7°54	12° 1	13°14	21°21	22°23	21°23	n.a.	T 22
W23	3 52 55	27°58'17	12♈55	6°45	10°53	14°56	11° 4	0°42	7°58	12° 2	13°16	21°18	22°20	21°29	n.a.	W23
T 24	3 56 51	28°59'31	27°16	8°21	12° 4	15°29	11° 1	0°49	8° 1	12° 2	13°17	21°15	22°17	21°36	n.a.	T 24
F 25	4 0 48	0♐ 0'44	12♉ 0	9°57	13°14	16° 1	10°58	0°55	8° 5	12° 3	13°18	21°12	22°13	21°43	n.a.	F 25
S 26	4 4 45	1° 1'58	27° 2	11°33	14°24	16°34	10°55	1° 2	8° 9	12° 4	13°20	21°10	22°10	21°49	n.a.	S 26
S 27	4 8 41	2° 3'12	12♊12	13° 9	15°34	17° 6	10°53	1° 8	8°12	12° 5	13°21	21° 8	22° 7	21°56	n.a.	S 27
M28	4 12 38	3° 4'27	27°21	14°45	16°44	17°39	10°50	1°15	8°16	12° 5	13°23	21°D 8	22° 4	22° 3	n.a.	M28
T 29	4 16 34	4° 5'42	12♋19	16°21	17°54	18°11	10°48	1°21	8°19	12° 6	13°24	21° 9	22° 1	22° 9	n.a.	T 29
W30	4 20 31	5♐ 6'56	27♋ 0	17♐57	19♑ 4	18♍43	10♈46	1♏27	8♐23	12♍ 7	13♑26	21♊10	21♊58	22♐16	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s32	24n41	1n 0	12s22	0s 5	24s54	2s 5	12n14	1n40	3n47	1s32	8s57	2n 9	21s45	0s 4	8n43	1n32	30s 1	6s58	23n29	23n33	22s52		n.a.
W 2	13 52	24 46	2 13	13 1	0 11	25 4	2 7	12 2	1 41	3 45	1 31	9 0	2 9	21 45	0 4	8 42	1 32	30 1	6 58	23 29	23 33	22 53		n.a.
T 3	14 12	23 15	3 17	13 40	0 18	25 13	2 8	11 50	1 41	3 43	1 31	9 2	2 9	21 46	0 4	8 42	1 32	30 1	6 57	23 29	23 33	22 55		n.a.
F 4	14 32	20 24	4 8	14 17	0 24	25 21	2 9	11 38	1 42	3 40	1 31	9 5	2 9	21 47	0 4	8 41	1 32	30 0	6 57	23 29	23 33	22 56		n.a.
S 5	14 52	16 30	4 45	14 55	0 30	25 28	2 11	11 25	1 42	3 38	1 31	9 7	2 9	21 47	0 4	8 41	1 32	30 0	6 57	23 29	23 33	22 57		n.a.
S 6	15 11	11 52	5 5	15 31	0 37	25 35	2 12	11 13	1 43	3 36	1 30	9 10	2 9	21 48	0 4	8 40	1 32	30 0	6 57	23 28	23 33	22 59		n.a.
M 7	15 30	6 47	5 10	16 7	0 43	25 41	2 13	11 1	1 43	3 33	1 30	9 12	2 9	21 48	0 4	8 40	1 32	30 0	6 57	23 28	23 32	23 0		n.a.
T 8	15 49	1 31	4 58	16 42	0 49	25 46	2 14	10 49	1 44	3 31	1 30	9 14	2 9	21 49	0 4	8 39	1 32	30 0	6 57	23 28	23 32	23 2		n.a.
W 9	16 8	3s45	4 33	17 16	0 55	25 50	2 15	10 36	1 44	3 29	1 30	9 17	2 9	21 49	0 4	8 39	1 32	29 59	6 57	23 27	23 32	23 3		n.a.
T 10	16 26	8 48	3 55	17 50	1 1	25 54	2 16	10 24	1 45	3 27	1 29	9 19	2 9	21 50	0 4	8 38	1 32	29 59	6 57	23 27	23 32	23 4		n.a.
F 11	16 44	13 27	3 7	18 23	1 6	25 57	2 16	10 11	1 45	3 25	1 29	9 22	2 9	21 51	0 4	8 38	1 32	29 59	6 57	23 26	23 32	23 6		n.a.
S 12	17 2	17 32	2 11	18 54	1 12	25 59	2 17	9 59	1 46	3 23	1 29	9 24	2 9	21 51	0 4	8 37	1 33	29 59	6 57	23 26	23 32	23 7		n.a.
S 13	17 20	20 52	1 9	19 25	1 17	26 0	2 17	9 47	1 46	3 21	1 29	9 27	2 9	21 52	0 4	8 37	1 33	29 59	6 57	23 26	23 31	23 9		n.a.
M14	17 37	23 17	0 5	19 56	1 22	26 1	2 18	9 34	1 47	3 20	1 28	9 29	2 9	21 52	0 4	8 37	1 33	29 58	6 56	23 26	23 31	23 10		n.a.
T 15	17 54	24 41	0s59	20 25	1 27	26 1	2 18	9 22	1 47	3 18	1 28	9 31	2 9	21 53	0 4	8 36	1 33	29 58	6 56	23 26	23 31	23 11		n.a.
W16	18 10	24 59	2 1	20 53	1 32	26 0	2 18	9 10	1 48	3 16	1 28	9 34	2 9	21 54	0 4	8 36	1 33	29 58	6 56	23 26	23 31	23 13		n.a.
T 17	18 26	24 9	2 58	21 20	1 37	25 58	2 19	8 57	1 48	3 15	1 27	9 36	2 9	21 54	0 4	8 36	1 33	29 58	6 56	23 26	23 31	23 14		n.a.
F 18	18 42	22 12	3 48	21 46	1 41	25 56	2 19	8 45	1 49	3 13	1 27	9 38	2 10	21 55	0 4	8 35	1 33	29 58	6 56	23 26	23 31	23 15		n.a.
S 19	18 58	19 12	4 29	22 11	1 45	25 53	2 18	8 32	1 49	3 12	1 27	9 41	2 10	21 55	0 4	8 35	1 33	29 57	6 56	23 26	23 30	23 17		n.a.
S 20	19 13	15 16	4 58	22 35	1 49	25 49	2 18	8 20	1 50	3 11	1 27	9 43	2 10	21 56	0 4	8 35	1 33	29 57	6 56	23 26	23 30	23 18		n.a.
M21	19 28	10 32	5 13	22 57	1 53	25 44	2 18	8 8	1 50	3 9	1 26	9 45	2 10	21 56	0 4	8 34	1 33	29 57	6 56	23 26	23 30	23 19		n.a.
T 22	19 42	5 9	5 12	23 19	1 56	25 39	2 18	7 55	1 51	3 8	1 26	9 47	2 10	21 57	0 4	8 34	1 33	29 57	6 56	23 26	23 30	23 21		n.a.
W23	19 56	0n40	4 53	23 39	1 59	25 33	2 17	7 43	1 51	3 7	1 26	9 50	2 10	21 58	0 4	8 34	1 33	29 57	6 56	23 26	23 30	23 22		n.a.
T 24	20 10	6 39	4 15	23 57	2 2	25 26	2 16	7 30	1 52	3 6	1 25	9 52	2 10	21 58	0 4	8 33	1 33	29 56	6 56	23 26	23 29	23 23		n.a.
F 25	20 23	12 27	3 20	24 15	2 4	25 18	2 16	7 18	1 53	3 5	1 25	9 54	2 10	21 59	0 4	8 33	1 33	29 56	6 56	23 25	23 29	23 25		n.a.
S 26	20 36	17 38	2 9	24 31	2 6	25 10	2 15	7 6	1 53	3 5	1 25	9 56	2 10	21 59	0 4	8 33	1 33	29 56	6 56	23 25	23 29	23 26		n.a.
S 27	20 49	21 42	0 49	24 45	2 7	25 1	2 14	6 53	1 54	3 4	1 24	9 59	2 10	22 0	0 4	8 33	1 33	29 56	6 56	23 25	23 29	23 27		n.a.
M28	21 1	24 16	0n34	24 58	2 9	24 51	2 13	6 41	1 54	3 3	1 24	10 1	2 10	22 1	0 4	8 33	1 33	29 55	6 55	23 25	23 29	23 28		n.a.
T 29	21 13	25 3	1 55	25 9	2 9	24 41	2 12	6 29	1 55	3 3	1 24	10 3	2 10	22 1	0 4	8 32	1 34	29 55	6 55	23 25	23 29	23 30		n.a.
W30	21s24	24n 2	3n 6	25s19	2s 9	24s30	2s10	6n17	1n55	3n 2	1s23	10s 5	2n10	22s 2	0s 4	8n32	1n34	29s55	6s55	23n25	23n28	23s31		n.a.

Julian Day Number = 1650138.5, Delta T = 03h31m29s
Ecliptic obliquity = 23°43'09, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'47, Lahiri = - 6°38'46 Julian Calendar 1 Nov. 196 BCE == Greg. Calendar 29 Oct. 196 BCE

The year -195 astronomical counting style corresponds to year 196 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 196 BCE
geocentric

DECEMBER 196 BCE (-195) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 24 27	6♐ 8'11	11♌19	19♐33	20♉14	19♍15	10°R44	1♏34	8♐27	12♍ 7	13♉27	21♊12	21♊54	22♐23	n.a.	T 1
F 2	4 28 24	7° 9'27	25°13	21° 8	21°23	19°47	10♈42	1°40	8°30	12° 8	13°29	21°12	21°51	22°29	n.a.	F 2
S 3	4 32 21	8°10'42	8♍44	22°42	22°32	20°19	10°41	1°46	8°34	12° 8	13°30	21°R13	21°48	22°36	n.a.	S 3
S 4	4 36 17	9°11'58	21°52	24°16	23°42	20°51	10°40	1°52	8°37	12° 9	13°32	21°12	21°45	22°42	n.a.	S 4
M 5	4 40 14	10°13'14	4♎40	25°50	24°51	21°22	10°39	1°58	8°41	12° 9	13°33	21°11	21°42	22°49	n.a.	M 5
T 6	4 44 10	11°14'29	17°12	27°22	25°59	21°54	10°38	2° 4	8°45	12°10	13°35	21°10	21°39	22°56	n.a.	T 6
W 7	4 48 7	12°15'45	29°30	28°52	27° 8	22°25	10°37	2°10	8°48	12°10	13°37	21° 9	21°35	23° 2	n.a.	W 7
T 8	4 52 3	13°17'01	11♏37	0♑21	28°17	22°57	10°37	2°16	8°52	12°10	13°38	21° 8	21°32	23° 9	n.a.	T 8
F 9	4 56 0	14°18'16	23°35	1°48	29°25	23°28	10°D37	2°22	8°56	12°11	13°40	21° 7	21°29	23°16	n.a.	F 9
S 10	4 59 56	15°19'32	5♐28	3°13	0♒33	23°59	10°37	2°28	8°59	12°11	13°41	21° 6	21°26	23°22	n.a.	S 10
S 11	5 3 53	16°20'47	17°17	4°34	1°41	24°30	10°37	2°33	9° 3	12°11	13°43	21°D 6	21°23	23°29	n.a.	S 11
M12	5 7 50	17°22'02	29° 4	5°53	2°49	25° 0	10°38	2°39	9° 6	12°11	13°45	21° 6	21°19	23°36	n.a.	M12
T 13	5 11 46	18°23'16	10♑51	7° 7	3°57	25°31	10°38	2°45	9°10	12°12	13°46	21° 6	21°16	23°42	n.a.	T 13
W14	5 15 43	19°24'29	22°42	8°16	5° 4	26° 1	10°39	2°50	9°13	12°12	13°48	21° 6	21°13	23°49	n.a.	W14
T 15	5 19 39	20°25'42	4♒37	9°20	6°11	26°32	10°40	2°56	9°17	12°12	13°50	21° 6	21°10	23°56	n.a.	T 15
F 16	5 23 36	21°26'54	16°42	10°18	7°18	27° 2	10°42	3° 1	9°21	12°12	13°51	21°R 6	21° 7	24° 2	n.a.	F 16
S 17	5 27 32	22°28'05	28°58	11° 8	8°25	27°32	10°43	3° 7	9°24	12°R12	13°53	21° 6	21° 4	24° 9	n.a.	S 17
S 18	5 31 29	23°29'15	11♓31	11°50	9°31	28° 2	10°45	3°12	9°28	12°12	13°55	21° 6	21° 0	24°15	n.a.	S 18
M19	5 35 25	24°30'25	24°23	12°24	10°38	28°31	10°47	3°17	9°31	12°12	13°57	21°D 6	20°57	24°22	n.a.	M19
T 20	5 39 22	25°31'33	7♈38	12°48	11°44	29° 1	10°49	3°23	9°35	12°12	13°58	21° 6	20°54	24°29	n.a.	T 20
W21	5 43 19	26°32'40	21°18	13° 1	12°49	29°30	10°51	3°28	9°38	12°12	14° 0	21° 7	20°51	24°35	n.a.	W21
T 22	5 47 15	27°33'46	5♉25	13°R 3	13°55	29°59	10°54	3°33	9°42	12°12	14° 2	21° 7	20°48	24°42	n.a.	T 22
F 23	5 51 12	28°34'50	19°58	12°54	15° 0	0♎28	10°56	3°38	9°45	12°11	14° 4	21° 8	20°45	24°49	n.a.	F 23
S 24	5 55 8	29°35'54	4♊52	12°33	16° 5	0°57	10°59	3°43	9°49	12°11	14° 5	21° 8	20°41	24°55	n.a.	S 24
S 25	5 59 5	0♑36'57	20° 1	12° 1	17°10	1°26	11° 2	3°48	9°52	12°11	14° 7	21°R 9	20°38	25° 2	n.a.	S 25
M26	6 3 1	1°37'59	5♋16	11°18	18°14	1°55	11° 6	3°52	9°55	12°11	14° 9	21° 8	20°35	25° 9	n.a.	M26
T 27	6 6 58	2°39'00	20°27	10°25	19°18	2°23	11° 9	3°57	9°59	12°10	14°11	21° 8	20°32	25°15	n.a.	T 27
W28	6 10 55	3°40'00	5♌24	9°24	20°21	2°51	11°13	4° 2	10° 2	12°10	14°13	21° 6	20°29	25°22	n.a.	W28
T 29	6 14 51	4°40'59	20° 0	8°16	21°25	3°19	11°17	4° 6	10° 6	12°10	14°14	21° 4	20°25	25°29	n.a.	T 29
F 30	6 18 48	5°41'57	4♍11	7° 4	22°28	3°47	11°21	4°11	10° 9	12° 9	14°16	21° 3	20°22	25°35	n.a.	F 30
S 31	6 22 44	6♑42'54	17♍53	5♑50	23♒30	4♎14	11♈25	4♏15	10♐12	12♍ 9	14♑18	21♊ 1	20♊19	25♐42	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	21s35	21n29	4n 4	25s27	2s 9	24s18	2s 9	6n 4	1n56	3n 2	1s23	10s 7	2n10	22s 2	0s 4	8n32	1n34	29s55	6s55	23n25	23n28	23s32			n.a.
F 2	21 46	17 44	4 45	25 33	2 8	24 5	2 7	5 52	1 56	3 1	1 23	10 9	2 11	22 3	0 4	8 32	1 34	29 55	6 55	23 25	23 28	23 34			n.a.
S 3	21 56	13 10	5 10	25 38	2 7	23 52	2 6	5 40	1 57	3 1	1 22	10 11	2 11	22 4	0 4	8 32	1 34	29 54	6 55	23 25	23 28	23 35			n.a.
S 4	22 5	8 6	5 17	25 40	2 5	23 39	2 4	5 28	1 57	3 1	1 22	10 13	2 11	22 4	0 4	8 32	1 34	29 54	6 55	23 25	23 28	23 36			n.a.
M 5	22 15	2 50	5 9	25 41	2 2	23 24	2 2	5 16	1 58	3 1	1 22	10 15	2 11	22 5	0 4	8 31	1 34	29 54	6 55	23 25	23 27	23 37			n.a.
T 6	22 23	2s27	4 45	25 40	1 59	23 9	2 0	5 3	1 58	3 1	1 21	10 17	2 11	22 5	0 4	8 31	1 34	29 54	6 55	23 25	23 27	23 39			n.a.
W 7	22 32	7 32	4 9	25 37	1 55	22 54	1 58	4 51	1 59	3 1	1 21	10 19	2 11	22 6	0 4	8 31	1 34	29 54	6 55	23 25	23 27	23 40			n.a.
T 8	22 40	12 17	3 22	25 33	1 50	22 38	1 55	4 39	1 59	3 1	1 21	10 21	2 11	22 6	0 4	8 31	1 34	29 53	6 55	23 25	23 27	23 41			n.a.
F 9	22 47	16 31	2 27	25 26	1 44	22 21	1 53	4 27	2 0	3 1	1 20	10 23	2 11	22 7	0 4	8 31	1 34	29 53	6 55	23 25	23 27	23 42			n.a.
S 10	22 54	20 3	1 26	25 18	1 37	22 4	1 50	4 15	2 0	3 2	1 20	10 25	2 11	22 8	0 4	8 31	1 34	29 53	6 55	23 25	23 26	23 44			n.a.
S 11	23 1	22 45	0 21	25 8	1 30	21 46	1 48	4 4	2 1	3 2	1 20	10 27	2 11	22 8	0 4	8 31	1 34	29 53	6 55	23 25	23 26	23 45			n.a.
M12	23 7	24 27	0s44	24 56	1 21	21 28	1 45	3 52	2 2	3 2	1 19	10 29	2 12	22 9	0 4	8 31	1 34	29 53	6 55	23 25	23 26	23 46			n.a.
T 13	23 12	25 4	1 48	24 43	1 12	21 9	1 42	3 40	2 2	3 3	1 19	10 30	2 12	22 9	0 4	8 31	1 34	29 52	6 55	23 25	23 26	23 47			n.a.
W14	23 17	24 32	2 47	24 28	1 1	20 49	1 39	3 28	2 3	3 4	1 19	10 32	2 12	22 10	0 4	8 31	1 34	29 52	6 55	23 25	23 25	23 48			n.a.
T 15	23 22	22 52	3 39	24 12	0 49	20 29	1 36	3 17	2 3	3 4	1 18	10 34	2 12	22 10	0 4	8 31	1 34	29 52	6 55	23 25	23 25	23 50			n.a.
F 16	23 26	20 11	4 23	23 55	0 37	20 9	1 32	3 5	2 4	3 5	1 18	10 36	2 12	22 11	0 4	8 31	1 35	29 52	6 55	23 25	23 25	23 51			n.a.
S 17	23 30	16 33	4 55	23 37	0 23	19 48	1 29	2 53	2 4	3 6	1 18	10 38	2 12	22 11	0 4	8 31	1 35	29 52	6 55	23 25	23 25	23 52			n.a.
S 18	23 33	12 9	5 14	23 19	0 8	19 27	1 25	2 42	2 5	3 7	1 17	10 39	2 12	22 12	0 4	8 31	1 35	29 51	6 55	23 25	23 25	23 53			n.a.
M19	23 36	7 6	5 18	23 0	0n 8	19 5	1 22	2 30	2 5	3 8	1 17	10 41	2 12	22 13	0 4	8 31	1 35	29 51	6 55	23 25	23 24	23 54			n.a.
T 20	23 39	1 36	5 5	22 41	0 25	18 43	1 18	2 19	2 6	3 9	1 17	10 43	2 13	22 13	0 4	8 31	1 35	29 51	6 55	23 25	23 24	23 55			n.a.
W21	23 40	4n 9	4 35	22 22	0 43	18 20	1 14	2 8	2 6	3 11	1 16	10 44	2 13	22 14	0 4	8 31	1 35	29 51	6 55	23 25	23 24	23 57			n.a.
T 22	23 42	9 54	3 48	22 3	1 1	17 57	1 10	1 56	2 7	3 12	1 16	10 46	2 13	22 14	0 4	8 31	1 35	29 51	6 55	23 25	23 24	23 58			n.a.
F 23	23 43	15 17	2 45	21 46	1 20	17 34	1 6	1 45	2 7	3 13	1 16	10 47	2 13	22 15	0 4	8 32	1 35	29 50	6 55	23 25	23 23	23 59			n.a.
S 24	23 43	19 54	1 29	21 29	1 39	17 10	1 1	1 34	2 8	3 15	1 15	10 49	2 13	22 15	0 4	8 32	1 35	29 50	6 55	23 25	23 23	24 0			n.a.
S 25	23 43	23 14	0 6	21 13	1 57	16 46	0 57	1 23	2 9	3 16	1 15	10 50	2 13	22 16	0 4	8 32	1 35	29 50	6 55	23 25	23 23	24 1			n.a.
M26	23 43	24 54	1n18	20 59	2 15	16 22	0 52	1 12	2 9	3 18	1 15	10 52	2 13	22 16	0 4	8 32	1 35	29 50	6 55	23 25	23 23	24 2			n.a.
T 27	23 42	24 42	2 36	20 46	2 32	15 57	0 47	1 1	2 10	3 19	1 14	10 53	2 14	22 17	0 4	8 32	1 35	29 50	6 55	23 25	23 23	24 3			n.a.
W28	23 40	22 43	3 42	20 35	2 48	15 32	0 42	0 50	2 10	3 21	1 14	10 55	2 14	22 17	0 4	8 32	1 35	29 50	6 55	23 25	23 22	24 5			n.a.
T 29	23 38	19 16	4 32	20 25	3 2	15 7	0 37	0 40	2 11	3 23	1 14	10 56	2 14	22 18	0 4	8 33	1 35	29 49	6 55	23 25	23 22	24 6			n.a.
F 30	23 36	14 47	5 3	20 17	3 15	14 42	0 32	0 29	2 11	3 25	1 13	10 58	2 14	22 18	0 5	8 33	1 35	29 49	6 55	23 25	23 22	24 7			n.a.
S 31	23s33	9n41	5n16	20s11	3n24	14s16	0s27	0n18	2n12	3n27	1s13	10s59	2n14	22s19	0s 5	8n33	1n35	29s49	6s55	23n25	23n22	24s 8			n.a.

Julian Day Number = 1650168.5, Delta T = 03h31m28s
Ecliptic obliquity = 23°43'09, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'43, Lahiri = - 6°38'42 Julian Calendar 1 Dec. 196 BCE == Greg. Calendar 28 Nov. 196 BCE

The year -195 astronomical counting style corresponds to year 196 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 195 BCE
geocentric

JANUARY 195 BCE (-194) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 26 41	7♉43'50	1♎ 7	4°R35	24♒33	4♎42	11♈29	4♏20	10♐16	12°R 8	14♉20	21°R 0	20♊16	25♐49	n.a.	S 1
M 2	6 30 37	8°44'46	13°57	3♉23	25°34	5° 9	11°34	4°24	10°19	12♍ 8	14°22	21°D 0	20°13	25°55	n.a.	M 2
T 3	6 34 34	9°45'40	26°26	2°14	26°36	5°36	11°39	4°28	10°22	12° 7	14°24	21♊ 1	20°10	26° 2	n.a.	T 3
W 4	6 38 30	10°46'33	8♏37	1°11	27°37	6° 3	11°44	4°32	10°25	12° 7	14°25	21° 2	20° 6	26° 8	n.a.	W 4
T 5	6 42 27	11°47'26	20°37	0°14	28°38	6°29	11°49	4°36	10°29	12° 6	14°27	21° 4	20° 3	26°15	n.a.	T 5
F 6	6 46 24	12°48'17	2♐28	29♐25	29°38	6°55	11°54	4°40	10°32	12° 6	14°29	21° 6	20° 0	26°22	n.a.	F 6
S 7	6 50 20	13°49'07	14°15	28°43	0♓38	7°22	12° 0	4°44	10°35	12° 5	14°31	21° 7	19°57	26°28	n.a.	S 7
S 8	6 54 17	14°49'56	26° 2	28°10	1°37	7°47	12° 5	4°48	10°38	12° 4	14°33	21°R 7	19°54	26°35	n.a.	S 8
M 9	6 58 13	15°50'43	7♉50	27°46	2°36	8°13	12°11	4°52	10°41	12° 4	14°34	21° 6	19°51	26°42	n.a.	M 9
T 10	7 2 10	16°51'30	19°42	27°29	3°34	8°38	12°17	4°55	10°44	12° 3	14°36	21° 3	19°47	26°48	n.a.	T 10
W11	7 6 6	17°52'14	1♒40	27°20	4°32	9° 3	12°24	4°59	10°48	12° 2	14°38	20°59	19°44	26°55	n.a.	W11
T 12	7 10 3	18°52'57	13°46	27°D19	5°29	9°28	12°30	5° 3	10°51	12° 1	14°40	20°55	19°41	27° 2	n.a.	T 12
F 13	7 13 59	19°53'39	26° 1	27°25	6°26	9°53	12°36	5° 6	10°54	12° 0	14°42	20°49	19°38	27° 8	n.a.	F 13
S 14	7 17 56	20°54'18	8♓27	27°38	7°22	10°17	12°43	5° 9	10°57	12° 0	14°44	20°44	19°35	27°15	n.a.	S 14
S 15	7 21 53	21°54'56	21° 6	27°56	8°18	10°41	12°50	5°12	11° 0	11°59	14°45	20°40	19°31	27°22	n.a.	S 15
M16	7 25 49	22°55'32	4♈ 1	28°21	9°12	11° 4	12°57	5°16	11° 2	11°58	14°47	20°37	19°28	27°28	n.a.	M16
T 17	7 29 46	23°56'06	17°12	28°50	10° 7	11°28	13° 4	5°19	11° 5	11°57	14°49	20°35	19°25	27°35	n.a.	T 17
W18	7 33 42	24°56'38	0♉43	29°25	11° 0	11°51	13°11	5°21	11° 8	11°56	14°51	20°D35	19°22	27°42	n.a.	W18
T 19	7 37 39	25°57'08	14°36	0♉ 4	11°53	12°14	13°19	5°24	11°11	11°55	14°53	20°36	19°19	27°48	n.a.	T 19
F 20	7 41 35	26°57'36	28°50	0°47	12°45	12°36	13°26	5°27	11°14	11°54	14°54	20°38	19°16	27°55	n.a.	F 20
S 21	7 45 32	27°58'02	13♊24	1°34	13°37	12°58	13°34	5°30	11°17	11°53	14°56	20°R39	19°12	28° 1	n.a.	S 21
S 22	7 49 28	28°58'26	28°15	2°25	14°27	13°20	13°42	5°32	11°19	11°52	14°58	20°39	19° 9	28° 8	n.a.	S 22
M23	7 53 25	29°58'48	13♋16	3°19	15°17	13°42	13°50	5°35	11°22	11°50	15° 0	20°37	19° 6	28°15	n.a.	M23
T 24	7 57 22	0♒59'09	28°20	4°16	16° 6	14° 3	13°58	5°37	11°25	11°49	15° 2	20°33	19° 3	28°21	n.a.	T 24
W25	8 1 18	1°59'27	13♌17	5°15	16°54	14°24	14° 7	5°40	11°27	11°48	15° 3	20°28	19° 0	28°28	n.a.	W25
T 26	8 5 15	2°59'44	27°59	6°18	17°42	14°44	14°15	5°42	11°30	11°47	15° 5	20°21	18°57	28°35	n.a.	T 26
F 27	8 9 11	3°59'59	12♍17	7°22	18°28	15° 4	14°24	5°44	11°32	11°46	15° 7	20°14	18°53	28°41	n.a.	F 27
S 28	8 13 8	5° 0'12	26° 9	8°29	19°13	15°24	14°32	5°46	11°35	11°45	15° 9	20° 8	18°50	28°48	n.a.	S 28
S 29	8 17 4	6° 0'23	9♎32	9°38	19°57	15°44	14°41	5°48	11°37	11°43	15°10	20° 3	18°47	28°55	n.a.	S 29
M30	8 21 1	7° 0'33	22°28	10°50	20°41	16° 3	14°50	5°50	11°40	11°42	15°12	20° 0	18°44	29° 1	n.a.	M30
T 31	8 24 57	8♒ 0'41	5♏ 0	12♉ 3	21♓23	16♎21	14♈59	5♏51	11♐42	11♍41	15♉14	19°D58	18♊41	29♐ 8	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	23s29	4n19	5n12	20s 6	3n32	13s50	0s22	0n 8	2n12	3n29	1s13	11s 0	2n14	22s19	0s 5	8n33	1n36	29s49	6s55	23n25	23n21	24s 9			n.a.
M 2	23 26	1s 5	4 52	20 4	3 37	13 24	0 16	0s 2	2 13	3 31	1 12	11 2	2 14	22 20	0 5	8 34	1 36	29 49	6 55	23 25	23 21	24 10			n.a.
T 3	23 21	6 18	4 18	20 2	3 40	12 57	0 10	0 13	2 13	3 33	1 12	11 3	2 15	22 20	0 5	8 34	1 36	29 49	6 55	23 25	23 21	24 11			n.a.
W 4	23 17	11 10	3 34	20 3	3 40	12 31	0 5	0 23	2 14	3 35	1 12	11 4	2 15	22 21	0 5	8 34	1 36	29 48	6 55	23 25	23 21	24 12			n.a.
T 5	23 11	15 32	2 41	20 5	3 38	12 4	0n 1	0 33	2 14	3 38	1 12	11 5	2 15	22 21	0 5	8 34	1 36	29 48	6 55	23 25	23 20	24 13			n.a.
F 6	23 6	19 15	1 41	20 9	3 35	11 37	0 7	0 43	2 15	3 40	1 11	11 7	2 15	22 22	0 5	8 35	1 36	29 48	6 55	23 25	23 20	24 14			n.a.
S 7	23 0	22 9	0 38	20 14	3 29	11 10	0 13	0 53	2 15	3 43	1 11	11 8	2 15	22 22	0 5	8 35	1 36	29 48	6 56	23 25	23 20	24 15			n.a.
S 8	22 53	24 7	0s27	20 20	3 22	10 43	0 20	1 3	2 16	3 45	1 11	11 9	2 15	22 23	0 5	8 35	1 36	29 48	6 56	23 25	23 20	24 17			n.a.
M 9	22 46	25 0	1 31	20 28	3 14	10 16	0 26	1 13	2 16	3 48	1 10	11 10	2 16	22 23	0 5	8 36	1 36	29 48	6 56	23 25	23 20	24 18			n.a.
T 10	22 39	24 45	2 31	20 36	3 6	9 48	0 33	1 22	2 17	3 50	1 10	11 11	2 16	22 24	0 5	8 36	1 36	29 48	6 56	23 25	23 19	24 19			n.a.
W11	22 31	23 21	3 25	20 46	2 56	9 21	0 39	1 32	2 17	3 53	1 10	11 12	2 16	22 24	0 5	8 36	1 36	29 47	6 56	23 25	23 19	24 20			n.a.
T 12	22 22	20 52	4 10	20 56	2 46	8 54	0 46	1 41	2 18	3 56	1 9	11 13	2 16	22 25	0 5	8 37	1 36	29 47	6 56	23 24	23 19	24 21			n.a.
F 13	22 14	17 26	4 44	21 7	2 35	8 26	0 53	1 50	2 19	3 59	1 9	11 14	2 16	22 25	0 5	8 37	1 36	29 47	6 56	23 24	23 19	24 22			n.a.
S 14	22 4	13 12	5 6	21 18	2 24	7 58	1 0	1 59	2 19	4 2	1 9	11 15	2 17	22 25	0 5	8 37	1 36	29 47	6 56	23 23	23 18	24 23			n.a.
S 15	21 55	8 21	5 13	21 30	2 12	7 31	1 7	2 8	2 20	4 5	1 9	11 16	2 17	22 26	0 5	8 38	1 36	29 47	6 56	23 23	23 18	24 24			n.a.
M16	21 45	3 2	5 4	21 41	2 1	7 3	1 15	2 17	2 20	4 8	1 8	11 17	2 17	22 26	0 5	8 38	1 36	29 47	6 56	23 23	23 18	24 25			n.a.
T 17	21 34	2n32	4 40	21 53	1 50	6 36	1 22	2 26	2 21	4 11	1 8	11 18	2 17	22 27	0 5	8 39	1 36	29 47	6 56	23 23	23 18	24 26			n.a.
W18	21 23	8 7	3 59	22 5	1 38	6 9	1 30	2 35	2 21	4 14	1 8	11 18	2 17	22 27	0 5	8 39	1 36	29 47	6 56	23 23	23 17	24 27			n.a.
T 19	21 12	13 28	3 4	22 16	1 27	5 41	1 37	2 43	2 22	4 17	1 7	11 19	2 17	22 28	0 5	8 39	1 36	29 46	6 57	23 23	23 17	24 28			n.a.
F 20	21 1	18 14	1 56	22 27	1 16	5 14	1 45	2 52	2 22	4 20	1 7	11 20	2 18	22 28	0 5	8 40	1 37	29 46	6 57	23 23	23 17	24 29			n.a.
S 21	20 49	22 1	0 40	22 38	1 5	4 47	1 53	3 0	2 22	4 23	1 7	11 21	2 18	22 28	0 5	8 40	1 37	29 46	6 57	23 23	23 16	24 30			n.a.
S 22	20 36	24 24	0n41	22 48	0 54	4 20	2 1	3 8	2 23	4 27	1 7	11 21	2 18	22 29	0 5	8 41	1 37	29 46	6 57	23 23	23 16	24 31			n.a.
M23	20 23	25 2	2 0	22 58	0 43	3 53	2 9	3 16	2 23	4 30	1 6	11 22	2 18	22 29	0 5	8 41	1 37	29 46	6 57	23 23	23 16	24 32			n.a.
T 24	20 10	23 51	3 10	23 6	0 33	3 26	2 17	3 24	2 24	4 34	1 6	11 23	2 18	22 29	0 5	8 42	1 37	29 46	6 57	23 23	23 16	24 33			n.a.
W25	19 57	20 58	4 7	23 15	0 22	3 0	2 26	3 32	2 24	4 37	1 6	11 23	2 19	22 30	0 5	8 42	1 37	29 46	6 57	23 22	23 15	24 34			n.a.
T 26	19 43	16 47	4 46	23 22	0 12	2 33	2 34	3 39	2 25	4 41	1 6	11 24	2 19	22 30	0 5	8 43	1 37	29 46	6 57	23 22	23 15	24 35			n.a.
F 27	19 29	11 44	5 6	23 28	0 3	2 7	2 43	3 47	2 25	4 44	1 5	11 24	2 19	22 31	0 5	8 43	1 37	29 46	6 57	23 21	23 15	24 35			n.a.
S 28	19 14	6 15	5 8	23 33	0s 7	1 42	2 51	3 54	2 26	4 48	1 5	11 25	2 19	22 31	0 5	8 44	1 37	29 46	6 58	23 21	23 15	24 36			n.a.
S 29	18 59	0 39	4 52	23 38	0 16	1 16	3 0	4 1	2 26	4 52	1 5	11 25	2 19	22 31	0 5	8 44	1 37	29 46	6 58	23 20	23 14	24 37			n.a.
M30	18 44	4s48	4 21	23 41	0 25	0 51	3 9	4 8	2 27	4 55	1 4	11 26	2 20	22 32	0 5	8 45	1 37	29 45	6 58	23 20	23 14	24 38			n.a.
T 31	18s29	9s54	3n39	23s43	0s33	0s26	3n18	4s15	2n27	4n59	1s 4	11s26	2n20	22s32	0s 5	8n45	1n37	29s45	6s58	23n20	23n14	24s39			n.a.

Julian Day Number = 1650199.5, Delta T = 03h31m27s
Ecliptic obliquity = 23°43'09, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'38, Lahiri = - 6°38'38 Julian Calendar 1 Jan. 195 BCE == Greg. Calendar 29 Dec. 196 BCE

The year -194 astronomical counting style corresponds to year 195 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 195 BCE
geocentric

FEBRUARY 195 BCE (-194) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	8 28 54	9♒ 0'47	17♏13	13♉17	22♓ 4	16♎39	15♈ 9	5♏53	11♐45	11°R39	15♉15	19♊59	18♊37	29♐15	n.a.	W 1
T 2	8 32 51	10° 0'52	29°11	14°34	22°43	16°57	15°18	5°54	11°47	11♏38	15°17	20° 0	18°34	29°21	n.a.	T 2
F 3	8 36 47	11° 0'55	11♐ 1	15°52	23°22	17°15	15°27	5°56	11°49	11°37	15°19	20° 1	18°31	29°28	n.a.	F 3
S 4	8 40 44	12° 0'57	22°47	17°12	23°59	17°31	15°37	5°57	11°51	11°35	15°21	20°R 1	18°28	29°35	n.a.	S 4
S 5	8 44 40	13° 0'56	4♉34	18°33	24°35	17°48	15°47	5°58	11°54	11°34	15°22	20° 0	18°25	29°41	n.a.	S 5
M 6	8 48 37	14° 0'54	16°25	19°56	25°10	18° 4	15°57	5°59	11°56	11°33	15°24	19°56	18°22	29°48	n.a.	M 6
T 7	8 52 33	15° 0'50	28°24	21°20	25°43	18°19	16° 7	6° 1	11°58	11°31	15°25	19°50	18°18	29°55	n.a.	T 7
W 8	8 56 30	16° 0'43	10♒33	22°45	26°15	18°35	16°17	6° 1	12° 0	11°30	15°27	19°42	18°15	0♉ 1	n.a.	W 8
T 9	9 0 26	17° 0'35	22°52	24°12	26°45	18°49	16°27	6° 2	12° 2	11°28	15°29	19°32	18°12	0° 8	n.a.	T 9
F 10	9 4 23	18° 0'25	5♓24	25°40	27°14	19° 3	16°37	6° 3	12° 4	11°27	15°30	19°21	18° 9	0°14	n.a.	F 10
S 11	9 8 20	19° 0'12	18° 7	27°10	27°41	19°17	16°47	6° 4	12° 6	11°25	15°32	19°10	18° 6	0°21	n.a.	S 11
S 12	9 12 16	19°59'57	1♈ 3	28°40	28° 6	19°30	16°58	6° 4	12° 8	11°24	15°33	19° 0	18° 3	0°28	n.a.	S 12
M13	9 16 13	20°59'40	14°10	0♒12	28°30	19°42	17° 9	6° 5	12° 9	11°22	15°35	18°52	17°59	0°34	n.a.	M13
T 14	9 20 9	21°59'20	27°30	1°45	28°51	19°54	17°19	6° 5	12°11	11°21	15°37	18°47	17°56	0°41	n.a.	T 14
W15	9 24 6	22°58'59	11♉ 3	3°20	29°11	20° 6	17°30	6° 5	12°13	11°19	15°38	18°45	17°53	0°48	n.a.	W15
T 16	9 28 2	23°58'34	24°50	4°56	29°29	20°16	17°41	6° 5	12°15	11°18	15°40	18°D44	17°50	0°54	n.a.	T 16
F 17	9 31 59	24°58'08	8♊51	6°33	29°45	20°27	17°52	6°R 5	12°16	11°16	15°41	18°44	17°47	1° 1	n.a.	F 17
S 18	9 35 55	25°57'39	23° 6	8°11	29°58	20°36	18° 3	6° 5	12°18	11°15	15°43	18°R45	17°43	1° 8	n.a.	S 18
S 19	9 39 52	26°57'07	7♋34	9°51	0♈10	20°45	18°14	6° 5	12°20	11°13	15°44	18°43	17°40	1°14	n.a.	S 19
M20	9 43 49	27°56'34	22°12	11°31	0°19	20°54	18°26	6° 5	12°21	11°11	15°45	18°40	17°37	1°21	n.a.	M20
T 21	9 47 45	28°55'57	6♌54	13°13	0°26	21° 2	18°37	6° 4	12°23	11°10	15°47	18°33	17°34	1°28	n.a.	T 21
W22	9 51 42	29°55'19	21°33	14°57	0°31	21° 9	18°48	6° 4	12°24	11° 8	15°48	18°24	17°31	1°34	n.a.	W22
T 23	9 55 38	0♓54'38	6♍ 2	16°42	0°R33	21°16	19° 0	6° 3	12°25	11° 7	15°50	18°13	17°28	1°41	n.a.	T 23
F 24	9 59 35	1°53'55	20°14	18°28	0°33	21°22	19°12	6° 3	12°27	11° 5	15°51	18° 2	17°24	1°48	n.a.	F 24
S 25	10 3 31	2°53'10	4♎ 3	20°15	0°30	21°27	19°23	6° 2	12°28	11° 3	15°52	17°51	17°21	1°54	n.a.	S 25
S 26	10 7 28	3°52'23	17°27	22° 4	0°25	21°32	19°35	6° 1	12°29	11° 2	15°54	17°42	17°18	2° 1	n.a.	S 26
M27	10 11 24	4°51'34	0♏26	23°54	0°17	21°36	19°47	6° 0	12°30	11° 0	15°55	17°35	17°15	2° 7	n.a.	M27
T 28	10 15 21	5♓50'44	13♏ 1	25♒45	0♈ 7	21♎39	19♈59	5♏59	12♐31	10♏58	15♉56	17♊31	17♊12	2♉14	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	18s13	14s29	2n48	23s44	0s42	0s 1	3n27	4s21	2n27	5n 3	1s 4	11s26	2n20	22s32	0s 5	8n46	1n37	29s45	6s58	23n20	23n14	24s40		n.a.
T 2	17 57	18 25	1 50	23 44	0 49	0n23	3 36	4 28	2 28	5 7	1 4	11 27	2 20	22 33	0 5	8 46	1 37	29 45	6 58	23 20	23 13	24 41		n.a.
F 3	17 40	21 33	0 48	23 42	0 57	0 47	3 45	4 34	2 28	5 11	1 3	11 27	2 20	22 33	0 5	8 47	1 37	29 45	6 58	23 20	23 13	24 42		n.a.
S 4	17 23	23 46	0s15	23 40	1 4	1 10	3 54	4 40	2 28	5 15	1 3	11 27	2 21	22 33	0 5	8 48	1 37	29 45	6 59	23 20	23 13	24 43		n.a.
S 5	17 6	24 56	1 18	23 36	1 11	1 33	4 4	4 46	2 29	5 19	1 3	11 27	2 21	22 34	0 5	8 48	1 37	29 45	6 59	23 20	23 12	24 44		n.a.
M 6	16 49	24 58	2 17	23 30	1 18	1 55	4 13	4 52	2 29	5 23	1 3	11 27	2 21	22 34	0 5	8 49	1 37	29 45	6 59	23 20	23 12	24 45		n.a.
T 7	16 31	23 50	3 11	23 23	1 24	2 17	4 22	4 58	2 30	5 27	1 3	11 28	2 21	22 34	0 5	8 49	1 37	29 45	6 59	23 20	23 12	24 45		n.a.
W 8	16 13	21 36	3 57	23 15	1 30	2 39	4 32	5 3	2 30	5 31	1 2	11 28	2 21	22 34	0 5	8 50	1 37	29 45	6 59	23 19	23 12	24 46		n.a.
T 9	15 55	18 20	4 32	23 5	1 35	2 59	4 41	5 9	2 30	5 35	1 2	11 28	2 22	22 35	0 5	8 50	1 37	29 45	6 59	23 18	23 11	24 47		n.a.
F 10	15 37	14 12	4 55	22 54	1 40	3 20	4 51	5 14	2 30	5 39	1 2	11 28	2 22	22 35	0 5	8 51	1 37	29 45	7 0	23 17	23 11	24 48		n.a.
S 11	15 18	9 24	5 4	22 41	1 45	3 39	5 0	5 19	2 31	5 44	1 2	11 28	2 22	22 35	0 5	8 52	1 37	29 45	7 0	23 16	23 11	24 49		n.a.
S 12	14 59	4 7	4 58	22 27	1 50	3 58	5 10	5 23	2 31	5 48	1 1	11 28	2 22	22 36	0 5	8 52	1 37	29 45	7 0	23 15	23 10	24 50		n.a.
M13	14 40	1n26	4 35	22 12	1 54	4 16	5 20	5 28	2 31	5 52	1 1	11 28	2 22	22 36	0 5	8 53	1 37	29 45	7 0	23 15	23 10	24 51		n.a.
T 14	14 21	7 0	3 58	21 54	1 57	4 34	5 29	5 32	2 31	5 57	1 1	11 28	2 23	22 36	0 5	8 53	1 37	29 45	7 0	23 14	23 10	24 51		n.a.
W15	14 1	12 22	3 7	21 35	2 0	4 50	5 39	5 36	2 32	6 1	1 1	11 28	2 23	22 36	0 5	8 54	1 38	29 45	7 0	23 14	23 10	24 52		n.a.
T 16	13 41	17 12	2 4	21 15	2 3	5 6	5 48	5 40	2 32	6 5	1 0	11 27	2 23	22 37	0 5	8 55	1 38	29 45	7 1	23 14	23 9	24 53		n.a.
F 17	13 21	21 10	0 53	20 53	2 6	5 21	5 57	5 44	2 32	6 10	1 0	11 27	2 23	22 37	0 5	8 55	1 38	29 45	7 1	23 14	23 9	24 54		n.a.
S 18	13 1	23 55	0n23	20 29	2 8	5 35	6 7	5 48	2 32	6 14	1 0	11 27	2 23	22 37	0 5	8 56	1 38	29 45	7 1	23 14	23 9	24 55		n.a.
S 19	12 40	25 8	1 38	20 4	2 9	5 48	6 16	5 51	2 32	6 19	1 0	11 27	2 24	22 37	0 5	8 57	1 38	29 45	7 1	23 14	23 8	24 55		n.a.
M20	12 20	24 38	2 48	19 37	2 10	6 0	6 25	5 54	2 32	6 23	1 0	11 27	2 24	22 37	0 5	8 57	1 38	29 45	7 1	23 14	23 8	24 56		n.a.
T 21	11 59	22 25	3 46	19 8	2 11	6 11	6 34	5 57	2 32	6 28	0 59	11 26	2 24	22 38	0 5	8 58	1 38	29 45	7 2	23 13	23 8	24 57		n.a.
W22	11 38	18 44	4 30	18 37	2 11	6 20	6 42	6 0	2 32	6 32	0 59	11 26	2 24	22 38	0 5	8 59	1 38	29 45	7 2	23 12	23 8	24 58		n.a.
T 23	11 17	13 58	4 55	18 5	2 11	6 29	6 51	6 2	2 33	6 37	0 59	11 26	2 24	22 38	0 5	8 59	1 38	29 45	7 2	23 11	23 7	24 59		n.a.
F 24	10 55	8 31	5 2	17 31	2 10	6 36	6 59	6 4	2 32	6 42	0 59	11 25	2 25	22 38	0 5	9 0	1 38	29 45	7 2	23 10	23 7	24 59		n.a.
S 25	10 34	2 48	4 50	16 56	2 8	6 42	7 7	6 6	2 32	6 46	0 59	11 25	2 25	22 38	0 5	9 0	1 38	29 45	7 2	23 9	23 7	25 0		n.a.
S 26	10 12	2s53	4 23	16 19	2 7	6 47	7 14	6 8	2 32	6 51	0 58	11 24	2 25	22 39	0 5	9 1	1 38	29 45	7 3	23 9	23 6	25 1		n.a.
M27	9 50	8 17	3 42	15 40	2 4	6 51	7 21	6 10	2 32	6 56	0 58	11 24	2 25	22 39	0 5	9 2	1 38	29 45	7 3	23 8	23 6	25 2		n.a.
T 28	9s28	13s12	2n52	14s59	2s 1	6n53	7n28	6s11	2n32	7n 0	0s58	11s23	2n25	22s39	0s 5	9n 2	1n38	29s45	7s 3	23n 8	23n 6	25s 2		n.a.

Julian Day Number = 1650230.5, Delta T = 03h31m26s
Ecliptic obliquity = 23°43'10, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'34, Lahiri = - 6°38'34 Julian Calendar 1 Feb. 195 BCE == Greg. Calendar 29 Jan. 195 BCE

The year -194 astronomical counting style corresponds to year 195 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 195 BCE
geocentric

MARCH 195 BCE (-194) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	10 19 17	6♓49'51	25♏17	27♒38	29°R55	21♎42	20♈11	5°R58	12♐32	10°R57	15♉58	17°R29	17♊ 8	2♉21	n.a.	W 1
T 2	10 23 14	7°48'57	7♐17	29°32	29♓40	21°44	20°23	5♏57	12°33	10♍55	15°59	17°D28	17° 5	2°27	n.a.	T 2
F 3	10 27 11	8°48'00	19° 9	1♓27	29°22	21°45	20°35	5°55	12°34	10°54	16° 0	17°R28	17° 2	2°34	n.a.	F 3
S 4	10 31 7	9°47'02	0♉56	3°24	29° 2	21°R45	20°47	5°54	12°35	10°52	16° 1	17♊28	16°59	2°41	n.a.	S 4
S 5	10 35 4	10°46'02	12°45	5°22	28°40	21°45	21° 0	5°52	12°36	10°50	16° 2	17°26	16°56	2°47	n.a.	S 5
M 6	10 39 0	11°45'00	24°40	7°22	28°16	21°44	21°12	5°51	12°37	10°49	16° 4	17°21	16°53	2°54	n.a.	M 6
T 7	10 42 57	12°43'56	6♒45	9°22	27°49	21°42	21°24	5°49	12°38	10°47	16° 5	17°14	16°49	3° 1	n.a.	T 7
W 8	10 46 53	13°42'50	19° 4	11°24	27°21	21°40	21°37	5°47	12°39	10°45	16° 6	17° 4	16°46	3° 7	n.a.	W 8
T 9	10 50 50	14°41'42	1♓37	13°27	26°51	21°36	21°49	5°45	12°39	10°44	16° 7	16°51	16°43	3°14	n.a.	T 9
F 10	10 54 46	15°40'32	14°27	15°31	26°19	21°32	22° 2	5°43	12°40	10°42	16° 8	16°38	16°40	3°21	n.a.	F 10
S 11	10 58 43	16°39'20	27°31	17°35	25°45	21°27	22°15	5°41	12°40	10°40	16° 9	16°25	16°37	3°27	n.a.	S 11
S 12	11 2 40	17°38'06	10♈49	19°41	25°10	21°21	22°27	5°39	12°41	10°39	16°10	16°13	16°34	3°34	n.a.	S 12
M13	11 6 36	18°36'50	24°18	21°47	24°34	21°15	22°40	5°37	12°41	10°37	16°11	16° 4	16°30	3°41	n.a.	M13
T 14	11 10 33	19°35'31	7♉57	23°53	23°58	21° 8	22°53	5°34	12°42	10°35	16°12	15°57	16°27	3°47	n.a.	T 14
W15	11 14 29	20°34'10	21°44	25°59	23°20	21° 0	23° 6	5°32	12°42	10°34	16°13	15°53	16°24	3°54	n.a.	W15
T 16	11 18 26	21°32'47	5♊38	28° 5	22°42	20°51	23°19	5°30	12°42	10°32	16°14	15°52	16°21	4° 1	n.a.	T 16
F 17	11 22 22	22°31'22	19°39	0♈10	22° 4	20°42	23°32	5°27	12°43	10°31	16°15	15°52	16°18	4° 7	n.a.	F 17
S 18	11 26 19	23°29'54	3♋46	2°15	21°26	20°31	23°45	5°24	12°43	10°29	16°16	15°51	16°14	4°14	n.a.	S 18
S 19	11 30 15	24°28'24	17°58	4°18	20°48	20°21	23°58	5°22	12°43	10°27	16°17	15°50	16°11	4°21	n.a.	S 19
M20	11 34 12	25°26'52	2♌13	6°20	20°11	20° 9	24°11	5°19	12°43	10°26	16°18	15°46	16° 8	4°27	n.a.	M20
T 21	11 38 9	26°25'17	16°29	8°20	19°35	19°56	24°25	5°16	12°R43	10°24	16°19	15°40	16° 5	4°34	n.a.	T 21
W22	11 42 5	27°23'40	0♍42	10°18	19° 0	19°43	24°38	5°13	12°43	10°23	16°19	15°30	16° 2	4°40	n.a.	W22
T 23	11 46 2	28°22'01	14°47	12°14	18°26	19°30	24°51	5°10	12°43	10°21	16°20	15°19	15°59	4°47	n.a.	T 23
F 24	11 49 58	29°20'20	28°38	14° 7	17°53	19°15	25° 4	5° 7	12°43	10°20	16°21	15° 8	15°55	4°54	n.a.	F 24
S 25	11 53 55	0♈18'37	12♎12	15°56	17°22	19° 0	25°18	5° 4	12°43	10°18	16°22	14°56	15°52	5° 0	n.a.	S 25
S 26	11 57 51	1°16'53	25°26	17°43	16°53	18°44	25°31	5° 0	12°43	10°17	16°22	14°47	15°49	5° 7	n.a.	S 26
M27	12 1 48	2°15'06	8♏19	19°26	16°26	18°28	25°45	4°57	12°42	10°15	16°23	14°39	15°46	5°14	n.a.	M27
T 28	12 5 44	3°13'18	20°52	21° 6	16° 1	18°11	25°58	4°54	12°42	10°14	16°24	14°34	15°43	5°20	n.a.	T 28
W29	12 9 41	4°11'28	3♐ 7	22°41	15°39	17°54	26°12	4°50	12°42	10°12	16°24	14°32	15°40	5°27	n.a.	W29
T 30	12 13 37	5° 9'37	15° 8	24°13	15°18	17°36	26°25	4°47	12°41	10°11	16°25	14°D31	15°36	5°34	n.a.	T 30
F 31	12 17 34	6♈ 7'44	27♐ 1	25♈40	15♓ 0	17♎17	26♈39	4♏43	12♐41	10♍ 9	16♉25	14♊32	15♊33	5♉40	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	9s 6	17s27	1n55	14s17	1s58	6n54	7n34	6s12	2n32	7n 5	0s58	11s23	2n26	22s39	0s 5	9n 3	1n38	29s45	7s 3	23n 7	23n 5	25s 3			n.a.
T 2	8 44	20 54	0 54	13 33	1 54	6 53	7 40	6 13	2 32	7 10	0 58	11 22	2 26	22 39	0 5	9 4	1 38	29 45	7 3	23 7	23 5	25 4			n.a.
F 3	8 22	23 25	0s 9	12 47	1 50	6 51	7 45	6 14	2 31	7 15	0 58	11 22	2 26	22 39	0 5	9 4	1 38	29 45	7 4	23 7	23 5	25 5			n.a.
S 4	7 59	24 54	1 11	12 0	1 45	6 47	7 50	6 14	2 31	7 19	0 57	11 21	2 26	22 40	0 5	9 5	1 38	29 45	7 4	23 7	23 4	25 5			n.a.
S 5	7 37	25 15	2 10	11 11	1 39	6 42	7 54	6 15	2 31	7 24	0 57	11 20	2 26	22 40	0 5	9 6	1 38	29 45	7 4	23 7	23 4	25 6			n.a.
M 6	7 14	24 27	3 3	10 21	1 33	6 35	7 57	6 15	2 30	7 29	0 57	11 19	2 26	22 40	0 5	9 6	1 38	29 45	7 4	23 7	23 4	25 7			n.a.
T 7	6 51	22 30	3 49	9 29	1 27	6 27	8 0	6 14	2 30	7 34	0 57	11 19	2 27	22 40	0 5	9 7	1 38	29 45	7 4	23 6	23 4	25 7			n.a.
W 8	6 29	19 29	4 26	8 36	1 19	6 17	8 2	6 14	2 29	7 39	0 57	11 18	2 27	22 40	0 5	9 8	1 38	29 46	7 5	23 5	23 3	25 8			n.a.
T 9	6 6	15 31	4 50	7 41	1 12	6 6	8 3	6 13	2 29	7 44	0 56	11 17	2 27	22 40	0 5	9 8	1 38	29 46	7 5	23 4	23 3	25 9			n.a.
F 10	5 43	10 47	5 0	6 45	1 4	5 53	8 3	6 12	2 28	7 49	0 56	11 16	2 27	22 40	0 5	9 9	1 38	29 46	7 5	23 2	23 3	25 9			n.a.
S 11	5 20	5 30	4 55	5 48	0 55	5 39	8 2	6 11	2 28	7 54	0 56	11 16	2 27	22 40	0 5	9 9	1 38	29 46	7 5	23 1	23 2	25 10			n.a.
S 12	4 57	0n 9	4 33	4 50	0 46	5 24	8 1	6 9	2 27	7 58	0 56	11 15	2 27	22 40	0 5	9 10	1 38	29 46	7 6	23 0	23 2	25 11			n.a.
M13	4 33	5 52	3 57	3 51	0 36	5 7	7 58	6 8	2 26	8 3	0 56	11 14	2 28	22 40	0 5	9 11	1 38	29 46	7 6	22 59	23 2	25 11			n.a.
T 14	4 10	11 24	3 6	2 51	0 26	4 50	7 55	6 6	2 26	8 8	0 56	11 13	2 28	22 40	0 5	9 11	1 38	29 46	7 6	22 58	23 1	25 12			n.a.
W15	3 47	16 25	2 4	1 51	0 16	4 31	7 51	6 3	2 25	8 13	0 56	11 12	2 28	22 41	0 5	9 12	1 38	29 46	7 6	22 58	23 1	25 13			n.a.
T 16	3 23	20 37	0 54	0 51	0 5	4 11	7 46	6 1	2 24	8 18	0 55	11 11	2 28	22 41	0 5	9 13	1 38	29 46	7 7	22 58	23 1	25 13			n.a.
F 17	3 0	23 39	0n20	0n 9	0n 6	3 51	7 40	5 58	2 23	8 23	0 55	11 10	2 28	22 41	0 5	9 13	1 38	29 47	7 7	22 58	23 0	25 14			n.a.
S 18	2 37	25 13	1 33	1 10	0 17	3 30	7 33	5 55	2 22	8 28	0 55	11 9	2 28	22 41	0 5	9 14	1 38	29 47	7 7	22 58	23 0	25 15			n.a.
S 19	2 13	25 9	2 41	2 10	0 28	3 8	7 26	5 52	2 21	8 33	0 55	11 8	2 28	22 41	0 6	9 14	1 38	29 47	7 7	22 57	23 0	25 15			n.a.
M20	1 50	23 27	3 39	3 9	0 39	2 46	7 17	5 49	2 19	8 38	0 55	11 7	2 29	22 41	0 6	9 15	1 38	29 47	7 8	22 57	22 59	25 16			n.a.
T 21	1 26	20 15	4 23	4 7	0 51	2 23	7 8	5 45	2 18	8 43	0 55	11 6	2 29	22 41	0 6	9 16	1 38	29 47	7 8	22 56	22 59	25 16			n.a.
W22	1 3	15 53	4 51	5 4	1 2	2 0	6 59	5 42	2 17	8 48	0 54	11 5	2 29	22 41	0 6	9 16	1 38	29 47	7 8	22 55	22 59	25 17			n.a.
T 23	0 39	10 41	5 1	6 0	1 13	1 37	6 48	5 38	2 15	8 53	0 54	11 3	2 29	22 41	0 6	9 17	1 38	29 47	7 8	22 54	22 58	25 18			n.a.
F 24	0 16	5 1	4 53	6 54	1 23	1 15	6 37	5 33	2 14	8 59	0 54	11 2	2 29	22 41	0 6	9 17	1 38	29 48	7 9	22 53	22 58	25 18			n.a.
S 25	0n 7	0s46	4 28	7 47	1 34	0 52	6 26	5 29	2 13	9 4	0 54	11 1	2 29	22 41	0 6	9 18	1 38	29 48	7 9	22 51	22 58	25 19			n.a.
S 26	0 31	6 23	3 49	8 37	1 43	0 30	6 14	5 25	2 11	9 9	0 54	11 0	2 29	22 41	0 6	9 19	1 38	29 48	7 9	22 50	22 57	25 19			n.a.
M27	0 54	11 36	3 0	9 26	1 53	0 8	6 1	5 20	2 9	9 14	0 54	10 59	2 29	22 41	0 6	9 19	1 38	29 48	7 9	22 50	22 57	25 20			n.a.
T 28	1 18	16 13	2 2	10 12	2 1	0s14	5 49	5 15	2 7	9 19	0 54	10 58	2 30	22 41	0 6	9 20	1 38	29 48	7 10	22 49	22 57	25 20			n.a.
W29	1 41	20 2	1 0	10 56	2 10	0 34	5 36	5 10	2 6	9 24	0 54	10 56	2 30	22 41	0 6	9 20	1 38	29 48	7 10	22 49	22 56	25 21			n.a.
T 30	2 4	22 56	0s 3	11 37	2 17	0 55	5 22	5 5	2 4	9 29	0 53	10 55	2 30	22 41	0 6	9 21	1 38	29 49	7 10	22 49	22 56	25 22			n.a.
F 31	2n28	24s47	1s 6	12n16	2n24	1s14	5n 9	5s 0	2n 2	9n34	0s53	10s54	2n30	22s41	0s 6	9n21	1n38	29s49	7s10	22n49	22n56	25s22			n.a.

Julian Day Number = 1650258.5, Delta T = 03h31m25s
Ecliptic obliquity = 23°43'10, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'30, Lahiri = - 6°38'30 Julian Calendar 1 March 195 BCE == Greg. Calendar 26 Feb. 195 BCE

The year -194 astronomical counting style corresponds to year 195 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 195 BCE
geocentric

APRIL 195 BCE (-194) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 21 31	7♈ 5'50	8♉50	27♈ 4	14°R44	16°R58	26♈52	4°R40	12°R40	10°R 8	16♉26	14°R32	15♊30	5♉47	n.a.	S 1
S 2	12 25 27	8° 3'54	20°41	28°23	14♓31	16♎39	27° 6	4♏36	12♐40	10♍ 6	16°26	14♊31	15°27	5°54	n.a.	S 2
M 3	12 29 24	9° 1'57	2♒38	29°38	14°20	16°19	27°20	4°32	12°39	10° 5	16°27	14°28	15°24	6° 0	n.a.	M 3
T 4	12 33 20	9°59'58	14°48	0♉48	14°12	15°59	27°33	4°28	12°39	10° 3	16°27	14°23	15°20	6° 7	n.a.	T 4
W 5	12 37 17	10°57'57	27°13	1°54	14° 6	15°38	27°47	4°25	12°38	10° 2	16°28	14°16	15°17	6°14	n.a.	W 5
T 6	12 41 13	11°55'55	9♓56	2°55	14° 2	15°17	28° 1	4°21	12°37	10° 1	16°28	14° 7	15°14	6°20	n.a.	T 6
F 7	12 45 10	12°53'52	22°59	3°51	14°D 1	14°56	28°15	4°17	12°36	9°59	16°29	13°57	15°11	6°27	n.a.	F 7
S 8	12 49 6	13°51'47	6♈21	4°43	14° 2	14°35	28°28	4°13	12°35	9°58	16°29	13°46	15° 8	6°34	n.a.	S 8
S 9	12 53 3	14°49'40	20° 1	5°30	14° 6	14°14	28°42	4° 9	12°35	9°57	16°29	13°37	15° 5	6°40	n.a.	S 9
M10	12 57 0	15°47'32	3♉55	6°12	14°12	13°52	28°56	4° 5	12°34	9°56	16°30	13°30	15° 1	6°47	n.a.	M10
T 11	13 0 56	16°45'22	17°59	6°49	14°20	13°31	29°10	4° 1	12°33	9°54	16°30	13°25	14°58	6°54	n.a.	T 11
W12	13 4 53	17°43'10	2♊10	7°21	14°30	13° 9	29°24	3°56	12°32	9°53	16°30	13°22	14°55	7° 0	n.a.	W12
T 13	13 8 49	18°40'57	16°23	7°49	14°42	12°47	29°38	3°52	12°31	9°52	16°30	13°D22	14°52	7° 7	n.a.	T 13
F 14	13 12 46	19°38'42	0♋36	8°11	14°56	12°26	29°52	3°48	12°29	9°51	16°31	13°23	14°49	7°14	n.a.	F 14
S 15	13 16 42	20°36'25	14°47	8°28	15°12	12° 5	0♉ 6	3°44	12°28	9°49	16°31	13°R23	14°45	7°20	n.a.	S 15
S 16	13 20 39	21°34'07	28°54	8°40	15°31	11°44	0°20	3°40	12°27	9°48	16°31	13°23	14°42	7°27	n.a.	S 16
M17	13 24 35	22°31'47	12♌57	8°47	15°51	11°23	0°33	3°35	12°26	9°47	16°31	13°21	14°39	7°33	n.a.	M17
T 18	13 28 32	23°29'25	26°53	8°R50	16°12	11° 2	0°47	3°31	12°25	9°46	16°31	13°18	14°36	7°40	n.a.	T 18
W19	13 32 29	24°27'01	10♍41	8°47	16°36	10°42	1° 1	3°27	12°23	9°45	16°31	13°12	14°33	7°47	n.a.	W19
T 20	13 36 25	25°24'36	24°19	8°40	17° 1	10°22	1°15	3°22	12°22	9°44	16°31	13° 5	14°30	7°53	n.a.	T 20
F 21	13 40 22	26°22'09	7♎45	8°29	17°28	10° 3	1°29	3°18	12°20	9°43	16°R31	12°57	14°26	8° 0	n.a.	F 21
S 22	13 44 18	27°19'41	20°56	8°13	17°56	9°44	1°43	3°14	12°19	9°42	16°31	12°49	14°23	8° 7	n.a.	S 22
S 23	13 48 15	28°17'11	3♏51	7°54	18°26	9°25	1°57	3° 9	12°18	9°41	16°31	12°43	14°20	8°13	n.a.	S 23
M24	13 52 11	29°14'40	16°31	7°31	18°57	9° 7	2°11	3° 5	12°16	9°40	16°31	12°38	14°17	8°20	n.a.	M24
T 25	13 56 8	0♉12'09	28°55	7° 5	19°29	8°49	2°25	3° 0	12°14	9°39	16°31	12°35	14°14	8°27	n.a.	T 25
W26	14 0 4	1° 9'36	11♐ 5	6°36	20° 3	8°32	2°39	2°56	12°13	9°38	16°31	12°D34	14°11	8°33	n.a.	W26
T 27	14 4 1	2° 7'02	23° 4	6° 6	20°39	8°16	2°53	2°51	12°11	9°37	16°31	12°34	14° 7	8°40	n.a.	T 27
F 28	14 7 58	3° 4'28	4♉56	5°33	21°15	8° 0	3° 7	2°47	12°10	9°37	16°31	12°36	14° 4	8°47	n.a.	F 28
S 29	14 11 54	4° 1'52	16°45	5° 0	21°53	7°45	3°21	2°43	12° 8	9°36	16°31	12°37	14° 1	8°53	n.a.	S 29
S 30	14 15 51	4♉59'16	28♉37	4♉26	22♓31	7♎31	3♉35	2♏38	12♐ 6	9♍35	16♉30	12♊39	13♊58	9♉ 0	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	2n51	25s31	2s 6	12n52	2n30	1s32	4n55	4s54	2n 0	9n39	0s53	10s52	2n30	22s41	0s 6	9n22	1n38	29s49	7s11	22n49	22n55	25s23		n.a.
S 2	3 14	25 4	3 0	13 26	2 35	1 50	4 42	4 49	1 58	9 44	0 53	10 51	2 30	22 40	0 6	9 22	1 38	29 49	7 11	22 49	22 55	25 23		n.a.
M 3	3 37	23 29	3 47	13 57	2 39	2 7	4 28	4 43	1 55	9 49	0 53	10 50	2 30	22 40	0 6	9 23	1 38	29 49	7 11	22 48	22 55	25 24		n.a.
T 4	4 0	20 48	4 25	14 25	2 43	2 23	4 15	4 37	1 53	9 54	0 53	10 48	2 30	22 40	0 6	9 23	1 38	29 49	7 11	22 48	22 54	25 24		n.a.
W 5	4 23	17 7	4 51	14 51	2 45	2 37	4 1	4 31	1 51	9 59	0 53	10 47	2 30	22 40	0 6	9 24	1 38	29 50	7 12	22 47	22 54	25 25		n.a.
T 6	4 46	12 36	5 3	15 14	2 47	2 51	3 48	4 25	1 49	10 4	0 53	10 46	2 30	22 40	0 6	9 24	1 38	29 50	7 12	22 46	22 53	25 25		n.a.
F 7	5 9	7 24	5 0	15 34	2 48	3 4	3 34	4 19	1 46	10 10	0 52	10 44	2 30	22 40	0 6	9 25	1 38	29 50	7 12	22 44	22 53	25 26		n.a.
S 8	5 32	1 44	4 41	15 52	2 47	3 16	3 21	4 13	1 44	10 15	0 52	10 43	2 30	22 40	0 6	9 25	1 38	29 50	7 13	22 43	22 53	25 26		n.a.
S 9	5 55	4n 8	4 5	16 7	2 46	3 26	3 8	4 7	1 41	10 20	0 52	10 41	2 30	22 40	0 6	9 26	1 38	29 51	7 13	22 42	22 52	25 27		n.a.
M10	6 17	9 55	3 15	16 19	2 44	3 36	2 55	4 1	1 38	10 25	0 52	10 40	2 30	22 40	0 6	9 26	1 38	29 51	7 13	22 41	22 52	25 27		n.a.
T 11	6 40	15 17	2 12	16 28	2 40	3 44	2 43	3 55	1 36	10 30	0 52	10 39	2 31	22 40	0 6	9 27	1 38	29 51	7 13	22 41	22 52	25 28		n.a.
W12	7 2	19 52	1 0	16 34	2 36	3 52	2 30	3 50	1 33	10 35	0 52	10 37	2 31	22 40	0 6	9 27	1 37	29 51	7 14	22 40	22 51	25 28		n.a.
T 13	7 24	23 17	0n16	16 38	2 30	3 58	2 18	3 44	1 30	10 40	0 52	10 36	2 31	22 39	0 6	9 28	1 37	29 51	7 14	22 40	22 51	25 29		n.a.
F 14	7 46	25 14	1 31	16 39	2 23	4 4	2 6	3 38	1 27	10 45	0 52	10 34	2 31	22 39	0 6	9 28	1 37	29 52	7 14	22 40	22 51	25 29		n.a.
S 15	8 8	25 33	2 41	16 38	2 16	4 8	1 54	3 32	1 25	10 50	0 52	10 33	2 31	22 39	0 6	9 29	1 37	29 52	7 14	22 40	22 50	25 29		n.a.
S 16	8 30	24 12	3 40	16 33	2 7	4 12	1 43	3 26	1 22	10 55	0 51	10 31	2 31	22 39	0 6	9 29	1 37	29 52	7 15	22 40	22 50	25 30		n.a.
M17	8 52	21 21	4 25	16 26	1 57	4 14	1 32	3 21	1 19	11 0	0 51	10 30	2 31	22 39	0 6	9 29	1 37	29 52	7 15	22 40	22 49	25 30		n.a.
T 18	9 14	17 18	4 55	16 17	1 46	4 16	1 21	3 16	1 16	11 5	0 51	10 28	2 31	22 39	0 6	9 30	1 37	29 53	7 15	22 40	22 49	25 31		n.a.
W19	9 35	12 22	5 7	16 4	1 34	4 17	1 10	3 10	1 13	11 10	0 51	10 27	2 31	22 39	0 6	9 30	1 37	29 53	7 15	22 39	22 49	25 31		n.a.
T 20	9 56	6 53	5 2	15 50	1 21	4 16	1 0	3 5	1 10	11 15	0 51	10 25	2 31	22 38	0 6	9 30	1 37	29 53	7 16	22 38	22 48	25 32		n.a.
F 21	10 18	1 10	4 39	15 33	1 7	4 15	0 50	3 0	1 7	11 20	0 51	10 24	2 31	22 38	0 6	9 31	1 37	29 53	7 16	22 37	22 48	25 32		n.a.
S 22	10 39	4s31	4 3	15 14	0 52	4 13	0 40	2 56	1 4	11 25	0 51	10 22	2 31	22 38	0 6	9 31	1 37	29 54	7 16	22 36	22 48	25 32		n.a.
S 23	10 59	9 55	3 14	14 53	0 37	4 10	0 30	2 51	1 0	11 30	0 51	10 21	2 31	22 38	0 6	9 32	1 37	29 54	7 16	22 35	22 47	25 33		n.a.
M24	11 20	14 47	2 16	14 30	0 21	4 6	0 21	2 47	0 57	11 35	0 51	10 19	2 31	22 38	0 6	9 32	1 37	29 54	7 17	22 35	22 47	25 33		n.a.
T 25	11 40	18 57	1 13	14 6	0 4	4 2	0 12	2 42	0 54	11 40	0 51	10 18	2 31	22 37	0 6	9 32	1 37	29 55	7 17	22 34	22 47	25 33		n.a.
W26	12 1	22 14	0 8	13 41	0s13	3 56	0 3	2 39	0 51	11 45	0 51	10 16	2 31	22 37	0 6	9 32	1 37	29 55	7 17	22 34	22 46	25 34		n.a.
T 27	12 21	24 29	0s57	13 14	0 30	3 50	0s 5	2 35	0 48	11 50	0 51	10 15	2 31	22 37	0 6	9 33	1 37	29 55	7 18	22 34	22 46	25 34		n.a.
F 28	12 41	25 36	1 59	12 47	0 47	3 43	0 14	2 31	0 45	11 54	0 50	10 14	2 31	22 37	0 6	9 33	1 37	29 55	7 18	22 34	22 45	25 35		n.a.
S 29	13 1	25 33	2 55	12 20	1 5	3 35	0 22	2 28	0 42	11 59	0 50	10 12	2 31	22 37	0 6	9 33	1 37	29 56	7 18	22 35	22 45	25 35		n.a.
S 30	13n20	24s20	3s45	11n52	1s21	3s27	0s29	2s25	0n39	12n 4	0s50	10s11	2n30	22s36	0s 6	9n34	1n37	29s56	7s18	22n35	22n45	25s35		n.a.

Julian Day Number = 1650289.5, Delta T = 03h31m24s
Ecliptic obliquity = 23°43'11, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'26, Lahiri = - 6°38'26 Julian Calendar 1 Apr. 195 BCE == Greg. Calendar 29 March 195 BCE

The year -194 astronomical counting style corresponds to year 195 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 195 BCE
geocentric

MAY 195 BCE (-194) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	14 19 47	5♉56'39	10♒35	3°R52	23♓11	7°R17	3♉49	2°R34	12°R 4	9°R34	16°R30	12°R39	13♊55	9♑ 7	n.a.	M 1
T 2	14 23 44	6°54'01	22°45	3♉19	23°52	7♎ 4	4° 3	2♏29	12♐ 3	9♍33	16♑30	12♊37	13°51	9°13	n.a.	T 2
W 3	14 27 40	7°51'22	5♓12	2°48	24°34	6°51	4°17	2°25	12° 1	9°33	16°30	12°35	13°48	9°20	n.a.	W 3
T 4	14 31 37	8°48'43	17°59	2°18	25°17	6°40	4°31	2°21	11°59	9°32	16°29	12°31	13°45	9°27	n.a.	T 4
F 5	14 35 33	9°46'03	1♈ 8	1°50	26° 1	6°29	4°45	2°16	11°57	9°31	16°29	12°26	13°42	9°33	n.a.	F 5
S 6	14 39 30	10°43'22	14°41	1°26	26°46	6°19	4°59	2°12	11°55	9°31	16°29	12°21	13°39	9°40	n.a.	S 6
S 7	14 43 26	11°40'41	28°36	1° 4	27°31	6°10	5°13	2° 7	11°53	9°30	16°28	12°16	13°36	9°47	n.a.	S 7
M 8	14 47 23	12°37'59	12♉50	0°46	28°18	6° 1	5°27	2° 3	11°51	9°30	16°28	12°13	13°32	9°53	n.a.	M 8
T 9	14 51 20	13°35'16	27°18	0°31	29° 5	5°54	5°41	1°59	11°49	9°29	16°27	12°11	13°29	10° 0	n.a.	T 9
W10	14 55 16	14°32'32	11♊53	0°21	29°53	5°47	5°55	1°55	11°47	9°29	16°27	12°D10	13°26	10° 7	n.a.	W10
T 11	14 59 13	15°29'48	26°31	0°15	0♈42	5°41	6° 9	1°50	11°45	9°28	16°26	12°11	13°23	10°13	n.a.	T 11
F 12	15 3 9	16°27'02	11♋ 5	0°D13	1°31	5°36	6°23	1°46	11°43	9°28	16°26	12°12	13°20	10°20	n.a.	F 12
S 13	15 7 6	17°24'16	25°31	0°16	2°21	5°32	6°36	1°42	11°41	9°27	16°25	12°13	13°17	10°27	n.a.	S 13
S 14	15 11 2	18°21'29	9♌45	0°23	3°12	5°29	6°50	1°38	11°38	9°27	16°25	12°14	13°13	10°33	n.a.	S 14
M15	15 14 59	19°18'40	23°46	0°35	4° 3	5°26	7° 4	1°34	11°36	9°27	16°24	12°R14	13°10	10°40	n.a.	M15
T 16	15 18 56	20°15'51	7♍33	0°51	4°55	5°24	7°18	1°30	11°34	9°26	16°23	12°13	13° 7	10°47	n.a.	T 16
W17	15 22 52	21°13'01	21° 4	1°12	5°48	5°23	7°32	1°26	11°32	9°26	16°23	12°12	13° 4	10°53	n.a.	W17
T 18	15 26 49	22°10'10	4♎21	1°38	6°41	5°D23	7°45	1°22	11°30	9°26	16°22	12° 9	13° 1	11° 0	n.a.	T 18
F 19	15 30 45	23° 7'19	17°24	2° 7	7°35	5°24	7°59	1°18	11°27	9°26	16°21	12° 6	12°57	11° 7	n.a.	F 19
S 20	15 34 42	24° 4'27	0♏12	2°42	8°29	5°26	8°13	1°14	11°25	9°25	16°21	12° 4	12°54	11°13	n.a.	S 20
S 21	15 38 38	25° 1'34	12°47	3°20	9°24	5°28	8°27	1°10	11°23	9°25	16°20	12° 2	12°51	11°20	n.a.	S 21
M22	15 42 35	25°58'41	25°10	4° 3	10°19	5°31	8°40	1° 6	11°21	9°25	16°19	12° 0	12°48	11°27	n.a.	M22
T 23	15 46 31	26°55'48	7♐22	4°50	11°14	5°35	8°54	1° 2	11°18	9°25	16°19	12°D 0	12°45	11°33	n.a.	T 23
W24	15 50 28	27°52'55	19°24	5°41	12°11	5°40	9° 7	0°58	11°16	9°25	16°18	12° 0	12°42	11°40	n.a.	W24
T 25	15 54 25	28°50'01	1♑19	6°37	13° 7	5°45	9°21	0°55	11°14	9°D25	16°17	12° 0	12°38	11°47	n.a.	T 25
F 26	15 58 21	29°47'07	13° 9	7°36	14° 4	5°52	9°34	0°51	11°11	9°25	16°16	12° 1	12°35	11°53	n.a.	F 26
S 27	16 2 18	0♊44'14	24°58	8°39	15° 2	5°59	9°48	0°48	11° 9	9°25	16°15	12° 2	12°32	12° 0	n.a.	S 27
S 28	16 6 14	1°41'20	6♒50	9°46	16° 0	6° 6	10° 1	0°44	11° 6	9°25	16°14	12° 3	12°29	12° 7	n.a.	S 28
M29	16 10 11	2°38'26	18°48	10°57	16°58	6°15	10°15	0°41	11° 4	9°25	16°14	12° 4	12°26	12°13	n.a.	M29
T 30	16 14 7	3°35'33	0♓57	12°12	17°57	6°24	10°28	0°37	11° 2	9°25	16°13	12°R 4	12°23	12°20	n.a.	T 30
W31	16 18 4	4♊32'39	13♓23	13♉30	18♈56	6♎34	10♉42	0♏34	10♐59	9♍26	16♑12	12♊ 4	12♊19	12♑27	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	13n39	22s 2	4s25	11n25	1s38	3s18	0s37	2s23	0n36	12n 9	0s50	10s 9	2n30	22s36	0s 6	9n34	1n37	29s56	7s19	22n35	22n44	25s36			n.a.
T 2	13 59	18 42	4 54	10 59	1 54	3 8	0 44	2 20	0 33	12 14	0 50	10 8	2 30	22 36	0 6	9 34	1 37	29 57	7 19	22 35	22 44	25 36			n.a.
W 3	14 17	14 30	5 9	10 34	2 9	2 58	0 51	2 18	0 29	12 19	0 50	10 6	2 30	22 36	0 6	9 34	1 37	29 57	7 19	22 34	22 43	25 36			n.a.
T 4	14 36	9 33	5 11	10 10	2 24	2 47	0 58	2 16	0 26	12 24	0 50	10 5	2 30	22 36	0 6	9 35	1 37	29 57	7 19	22 34	22 43	25 37			n.a.
F 5	14 55	4 3	4 56	9 48	2 37	2 35	1 4	2 15	0 23	12 28	0 50	10 3	2 30	22 35	0 6	9 35	1 37	29 57	7 20	22 33	22 43	25 37			n.a.
S 6	15 13	1n48	4 24	9 27	2 50	2 23	1 10	2 13	0 20	12 33	0 50	10 2	2 30	22 35	0 6	9 35	1 37	29 58	7 20	22 32	22 42	25 37			n.a.
S 7	15 31	7 44	3 36	9 9	3 1	2 10	1 17	2 12	0 17	12 38	0 50	10 0	2 30	22 35	0 6	9 35	1 37	29 58	7 20	22 32	22 42	25 37			n.a.
M 8	15 49	13 26	2 34	8 53	3 12	1 56	1 22	2 12	0 15	12 43	0 50	9 59	2 30	22 34	0 6	9 35	1 37	29 58	7 20	22 31	22 42	25 38			n.a.
T 9	16 6	18 28	1 21	8 39	3 21	1 43	1 28	2 11	0 12	12 47	0 50	9 58	2 30	22 34	0 6	9 35	1 37	29 59	7 21	22 31	22 41	25 38			n.a.
W10	16 23	22 27	0 2	8 28	3 29	1 28	1 33	2 11	0 9	12 52	0 50	9 56	2 30	22 34	0 6	9 36	1 37	29 59	7 21	22 31	22 41	25 38			n.a.
T 11	16 40	24 58	1n18	8 20	3 36	1 13	1 38	2 12	0 6	12 57	0 50	9 55	2 30	22 34	0 6	9 36	1 36	29 59	7 21	22 31	22 40	25 38			n.a.
F 12	16 57	25 47	2 32	8 14	3 41	0 58	1 43	2 12	0 3	13 1	0 49	9 53	2 30	22 33	0 6	9 36	1 36	30 0	7 21	22 31	22 40	25 39			n.a.
S 13	17 13	24 50	3 36	8 10	3 46	0 42	1 48	2 13	0 0	13 6	0 49	9 52	2 29	22 33	0 6	9 36	1 36	30 0	7 22	22 31	22 40	25 39			n.a.
S 14	17 30	22 17	4 26	8 10	3 49	0 26	1 53	2 14	0s 2	13 11	0 49	9 51	2 29	22 33	0 6	9 36	1 36	30 0	7 22	22 31	22 39	25 39			n.a.
M15	17 46	18 26	4 59	8 12	3 51	0 9	1 57	2 16	0 5	13 15	0 49	9 49	2 29	22 33	0 6	9 36	1 36	30 0	7 22	22 32	22 39	25 39			n.a.
T 16	18 1	13 41	5 14	8 17	3 52	0n 8	2 1	2 17	0 8	13 20	0 49	9 48	2 29	22 32	0 6	9 36	1 36	30 1	7 22	22 31	22 38	25 40			n.a.
W17	18 16	8 20	5 11	8 24	3 52	0 25	2 5	2 19	0 10	13 25	0 49	9 47	2 29	22 32	0 6	9 36	1 36	30 1	7 23	22 31	22 38	25 40			n.a.
T 18	18 31	2 42	4 52	8 34	3 51	0 43	2 9	2 22	0 13	13 29	0 49	9 46	2 29	22 32	0 6	9 36	1 36	30 1	7 23	22 31	22 38	25 40			n.a.
F 19	18 46	2s57	4 17	8 46	3 49	1 1	2 12	2 25	0 16	13 34	0 49	9 44	2 29	22 31	0 6	9 36	1 36	30 2	7 23	22 30	22 37	25 40			n.a.
S 20	19 1	8 23	3 31	9 0	3 47	1 20	2 15	2 27	0 18	13 38	0 49	9 43	2 28	22 31	0 6	9 36	1 36	30 2	7 23	22 30	22 37	25 41			n.a.
S 21	19 15	13 24	2 34	9 17	3 43	1 39	2 19	2 31	0 21	13 43	0 49	9 42	2 28	22 31	0 6	9 36	1 36	30 2	7 24	22 30	22 36	25 41			n.a.
M22	19 29	17 48	1 32	9 36	3 38	1 58	2 22	2 34	0 23	13 47	0 49	9 41	2 28	22 30	0 6	9 36	1 36	30 3	7 24	22 30	22 36	25 41			n.a.
T 23	19 42	21 22	0 26	9 57	3 33	2 17	2 24	2 38	0 25	13 52	0 49	9 40	2 28	22 30	0 6	9 36	1 36	30 3	7 24	22 30	22 35	25 41			n.a.
W24	19 55	23 58	0s41	10 20	3 27	2 37	2 27	2 42	0 28	13 56	0 49	9 38	2 28	22 30	0 6	9 36	1 36	30 3	7 24	22 30	22 35	25 41			n.a.
T 25	20 8	25 28	1 45	10 44	3 20	2 57	2 30	2 46	0 30	14 0	0 49	9 37	2 28	22 30	0 6	9 36	1 36	30 4	7 24	22 30	22 35	25 41			n.a.
F 26	20 20	25 47	2 44	11 11	3 12	3 17	2 32	2 51	0 32	14 5	0 49	9 36	2 28	22 29	0 6	9 36	1 36	30 4	7 25	22 30	22 34	25 42			n.a.
S 27	20 33	24 56	3 36	11 39	3 4	3 38	2 34	2 56	0 35	14 9	0 49	9 35	2 27	22 29	0 6	9 36	1 36	30 4	7 25	22 30	22 34	25 42			n.a.
S 28	20 44	22 58	4 19	12 9	2 55	3 58	2 36	3 1	0 37	14 13	0 49	9 34	2 27	22 29	0 6	9 36	1 36	30 5	7 25	22 30	22 33	25 42			n.a.
M29	20 56	19 58	4 52	12 40	2 46	4 19	2 38	3 6	0 39	14 18	0 49	9 33	2 27	22 28	0 6	9 36	1 36	30 5	7 25	22 30	22 33	25 42			n.a.
T 30	21 7	16 6	5 11	13 12	2 36	4 40	2 39	3 12	0 41	14 22	0 49	9 32	2 27	22 28	0 6	9 36	1 36	30 5	7 26	22 30	22 33	25 42			n.a.
W31	21n18	11s28	5s17	13n46	2s26	5n 1	2s41	3s18	0s43	14n26	0s49	9s31	2n27	22s28	0s 6	9n36	1n36	30s 6	7s26	22n30	22n32	25s42			n.a.

Julian Day Number = 1650319.5, Delta T = 03h31m23s
Ecliptic obliquity = 23°43'10, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'22, Lahiri = - 6°38'22 Julian Calendar 1 May 195 BCE == Greg. Calendar 28 Apr. 195 BCE

The year -194 astronomical counting style corresponds to year 195 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 195 BCE
geocentric

JUNE 195 BCE (-194) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 22 0	5♊29'46	26♓ 8	14♉53	19♈55	6♎44	10♉55	0°R31	10°R57	9♍26	16°R11	12°R 4	12♊16	12♂33	n.a.	T 1
F 2	16 25 57	6°26'53	9♈16	16°18	20°55	6°56	11° 8	0♏28	10♐54	9°26	16♂10	12♊ 3	12°13	12°40	n.a.	F 2
S 3	16 29 54	7°24'01	22°50	17°48	21°55	7° 8	11°21	0°25	10°52	9°26	16° 9	12° 3	12°10	12°47	n.a.	S 3
S 4	16 33 50	8°21'09	6♉49	19°21	22°55	7°20	11°35	0°22	10°50	9°27	16° 8	12° 2	12° 7	12°53	n.a.	S 4
M 5	16 37 47	9°18'17	21°12	20°57	23°56	7°34	11°48	0°19	10°47	9°27	16° 7	12° 2	12° 3	13° 0	n.a.	M 5
T 6	16 41 43	10°15'25	5♊54	22°37	24°57	7°47	12° 1	0°16	10°45	9°27	16° 6	12°D 2	12° 0	13° 7	n.a.	T 6
W 7	16 45 40	11°12'34	20°49	24°20	25°59	8° 2	12°14	0°13	10°42	9°28	16° 5	12° 2	11°57	13°13	n.a.	W 7
T 8	16 49 36	12° 9'42	5♋49	26° 6	27° 0	8°17	12°27	0°10	10°40	9°28	16° 4	12°R 2	11°54	13°20	n.a.	T 8
F 9	16 53 33	13° 6'51	20°46	27°56	28° 2	8°33	12°40	0° 8	10°37	9°29	16° 3	12° 2	11°51	13°27	n.a.	F 9
S 10	16 57 30	14° 4'00	5♌31	29°48	29° 4	8°49	12°53	0° 5	10°35	9°29	16° 1	12° 2	11°48	13°33	n.a.	S 10
S 11	17 1 26	15° 1'09	20° 0	1♊43	0♉ 7	9° 6	13° 6	0° 2	10°33	9°30	16° 0	12° 2	11°44	13°40	n.a.	S 11
M12	17 5 23	15°58'18	4♍ 9	3°41	1° 9	9°24	13°18	0° 0	10°30	9°30	15°59	12° 1	11°41	13°47	n.a.	M12
T 13	17 9 19	16°55'27	17°55	5°40	2°12	9°42	13°31	29♎58	10°28	9°31	15°58	12°D 1	11°38	13°53	n.a.	T 13
W14	17 13 16	17°52'36	1♎20	7°42	3°15	10° 1	13°44	29°55	10°25	9°31	15°57	12° 1	11°35	14° 0	n.a.	W14
T 15	17 17 12	18°49'45	14°25	9°46	4°19	10°20	13°56	29°53	10°23	9°32	15°56	12° 2	11°32	14° 7	n.a.	T 15
F 16	17 21 9	19°46'55	27°12	11°51	5°22	10°40	14° 9	29°51	10°21	9°33	15°55	12° 2	11°29	14°13	n.a.	F 16
S 17	17 25 5	20°44'05	9♏43	13°57	6°26	11° 0	14°21	29°49	10°18	9°33	15°53	12° 3	11°25	14°20	n.a.	S 17
S 18	17 29 2	21°41'15	22° 2	16° 5	7°30	11°21	14°34	29°47	10°16	9°34	15°52	12° 4	11°22	14°27	n.a.	S 18
M19	17 32 59	22°38'25	4♐10	18°12	8°35	11°42	14°46	29°45	10°13	9°35	15°51	12° 5	11°19	14°33	n.a.	M19
T 20	17 36 55	23°35'36	16°10	20°20	9°39	12° 4	14°59	29°44	10°11	9°36	15°50	12°R 5	11°16	14°40	n.a.	T 20
W21	17 40 52	24°32'48	28° 5	22°28	10°44	12°26	15°11	29°42	10° 9	9°37	15°49	12° 4	11°13	14°47	n.a.	W21
T 22	17 44 48	25°30'01	9♑55	24°36	11°49	12°49	15°23	29°40	10° 6	9°37	15°47	12° 3	11° 9	14°53	n.a.	T 22
F 23	17 48 45	26°27'14	21°45	26°43	12°54	13°12	15°35	29°39	10° 4	9°38	15°46	12° 1	11° 6	15° 0	n.a.	F 23
S 24	17 52 41	27°24'28	3♒35	28°49	13°59	13°36	15°47	29°38	10° 2	9°39	15°45	11°59	11° 3	15° 7	n.a.	S 24
S 25	17 56 38	28°21'43	15°28	0♋55	15° 5	14° 0	15°59	29°36	10° 0	9°40	15°43	11°57	11° 0	15°13	n.a.	S 25
M26	18 0 34	29°18'59	27°28	2°59	16°10	14°25	16°11	29°35	9°57	9°41	15°42	11°54	10°57	15°20	n.a.	M26
T 27	18 4 31	0♋16'16	9♓38	5° 2	17°16	14°50	16°23	29°34	9°55	9°42	15°41	11°53	10°54	15°27	n.a.	T 27
W28	18 8 28	1°13'34	22° 2	7° 4	18°22	15°15	16°35	29°33	9°53	9°43	15°40	11°51	10°50	15°33	n.a.	W28
T 29	18 12 24	2°10'53	4♈44	9° 5	19°28	15°41	16°46	29°32	9°51	9°44	15°38	11°D51	10°47	15°40	n.a.	T 29
F 30	18 16 21	3♋ 8'13	17♈47	11♋ 4	20♉35	16♎ 7	16♉58	29♎31	9♐49	9♍45	15♑37	11♊52	10♊44	15♑47	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n28	6s15	5s 8	14n20	2s15	5n23	2s42	3s24	0s45	14n30	0s49	9s30	2n26	22s27	0s 6	9n36	1n36	30s 6	7s26	22n30	22n32	25s42		n.a.
F 2	21 38	0 36	4 42	14 56	2 4	5 44	2 43	3 30	0 47	14 35	0 49	9 29	2 26	22 27	0 6	9 36	1 35	30 6	7 26	22 30	22 31	25 43		n.a.
S 3	21 48	5n16	4 1	15 32	1 53	6 6	2 44	3 37	0 49	14 39	0 49	9 28	2 26	22 27	0 6	9 36	1 35	30 7	7 26	22 30	22 31	25 43		n.a.
S 4	21 57	11 4	3 3	16 9	1 41	6 28	2 45	3 44	0 51	14 43	0 49	9 27	2 26	22 26	0 6	9 35	1 35	30 7	7 27	22 30	22 30	25 43		n.a.
M 5	22 6	16 27	1 53	16 46	1 29	6 49	2 46	3 51	0 53	14 47	0 49	9 27	2 26	22 26	0 6	9 35	1 35	30 7	7 27	22 30	22 30	25 43		n.a.
T 6	22 15	20 59	0 34	17 24	1 17	7 11	2 47	3 58	0 55	14 51	0 48	9 26	2 25	22 26	0 7	9 35	1 35	30 8	7 27	22 30	22 30	25 43		n.a.
W 7	22 23	24 12	0n49	18 2	1 5	7 33	2 47	4 5	0 57	14 55	0 48	9 25	2 25	22 25	0 7	9 35	1 35	30 8	7 27	22 30	22 29	25 43		n.a.
T 8	22 31	25 44	2 8	18 39	0 53	7 55	2 48	4 13	0 59	14 59	0 48	9 24	2 25	22 25	0 7	9 35	1 35	30 8	7 27	22 30	22 29	25 43		n.a.
F 9	22 38	25 22	3 19	19 16	0 41	8 17	2 48	4 21	1 0	15 3	0 48	9 23	2 25	22 25	0 7	9 34	1 35	30 9	7 27	22 30	22 28	25 43		n.a.
S 10	22 45	23 14	4 15	19 53	0 29	8 40	2 48	4 29	1 2	15 7	0 48	9 23	2 25	22 24	0 7	9 34	1 35	30 9	7 28	22 30	22 28	25 43		n.a.
S 11	22 52	19 38	4 54	20 29	0 17	9 2	2 48	4 37	1 4	15 11	0 48	9 22	2 24	22 24	0 7	9 34	1 35	30 9	7 28	22 30	22 27	25 43		n.a.
M12	22 58	14 58	5 14	21 3	0 5	9 24	2 48	4 46	1 5	15 15	0 48	9 21	2 24	22 24	0 7	9 34	1 35	30 10	7 28	22 30	22 27	25 43		n.a.
T 13	23 4	9 40	5 16	21 37	0n 6	9 46	2 47	4 55	1 7	15 19	0 48	9 21	2 24	22 23	0 7	9 33	1 35	30 10	7 28	22 30	22 27	25 43		n.a.
W14	23 10	4 2	5 0	22 8	0 17	10 8	2 47	5 4	1 9	15 23	0 48	9 20	2 24	22 23	0 7	9 33	1 35	30 10	7 28	22 30	22 26	25 43		n.a.
T 15	23 15	1s38	4 28	22 38	0 28	10 30	2 46	5 13	1 10	15 26	0 48	9 20	2 23	22 22	0 7	9 33	1 35	30 10	7 29	22 30	22 26	25 43		n.a.
F 16	23 19	7 7	3 44	23 6	0 38	10 52	2 46	5 22	1 12	15 30	0 48	9 19	2 23	22 22	0 7	9 33	1 35	30 11	7 29	22 30	22 25	25 43		n.a.
S 17	23 23	12 12	2 50	23 32	0 48	11 14	2 45	5 31	1 13	15 34	0 48	9 19	2 23	22 22	0 7	9 32	1 35	30 11	7 29	22 30	22 25	25 43		n.a.
S 18	23 27	16 44	1 49	23 55	0 57	11 35	2 44	5 41	1 15	15 38	0 48	9 18	2 23	22 21	0 7	9 32	1 35	30 11	7 29	22 30	22 24	25 43		n.a.
M19	23 31	20 31	0 44	24 16	1 5	11 57	2 43	5 51	1 16	15 41	0 48	9 18	2 23	22 21	0 7	9 32	1 35	30 12	7 29	22 30	22 24	25 43		n.a.
T 20	23 34	23 22	0s23	24 34	1 13	12 19	2 42	6 1	1 17	15 45	0 48	9 17	2 22	22 21	0 7	9 31	1 35	30 12	7 29	22 30	22 24	25 43		n.a.
W21	23 36	25 10	1 27	24 50	1 20	12 40	2 41	6 11	1 19	15 49	0 48	9 17	2 22	22 20	0 7	9 31	1 35	30 12	7 29	22 30	22 23	25 43		n.a.
T 22	23 38	25 48	2 28	25 2	1 26	13 1	2 40	6 21	1 20	15 52	0 48	9 17	2 22	22 20	0 7	9 31	1 35	30 13	7 30	22 30	22 23	25 43		n.a.
F 23	23 40	25 16	3 22	25 12	1 31	13 23	2 38	6 31	1 21	15 56	0 48	9 16	2 22	22 20	0 7	9 30	1 35	30 13	7 30	22 30	22 22	25 43		n.a.
S 24	23 42	23 35	4 8	25 19	1 36	13 44	2 37	6 42	1 23	15 59	0 48	9 16	2 21	22 19	0 7	9 30	1 35	30 13	7 30	22 29	22 22	25 43		n.a.
S 25	23 43	20 53	4 43	25 23	1 40	14 4	2 35	6 52	1 24	16 3	0 48	9 16	2 21	22 19	0 7	9 29	1 34	30 13	7 30	22 29	22 21	25 43		n.a.
M26	23 43	17 16	5 6	25 25	1 43	14 25	2 34	7 3	1 25	16 6	0 48	9 16	2 21	22 19	0 7	9 29	1 34	30 14	7 30	22 29	22 21	25 43		n.a.
T 27	23 43	12 54	5 15	25 23	1 46	14 45	2 32	7 14	1 26	16 10	0 48	9 16	2 21	22 18	0 7	9 28	1 34	30 14	7 30	22 29	22 20	25 43		n.a.
W28	23 43	7 56	5 11	25 19	1 48	15 6	2 30	7 25	1 28	16 13	0 48	9 15	2 20	22 18	0 7	9 28	1 34	30 14	7 30	22 28	22 20	25 43		n.a.
T 29	23 42	2 32	4 51	25 13	1 49	15 26	2 28	7 36	1 29	16 16	0 48	9 15	2 20	22 18	0 7	9 28	1 34	30 15	7 31	22 28	22 19	25 43		n.a.
F 30	23n41	3n 7	4s16	25n 4	1n50	15n45	2s26	7s48	1s30	16n20	0s48	9s15	2n20	22s18	0s 7	9n27	1n34	30s15	7s31	22n28	22n19	25s43		n.a.

Julian Day Number = 1650350.5, Delta T = 03h31m22s
Ecliptic obliquity = 23°43'10, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'18, Lahiri = - 6°38'17 Julian Calendar 1 June 195 BCE == Greg. Calendar 29 May 195 BCE

The year -194 astronomical counting style corresponds to year 195 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 195 BCE
geocentric

JULY 195 BCE (-194) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 20 17	4♋ 5'34	1♉14	13♋ 1	21♉41	16♎34	17♉ 9	29°R31	9°R46	9♏47	15°R36	11♊53	10♊41	15♑53	n.a.	S 1
S 2	18 24 14	5° 2'57	15° 8	14°57	22°48	17° 1	17°21	29♎30	9♐44	9°48	15♑34	11°54	10°38	16° 0	n.a.	S 2
M 3	18 28 10	6° 0'22	29°28	16°52	23°55	17°28	17°32	29°29	9°42	9°49	15°33	11°55	10°34	16° 7	n.a.	M 3
T 4	18 32 7	6°57'47	14♊11	18°45	25° 2	17°56	17°44	29°29	9°40	9°50	15°32	11°R56	10°31	16°13	n.a.	T 4
W 5	18 36 4	7°55'14	29°12	20°36	26° 9	18°24	17°55	29°29	9°38	9°51	15°30	11°55	10°28	16°20	n.a.	W 5
T 6	18 40 0	8°52'42	14♋24	22°26	27°17	18°52	18° 6	29°28	9°36	9°53	15°29	11°53	10°25	16°27	n.a.	T 6
F 7	18 43 57	9°50'11	29°36	24°14	28°24	19°21	18°17	29°28	9°34	9°54	15°28	11°50	10°22	16°33	n.a.	F 7
S 8	18 47 53	10°47'41	14♌39	26° 1	29°32	19°51	18°28	29°D28	9°32	9°55	15°26	11°46	10°19	16°40	n.a.	S 8
S 9	18 51 50	11°45'11	29°24	27°46	0♊39	20°20	18°39	29°28	9°30	9°57	15°25	11°42	10°15	16°47	n.a.	S 9
M10	18 55 46	12°42'43	13♍44	29°29	1°47	20°50	18°49	29°28	9°28	9°58	15°24	11°38	10°12	16°53	n.a.	M10
T 11	18 59 43	13°40'16	27°38	1♌11	2°55	21°20	19° 0	29°28	9°26	9°59	15°22	11°36	10° 9	17° 0	n.a.	T 11
W12	19 3 39	14°37'50	11♎ 4	2°51	4° 4	21°51	19°11	29°29	9°24	10° 1	15°21	11°D35	10° 6	17° 7	n.a.	W12
T 13	19 7 36	15°35'24	24° 5	4°30	5°12	22°22	19°21	29°29	9°23	10° 2	15°19	11°35	10° 3	17°13	n.a.	T 13
F 14	19 11 33	16°33'00	6♏45	6° 7	6°20	22°53	19°31	29°30	9°21	10° 4	15°18	11°37	10° 0	17°20	n.a.	F 14
S 15	19 15 29	17°30'37	19° 7	7°43	7°29	23°24	19°42	29°30	9°19	10° 5	15°17	11°38	9°56	17°27	n.a.	S 15
S 16	19 19 26	18°28'15	1♐15	9°18	8°38	23°56	19°52	29°31	9°17	10° 7	15°15	11°40	9°53	17°33	n.a.	S 16
M17	19 23 22	19°25'55	13°14	10°50	9°46	24°28	20° 2	29°32	9°16	10° 8	15°14	11°R40	9°50	17°40	n.a.	M17
T 18	19 27 19	20°23'35	25° 6	12°21	10°55	25° 1	20°12	29°33	9°14	10°10	15°13	11°39	9°47	17°47	n.a.	T 18
W19	19 31 15	21°21'17	6♑56	13°51	12° 4	25°33	20°22	29°34	9°13	10°11	15°11	11°36	9°44	17°53	n.a.	W19
T 20	19 35 12	22°19'01	18°45	15°19	13°13	26° 6	20°31	29°35	9°11	10°13	15°10	11°31	9°41	18° 0	n.a.	T 20
F 21	19 39 8	23°16'46	0♒36	16°46	14°23	26°39	20°41	29°36	9° 9	10°15	15° 9	11°25	9°37	18° 7	n.a.	F 21
S 22	19 43 5	24°14'32	12°30	18°11	15°32	27°13	20°50	29°37	9° 8	10°16	15° 7	11°17	9°34	18°13	n.a.	S 22
S 23	19 47 2	25°12'20	24°29	19°34	16°42	27°47	21° 0	29°39	9° 7	10°18	15° 6	11° 9	9°31	18°20	n.a.	S 23
M24	19 50 58	26°10'10	6♓36	20°56	17°51	28°20	21° 9	29°40	9° 5	10°20	15° 5	11° 2	9°28	18°27	n.a.	M24
T 25	19 54 55	27° 8'01	18°51	22°16	19° 1	28°55	21°18	29°42	9° 4	10°21	15° 3	10°55	9°25	18°34	n.a.	T 25
W26	19 58 51	28° 5'55	1♈18	23°35	20°11	29°29	21°27	29°43	9° 2	10°23	15° 2	10°50	9°21	18°40	n.a.	W26
T 27	20 2 48	29° 3'50	14° 0	24°51	21°21	0♏ 4	21°36	29°45	9° 1	10°25	15° 1	10°46	9°18	18°47	n.a.	T 27
F 28	20 6 44	0♌ 1'47	26°59	26° 6	22°31	0°39	21°45	29°47	9° 0	10°27	14°59	10°D45	9°15	18°54	n.a.	F 28
S 29	20 10 41	0°59'46	10♉19	27°19	23°41	1°14	21°54	29°49	8°59	10°29	14°58	10°45	9°12	19° 0	n.a.	S 29
S 30	20 14 37	1°57'47	24° 3	28°30	24°52	1°49	22° 2	29°51	8°58	10°30	14°57	10°46	9° 9	19° 7	n.a.	S 30
M31	20 18 34	2♌55'50	8♊11	29♌39	26♊ 2	2♏25	22♉11	29♎53	8♐56	10♍32	14♑56	10°R47	9♊ 6	19♑14	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n39	8n50	3s26	24n53	1n50	16n 5	2s24	7s59	1s31	16n23	0s48	9s15	2n20	22s17	0s 7	9n27	1n34	30s15	7s31	22n29	22n19	25s43		n.a.
S 2	23 37	14 18	2 22	24 40	1 49	16 24	2 22	8 10	1 32	16 26	0 48	9 15	2 19	22 17	0 7	9 26	1 34	30 15	7 31	22 29	22 18	25 43		n.a.
M 3	23 35	19 10	1 8	24 25	1 48	16 43	2 20	8 22	1 33	16 29	0 48	9 15	2 19	22 17	0 7	9 26	1 34	30 16	7 31	22 29	22 18	25 42		n.a.
T 4	23 32	22 58	0n12	24 8	1 46	17 1	2 18	8 34	1 34	16 33	0 48	9 15	2 19	22 16	0 7	9 25	1 34	30 16	7 31	22 29	22 17	25 42		n.a.
W 5	23 29	25 17	1 34	23 49	1 43	17 20	2 15	8 45	1 35	16 36	0 48	9 16	2 19	22 16	0 7	9 25	1 34	30 16	7 31	22 29	22 17	25 42		n.a.
T 6	23 25	25 44	2 49	23 29	1 40	17 37	2 13	8 57	1 36	16 39	0 48	9 16	2 18	22 16	0 7	9 24	1 34	30 17	7 31	22 29	22 16	25 42		n.a.
F 7	23 21	24 15	3 52	23 7	1 37	17 55	2 10	9 9	1 37	16 42	0 48	9 16	2 18	22 15	0 7	9 24	1 34	30 17	7 31	22 28	22 16	25 42		n.a.
S 8	23 16	21 4	4 39	22 43	1 33	18 12	2 8	9 21	1 38	16 45	0 48	9 16	2 18	22 15	0 7	9 23	1 34	30 17	7 31	22 28	22 15	25 42		n.a.
S 9	23 12	16 35	5 6	22 18	1 29	18 29	2 5	9 34	1 39	16 48	0 48	9 16	2 17	22 15	0 7	9 23	1 34	30 17	7 32	22 27	22 15	25 42		n.a.
M10	23 6	11 16	5 13	21 52	1 24	18 46	2 3	9 46	1 40	16 51	0 48	9 17	2 17	22 15	0 7	9 22	1 34	30 18	7 32	22 27	22 14	25 42		n.a.
T 11	23 0	5 33	5 1	21 25	1 19	19 2	2 0	9 58	1 41	16 54	0 48	9 17	2 17	22 14	0 7	9 21	1 34	30 18	7 32	22 26	22 14	25 41		n.a.
W12	22 54	0s15	4 33	20 57	1 14	19 17	1 57	10 11	1 42	16 57	0 48	9 17	2 17	22 14	0 7	9 21	1 34	30 18	7 32	22 26	22 13	25 41		n.a.
T 13	22 48	5 52	3 51	20 27	1 8	19 33	1 54	10 23	1 42	17 0	0 48	9 18	2 16	22 14	0 7	9 20	1 34	30 18	7 32	22 26	22 13	25 41		n.a.
F 14	22 41	11 7	2 59	19 57	1 2	19 47	1 52	10 36	1 43	17 2	0 48	9 18	2 16	22 13	0 7	9 20	1 34	30 19	7 32	22 26	22 13	25 41		n.a.
S 15	22 33	15 47	2 0	19 26	0 55	20 2	1 49	10 48	1 44	17 5	0 48	9 19	2 16	22 13	0 7	9 19	1 34	30 19	7 32	22 27	22 12	25 41		n.a.
S 16	22 26	19 44	0 57	18 55	0 48	20 16	1 46	11 1	1 45	17 8	0 49	9 19	2 16	22 13	0 7	9 18	1 34	30 19	7 32	22 27	22 12	25 40		n.a.
M17	22 18	22 48	0s 9	18 23	0 41	20 29	1 43	11 13	1 45	17 11	0 49	9 20	2 15	22 13	0 7	9 18	1 34	30 19	7 32	22 27	22 11	25 40		n.a.
T 18	22 9	24 50	1 13	17 50	0 34	20 42	1 40	11 26	1 46	17 13	0 49	9 20	2 15	22 12	0 7	9 17	1 34	30 19	7 32	22 27	22 11	25 40		n.a.
W19	22 0	25 45	2 13	17 17	0 26	20 54	1 37	11 39	1 47	17 16	0 49	9 21	2 15	22 12	0 7	9 17	1 34	30 20	7 32	22 26	22 10	25 40		n.a.
T 20	21 51	25 29	3 8	16 43	0 18	21 6	1 33	11 52	1 48	17 18	0 49	9 21	2 15	22 12	0 7	9 16	1 34	30 20	7 32	22 26	22 10	25 40		n.a.
F 21	21 41	24 4	3 54	16 9	0 10	21 18	1 30	12 5	1 48	17 21	0 49	9 22	2 14	22 12	0 7	9 15	1 34	30 20	7 32	22 25	22 9	25 39		n.a.
S 22	21 31	21 34	4 30	15 35	0 2	21 29	1 27	12 17	1 49	17 24	0 49	9 23	2 14	22 11	0 7	9 15	1 33	30 20	7 32	22 24	22 9	25 39		n.a.
S 23	21 21	18 8	4 55	15 1	0s 7	21 39	1 24	12 30	1 49	17 26	0 49	9 24	2 14	22 11	0 7	9 14	1 33	30 20	7 32	22 23	22 8	25 39		n.a.
M24	21 10	13 56	5 7	14 26	0 15	21 49	1 21	12 43	1 50	17 28	0 49	9 24	2 13	22 11	0 7	9 13	1 33	30 21	7 32	22 22	22 8	25 39		n.a.
T 25	20 59	9 8	5 5	13 52	0 24	21 58	1 17	12 56	1 51	17 31	0 49	9 25	2 13	22 11	0 7	9 13	1 33	30 21	7 32	22 21	22 7	25 38		n.a.
W26	20 47	3 53	4 49	13 18	0 33	22 7	1 14	13 9	1 51	17 33	0 49	9 26	2 13	22 11	0 7	9 12	1 33	30 21	7 32	22 20	22 7	25 38		n.a.
T 27	20 35	1n38	4 18	12 43	0 42	22 15	1 11	13 22	1 52	17 35	0 49	9 27	2 13	22 10	0 7	9 11	1 33	30 21	7 32	22 19	22 6	25 38		n.a.
F 28	20 23	7 12	3 34	12 9	0 52	22 23	1 8	13 35	1 52	17 38	0 49	9 28	2 12	22 10	0 7	9 10	1 33	30 21	7 32	22 19	22 6	25 37		n.a.
S 29	20 10	12 37	2 36	11 35	1 1	22 30	1 4	13 48	1 53	17 40	0 49	9 29	2 12	22 10	0 7	9 10	1 33	30 21	7 32	22 19	22 5	25 37		n.a.
S 30	19 57	17 34	1 29	11 2	1 10	22 36	1 1	14 1	1 53	17 42	0 49	9 30	2 12	22 10	0 7	9 9	1 33	30 22	7 32	22 19	22 5	25 37		n.a.
M31	19n44	21n42	0s14	10n29	1s20	22n42	0s58	14s14	1s54	17n44	0s49	9s31	2n12	22s10	0s 7	9n 8	1n33	30s22	7s32	22n19	22n 4	25s37		n.a.

Julian Day Number = 1650380.5, Delta T = 03h31m21s
Ecliptic obliquity = 23°43'10, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'14, Lahiri = - 6°38'13 Julian Calendar 1 July 195 BCE == Greg. Calendar 28 June 195 BCE

The year -194 astronomical counting style corresponds to year 195 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 195 BCE
geocentric

AUGUST 195 BCE (-194) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 22 31	3♌53'56	22♊43	0♍46	27♊13	3♏ 1	22♉19	29♎55	8°R55	10♍34	14°R54	10°R47	9♊ 2	19♑20	n.a.	T 1
W 2	20 26 27	4°52'03	7♋36	1°51	28°23	3°37	22°27	29°58	8♐54	10°36	14♑53	10♊44	8°59	19°27	n.a.	W 2
T 3	20 30 24	5°50'13	22°44	2°53	29°34	4°13	22°35	29°59	8°53	10°38	14°52	10°39	8°56	19°34	n.a.	T 3
F 4	20 34 20	6°48'24	7♌57	3°53	0♋45	4°50	22°43	0♏ 2	8°52	10°40	14°50	10°32	8°53	19°40	n.a.	F 4
S 5	20 38 17	7°46'37	23° 6	4°50	1°56	5°26	22°51	0° 5	8°52	10°42	14°49	10°24	8°50	19°47	n.a.	S 5
S 6	20 42 13	8°44'51	7♍59	5°45	3° 7	6° 3	22°58	0° 8	8°51	10°44	14°48	10°15	8°46	19°54	n.a.	S 6
M 7	20 46 10	9°43'08	22°28	6°36	4°18	6°40	23° 6	0°10	8°50	10°46	14°47	10° 7	8°43	20° 0	n.a.	M 7
T 8	20 50 6	10°41'26	6♎30	7°24	5°29	7°18	23°13	0°13	8°49	10°48	14°46	10° 0	8°40	20° 7	n.a.	T 8
W 9	20 54 3	11°39'45	20° 2	8° 9	6°40	7°55	23°20	0°16	8°49	10°50	14°44	9°56	8°37	20°14	n.a.	W 9
T 10	20 58 0	12°38'07	3♏ 6	8°50	7°52	8°33	23°27	0°19	8°48	10°52	14°43	9°54	8°34	20°20	n.a.	T 10
F 11	21 1 56	13°36'30	15°45	9°27	9° 3	9°11	23°34	0°22	8°47	10°54	14°42	9°D53	8°31	20°27	n.a.	F 11
S 12	21 5 53	14°34'54	28° 5	10° 1	10°15	9°49	23°41	0°25	8°47	10°56	14°41	9°54	8°27	20°34	n.a.	S 12
S 13	21 9 49	15°33'21	10♐ 9	10°29	11°27	10°27	23°47	0°29	8°46	10°58	14°40	9°R54	8°24	20°40	n.a.	S 13
M14	21 13 46	16°31'49	22° 4	10°53	12°38	11° 6	23°54	0°32	8°46	11° 0	14°39	9°53	8°21	20°47	n.a.	M14
T 15	21 17 42	17°30'19	3♑53	11°12	13°50	11°44	24° 0	0°36	8°45	11° 2	14°38	9°51	8°18	20°54	n.a.	T 15
W16	21 21 39	18°28'51	15°42	11°25	15° 2	12°23	24° 6	0°39	8°45	11° 4	14°37	9°45	8°15	21° 0	n.a.	W16
T 17	21 25 35	19°27'24	27°32	11°32	16°14	13° 2	24°12	0°43	8°45	11° 6	14°35	9°37	8°12	21° 7	n.a.	T 17
F 18	21 29 32	20°26'00	9♒27	11°R33	17°26	13°41	24°18	0°46	8°44	11° 8	14°34	9°27	8° 8	21°14	n.a.	F 18
S 19	21 33 29	21°24'37	21°29	11°28	18°38	14°21	24°23	0°50	8°44	11°10	14°33	9°15	8° 5	21°21	n.a.	S 19
S 20	21 37 25	22°23'17	3♓38	11°16	19°51	15° 0	24°29	0°54	8°44	11°13	14°32	9° 1	8° 2	21°27	n.a.	S 20
M21	21 41 22	23°21'58	15°56	10°57	21° 3	15°40	24°34	0°58	8°44	11°15	14°31	8°49	7°59	21°34	n.a.	M21
T 22	21 45 18	24°20'42	28°24	10°31	22°15	16°19	24°39	1° 2	8°D44	11°17	14°30	8°37	7°56	21°41	n.a.	T 22
W23	21 49 15	25°19'28	11♈ 1	9°57	23°28	16°59	24°44	1° 6	8°44	11°19	14°29	8°28	7°52	21°47	n.a.	W23
T 24	21 53 11	26°18'16	23°51	9°17	24°40	17°39	24°49	1°10	8°44	11°21	14°28	8°22	7°49	21°54	n.a.	T 24
F 25	21 57 8	27°17'07	6♉54	8°30	25°53	18°19	24°53	1°14	8°44	11°23	14°28	8°18	7°46	22° 1	n.a.	F 25
S 26	22 1 4	28°16'00	20°13	7°37	27° 6	19° 0	24°58	1°19	8°44	11°25	14°27	8°17	7°43	22° 7	n.a.	S 26
S 27	22 5 1	29°14'56	3♊49	6°38	28°19	19°40	25° 2	1°23	8°45	11°28	14°26	8°17	7°40	22°14	n.a.	S 27
M28	22 8 57	0♍13'54	17°46	5°36	29°32	20°21	25° 6	1°27	8°45	11°30	14°25	8°16	7°37	22°21	n.a.	M28
T 29	22 12 54	1°12'54	2♋ 3	4°30	0♌45	21° 1	25°10	1°32	8°45	11°32	14°24	8°15	7°33	22°27	n.a.	T 29
W30	22 16 51	2°11'57	16°38	3°22	1°58	21°42	25°14	1°36	8°45	11°34	14°23	8°11	7°30	22°34	n.a.	W30
T 31	22 20 47	3♍11'03	1♌28	2♍15	3♌11	22♏23	25♉17	1♏41	8♐46	11♍37	14♑22	8♊ 5	7♊27	22♑41	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	19n30	24n35	1n 4	9n56	1s30	22n47	0s54	14s27	1s54	17n46	0s49	9s32	2n11	22s10	0s 7	9n 8	1n33	30s22	7s32	22n19	22n 4	25s36			n.a.
W 2	19 16	25 48	2 19	9 24	1 39	22 52	0 51	14 40	1 55	17 48	0 49	9 33	2 11	22 9	0 7	9 7	1 33	30 22	7 32	22 19	22 3	25 36			n.a.
T 3	19 2	25 9	3 25	8 52	1 49	22 56	0 48	14 53	1 55	17 50	0 49	9 34	2 11	22 9	0 7	9 6	1 33	30 22	7 32	22 18	22 3	25 36			n.a.
F 4	18 47	22 38	4 17	8 22	1 58	22 59	0 44	15 5	1 55	17 52	0 49	9 35	2 11	22 9	0 7	9 5	1 33	30 22	7 32	22 17	22 2	25 35			n.a.
S 5	18 32	18 33	4 51	7 52	2 8	23 1	0 41	15 18	1 56	17 54	0 49	9 36	2 10	22 9	0 7	9 5	1 33	30 23	7 32	22 16	22 2	25 35			n.a.
S 6	18 17	13 22	5 5	7 23	2 17	23 3	0 38	15 31	1 56	17 56	0 49	9 37	2 10	22 9	0 7	9 4	1 33	30 23	7 32	22 15	22 1	25 35			n.a.
M 7	18 1	7 34	4 58	6 55	2 27	23 5	0 34	15 44	1 57	17 58	0 49	9 38	2 10	22 9	0 7	9 3	1 33	30 23	7 32	22 14	22 1	25 34			n.a.
T 8	17 46	1 34	4 33	6 29	2 36	23 5	0 31	15 57	1 57	18 0	0 49	9 40	2 10	22 9	0 7	9 2	1 33	30 23	7 32	22 13	22 0	25 34			n.a.
W 9	17 29	4s19	3 54	6 3	2 45	23 5	0 28	16 10	1 57	18 2	0 49	9 41	2 9	22 9	0 7	9 1	1 33	30 23	7 32	22 12	22 0	25 33			n.a.
T 10	17 13	9 49	3 3	5 40	2 54	23 5	0 24	16 22	1 58	18 3	0 49	9 42	2 9	22 8	0 7	9 1	1 33	30 23	7 32	22 12	21 59	25 33			n.a.
F 11	16 56	14 45	2 5	5 18	3 3	23 3	0 21	16 35	1 58	18 5	0 49	9 43	2 9	22 8	0 7	9 0	1 33	30 23	7 32	22 12	21 59	25 33			n.a.
S 12	16 39	18 57	1 3	4 57	3 11	23 2	0 18	16 47	1 58	18 7	0 49	9 45	2 9	22 8	0 7	8 59	1 33	30 23	7 32	22 12	21 58	25 32			n.a.
S 13	16 22	22 15	0s 1	4 39	3 19	22 59	0 14	17 0	1 58	18 8	0 50	9 46	2 8	22 8	0 7	8 58	1 33	30 23	7 32	22 12	21 58	25 32			n.a.
M14	16 4	24 33	1 4	4 23	3 27	22 56	0 11	17 12	1 59	18 10	0 50	9 48	2 8	22 8	0 7	8 57	1 33	30 24	7 32	22 12	21 57	25 32			n.a.
T 15	15 46	25 44	2 4	4 10	3 34	22 52	0 8	17 25	1 59	18 11	0 50	9 49	2 8	22 8	0 7	8 57	1 33	30 24	7 32	22 11	21 57	25 31			n.a.
W16	15 28	25 44	2 58	3 59	3 40	22 47	0 5	17 37	1 59	18 13	0 50	9 50	2 8	22 8	0 7	8 56	1 33	30 24	7 32	22 10	21 56	25 31			n.a.
T 17	15 9	24 34	3 45	3 50	3 46	22 42	0 2	17 50	1 59	18 14	0 50	9 52	2 8	22 8	0 7	8 55	1 33	30 24	7 32	22 9	21 56	25 30			n.a.
F 18	14 51	22 17	4 21	3 45	3 51	22 36	0n 2	18 2	1 59	18 16	0 50	9 53	2 7	22 8	0 7	8 54	1 33	30 24	7 32	22 8	21 55	25 30			n.a.
S 19	14 32	19 1	4 47	3 44	3 55	22 29	0 5	18 14	2 0	18 17	0 50	9 55	2 7	22 8	0 7	8 53	1 33	30 24	7 32	22 6	21 55	25 29			n.a.
S 20	14 13	14 56	5 0	3 46	3 58	22 22	0 8	18 26	2 0	18 18	0 50	9 57	2 7	22 8	0 7	8 52	1 33	30 24	7 32	22 4	21 54	25 29			n.a.
M21	13 53	10 11	4 59	3 52	3 59	22 14	0 11	18 38	2 0	18 20	0 50	9 58	2 7	22 8	0 7	8 52	1 33	30 24	7 32	22 2	21 54	25 28			n.a.
T 22	13 34	4 58	4 43	4 1	4 0	22 5	0 14	18 50	2 0	18 21	0 50	10 0	2 6	22 8	0 7	8 51	1 33	30 24	7 32	22 0	21 53	25 28			n.a.
W23	13 14	0n31	4 14	4 15	3 58	21 56	0 17	19 1	2 0	18 22	0 50	10 1	2 6	22 8	0 7	8 50	1 33	30 24	7 32	21 58	21 53	25 28			n.a.
T 24	12 54	6 5	3 32	4 33	3 55	21 46	0 20	19 13	2 0	18 23	0 50	10 3	2 6	22 8	0 7	8 49	1 33	30 24	7 32	21 57	21 52	25 27			n.a.
F 25	12 33	11 30	2 38	4 55	3 51	21 35	0 23	19 25	2 0	18 24	0 50	10 5	2 6	22 8	0 7	8 48	1 33	30 24	7 32	21 57	21 52	25 27			n.a.
S 26	12 13	16 30	1 34	5 21	3 44	21 24	0 26	19 36	2 0	18 25	0 50	10 6	2 5	22 8	0 7	8 47	1 33	30 24	7 31	21 57	21 51	25 26			n.a.
S 27	11 52	20 47	0 24	5 51	3 35	21 12	0 28	19 47	2 0	18 26	0 50	10 8	2 5	22 8	0 7	8 47	1 33	30 24	7 31	21 57	21 51	25 26			n.a.
M28	11 31	23 59	0n50	6 24	3 25	21 0	0 31	19 58	2 0	18 27	0 50	10 10	2 5	22 8	0 7	8 46	1 33	30 24	7 31	21 57	21 50	25 25			n.a.
T 29	11 10	25 44	2 2	7 0	3 12	20 47	0 34	20 9	2 0	18 28	0 50	10 12	2 5	22 8	0 7	8 45	1 33	30 24	7 31	21 56	21 50	25 25			n.a.
W30	10 49	25 46	3 8	7 38	2 58	20 33	0 37	20 20	2 0	18 29	0 50	10 13	2 5	22 8	0 7	8 44	1 33	30 24	7 31	21 56	21 49	25 24			n.a.
T 31	10n27	23n59	4n 2	8n17	2s41	20n19	0n39	20s31	2s 0	18n30	0s50	10s15	2n 4	22s 8	0s 7	8n43	1n33	30s24	7s31	21n55	21n49	25s24			n.a.

Julian Day Number = 1650411.5, Delta T = 03h31m20s
Ecliptic obliquity = 23°43'11, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'09, Lahiri = - 6°38'09 Julian Calendar 1 Aug. 195 BCE == Greg. Calendar 29 July 195 BCE

The year -194 astronomical counting style corresponds to year 195 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 195 BCE
geocentric

SEPTEMBER 195 BCE (-194) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	22 24 44	4♍10'10	16♌26	1°R 9	4♌24	23♏ 4	25♉21	1♏46	8♐46	11♍39	14°R22	7°R55	7♊24	22♂47	n.a.	F 1
S 2	22 28 40	5° 9'20	1♍23	0♍ 7	5°37	23°46	25°24	1°51	8°47	11°41	14♂21	7♊44	7°21	22°54	n.a.	S 2
S 3	22 32 37	6° 8'32	16°10	29♌10	6°51	24°27	25°27	1°55	8°47	11°43	14°20	7°32	7°18	23° 1	n.a.	S 3
M 4	22 36 33	7° 7'45	0♎38	28°20	8° 4	25° 9	25°29	2° 0	8°48	11°45	14°19	7°21	7°14	23° 7	n.a.	M 4
T 5	22 40 30	8° 7'01	14°41	27°39	9°17	25°50	25°32	2° 5	8°49	11°48	14°19	7°12	7°11	23°14	n.a.	T 5
W 6	22 44 26	9° 6'19	28°17	27° 6	10°31	26°32	25°34	2°10	8°49	11°50	14°18	7° 5	7° 8	23°21	n.a.	W 6
T 7	22 48 23	10° 5'39	11♏24	26°44	11°45	27°14	25°37	2°16	8°50	11°52	14°17	7° 1	7° 5	23°28	n.a.	T 7
F 8	22 52 20	11° 5'01	24° 7	26°33	12°58	27°56	25°39	2°21	8°51	11°54	14°17	6°59	7° 2	23°34	n.a.	F 8
S 9	22 56 16	12° 4'24	6♐28	26°D32	14°12	28°38	25°40	2°26	8°52	11°57	14°16	6°59	6°58	23°41	n.a.	S 9
S 10	23 0 13	13° 3'50	18°33	26°42	15°26	29°20	25°42	2°31	8°53	11°59	14°16	6°59	6°55	23°48	n.a.	S 10
M11	23 4 9	14° 3'17	0♑28	27° 2	16°39	0♐ 3	25°43	2°37	8°54	12° 1	14°15	6°58	6°52	23°54	n.a.	M11
T 12	23 8 6	15° 2'47	12°17	27°32	17°53	0°45	25°45	2°42	8°55	12° 3	14°14	6°55	6°49	24° 1	n.a.	T 12
W13	23 12 2	16° 2'18	24° 7	28°12	19° 7	1°28	25°46	2°48	8°56	12° 6	14°14	6°50	6°46	24° 8	n.a.	W13
T 14	23 15 59	17° 1'51	6♒ 0	29° 0	20°21	2°10	25°47	2°53	8°57	12° 8	14°14	6°42	6°43	24°14	n.a.	T 14
F 15	23 19 55	18° 1'26	18° 1	29°56	21°35	2°53	25°47	2°59	8°58	12°10	14°13	6°31	6°39	24°21	n.a.	F 15
S 16	23 23 52	19° 1'03	0♓11	0♍59	22°49	3°36	25°48	3° 4	8°59	12°12	14°13	6°19	6°36	24°28	n.a.	S 16
S 17	23 27 48	20° 0'42	12°33	2° 8	24° 4	4°19	25°48	3°10	9° 1	12°15	14°12	6° 5	6°33	24°34	n.a.	S 17
M18	23 31 45	21° 0'23	25° 6	3°23	25°18	5° 2	25°R48	3°16	9° 2	12°17	14°12	5°52	6°30	24°41	n.a.	M18
T 19	23 35 42	22° 0'06	7♈51	4°42	26°32	5°45	25°48	3°22	9° 3	12°19	14°12	5°40	6°27	24°48	n.a.	T 19
W20	23 39 38	22°59'52	20°47	6° 5	27°46	6°28	25°47	3°28	9° 5	12°21	14°11	5°31	6°23	24°54	n.a.	W20
T 21	23 43 35	23°59'39	3♉54	7°32	29° 1	7°11	25°47	3°33	9° 6	12°23	14°11	5°24	6°20	25° 1	n.a.	T 21
F 22	23 47 31	24°59'29	17°12	9° 2	0♍15	7°54	25°46	3°39	9° 8	12°26	14°11	5°21	6°17	25° 8	n.a.	F 22
S 23	23 51 28	25°59'21	0♊41	10°35	1°29	8°38	25°45	3°45	9° 9	12°28	14°10	5°D19	6°14	25°15	n.a.	S 23
S 24	23 55 24	26°59'16	14°21	12° 9	2°44	9°21	25°44	3°51	9°11	12°30	14°10	5°19	6°11	25°21	n.a.	S 24
M25	23 59 21	27°59'13	28°14	13°45	3°59	10° 5	25°42	3°58	9°13	12°32	14°10	5°R20	6° 8	25°28	n.a.	M25
T 26	0 3 17	28°59'12	12♋20	15°22	5°13	10°49	25°41	4° 4	9°14	12°34	14°10	5°19	6° 4	25°35	n.a.	T 26
W27	0 7 14	29°59'13	26°37	16°59	6°28	11°32	25°39	4°10	9°16	12°36	14°10	5°16	6° 1	25°41	n.a.	W27
T 28	0 11 11	0♎59'17	11♌ 5	18°38	7°42	12°16	25°37	4°16	9°18	12°39	14°10	5°11	5°58	25°48	n.a.	T 28
F 29	0 15 7	1°59'23	25°38	20°17	8°57	13° 0	25°35	4°22	9°20	12°41	14° 9	5° 3	5°55	25°55	n.a.	F 29
S 30	0 19 4	2♎59'31	10♍10	21♍57	10♍12	13♐44	25♉32	4♏29	9♐22	12♍43	14♂ 9	4♊54	5♊52	26♂ 1	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	10n 6	20n32	4n40	8n57	2s24	20n 4	0n42	20s42	2s 0	18n30	0s50	10s17	2n 4	22s 8	0s 7	8n42	1n33	30s24	7s31	21n53	21n48	25s23		n.a.
S 2	9 44	15 44	4 58	9 37	2 5	19 48	0 44	20 52	2 0	18 31	0 50	10 19	2 4	22 8	0 7	8 41	1 33	30 24	7 31	21 51	21 47	25 22		n.a.
S 3	9 22	10 4	4 57	10 15	1 45	19 32	0 47	21 3	2 0	18 32	0 51	10 21	2 4	22 8	0 7	8 41	1 33	30 24	7 31	21 49	21 47	25 22		n.a.
M 4	9 0	3 57	4 36	10 51	1 25	19 15	0 49	21 13	2 0	18 32	0 51	10 23	2 4	22 9	0 7	8 40	1 33	30 24	7 31	21 48	21 46	25 21		n.a.
T 5	8 37	2s11	3 59	11 25	1 5	18 58	0 52	21 23	2 0	18 33	0 51	10 25	2 3	22 9	0 7	8 39	1 33	30 24	7 31	21 46	21 46	25 21		n.a.
W 6	8 15	8 3	3 9	11 55	0 45	18 40	0 54	21 33	2 0	18 34	0 51	10 27	2 3	22 9	0 7	8 38	1 33	30 24	7 30	21 45	21 45	25 20		n.a.
T 7	7 52	13 21	2 11	12 21	0 26	18 22	0 56	21 43	2 0	18 34	0 51	10 29	2 3	22 9	0 7	8 37	1 33	30 24	7 30	21 44	21 45	25 20		n.a.
F 8	7 30	17 56	1 8	12 42	0 7	18 3	0 58	21 53	2 0	18 34	0 51	10 30	2 3	22 9	0 7	8 36	1 33	30 24	7 30	21 44	21 44	25 19		n.a.
S 9	7 7	21 36	0 3	12 59	0n10	17 44	1 1	22 2	2 0	18 35	0 51	10 32	2 3	22 9	0 7	8 35	1 33	30 24	7 30	21 44	21 44	25 18		n.a.
S 10	6 44	24 14	1s 1	13 11	0 27	17 24	1 3	22 11	2 0	18 35	0 51	10 34	2 3	22 9	0 7	8 35	1 33	30 24	7 30	21 44	21 43	25 18		n.a.
M11	6 21	25 44	2 1	13 18	0 42	17 3	1 5	22 21	2 0	18 36	0 51	10 36	2 2	22 9	0 7	8 34	1 33	30 24	7 30	21 44	21 43	25 17		n.a.
T 12	5 57	26 3	2 55	13 21	0 56	16 42	1 7	22 30	1 59	18 36	0 51	10 39	2 2	22 10	0 7	8 33	1 33	30 24	7 30	21 43	21 42	25 17		n.a.
W13	5 34	25 11	3 42	13 18	1 8	16 21	1 9	22 38	1 59	18 36	0 51	10 41	2 2	22 10	0 7	8 32	1 33	30 24	7 30	21 42	21 42	25 16		n.a.
T 14	5 11	23 10	4 19	13 12	1 19	15 59	1 10	22 47	1 59	18 36	0 51	10 43	2 2	22 10	0 7	8 31	1 33	30 24	7 30	21 41	21 41	25 15		n.a.
F 15	4 47	20 7	4 45	13 1	1 29	15 37	1 12	22 55	1 59	18 36	0 51	10 45	2 2	22 10	0 7	8 30	1 33	30 24	7 29	21 39	21 40	25 15		n.a.
S 16	4 24	16 11	4 59	12 46	1 37	15 14	1 14	23 4	1 59	18 36	0 51	10 47	2 1	22 10	0 7	8 29	1 33	30 24	7 29	21 37	21 40	25 14		n.a.
S 17	4 0	11 31	4 59	12 27	1 44	14 50	1 15	23 12	1 58	18 36	0 51	10 49	2 1	22 11	0 7	8 29	1 33	30 24	7 29	21 35	21 39	25 13		n.a.
M18	3 36	6 18	4 44	12 5	1 49	14 27	1 17	23 19	1 58	18 36	0 51	10 51	2 1	22 11	0 7	8 28	1 33	30 24	7 29	21 32	21 39	25 13		n.a.
T 19	3 13	0 45	4 15	11 40	1 54	14 3	1 18	23 27	1 58	18 36	0 51	10 53	2 1	22 11	0 7	8 27	1 33	30 23	7 29	21 30	21 38	25 12		n.a.
W20	2 49	4n56	3 33	11 12	1 57	13 38	1 20	23 34	1 58	18 36	0 51	10 55	2 1	22 11	0 7	8 26	1 33	30 23	7 29	21 28	21 38	25 11		n.a.
T 21	2 25	10 29	2 38	10 41	2 0	13 13	1 21	23 42	1 57	18 36	0 51	10 58	2 1	22 11	0 7	8 25	1 33	30 23	7 29	21 27	21 37	25 11		n.a.
F 22	2 1	15 39	1 35	10 8	2 1	12 48	1 23	23 49	1 57	18 36	0 51	11 0	2 0	22 12	0 7	8 24	1 33	30 23	7 29	21 27	21 37	25 10		n.a.
S 23	1 37	20 8	0 25	9 33	2 1	12 22	1 24	23 55	1 57	18 35	0 51	11 2	2 0	22 12	0 7	8 24	1 33	30 23	7 29	21 26	21 36	25 9		n.a.
S 24	1 13	23 35	0n48	8 57	2 1	11 56	1 25	24 2	1 57	18 35	0 51	11 4	2 0	22 12	0 7	8 23	1 33	30 23	7 28	21 26	21 36	25 9		n.a.
M25	0 49	25 41	1 59	8 19	2 0	11 30	1 26	24 8	1 56	18 35	0 51	11 6	2 0	22 12	0 7	8 22	1 33	30 23	7 28	21 26	21 35	25 8		n.a.
T 26	0 24	26 11	3 3	7 39	1 59	11 3	1 27	24 14	1 56	18 34	0 51	11 9	2 0	22 13	0 7	8 21	1 33	30 23	7 28	21 26	21 34	25 7		n.a.
W27	0 0	24 58	3 58	6 59	1 56	10 36	1 28	24 20	1 56	18 34	0 51	11 11	2 0	22 13	0 7	8 20	1 33	30 23	7 28	21 26	21 34	25 7		n.a.
T 28	0s24	22 5	4 37	6 17	1 53	10 9	1 29	24 26	1 55	18 33	0 51	11 13	2 0	22 13	0 7	8 19	1 33	30 23	7 28	21 25	21 33	25 6		n.a.
F 29	0 48	17 49	4 59	5 35	1 50	9 41	1 30	24 31	1 55	18 33	0 51	11 15	1 59	22 14	0 7	8 19	1 33	30 22	7 28	21 23	21 33	25 5		n.a.
S 30	1s12	12n29	5n 2	4n51	1n46	9n13	1n30	24s37	1s55	18n32	0s51	11s18	1n59	22s14	0s 7	8n18	1n33	30s22	7s28	21n22	21n32	25s 4		n.a.

Julian Day Number = 1650442.5, Delta T = 03h31m19s
Ecliptic obliquity = 23°43'11, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'05, Lahiri = - 6°38'05 Julian Calendar 1 Sept. 195 BCE == Greg. Calendar 29 Aug. 195 BCE

The year -194 astronomical counting style corresponds to year 195 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 195 BCE
geocentric

OCTOBER 195 BCE (-194) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 23 0	3♎59'41	24♍36	23♍36	11♍27	14♐28	25°R30	4♏35	9♐24	12♍45	14°R 9	4°R44	5♊49	26♉ 8	n.a.	S 1
M 2	0 26 57	4°59'54	8♎48	25°16	12°42	15°12	25♉27	4°41	9°26	12°47	14°D 9	4♊34	5°45	26°15	n.a.	M 2
T 3	0 30 53	6° 0'08	22°40	26°56	13°56	15°56	25°24	4°48	9°28	12°49	14♉ 9	4°26	5°42	26°21	n.a.	T 3
W 4	0 34 50	7° 0'23	6♏10	28°36	15°11	16°40	25°21	4°54	9°30	12°51	14° 9	4°20	5°39	26°28	n.a.	W 4
T 5	0 38 46	8° 0'41	19°16	0♎15	16°26	17°25	25°18	5° 1	9°32	12°53	14°10	4°16	5°36	26°35	n.a.	T 5
F 6	0 42 43	9° 1'00	1♐59	1°54	17°41	18° 9	25°14	5° 7	9°34	12°55	14°10	4°D15	5°33	26°42	n.a.	F 6
S 7	0 46 40	10° 1'21	14°22	3°33	18°56	18°54	25°10	5°14	9°36	12°58	14°10	4°15	5°29	26°48	n.a.	S 7
S 8	0 50 36	11° 1'44	26°29	5°12	20°11	19°38	25° 6	5°20	9°38	13° 0	14°10	4°16	5°26	26°55	n.a.	S 8
M 9	0 54 33	12° 2'08	8♉26	6°50	21°26	20°23	25° 2	5°27	9°41	13° 2	14°10	4°R17	5°23	27° 2	n.a.	M 9
T 10	0 58 29	13° 2'34	20°17	8°28	22°41	21° 7	24°58	5°34	9°43	13° 4	14°10	4°17	5°20	27° 8	n.a.	T 10
W11	1 2 26	14° 3'01	2♒ 7	10° 6	23°57	21°52	24°53	5°40	9°45	13° 6	14°11	4°15	5°17	27°15	n.a.	W11
T 12	1 6 22	15° 3'29	14° 3	11°43	25°12	22°37	24°49	5°47	9°48	13° 8	14°11	4°11	5°14	27°22	n.a.	T 12
F 13	1 10 19	16° 3'59	26° 7	13°20	26°27	23°21	24°44	5°54	9°50	13°10	14°11	4° 5	5°10	27°28	n.a.	F 13
S 14	1 14 15	17° 4'31	8♓23	14°57	27°42	24° 6	24°39	6° 1	9°53	13°11	14°12	3°57	5° 7	27°35	n.a.	S 14
S 15	1 18 12	18° 5'04	20°55	16°34	28°57	24°51	24°34	6° 7	9°55	13°13	14°12	3°48	5° 4	27°42	n.a.	S 15
M16	1 22 8	19° 5'38	3♈42	18°10	0♎12	25°36	24°28	6°14	9°58	13°15	14°12	3°40	5° 1	27°48	n.a.	M16
T 17	1 26 5	20° 6'14	16°45	19°46	1°28	26°21	24°23	6°21	10° 0	13°17	14°13	3°32	4°58	27°55	n.a.	T 17
W18	1 30 2	21° 6'51	0♉ 4	21°21	2°43	27° 6	24°17	6°28	10° 3	13°19	14°13	3°26	4°55	28° 2	n.a.	W18
T 19	1 33 58	22° 7'30	13°35	22°56	3°58	27°51	24°12	6°35	10° 6	13°21	14°14	3°23	4°51	28° 9	n.a.	T 19
F 20	1 37 55	23° 8'11	27°17	24°32	5°14	28°36	24° 6	6°42	10° 8	13°23	14°14	3°D21	4°48	28°15	n.a.	F 20
S 21	1 41 51	24° 8'54	11♊ 8	26° 6	6°29	29°21	23°59	6°49	10°11	13°25	14°15	3°21	4°45	28°22	n.a.	S 21
S 22	1 45 48	25° 9'38	25° 6	27°41	7°44	0♉ 6	23°53	6°56	10°14	13°26	14°15	3°22	4°42	28°29	n.a.	S 22
M23	1 49 44	26°10'24	9♋10	29°15	9° 0	0°51	23°47	7° 2	10°17	13°28	14°16	3°24	4°39	28°35	n.a.	M23
T 24	1 53 41	27°11'12	23°17	0♏50	10°15	1°36	23°40	7° 9	10°20	13°30	14°16	3°R25	4°35	28°42	n.a.	T 24
W25	1 57 38	28°12'01	7♌26	2°24	11°30	2°21	23°34	7°16	10°22	13°32	14°17	3°24	4°32	28°49	n.a.	W25
T 26	2 1 34	29°12'52	21°36	3°58	12°46	3° 7	23°27	7°23	10°25	13°33	14°18	3°22	4°29	28°55	n.a.	T 26
F 27	2 5 31	0♏13'45	5♍45	5°31	14° 1	3°52	23°20	7°30	10°28	13°35	14°18	3°19	4°26	29° 2	n.a.	F 27
S 28	2 9 27	1°14'39	19°49	7° 5	15°17	4°37	23°13	7°37	10°31	13°37	14°19	3°14	4°23	29° 9	n.a.	S 28
S 29	2 13 24	2°15'34	3♎45	8°39	16°32	5°22	23° 6	7°44	10°34	13°38	14°20	3° 9	4°20	29°16	n.a.	S 29
M30	2 17 20	3°16'31	17°30	10°12	17°48	6° 8	22°59	7°51	10°37	13°40	14°21	3° 4	4°16	29°22	n.a.	M30
T 31	2 21 17	4♏17'30	1♏ 0	11♏45	19♎ 3	6♉53	22♉51	7♏58	10♐40	13♍41	14♉21	3♊ 0	4♊13	29♉29	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	1s36	6n32	4n46	4n 8	1n42	8n45	1n31	24s42	1s54	18n32	0s52	11s20	1n59	22s14	0s 7	8n17	1n33	30s22	7s27	21n20	21n32	25s 4			n.a.
M 2	2 0	0 19	4 12	3 24	1 38	8 17	1 31	24 46	1 54	18 31	0 52	11 22	1 59	22 14	0 7	8 16	1 33	30 22	7 27	21 18	21 31	25 3			n.a.
T 3	2 25	5s47	3 23	2 39	1 33	7 48	1 32	24 51	1 53	18 30	0 52	11 24	1 59	22 15	0 7	8 15	1 33	30 22	7 27	21 17	21 31	25 2			n.a.
W 4	2 49	11 28	2 24	1 54	1 28	7 19	1 32	24 55	1 53	18 29	0 52	11 27	1 59	22 15	0 7	8 15	1 33	30 22	7 27	21 15	21 30	25 1			n.a.
T 5	3 13	16 28	1 20	1 10	1 23	6 50	1 33	24 59	1 53	18 29	0 52	11 29	1 59	22 15	0 7	8 14	1 33	30 22	7 27	21 15	21 29	25 1			n.a.
F 6	3 37	20 36	0 12	0 25	1 17	6 21	1 33	25 3	1 52	18 28	0 52	11 31	1 59	22 16	0 7	8 13	1 33	30 21	7 27	21 15	21 29	25 0			n.a.
S 7	4 1	23 41	0s54	0s20	1 11	5 51	1 33	25 6	1 52	18 27	0 52	11 34	1 58	22 16	0 7	8 12	1 33	30 21	7 27	21 15	21 28	24 59			n.a.
S 8	4 25	25 37	1 57	1 5	1 5	5 21	1 33	25 10	1 51	18 26	0 52	11 36	1 58	22 16	0 7	8 12	1 33	30 21	7 26	21 15	21 28	24 58			n.a.
M 9	4 49	26 20	2 53	1 50	0 59	4 51	1 33	25 13	1 51	18 25	0 52	11 38	1 58	22 17	0 7	8 11	1 34	30 21	7 26	21 15	21 27	24 57			n.a.
T 10	5 13	25 49	3 42	2 35	0 53	4 21	1 33	25 15	1 50	18 24	0 52	11 41	1 58	22 17	0 7	8 10	1 34	30 21	7 26	21 15	21 27	24 57			n.a.
W11	5 36	24 9	4 21	3 20	0 47	3 51	1 33	25 18	1 50	18 23	0 52	11 43	1 58	22 17	0 7	8 9	1 34	30 21	7 26	21 15	21 26	24 56			n.a.
T 12	6 0	21 24	4 49	4 4	0 40	3 21	1 33	25 20	1 49	18 22	0 52	11 45	1 58	22 18	0 7	8 9	1 34	30 21	7 26	21 14	21 25	24 55			n.a.
F 13	6 24	17 43	5 5	4 48	0 34	2 51	1 33	25 22	1 49	18 21	0 52	11 48	1 58	22 18	0 7	8 8	1 34	30 20	7 26	21 13	21 25	24 54			n.a.
S 14	6 47	13 15	5 7	5 32	0 27	2 20	1 32	25 24	1 49	18 19	0 51	11 50	1 58	22 19	0 7	8 7	1 34	30 20	7 26	21 11	21 24	24 53			n.a.
S 15	7 10	8 8	4 54	6 16	0 21	1 50	1 32	25 25	1 48	18 18	0 51	11 52	1 58	22 19	0 7	8 6	1 34	30 20	7 26	21 10	21 24	24 52			n.a.
M16	7 34	2 35	4 27	6 59	0 14	1 19	1 32	25 26	1 47	18 17	0 51	11 55	1 58	22 19	0 7	8 6	1 34	30 20	7 25	21 8	21 23	24 52			n.a.
T 17	7 57	3n12	3 45	7 42	0 8	0 48	1 31	25 27	1 47	18 15	0 51	11 57	1 57	22 20	0 7	8 5	1 34	30 20	7 25	21 6	21 22	24 51			n.a.
W18	8 20	8 58	2 50	8 24	0 1	0 17	1 31	25 28	1 46	18 14	0 51	11 59	1 57	22 20	0 7	8 4	1 34	30 19	7 25	21 5	21 22	24 50			n.a.
T 19	8 43	14 26	1 45	9 6	0s 5	0s13	1 30	25 28	1 46	18 13	0 51	12 2	1 57	22 21	0 7	8 4	1 34	30 19	7 25	21 5	21 21	24 49			n.a.
F 20	9 6	19 15	0 33	9 48	0 12	0 44	1 29	25 28	1 45	18 11	0 51	12 4	1 57	22 21	0 7	8 3	1 34	30 19	7 25	21 4	21 21	24 48			n.a.
S 21	9 28	23 4	0n42	10 29	0 18	1 15	1 28	25 28	1 45	18 10	0 51	12 6	1 57	22 21	0 7	8 2	1 34	30 19	7 25	21 4	21 20	24 47			n.a.
S 22	9 51	25 33	1 56	11 9	0 25	1 46	1 28	25 27	1 44	18 8	0 51	12 9	1 57	22 22	0 7	8 2	1 34	30 19	7 25	21 4	21 20	24 46			n.a.
M23	10 13	26 26	3 2	11 49	0 31	2 17	1 27	25 27	1 44	18 7	0 51	12 11	1 57	22 22	0 7	8 1	1 34	30 18	7 24	21 5	21 19	24 45			n.a.
T 24	10 35	25 36	3 59	12 29	0 38	2 48	1 26	25 26	1 43	18 5	0 51	12 13	1 57	22 23	0 7	8 0	1 34	30 18	7 24	21 5	21 18	24 44			n.a.
W25	10 57	23 8	4 40	13 8	0 44	3 18	1 25	25 24	1 43	18 3	0 51	12 16	1 57	22 23	0 7	8 0	1 34	30 18	7 24	21 5	21 18	24 44			n.a.
T 26	11 19	19 16	5 5	13 46	0 50	3 49	1 24	25 23	1 42	18 2	0 51	12 18	1 57	22 23	0 7	7 59	1 34	30 18	7 24	21 5	21 17	24 43			n.a.
F 27	11 41	14 19	5 11	14 24	0 56	4 20	1 22	25 21	1 41	18 0	0 51	12 20	1 57	22 24	0 7	7 58	1 34	30 18	7 24	21 4	21 17	24 42			n.a.
S 28	12 3	8 39	4 59	15 1	1 2	4 50	1 21	25 19	1 41	17 58	0 51	12 23	1 57	22 24	0 7	7 58	1 34	30 17	7 24	21 3	21 16	24 41			n.a.
S 29	12 24	2 35	4 29	15 37	1 8	5 21	1 20	25 17	1 40	17 57	0 51	12 25	1 57	22 25	0 7	7 57	1 34	30 17	7 24	21 2	21 15	24 40			n.a.
M30	12 45	3s31	3 43	16 13	1 14	5 51	1 19	25 14	1 40	17 55	0 51	12 27	1 57	22 25	0 7	7 57	1 34	30 17	7 24	21 1	21 15	24 39			n.a.
T 31	13s 6	9s22	2n46	16s47	1s19	6s21	1n17	25s11	1s39	17n53	0s51	12s30	1n56	22s26	0s 7	7n56	1n34	30s17	7s23	21n 0	21n14	24s38			n.a.

Julian Day Number = 1650472.5, Delta T = 03h31m18s
Ecliptic obliquity = 23°43'12, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°45'01, Lahiri = - 6°38'01 Julian Calendar 1 Oct. 195 BCE == Greg. Calendar 28 Sept. 195 BCE

The year -194 astronomical counting style corresponds to year 195 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 195 BCE
geocentric

NOVEMBER 195 BCE (-194) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	2 25 13	5♏18'29	14♏13	13♏19	20♎19	7♑39	22°R44	8♏ 5	10♐43	13♍43	14♑22	2°R57	4♊10	29♑36	n.a.	W 1
T 2	2 29 10	6°19'29	27° 9	14°52	21°34	8°24	22♉36	8°12	10°46	13°45	14°23	2°D56	4° 7	29°42	n.a.	T 2
F 3	2 33 6	7°20'31	9♐46	16°25	22°50	9°10	22°29	8°20	10°50	13°46	14°24	2♊56	4° 4	29°49	n.a.	F 3
S 4	2 37 3	8°21'34	22° 7	17°58	24° 5	9°55	22°21	8°27	10°53	13°48	14°25	2°57	4° 0	29°56	n.a.	S 4
S 5	2 41 0	9°22'37	4♑14	19°31	25°21	10°41	22°13	8°34	10°56	13°49	14°26	2°59	3°57	0♒ 2	n.a.	S 5
M 6	2 44 56	10°23'41	16°12	21° 4	26°36	11°26	22° 5	8°41	10°59	13°50	14°27	3° 1	3°54	0° 9	n.a.	M 6
T 7	2 48 53	11°24'46	28° 4	22°37	27°52	12°12	21°57	8°48	11° 2	13°52	14°28	3° 2	3°51	0°16	n.a.	T 7
W 8	2 52 49	12°25'51	9♒54	24° 9	29° 7	12°57	21°49	8°55	11° 6	13°53	14°29	3°R 3	3°48	0°23	n.a.	W 8
T 9	2 56 46	13°26'57	21°50	25°42	0♏23	13°43	21°41	9° 2	11° 9	13°55	14°30	3° 2	3°45	0°29	n.a.	T 9
F 10	3 0 42	14°28'04	3♓53	27°14	1°38	14°28	21°33	9° 9	11°12	13°56	14°31	3° 1	3°41	0°36	n.a.	F 10
S 11	3 4 39	15°29'11	16°11	28°47	2°54	15°14	21°25	9°16	11°15	13°57	14°32	2°59	3°38	0°43	n.a.	S 11
S 12	3 8 36	16°30'18	28°45	0♐18	4°10	15°59	21°17	9°23	11°19	13°58	14°33	2°57	3°35	0°49	n.a.	S 12
M13	3 12 32	17°31'27	11♈39	1°50	5°25	16°45	21° 9	9°30	11°22	14° 0	14°34	2°55	3°32	0°56	n.a.	M13
T 14	3 16 29	18°32'35	24°54	3°21	6°41	17°31	21° 1	9°37	11°26	14° 1	14°35	2°52	3°29	1° 3	n.a.	T 14
W15	3 20 25	19°33'44	8♉30	4°52	7°56	18°16	20°53	9°44	11°29	14° 2	14°36	2°51	3°26	1° 9	n.a.	W15
T 16	3 24 22	20°34'54	22°24	6°23	9°12	19° 2	20°45	9°51	11°32	14° 3	14°37	2°50	3°22	1°16	n.a.	T 16
F 17	3 28 18	21°36'05	6♊34	7°52	10°27	19°47	20°36	9°58	11°36	14° 4	14°39	2°D50	3°19	1°23	n.a.	F 17
S 18	3 32 15	22°37'16	20°54	9°21	11°43	20°33	20°28	10° 5	11°39	14° 5	14°40	2°50	3°16	1°30	n.a.	S 18
S 19	3 36 11	23°38'27	5♋21	10°49	12°58	21°19	20°20	10°11	11°43	14° 6	14°41	2°51	3°13	1°36	n.a.	S 19
M20	3 40 8	24°39'40	19°48	12°16	14°14	22° 4	20°12	10°18	11°46	14° 7	14°42	2°52	3°10	1°43	n.a.	M20
T 21	3 44 5	25°40'53	4♌11	13°41	15°29	22°50	20° 4	10°25	11°50	14° 8	14°44	2°52	3° 6	1°50	n.a.	T 21
W22	3 48 1	26°42'07	18°27	15° 5	16°45	23°35	19°56	10°32	11°53	14° 9	14°45	2°53	3° 3	1°56	n.a.	W22
T 23	3 51 58	27°43'21	2♍33	16°26	18° 1	24°21	19°48	10°39	11°57	14°10	14°46	2°R53	3° 0	2° 3	n.a.	T 23
F 24	3 55 54	28°44'36	16°28	17°46	19°16	25° 7	19°40	10°46	12° 0	14°11	14°48	2°53	2°57	2°10	n.a.	F 24
S 25	3 59 51	29°45'52	0♎11	19° 2	20°32	25°52	19°32	10°53	12° 4	14°12	14°49	2°52	2°54	2°16	n.a.	S 25
S 26	4 3 47	0♐47'07	13°41	20°15	21°47	26°38	19°24	10°59	12° 7	14°13	14°50	2°52	2°51	2°23	n.a.	S 26
M27	4 7 44	1°48'24	26°58	21°25	23° 3	27°24	19°16	11° 6	12°11	14°14	14°52	2°52	2°47	2°30	n.a.	M27
T 28	4 11 40	2°49'40	10♏ 2	22°30	24°18	28° 9	19° 8	11°13	12°14	14°15	14°53	2°D52	2°44	2°37	n.a.	T 28
W29	4 15 37	3°50'57	22°52	23°30	25°34	28°55	19° 1	11°19	12°18	14°15	14°55	2°52	2°41	2°43	n.a.	W29
T 30	4 19 34	4♐52'14	5♐30	24♐24	26♏49	29♑40	18♉53	11♏26	12♐21	14♍16	14♑56	2°R52	2♊38	2♒50	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	13 s27	14 s41	1n41	17 s21	1 s24	6 s52	1n16	25 s 8	1 s38	17n51	0 s51	12 s32	1n56	22 s26	0 s 7	7n56	1n34	30 s17	7 s23	21n 0	21n14	24 s37		n.a.
T 2	13 47	19 14	0 32	17 55	1 30	7 21	1 14	25 4	1 38	17 49	0 51	12 34	1 56	22 27	0 7	7 55	1 35	30 16	7 23	20 59	21 13	24 36		n.a.
F 3	14 7	22 48	0 s37	18 27	1 35	7 51	1 13	25 1	1 37	17 48	0 50	12 37	1 56	22 27	0 7	7 54	1 35	30 16	7 23	20 59	21 12	24 35		n.a.
S 4	14 27	25 12	1 44	18 58	1 39	8 21	1 11	24 57	1 36	17 46	0 50	12 39	1 56	22 27	0 7	7 54	1 35	30 16	7 23	21 0	21 12	24 34		n.a.
S 5	14 47	26 23	2 44	19 29	1 44	8 50	1 10	24 53	1 36	17 44	0 50	12 41	1 56	22 28	0 7	7 53	1 35	30 16	7 23	21 0	21 11	24 33		n.a.
M 6	15 7	26 18	3 36	19 59	1 48	9 20	1 8	24 48	1 35	17 42	0 50	12 44	1 56	22 28	0 7	7 53	1 35	30 16	7 23	21 0	21 11	24 32		n.a.
T 7	15 26	25 1	4 19	20 27	1 53	9 49	1 6	24 43	1 34	17 40	0 50	12 46	1 56	22 29	0 7	7 52	1 35	30 15	7 23	21 1	21 10	24 31		n.a.
W 8	15 45	22 37	4 50	20 55	1 56	10 17	1 4	24 38	1 34	17 38	0 50	12 48	1 56	22 29	0 7	7 52	1 35	30 15	7 23	21 1	21 9	24 30		n.a.
T 9	16 4	19 16	5 10	21 21	2 0	10 46	1 3	24 33	1 33	17 36	0 50	12 50	1 56	22 30	0 7	7 51	1 35	30 15	7 22	21 1	21 9	24 29		n.a.
F 10	16 22	15 5	5 15	21 46	2 3	11 14	1 1	24 27	1 32	17 34	0 50	12 53	1 56	22 30	0 7	7 51	1 35	30 15	7 22	21 0	21 8	24 28		n.a.
S 11	16 40	10 13	5 7	22 10	2 6	11 42	0 59	24 21	1 32	17 32	0 50	12 55	1 56	22 31	0 7	7 51	1 35	30 14	7 22	21 0	21 8	24 27		n.a.
S 12	16 58	4 50	4 44	22 33	2 9	12 10	0 57	24 15	1 31	17 30	0 49	12 57	1 56	22 31	0 7	7 50	1 35	30 14	7 22	21 0	21 7	24 26		n.a.
M13	17 16	0n53	4 7	22 55	2 11	12 37	0 55	24 9	1 30	17 28	0 49	12 59	1 56	22 32	0 7	7 50	1 35	30 14	7 22	20 59	21 6	24 25		n.a.
T 14	17 33	6 44	3 15	23 15	2 13	13 4	0 53	24 2	1 30	17 26	0 49	13 2	1 56	22 32	0 7	7 49	1 35	30 14	7 22	20 59	21 6	24 24		n.a.
W15	17 50	12 26	2 11	23 33	2 14	13 31	0 51	23 55	1 29	17 24	0 49	13 4	1 56	22 33	0 7	7 49	1 35	30 13	7 22	20 58	21 5	24 23		n.a.
T 16	18 6	17 40	0 57	23 51	2 15	13 58	0 49	23 48	1 28	17 22	0 49	13 6	1 56	22 33	0 7	7 48	1 35	30 13	7 22	20 58	21 5	24 22		n.a.
F 17	18 23	22 0	0n21	24 6	2 16	14 24	0 47	23 41	1 28	17 20	0 49	13 8	1 56	22 34	0 7	7 48	1 35	30 13	7 22	20 58	21 4	24 21		n.a.
S 18	18 39	25 3	1 39	24 21	2 16	14 49	0 44	23 33	1 27	17 18	0 49	13 11	1 56	22 34	0 7	7 48	1 35	30 13	7 22	20 58	21 3	24 19		n.a.
S 19	18 54	26 27	2 51	24 33	2 15	15 15	0 42	23 26	1 26	17 16	0 48	13 13	1 56	22 35	0 7	7 47	1 35	30 13	7 21	20 58	21 3	24 18		n.a.
M20	19 9	26 4	3 52	24 44	2 14	15 40	0 40	23 17	1 25	17 14	0 48	13 15	1 56	22 35	0 7	7 47	1 35	30 12	7 21	20 59	21 2	24 17		n.a.
T 21	19 24	23 56	4 38	24 53	2 12	16 4	0 38	23 9	1 25	17 12	0 48	13 17	1 56	22 35	0 7	7 47	1 36	30 12	7 21	20 59	21 1	24 16		n.a.
W22	19 39	20 20	5 7	25 1	2 9	16 28	0 36	23 1	1 24	17 10	0 48	13 19	1 56	22 36	0 7	7 46	1 36	30 12	7 21	20 59	21 1	24 15		n.a.
T 23	19 53	15 36	5 17	25 6	2 6	16 52	0 33	22 52	1 23	17 7	0 48	13 21	1 56	22 36	0 7	7 46	1 36	30 12	7 21	20 59	21 0	24 14		n.a.
F 24	20 7	10 7	5 8	25 10	2 2	17 15	0 31	22 43	1 22	17 5	0 48	13 23	1 56	22 37	0 7	7 46	1 36	30 11	7 21	20 59	21 0	24 13		n.a.
S 25	20 20	4 14	4 42	25 12	1 56	17 38	0 29	22 33	1 22	17 3	0 48	13 26	1 56	22 37	0 7	7 45	1 36	30 11	7 21	20 59	20 59	24 12		n.a.
S 26	20 33	1 s47	4 0	25 12	1 50	18 0	0 26	22 24	1 21	17 1	0 47	13 28	1 56	22 38	0 7	7 45	1 36	30 11	7 21	20 59	20 58	24 11		n.a.
M27	20 46	7 37	3 6	25 10	1 44	18 22	0 24	22 14	1 20	17 0	0 47	13 30	1 56	22 38	0 7	7 45	1 36	30 11	7 21	20 59	20 58	24 9		n.a.
T 28	20 58	13 3	2 3	25 6	1 35	18 43	0 22	22 4	1 19	16 58	0 47	13 32	1 56	22 39	0 7	7 45	1 36	30 10	7 21	20 59	20 57	24 8		n.a.
W29	21 10	17 49	0 55	25 0	1 26	19 4	0 19	21 54	1 19	16 56	0 47	13 34	1 56	22 39	0 7	7 44	1 36	30 10	7 21	20 59	20 56	24 7		n.a.
T 30	21 s21	21 s43	0 s15	24 s52	1 s16	19 s24	0n17	21 s44	1 s18	16n54	0 s47	13 s36	1n56	22 s40	0 s 7	7n44	1n36	30 s10	7 s21	20n59	20n56	24 s 6		n.a.

Julian Day Number = 1650503.5, Delta T = 03h31m17s
Ecliptic obliquity = 23°43'12, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°44'57, Lahiri = - 6°37'56 Julian Calendar 1 Nov. 195 BCE == Greg. Calendar 29 Oct. 195 BCE

The year -194 astronomical counting style corresponds to year 195 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 195 BCE
geocentric

DECEMBER 195 BCE (-194) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	4 23 30	5♐53'32	17♐55	25♐12	28♏ 5	0♒26	18°R45	11♏33	12♐25	14♍17	14♑57	2°R52	2♊35	2♒57	n.a.	F 1
S 2	4 27 27	6°54'49	0♑ 8	25°52	29°20	1°11	18♉38	11°39	12°29	14°17	14°59	2♊51	2°32	3° 3	n.a.	S 2
S 3	4 31 23	7°56'06	12°12	26°23	0♐36	1°57	18°31	11°46	12°32	14°18	15° 0	2°51	2°28	3°10	n.a.	S 3
M 4	4 35 20	8°57'22	24° 8	26°45	1°51	2°43	18°23	11°53	12°36	14°18	15° 2	2°50	2°25	3°17	n.a.	M 4
T 5	4 39 16	9°58'39	6♒ 0	26°57	3° 7	3°28	18°16	11°59	12°39	14°19	15° 4	2°49	2°22	3°24	n.a.	T 5
W 6	4 43 13	10°59'54	17°50	26°R58	4°23	4°14	18° 9	12° 5	12°43	14°19	15° 5	2°48	2°19	3°30	n.a.	W 6
T 7	4 47 10	12° 1'10	29°44	26°47	5°38	4°59	18° 2	12°12	12°47	14°20	15° 7	2°47	2°16	3°37	n.a.	T 7
F 8	4 51 6	13° 2'25	11♓45	26°25	6°53	5°45	17°56	12°18	12°50	14°20	15° 8	2°D47	2°12	3°44	n.a.	F 8
S 9	4 55 3	14° 3'39	23°59	25°50	8° 9	6°30	17°49	12°25	12°54	14°21	15°10	2°47	2° 9	3°50	n.a.	S 9
S 10	4 58 59	15° 4'52	6♈29	25° 5	9°24	7°16	17°43	12°31	12°57	14°21	15°11	2°48	2° 6	3°57	n.a.	S 10
M11	5 2 56	16° 6'05	19°20	24° 9	10°40	8° 1	17°36	12°37	13° 1	14°21	15°13	2°49	2° 3	4° 4	n.a.	M11
T 12	5 6 52	17° 7'17	2♉36	23° 4	11°55	8°46	17°30	12°43	13° 5	14°22	15°15	2°50	2° 0	4°10	n.a.	T 12
W13	5 10 49	18° 8'29	16°17	21°52	13°11	9°32	17°24	12°50	13° 8	14°22	15°16	2°51	1°57	4°17	n.a.	W13
T 14	5 14 45	19° 9'40	0♊23	20°35	14°26	10°17	17°18	12°56	13°12	14°22	15°18	2°R52	1°53	4°24	n.a.	T 14
F 15	5 18 42	20°10'51	14°51	19°16	15°42	11° 3	17°12	13° 2	13°15	14°22	15°20	2°52	1°50	4°31	n.a.	F 15
S 16	5 22 39	21°12'01	29°37	17°57	16°57	11°48	17° 7	13° 8	13°19	14°23	15°21	2°50	1°47	4°37	n.a.	S 16
S 17	5 26 35	22°13'10	14♋32	16°41	18°12	12°33	17° 1	13°14	13°22	14°23	15°23	2°48	1°44	4°44	n.a.	S 17
M18	5 30 32	23°14'19	29°28	15°30	19°28	13°18	16°56	13°20	13°26	14°23	15°25	2°45	1°41	4°51	n.a.	M18
T 19	5 34 28	24°15'27	14♌17	14°25	20°43	14° 4	16°51	13°26	13°30	14°23	15°26	2°43	1°38	4°57	n.a.	T 19
W20	5 38 25	25°16'35	28°52	13°28	21°59	14°49	16°46	13°32	13°33	14°R23	15°28	2°40	1°34	5° 4	n.a.	W20
T 21	5 42 21	26°17'42	13♍ 9	12°39	23°14	15°34	16°41	13°37	13°37	14°23	15°30	2°38	1°31	5°11	n.a.	T 21
F 22	5 46 18	27°18'48	27° 5	12° 0	24°29	16°19	16°36	13°43	13°40	14°23	15°32	2°D38	1°28	5°18	n.a.	F 22
S 23	5 50 14	28°19'54	10♎40	11°30	25°45	17° 4	16°32	13°49	13°44	14°23	15°33	2°38	1°25	5°24	n.a.	S 23
S 24	5 54 11	29°21'00	23°56	11° 9	27° 0	17°50	16°28	13°54	13°47	14°23	15°35	2°40	1°22	5°31	n.a.	S 24
M25	5 58 8	0♑22'05	6♏53	10°57	28°15	18°35	16°24	14° 0	13°51	14°22	15°37	2°41	1°18	5°38	n.a.	M25
T 26	6 2 4	1°23'09	19°36	10°D53	29°31	19°20	16°20	14° 6	13°54	14°22	15°39	2°43	1°15	5°44	n.a.	T 26
W27	6 6 1	2°24'12	2♐ 6	10°58	0♑46	20° 5	16°16	14°11	13°58	14°22	15°40	2°R44	1°12	5°51	n.a.	W27
T 28	6 9 57	3°25'15	14°25	11°10	2° 1	20°50	16°13	14°16	14° 1	14°22	15°42	2°43	1° 9	5°58	n.a.	T 28
F 29	6 13 54	4°26'17	26°36	11°29	3°17	21°35	16° 9	14°22	14° 5	14°21	15°44	2°41	1° 6	6° 5	n.a.	F 29
S 30	6 17 50	5°27'17	8♑39	11°54	4°32	22°20	16° 6	14°27	14° 8	14°21	15°46	2°36	1° 3	6°11	n.a.	S 30
S 31	6 21 47	6♑28'17	20♑37	12♐24	5♑47	23♒ 5	16♉ 3	14♏32	14♐11	14♍21	15♑47	2♊31	0♊59	6♒18	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
F 1	21s32	24s32	1s23	24s42	1s 5	19s44	0n15	21s33	1s17	16n52	0s46	13s38	1n56	22s40	0s 7	7n44	1n36	30s10	7s21	20n59	20n55	24s 5		n.a.	F 1
S 2	21 43	26 9	2 26	24 31	0 52	20 3	0 12	21 22	1 16	16 50	0 46	13 40	1 56	22 41	0 7	7 44	1 36	30 9	7 20	20 58	20 55	24 4		n.a.	S 2
S 3	21 53	26 30	3 21	24 18	0 38	20 21	0 10	21 11	1 16	16 48	0 46	13 42	1 56	22 41	0 7	7 44	1 36	30 9	7 20	20 58	20 54	24 2		n.a.	S 3
M 4	22 3	25 36	4 8	24 3	0 23	20 39	0 7	21 0	1 15	16 46	0 46	13 44	1 56	22 42	0 7	7 43	1 36	30 9	7 20	20 58	20 53	24 1		n.a.	M 4
T 5	22 12	23 33	4 43	23 47	0 6	20 57	0 5	20 48	1 14	16 44	0 46	13 46	1 56	22 42	0 7	7 43	1 36	30 9	7 20	20 58	20 53	24 0		n.a.	T 5
W 6	22 21	20 31	5 6	23 30	0n11	21 13	0 3	20 37	1 13	16 43	0 45	13 48	1 56	22 43	0 7	7 43	1 36	30 9	7 20	20 58	20 52	23 59		n.a.	W 6
T 7	22 30	16 37	5 16	23 11	0 30	21 30	0 0	20 25	1 13	16 41	0 45	13 50	1 56	22 43	0 7	7 43	1 37	30 8	7 20	20 58	20 51	23 58		n.a.	T 7
F 8	22 38	12 3	5 13	22 52	0 49	21 45	0s 2	20 13	1 12	16 39	0 45	13 52	1 56	22 44	0 7	7 43	1 37	30 8	7 20	20 58	20 51	23 56		n.a.	F 8
S 9	22 45	6 56	4 55	22 31	1 8	22 0	0 5	20 1	1 11	16 38	0 45	13 54	1 57	22 44	0 7	7 43	1 37	30 8	7 20	20 58	20 50	23 55		n.a.	S 9
S 10	22 52	1 26	4 24	22 10	1 28	22 14	0 7	19 48	1 10	16 36	0 45	13 55	1 57	22 45	0 7	7 43	1 37	30 8	7 20	20 58	20 49	23 54		n.a.	S 10
M11	22 59	4n18	3 38	21 48	1 47	22 28	0 9	19 36	1 9	16 34	0 44	13 57	1 57	22 45	0 8	7 43	1 37	30 7	7 20	20 58	20 49	23 53		n.a.	M11
T 12	23 5	10 1	2 40	21 26	2 6	22 41	0 12	19 23	1 9	16 33	0 44	13 59	1 57	22 45	0 8	7 43	1 37	30 7	7 20	20 58	20 48	23 51		n.a.	T 12
W13	23 11	15 27	1 30	21 5	2 23	22 53	0 14	19 10	1 8	16 31	0 44	14 1	1 57	22 46	0 8	7 43	1 37	30 7	7 20	20 59	20 48	23 50		n.a.	W13
T 14	23 16	20 15	0 14	20 44	2 39	23 4	0 16	18 57	1 7	16 30	0 44	14 3	1 57	22 46	0 8	7 43	1 37	30 7	7 20	20 59	20 47	23 49		n.a.	T 14
F 15	23 21	23 56	1n 6	20 24	2 53	23 15	0 19	18 43	1 6	16 28	0 43	14 5	1 57	22 47	0 8	7 43	1 37	30 6	7 20	20 59	20 46	23 48		n.a.	F 15
S 16	23 25	26 6	2 22	20 6	3 5	23 25	0 21	18 30	1 5	16 27	0 43	14 6	1 57	22 47	0 8	7 43	1 37	30 6	7 20	20 58	20 46	23 46		n.a.	S 16
S 17	23 29	26 24	3 30	19 50	3 14	23 35	0 23	18 16	1 5	16 26	0 43	14 8	1 57	22 48	0 8	7 43	1 37	30 6	7 20	20 58	20 45	23 45		n.a.	S 17
M18	23 33	24 47	4 23	19 36	3 20	23 43	0 26	18 2	1 4	16 24	0 43	14 10	1 57	22 48	0 8	7 43	1 37	30 6	7 20	20 57	20 44	23 44		n.a.	M18
T 19	23 36	21 29	4 59	19 25	3 25	23 51	0 28	17 48	1 3	16 23	0 43	14 12	1 57	22 49	0 8	7 43	1 37	30 6	7 20	20 57	20 44	23 42		n.a.	T 19
W20	23 38	16 54	5 14	19 16	3 27	23 58	0 30	17 34	1 2	16 22	0 42	14 13	1 57	22 49	0 8	7 43	1 37	30 5	7 20	20 56	20 43	23 41		n.a.	W20
T 21	23 40	11 27	5 9	19 10	3 27	24 5	0 32	17 20	1 2	16 21	0 42	14 15	1 57	22 50	0 8	7 43	1 37	30 5	7 20	20 56	20 42	23 40		n.a.	T 21
F 22	23 42	5 33	4 47	19 7	3 25	24 11	0 35	17 6	1 1	16 20	0 42	14 17	1 57	22 50	0 8	7 43	1 37	30 5	7 20	20 56	20 42	23 38		n.a.	F 22
S 23	23 43	0s28	4 8	19 6	3 21	24 16	0 37	16 51	1 0	16 19	0 42	14 18	1 57	22 50	0 8	7 43	1 38	30 5	7 20	20 56	20 41	23 37		n.a.	S 23
S 24	23 43	6 20	3 17	19 9	3 16	24 20	0 39	16 36	0 59	16 18	0 41	14 20	1 58	22 51	0 8	7 43	1 38	30 5	7 20	20 56	20 40	23 36		n.a.	S 24
M25	23 43	11 49	2 17	19 13	3 10	24 23	0 41	16 21	0 58	16 17	0 41	14 21	1 58	22 51	0 8	7 43	1 38	30 4	7 20	20 57	20 40	23 34		n.a.	M25
T 26	23 43	16 42	1 11	19 20	3 2	24 26	0 43	16 6	0 58	16 16	0 41	14 23	1 58	22 52	0 8	7 43	1 38	30 4	7 20	20 57	20 39	23 33		n.a.	T 26
W27	23 42	20 46	0 3	19 28	2 54	24 28	0 45	15 51	0 57	16 15	0 41	14 24	1 58	22 52	0 8	7 43	1 38	30 4	7 20	20 57	20 38	23 32		n.a.	W27
T 28	23 40	23 51	1s 4	19 38	2 46	24 29	0 47	15 36	0 56	16 14	0 40	14 26	1 58	22 53	0 8	7 44	1 38	30 4	7 20	20 57	20 38	23 30		n.a.	T 28
F 29	23 39	25 47	2 7	19 50	2 37	24 30	0 49	15 21	0 55	16 14	0 40	14 27	1 58	22 53	0 8	7 44	1 38	30 4	7 20	20 56	20 37	23 29		n.a.	F 29
S 30	23 36	26 29	3 4	20 3	2 27	24 29	0 51	15 5	0 54	16 13	0 40	14 29	1 58	22 53	0 8	7 44	1 38	30 3	7 20	20 56	20 36	23 28		n.a.	S 30
S 31	23s34	25s56	3s52	20s17	2n17	24s28	0s53	14s50	0s54	16n12	0s40	14s30	1n58	22s54	0s 8	7n44	1n38	30s 3	7s20	20n54	20n36	23s26		n.a.	S 31

Julian Day Number = 1650533.5, Delta T = 03h31m16s
Ecliptic obliquity = 23°43'11, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°44'53, Lahiri = - 6°37'52 Julian Calendar 1 Dec. 195 BCE == Greg. Calendar 28 Nov. 195 BCE

The year -194 astronomical counting style corresponds to year 195 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 194 BCE
geocentric

JANUARY 194 BCE (-193) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 25 44	7♉29'15	2♒30	13♐ 0	7♉ 2	23♒50	16°R 1	14♏37	14♐15	14°R20	15♉49	2°R24	0♊56	6♒25	n.a.	M 1
T 2	6 29 40	8°30'12	14°22	13°41	8°18	24°35	15♉58	14°43	14°18	14♍20	15°51	2♊17	0°53	6°31	n.a.	T 2
W 3	6 33 37	9°31'07	26°13	14°26	9°33	25°19	15°56	14°48	14°21	14°19	15°53	2°10	0°50	6°38	n.a.	W 3
T 4	6 37 33	10°32'01	8♓ 6	15°15	10°48	26° 4	15°54	14°52	14°25	14°19	15°55	2° 5	0°47	6°45	n.a.	T 4
F 5	6 41 30	11°32'54	20° 6	16° 8	12° 3	26°49	15°52	14°57	14°28	14°18	15°56	2° 0	0°44	6°52	n.a.	F 5
S 6	6 45 26	12°33'44	2♈16	17° 3	13°19	27°34	15°50	15° 2	14°31	14°18	15°58	1°58	0°40	6°58	n.a.	S 6
S 7	6 49 23	13°34'34	14°41	18° 2	14°34	28°18	15°48	15° 7	14°35	14°17	16° 0	1°D57	0°37	7° 5	n.a.	S 7
M 8	6 53 19	14°35'21	27°25	19° 4	15°49	29° 3	15°47	15°12	14°38	14°17	16° 2	1°58	0°34	7°12	n.a.	M 8
T 9	6 57 16	15°36'07	10♉32	20° 8	17° 4	29°48	15°46	15°16	14°41	14°16	16° 4	1°59	0°31	7°18	n.a.	T 9
W10	7 1 13	16°36'51	24° 7	21°14	18°19	0♓32	15°45	15°21	14°44	14°15	16° 6	2° 1	0°28	7°25	n.a.	W10
T 11	7 5 9	17°37'34	8♊10	22°23	19°34	1°17	15°44	15°25	14°47	14°15	16° 7	2°R 1	0°24	7°32	n.a.	T 11
F 12	7 9 6	18°38'15	22°40	23°33	20°49	2° 1	15°44	15°30	14°51	14°14	16° 9	1°59	0°21	7°39	n.a.	F 12
S 13	7 13 2	19°38'54	7♋35	24°46	22° 5	2°46	15°44	15°34	14°54	14°13	16°11	1°55	0°18	7°45	n.a.	S 13
S 14	7 16 59	20°39'32	22°46	26° 0	23°20	3°30	15°D44	15°38	14°57	14°12	16°13	1°49	0°15	7°52	n.a.	S 14
M15	7 20 55	21°40'08	8♌ 3	27°16	24°35	4°15	15°44	15°42	15° 0	14°12	16°15	1°41	0°12	7°59	n.a.	M15
T 16	7 24 52	22°40'42	23°16	28°33	25°50	4°59	15°44	15°46	15° 3	14°11	16°16	1°33	0° 9	8° 5	n.a.	T 16
W17	7 28 48	23°41'15	8♍13	29°52	27° 5	5°44	15°44	15°50	15° 6	14°10	16°18	1°26	0° 5	8°12	n.a.	W17
T 18	7 32 45	24°41'46	22°48	1♉12	28°20	6°28	15°45	15°54	15° 9	14° 9	16°20	1°20	0° 2	8°19	n.a.	T 18
F 19	7 36 42	25°42'16	6♎56	2°33	29°35	7°12	15°46	15°58	15°12	14° 8	16°22	1°16	29♉59	8°26	n.a.	F 19
S 20	7 40 38	26°42'45	20°36	3°56	0♒50	7°56	15°47	16° 2	15°15	14° 7	16°24	1°14	29°56	8°32	n.a.	S 20
S 21	7 44 35	27°43'12	3♏50	5°20	2° 5	8°40	15°48	16° 5	15°18	14° 6	16°25	1°D14	29°53	8°39	n.a.	S 21
M22	7 48 31	28°43'38	16°41	6°45	3°20	9°25	15°50	16° 9	15°21	14° 5	16°27	1°15	29°50	8°46	n.a.	M22
T 23	7 52 28	29°44'02	29°13	8°11	4°35	10° 9	15°52	16°12	15°23	14° 4	16°29	1°R16	29°46	8°52	n.a.	T 23
W24	7 56 24	0♒44'25	11♐30	9°38	5°50	10°53	15°54	16°16	15°26	14° 3	16°31	1°15	29°43	8°59	n.a.	W24
T 25	8 0 21	1°44'46	23°37	11° 7	7° 5	11°37	15°56	16°19	15°29	14° 2	16°33	1°13	29°40	9° 6	n.a.	T 25
F 26	8 4 17	2°45'06	5♉37	12°37	8°19	12°21	15°58	16°22	15°32	14° 1	16°34	1° 7	29°37	9°13	n.a.	F 26
S 27	8 8 14	3°45'23	17°32	14° 7	9°34	13° 5	16° 0	16°26	15°34	14° 0	16°36	0°59	29°34	9°19	n.a.	S 27
S 28	8 12 11	4°45'39	29°24	15°39	10°49	13°49	16° 3	16°29	15°37	13°58	16°38	0°49	29°30	9°26	n.a.	S 28
M29	8 16 7	5°45'53	11♒16	17°12	12° 4	14°33	16° 6	16°32	15°40	13°57	16°40	0°36	29°27	9°33	n.a.	M29
T 30	8 20 4	6°46'05	23° 8	18°45	13°19	15°16	16° 9	16°34	15°42	13°56	16°41	0°23	29°24	9°39	n.a.	T 30
W31	8 24 0	7♒46'16	5♓ 2	20♉20	14♒34	16♓ 0	16♉12	16♏37	15♐45	13♍55	16♉43	0♊10	29♉21	9♒46	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	23s30	24s12	4s29	20s31	2n 7	24s26	0s55	14s34	0s53	16n12	0s39	14s32	1n58	22s54	0s 8	7n44	1n38	30s 3	7s20	20n53	20n35	23s25		n.a.
T 2	23 27	21 25	4 55	20 46	1 57	24 24	0 56	14 18	0 52	16 11	0 39	14 33	1 58	22 55	0 8	7 45	1 38	30 3	7 20	20 52	20 35	23 24		n.a.
W 3	23 22	17 45	5 8	21 2	1 47	24 20	0 58	14 2	0 51	16 11	0 39	14 35	1 59	22 55	0 8	7 45	1 38	30 3	7 20	20 50	20 34	23 22		n.a.
T 4	23 18	13 23	5 8	21 17	1 37	24 16	1 0	13 46	0 50	16 10	0 39	14 36	1 59	22 56	0 8	7 45	1 38	30 2	7 20	20 49	20 33	23 21		n.a.
F 5	23 13	8 28	4 55	21 33	1 27	24 11	1 2	13 30	0 50	16 10	0 38	14 37	1 59	22 56	0 8	7 45	1 38	30 2	7 20	20 48	20 33	23 19		n.a.
S 6	23 7	3 11	4 28	21 48	1 17	24 6	1 3	13 13	0 49	16 10	0 38	14 39	1 59	22 56	0 8	7 46	1 38	30 2	7 20	20 48	20 32	23 18		n.a.
S 7	23 1	2n21	3 48	22 4	1 7	23 59	1 5	12 57	0 48	16 10	0 38	14 40	1 59	22 57	0 8	7 46	1 38	30 2	7 20	20 48	20 31	23 17		n.a.
M 8	22 55	7 56	2 56	22 19	0 57	23 52	1 6	12 41	0 47	16 9	0 38	14 41	1 59	22 57	0 8	7 46	1 38	30 2	7 20	20 48	20 31	23 15		n.a.
T 9	22 48	13 22	1 54	22 34	0 47	23 44	1 8	12 24	0 46	16 9	0 37	14 42	1 59	22 57	0 8	7 46	1 39	30 2	7 21	20 48	20 30	23 14		n.a.
W10	22 40	18 20	0 43	22 48	0 38	23 36	1 9	12 7	0 46	16 9	0 37	14 44	1 59	22 58	0 8	7 47	1 39	30 1	7 21	20 48	20 29	23 12		n.a.
T 11	22 33	22 28	0n33	23 2	0 28	23 26	1 11	11 51	0 45	16 9	0 37	14 45	1 59	22 58	0 8	7 47	1 39	30 1	7 21	20 48	20 28	23 11		n.a.
F 12	22 24	25 20	1 49	23 15	0 19	23 16	1 12	11 34	0 44	16 9	0 37	14 46	2 0	22 59	0 8	7 47	1 39	30 1	7 21	20 48	20 28	23 9		n.a.
S 13	22 16	26 29	3 0	23 27	0 10	23 5	1 13	11 17	0 43	16 10	0 36	14 47	2 0	22 59	0 8	7 48	1 39	30 1	7 21	20 47	20 27	23 8		n.a.
S 14	22 7	25 42	3 59	23 38	0 1	22 54	1 14	11 0	0 42	16 10	0 36	14 48	2 0	22 59	0 8	7 48	1 39	30 1	7 21	20 46	20 26	23 6		n.a.
M15	21 57	22 59	4 41	23 49	0s 7	22 42	1 16	10 43	0 42	16 10	0 36	14 49	2 0	23 0	0 8	7 48	1 39	30 1	7 21	20 44	20 26	23 5		n.a.
T 16	21 47	18 41	5 3	23 58	0 16	22 29	1 17	10 26	0 41	16 10	0 36	14 50	2 0	23 0	0 8	7 49	1 39	30 0	7 21	20 43	20 25	23 3		n.a.
W17	21 37	13 17	5 4	24 7	0 24	22 15	1 18	10 8	0 40	16 11	0 35	14 51	2 0	23 0	0 8	7 49	1 39	30 0	7 21	20 41	20 24	23 2		n.a.
T 18	21 26	7 15	4 45	24 14	0 32	22 1	1 19	9 51	0 39	16 11	0 35	14 52	2 0	23 1	0 8	7 50	1 39	30 0	7 21	20 40	20 24	23 0		n.a.
F 19	21 15	1 2	4 9	24 21	0 39	21 47	1 20	9 34	0 39	16 12	0 35	14 53	2 1	23 1	0 8	7 50	1 39	30 0	7 21	20 39	20 23	22 59		n.a.
S 20	21 4	5s 3	3 20	24 26	0 46	21 31	1 21	9 16	0 38	16 12	0 35	14 54	2 1	23 1	0 8	7 50	1 39	30 0	7 21	20 39	20 22	22 57		n.a.
S 21	20 52	10 43	2 22	24 30	0 54	21 15	1 21	8 59	0 37	16 13	0 35	14 55	2 1	23 2	0 8	7 51	1 39	30 0	7 21	20 39	20 22	22 56		n.a.
M22	20 39	15 47	1 17	24 33	1 0	20 58	1 22	8 41	0 36	16 13	0 34	14 56	2 1	23 2	0 8	7 51	1 39	30 0	7 22	20 39	20 21	22 54		n.a.
T 23	20 27	20 2	0 11	24 34	1 7	20 41	1 23	8 24	0 35	16 14	0 34	14 57	2 1	23 2	0 8	7 52	1 39	29 59	7 22	20 39	20 20	22 53		n.a.
W24	20 14	23 20	0s55	24 35	1 13	20 23	1 24	8 6	0 35	16 15	0 34	14 58	2 1	23 3	0 8	7 52	1 39	29 59	7 22	20 39	20 20	22 51		n.a.
T 25	20 0	25 30	1 56	24 34	1 19	20 4	1 24	7 49	0 34	16 16	0 34	14 59	2 1	23 3	0 8	7 53	1 39	29 59	7 22	20 39	20 19	22 50		n.a.
F 26	19 46	26 28	2 52	24 31	1 25	19 45	1 25	7 31	0 33	16 17	0 33	14 59	2 2	23 3	0 8	7 53	1 39	29 59	7 22	20 37	20 18	22 48		n.a.
S 27	19 32	26 12	3 40	24 27	1 30	19 26	1 25	7 13	0 32	16 18	0 33	15 0	2 2	23 4	0 8	7 54	1 39	29 59	7 22	20 36	20 18	22 47		n.a.
S 28	19 18	24 43	4 18	24 22	1 35	19 6	1 25	6 55	0 32	16 19	0 33	15 1	2 2	23 4	0 8	7 54	1 39	29 59	7 22	20 34	20 17	22 45		n.a.
M29	19 3	22 9	4 45	24 15	1 39	18 45	1 26	6 38	0 31	16 20	0 33	15 2	2 2	23 4	0 8	7 55	1 40	29 59	7 22	20 31	20 16	22 44		n.a.
T 30	18 48	18 40	4 59	24 6	1 44	18 24	1 26	6 20	0 30	16 21	0 32	15 2	2 2	23 5	0 8	7 55	1 40	29 59	7 23	20 28	20 16	22 42		n.a.
W31	18s32	14s26	5s 1	23s56	1s48	18s 2	1s26	6s 2	0s29	16n22	0s32	15s 3	2n 2	23s 5	0s 8	7n56	1n40	29s59	7s23	20n25	20n15	22s40		n.a.

Julian Day Number = 1650564.5, Delta T = 03h31m15s
Ecliptic obliquity = 23°43'11, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°44'49, Lahiri = - 6°37'48 Julian Calendar 1 Jan. 194 BCE == Greg. Calendar 29 Dec. 195 BCE

The year -193 astronomical counting style corresponds to year 194 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 194 BCE
geocentric

FEBRUARY 194 BCE (-193) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 27 57	8♒46'23	16♓59	21♑56	15♒49	16♓44	16♉16	16♏40	15♐47	13°R53	16♑45	29°R59	29♉18	9♒53	n.a.	T 1
F 2	8 31 53	9°46'29	29° 2	23°33	17° 3	17°28	16°19	16°43	15°50	13♍52	16°46	29♉49	29°15	10° 0	n.a.	F 2
S 3	8 35 50	10°46'33	11♈14	25°11	18°18	18°11	16°23	16°45	15°52	13°51	16°48	29°43	29°11	10° 6	n.a.	S 3
S 4	8 39 46	11°46'34	23°38	26°50	19°33	18°55	16°27	16°47	15°55	13°50	16°50	29°39	29° 8	10°13	n.a.	S 4
M 5	8 43 43	12°46'33	6♉18	28°31	20°48	19°38	16°31	16°50	15°57	13°48	16°51	29°38	29° 5	10°20	n.a.	M 5
T 6	8 47 40	13°46'30	19°18	0♒12	22° 2	20°22	16°35	16°52	15°59	13°47	16°53	29°D38	29° 2	10°26	n.a.	T 6
W 7	8 51 36	14°46'25	2♊42	1°55	23°17	21° 5	16°40	16°54	16° 2	13°45	16°55	29°R38	28°59	10°33	n.a.	W 7
T 8	8 55 33	15°46'17	16°34	3°38	24°32	21°49	16°45	16°56	16° 4	13°44	16°56	29°37	28°56	10°40	n.a.	T 8
F 9	8 59 29	16°46'07	0♋54	5°23	25°46	22°32	16°49	16°58	16° 6	13°43	16°58	29°34	28°52	10°47	n.a.	F 9
S 10	9 3 26	17°45'55	15°40	7° 9	27° 1	23°16	16°54	17° 0	16° 8	13°41	17° 0	29°28	28°49	10°53	n.a.	S 10
S 11	9 7 22	18°45'40	0♌48	8°56	28°15	23°59	17° 0	17° 2	16°10	13°40	17° 1	29°20	28°46	11° 0	n.a.	S 11
M12	9 11 19	19°45'23	16° 7	10°44	29°30	24°42	17° 5	17° 3	16°12	13°38	17° 3	29° 9	28°43	11° 7	n.a.	M12
T 13	9 15 15	20°45'04	1♍28	12°33	0♓45	25°25	17°11	17° 5	16°14	13°37	17° 4	28°58	28°40	11°13	n.a.	T 13
W14	9 19 12	21°44'43	16°37	14°24	1°59	26° 9	17°16	17° 6	16°16	13°35	17° 6	28°47	28°36	11°20	n.a.	W14
T 15	9 23 9	22°44'20	1♎25	16°16	3°14	26°52	17°22	17° 8	16°18	13°34	17° 7	28°38	28°33	11°27	n.a.	T 15
F 16	9 27 5	23°43'55	15°46	18° 9	4°28	27°35	17°28	17° 9	16°20	13°32	17° 9	28°32	28°30	11°34	n.a.	F 16
S 17	9 31 2	24°43'28	29°36	20° 3	5°42	28°18	17°34	17°10	16°22	13°31	17°10	28°28	28°27	11°40	n.a.	S 17
S 18	9 34 58	25°42'59	12♏57	21°58	6°57	29° 1	17°41	17°11	16°24	13°29	17°12	28°26	28°24	11°47	n.a.	S 18
M19	9 38 55	26°42'29	25°51	23°55	8°11	29°44	17°47	17°12	16°26	13°28	17°13	28°26	28°21	11°54	n.a.	M19
T 20	9 42 51	27°41'57	8♐23	25°52	9°26	0♈27	17°54	17°13	16°27	13°26	17°15	28°26	28°17	12° 0	n.a.	T 20
W21	9 46 48	28°41'23	20°38	27°51	10°40	1°10	18° 0	17°14	16°29	13°25	17°16	28°25	28°14	12° 7	n.a.	W21
T 22	9 50 44	29°40'47	2♑40	29°50	11°54	1°52	18° 7	17°15	16°31	13°23	17°18	28°21	28°11	12°14	n.a.	T 22
F 23	9 54 41	0♓40'09	14°35	1♓51	13° 9	2°35	18°14	17°15	16°32	13°21	17°19	28°15	28° 8	12°21	n.a.	F 23
S 24	9 58 38	1°39'29	26°26	3°52	14°23	3°18	18°22	17°16	16°34	13°20	17°21	28° 6	28° 5	12°27	n.a.	S 24
S 25	10 2 34	2°38'47	8♒16	5°54	15°37	4° 1	18°29	17°16	16°35	13°18	17°22	27°55	28° 2	12°34	n.a.	S 25
M26	10 6 31	3°38'03	20° 8	7°56	16°52	4°43	18°36	17°16	16°37	13°17	17°23	27°41	27°58	12°41	n.a.	M26
T 27	10 10 27	4°37'17	2♓ 3	9°59	18° 6	5°26	18°44	17°16	16°38	13°15	17°25	27°27	27°55	12°47	n.a.	T 27
W28	10 14 24	5♓36'28	14♓ 2	12♓ 2	19♓20	6♈ 8	18♉52	17°R17	16♐39	13♍13	17♑26	27♉13	27♉52	12♒54	n.a.	W28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	18s17	9s37	4s49	23s44	1s51	17s39	1s26	5s44	0s29	16n23	0s32	15s 4	2n 2	23s 5	0s 8	7n56	1n40	29s59	7s23	20n23	20n14	22s39		n.a.	T 1
F 2	18 1	4 25	4 24	23 31	1 55	17 17	1 27	5 26	0 28	16 24	0 32	15 4	2 3	23 5	0 8	7 57	1 40	29 58	7 23	20 21	20 13	22 37		n.a.	F 2
S 3	17 44	1n 1	3 47	23 16	1 57	16 53	1 27	5 8	0 27	16 26	0 32	15 5	2 3	23 6	0 8	7 57	1 40	29 58	7 23	20 20	20 13	22 36		n.a.	S 3
S 4	17 27	6 31	2 58	23 0	2 0	16 30	1 26	4 50	0 26	16 27	0 31	15 5	2 3	23 6	0 8	7 58	1 40	29 58	7 23	20 19	20 12	22 34		n.a.	S 4
M 5	17 10	11 53	2 0	22 41	2 2	16 6	1 26	4 32	0 25	16 28	0 31	15 6	2 3	23 6	0 8	7 58	1 40	29 58	7 23	20 18	20 11	22 32		n.a.	M 5
T 6	16 53	16 53	0 55	22 21	2 4	15 41	1 26	4 14	0 25	16 30	0 31	15 6	2 3	23 7	0 8	7 59	1 40	29 58	7 24	20 18	20 11	22 31		n.a.	T 6
W 7	16 36	21 13	0n16	22 0	2 5	15 16	1 26	3 56	0 24	16 31	0 31	15 7	2 3	23 7	0 8	8 0	1 40	29 58	7 24	20 18	20 10	22 29		n.a.	W 7
T 8	16 18	24 30	1 28	21 36	2 6	14 51	1 26	3 38	0 23	16 33	0 30	15 7	2 3	23 7	0 8	8 0	1 40	29 58	7 24	20 18	20 9	22 28		n.a.	T 8
F 9	16 0	26 20	2 37	21 11	2 6	14 25	1 25	3 20	0 23	16 35	0 30	15 8	2 4	23 7	0 8	8 1	1 40	29 58	7 24	20 18	20 9	22 26		n.a.	F 9
S 10	15 41	26 23	3 38	20 44	2 6	13 59	1 25	3 2	0 22	16 36	0 30	15 8	2 4	23 8	0 8	8 1	1 40	29 58	7 24	20 16	20 8	22 24		n.a.	S 10
S 11	15 23	24 31	4 24	20 15	2 6	13 32	1 24	2 44	0 21	16 38	0 30	15 8	2 4	23 8	0 8	8 2	1 40	29 58	7 24	20 15	20 7	22 23		n.a.	S 11
M12	15 4	20 50	4 53	19 44	2 5	13 5	1 24	2 26	0 20	16 40	0 30	15 9	2 4	23 8	0 8	8 3	1 40	29 58	7 25	20 12	20 6	22 21		n.a.	M12
T 13	14 45	15 44	5 0	19 12	2 3	12 38	1 23	2 8	0 20	16 41	0 29	15 9	2 4	23 8	0 8	8 3	1 40	29 58	7 25	20 10	20 6	22 19		n.a.	T 13
W14	14 25	9 44	4 46	18 38	2 1	12 10	1 22	1 50	0 19	16 43	0 29	15 9	2 4	23 8	0 8	8 4	1 40	29 58	7 25	20 7	20 5	22 18		n.a.	W14
T 15	14 6	3 18	4 13	18 2	1 59	11 42	1 22	1 32	0 18	16 45	0 29	15 9	2 5	23 9	0 8	8 4	1 40	29 58	7 25	20 5	20 4	22 16		n.a.	T 15
F 16	13 46	3s 8	3 25	17 24	1 55	11 14	1 21	1 14	0 17	16 47	0 29	15 10	2 5	23 9	0 8	8 5	1 40	29 58	7 25	20 4	20 4	22 14		n.a.	F 16
S 17	13 26	9 11	2 26	16 44	1 52	10 46	1 20	0 56	0 17	16 49	0 29	15 10	2 5	23 9	0 8	8 6	1 40	29 58	7 25	20 3	20 3	22 13		n.a.	S 17
S 18	13 6	14 37	1 21	16 3	1 48	10 17	1 19	0 38	0 16	16 51	0 28	15 10	2 5	23 9	0 8	8 6	1 40	29 58	7 26	20 3	20 2	22 11		n.a.	S 18
M19	12 45	19 13	0 14	15 19	1 43	9 48	1 18	0 20	0 15	16 53	0 28	15 10	2 5	23 9	0 8	8 7	1 40	29 58	7 26	20 3	20 1	22 9		n.a.	M19
T 20	12 25	22 49	0s52	14 35	1 38	9 19	1 17	0 3	0 14	16 55	0 28	15 10	2 5	23 10	0 8	8 8	1 40	29 58	7 26	20 3	20 1	22 8		n.a.	T 20
W21	12 4	25 17	1 54	13 48	1 32	8 49	1 16	0n15	0 14	16 57	0 28	15 10	2 6	23 10	0 8	8 8	1 40	29 58	7 26	20 2	20 0	22 6		n.a.	W21
T 22	11 43	26 32	2 50	13 0	1 26	8 20	1 15	0 33	0 13	16 59	0 28	15 10	2 6	23 10	0 8	8 9	1 40	29 58	7 26	20 2	19 59	22 4		n.a.	T 22
F 23	11 22	26 31	3 38	12 10	1 19	7 50	1 13	0 51	0 12	17 1	0 27	15 10	2 6	23 10	0 8	8 9	1 40	29 58	7 27	20 0	19 59	22 2		n.a.	F 23
S 24	11 1	25 17	4 16	11 18	1 11	7 19	1 12	1 9	0 12	17 4	0 27	15 10	2 6	23 10	0 8	8 10	1 40	29 58	7 27	19 58	19 58	22 1		n.a.	S 24
S 25	10 39	22 57	4 42	10 26	1 3	6 49	1 11	1 27	0 11	17 6	0 27	15 10	2 6	23 11	0 8	8 11	1 40	29 58	7 27	19 56	19 57	21 59		n.a.	S 25
M26	10 17	19 37	4 57	9 32	0 54	6 19	1 9	1 44	0 10	17 8	0 27	15 10	2 6	23 11	0 8	8 11	1 40	29 58	7 27	19 53	19 56	21 57		n.a.	M26
T 27	9 56	15 30	4 58	8 37	0 45	5 48	1 8	2 2	0 10	17 11	0 27	15 10	2 7	23 11	0 9	8 12	1 40	29 58	7 27	19 49	19 56	21 55		n.a.	T 27
W28	9s34	10s45	4s47	7s41	0s36	5s17	1s 6	2n20	0s 9	17n13	0s26	15s10	2n 7	23s11	0s 9	8n13	1n40	29s58	7s28	19n46	19n55	21s54		n.a.	W28

Julian Day Number = 1650595.5, Delta T = 03h31m14s
Ecliptic obliquity = 23°43'12, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°44'44, Lahiri = - 6°37'44 Julian Calendar 1 Feb. 194 BCE == Greg. Calendar 29 Jan. 194 BCE

The year -193 astronomical counting style corresponds to year 194 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 194 BCE
geocentric

MARCH 194 BCE (-193) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 18 20	6♓35'38	26♓ 8	14♓ 4	20♓34	6♈51	19♉ 0	17°R17	16♐41	13°R12	17♑27	27°R 0	27♉49	13♒ 1	n.a.	T 1
F 2	10 22 17	7°34'45	8♈20	16° 6	21°48	7°33	19° 8	17♏16	16°42	13♍10	17°29	26♉49	27°46	13° 8	n.a.	F 2
S 3	10 26 13	8°33'50	20°41	18° 7	23° 2	8°16	19°16	17°16	16°43	13° 8	17°30	26°42	27°42	13°14	n.a.	S 3
S 4	10 30 10	9°32'53	3♉12	20° 7	24°17	8°58	19°24	17°16	16°44	13° 7	17°31	26°37	27°39	13°21	n.a.	S 4
M 5	10 34 6	10°31'53	15°57	22° 6	25°31	9°41	19°33	17°15	16°45	13° 5	17°32	26°35	27°36	13°28	n.a.	M 5
T 6	10 38 3	11°30'51	28°57	24° 3	26°45	10°23	19°41	17°15	16°46	13° 4	17°33	26°D35	27°33	13°35	n.a.	T 6
W 7	10 42 0	12°29'47	12♊18	25°57	27°59	11° 5	19°50	17°14	16°47	13° 2	17°35	26°R35	27°30	13°41	n.a.	W 7
T 8	10 45 56	13°28'40	26° 1	27°49	29°13	11°47	19°59	17°14	16°48	13° 0	17°36	26°35	27°27	13°48	n.a.	T 8
F 9	10 49 53	14°27'31	10♋ 8	29°38	0♈27	12°30	20° 8	17°13	16°49	12°59	17°37	26°32	27°23	13°55	n.a.	F 9
S 10	10 53 49	15°26'20	24°38	1♈24	1°40	13°12	20°17	17°12	16°50	12°57	17°38	26°28	27°20	14° 1	n.a.	S 10
S 11	10 57 46	16°25'06	9♌29	3° 5	2°54	13°54	20°26	17°11	16°51	12°55	17°39	26°20	27°17	14° 8	n.a.	S 11
M12	11 1 42	17°23'50	24°33	4°43	4° 8	14°36	20°35	17°10	16°52	12°54	17°40	26°11	27°14	14°15	n.a.	M12
T 13	11 5 39	18°22'31	9♍41	6°17	5°22	15°18	20°45	17° 9	16°52	12°52	17°41	26° 1	27°11	14°22	n.a.	T 13
W14	11 9 35	19°21'11	24°44	7°46	6°36	16° 0	20°54	17° 7	16°53	12°50	17°42	25°51	27° 7	14°28	n.a.	W14
T 15	11 13 32	20°19'48	9♎31	9°10	7°50	16°42	21° 4	17° 6	16°53	12°49	17°43	25°43	27° 4	14°35	n.a.	T 15
F 16	11 17 29	21°18'23	23°54	10°30	9° 3	17°23	21°14	17° 5	16°54	12°47	17°44	25°37	27° 1	14°42	n.a.	F 16
S 17	11 21 25	22°16'57	7♏50	11°44	10°17	18° 5	21°23	17° 3	16°54	12°45	17°45	25°33	26°58	14°48	n.a.	S 17
S 18	11 25 22	23°15'29	21°17	12°53	11°31	18°47	21°33	17° 1	16°55	12°44	17°46	25°D32	26°55	14°55	n.a.	S 18
M19	11 29 18	24°13'59	4♐18	13°57	12°44	19°29	21°43	17° 0	16°55	12°42	17°47	25°32	26°52	15° 2	n.a.	M19
T 20	11 33 15	25°12'27	16°54	14°55	13°58	20°10	21°53	16°58	16°56	12°41	17°48	25°33	26°48	15° 9	n.a.	T 20
W21	11 37 11	26°10'54	29°12	15°48	15°11	20°52	22° 4	16°56	16°56	12°39	17°49	25°R33	26°45	15°15	n.a.	W21
T 22	11 41 8	27° 9'19	11♑16	16°35	16°25	21°34	22°14	16°54	16°56	12°37	17°50	25°32	26°42	15°22	n.a.	T 22
F 23	11 45 4	28° 7'42	23°12	17°16	17°39	22°15	22°24	16°52	16°56	12°36	17°50	25°29	26°39	15°29	n.a.	F 23
S 24	11 49 1	29° 6'04	5♒ 3	17°51	18°52	22°57	22°35	16°50	16°56	12°34	17°51	25°23	26°36	15°35	n.a.	S 24
S 25	11 52 57	0♈ 4'24	16°53	18°21	20° 6	23°38	22°46	16°47	16°57	12°33	17°52	25°16	26°33	15°42	n.a.	S 25
M26	11 56 54	1° 2'42	28°48	18°45	21°19	24°20	22°56	16°45	16°R57	12°31	17°53	25° 6	26°29	15°49	n.a.	M26
T 27	12 0 51	2° 0'58	10♓47	19° 3	22°32	25° 1	23° 7	16°43	16°56	12°30	17°54	24°56	26°26	15°56	n.a.	T 27
W28	12 4 47	2°59'13	22°55	19°15	23°46	25°42	23°18	16°40	16°56	12°28	17°54	24°46	26°23	16° 2	n.a.	W28
T 29	12 8 44	3°57'26	5♈11	19°21	24°59	26°24	23°29	16°38	16°56	12°27	17°55	24°37	26°20	16° 9	n.a.	T 29
F 30	12 12 40	4°55'37	17°37	19°R22	26°12	27° 5	23°40	16°35	16°56	12°25	17°55	24°30	26°17	16°16	n.a.	F 30
S 31	12 16 37	5♈53'46	0♉13	19♈18	27♈26	27♈46	23♉51	16♏32	16♐56	12♍24	17♑56	24♉25	26♉13	16♒23	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9s12	5s33	4s22	6s44	0s25	4s46	1s 5	2n38	0s 8	17n15	0s26	15s10	2n 7	23s11	0s 9	8n13	1n40	29s58	7s28	19n43	19n54	21s52		n.a.
F 2	8 50	0 6	3 45	5 46	0 15	4 15	1 3	2 55	0 7	17 18	0 26	15 10	2 7	23 11	0 9	8 14	1 40	29 58	7 28	19 41	19 54	21 50		n.a.
S 3	8 27	5n26	2 58	4 48	0 4	3 44	1 2	3 13	0 7	17 20	0 26	15 9	2 7	23 11	0 9	8 15	1 40	29 58	7 28	19 39	19 53	21 48		n.a.
S 4	8 5	10 50	2 0	3 50	0n 8	3 13	1 0	3 30	0 6	17 23	0 26	15 9	2 7	23 12	0 9	8 15	1 41	29 58	7 28	19 38	19 52	21 47		n.a.
M 5	7 42	15 55	0 56	2 53	0 19	2 41	0 58	3 48	0 5	17 25	0 25	15 9	2 7	23 12	0 9	8 16	1 41	29 58	7 29	19 37	19 51	21 45		n.a.
T 6	7 20	20 22	0n13	1 55	0 31	2 10	0 56	4 5	0 5	17 28	0 25	15 9	2 8	23 12	0 9	8 17	1 41	29 58	7 29	19 37	19 51	21 43		n.a.
W 7	6 57	23 54	1 22	0 58	0 43	1 38	0 54	4 22	0 4	17 30	0 25	15 8	2 8	23 12	0 9	8 17	1 41	29 58	7 29	19 37	19 50	21 41		n.a.
T 8	6 34	26 9	2 29	0 3	0 55	1 7	0 52	4 40	0 3	17 33	0 25	15 8	2 8	23 12	0 9	8 18	1 41	29 58	7 29	19 37	19 49	21 39		n.a.
F 9	6 11	26 48	3 29	0n52	1 6	0 35	0 50	4 57	0 3	17 35	0 25	15 8	2 8	23 12	0 9	8 18	1 41	29 58	7 30	19 37	19 48	21 38		n.a.
S 10	5 48	25 40	4 17	1 45	1 18	0 4	0 48	5 14	0 2	17 38	0 25	15 7	2 8	23 12	0 9	8 19	1 41	29 58	7 30	19 35	19 48	21 36		n.a.
S 11	5 25	22 44	4 49	2 37	1 30	0n28	0 46	5 31	0 1	17 40	0 24	15 7	2 8	23 12	0 9	8 20	1 41	29 58	7 30	19 34	19 47	21 34		n.a.
M12	5 2	18 13	5 2	3 26	1 41	0 59	0 44	5 48	0 1	17 43	0 24	15 6	2 8	23 12	0 9	8 20	1 41	29 58	7 30	19 32	19 46	21 32		n.a.
T 13	4 39	12 33	4 54	4 14	1 52	1 31	0 42	6 5	0 0	17 46	0 24	15 6	2 9	23 13	0 9	8 21	1 41	29 58	7 31	19 29	19 45	21 30		n.a.
W14	4 16	6 10	4 25	4 59	2 2	2 2	0 40	6 22	0n 1	17 49	0 24	15 5	2 9	23 13	0 9	8 22	1 41	29 59	7 31	19 27	19 45	21 28		n.a.
T 15	3 52	0s28	3 39	5 42	2 12	2 34	0 38	6 39	0 1	17 51	0 24	15 5	2 9	23 13	0 9	8 22	1 41	29 59	7 31	19 25	19 44	21 27		n.a.
F 16	3 29	6 54	2 40	6 22	2 21	3 5	0 35	6 56	0 2	17 54	0 23	15 4	2 9	23 13	0 9	8 23	1 41	29 59	7 31	19 23	19 43	21 25		n.a.
S 17	3 6	12 49	1 33	6 59	2 30	3 37	0 33	7 13	0 3	17 57	0 23	15 4	2 9	23 13	0 9	8 24	1 41	29 59	7 32	19 22	19 43	21 23		n.a.
S 18	2 42	17 56	0 23	7 34	2 37	4 8	0 31	7 30	0 3	18 0	0 23	15 3	2 9	23 13	0 9	8 24	1 41	29 59	7 32	19 22	19 42	21 21		n.a.
M19	2 19	22 1	0s47	8 5	2 44	4 39	0 28	7 46	0 4	18 2	0 23	15 2	2 9	23 13	0 9	8 25	1 41	29 59	7 32	19 22	19 41	21 19		n.a.
T 20	1 56	24 55	1 52	8 34	2 50	5 10	0 26	8 3	0 5	18 5	0 23	15 2	2 10	23 13	0 9	8 25	1 41	29 59	7 32	19 22	19 40	21 17		n.a.
W21	1 32	26 33	2 50	8 59	2 56	5 41	0 23	8 19	0 5	18 8	0 23	15 1	2 10	23 13	0 9	8 26	1 41	29 59	7 33	19 22	19 40	21 15		n.a.
T 22	1 9	26 52	3 39	9 21	3 0	6 12	0 21	8 35	0 6	18 11	0 23	15 0	2 10	23 13	0 9	8 27	1 41	30 0	7 33	19 22	19 39	21 14		n.a.
F 23	0 45	25 56	4 18	9 40	3 3	6 43	0 19	8 52	0 6	18 14	0 22	15 0	2 10	23 13	0 9	8 27	1 41	30 0	7 33	19 21	19 38	21 12		n.a.
S 24	0 22	23 51	4 46	9 56	3 5	7 14	0 16	9 8	0 7	18 17	0 22	14 59	2 10	23 13	0 9	8 28	1 41	30 0	7 33	19 20	19 37	21 10		n.a.
S 25	0n 2	20 44	5 2	10 8	3 6	7 44	0 13	9 24	0 8	18 19	0 22	14 58	2 10	23 13	0 9	8 28	1 41	30 0	7 34	19 18	19 37	21 8		n.a.
M26	0 25	16 46	5 4	10 17	3 5	8 14	0 11	9 40	0 8	18 22	0 22	14 57	2 10	23 13	0 9	8 29	1 41	30 0	7 34	19 16	19 36	21 6		n.a.
T 27	0 49	12 7	4 53	10 22	3 4	8 44	0 8	9 56	0 9	18 25	0 22	14 57	2 10	23 13	0 9	8 30	1 41	30 0	7 34	19 13	19 35	21 4		n.a.
W28	1 12	6 58	4 29	10 24	3 1	9 14	0 6	10 12	0 10	18 28	0 22	14 56	2 11	23 13	0 9	8 30	1 41	30 0	7 34	19 11	19 34	21 2		n.a.
T 29	1 35	1 28	3 53	10 23	2 57	9 44	0 3	10 28	0 10	18 31	0 21	14 55	2 11	23 13	0 9	8 31	1 40	30 1	7 35	19 9	19 34	21 0		n.a.
F 30	1 59	4n 9	3 4	10 19	2 52	10 13	0 1	10 43	0 11	18 34	0 21	14 54	2 11	23 13	0 9	8 31	1 40	30 1	7 35	19 7	19 33	20 58		n.a.
S 31	2n22	9n43	2s 6	10n11	2n45	10n43	0n 2	10n59	0n11	18n37	0s21	14s53	2n11	23s13	0s 9	8n32	1n40	30s 1	7s35	19n 6	19n32	20s56		n.a.

Julian Day Number = 1650623.5, Delta T = 03h31m13s
Ecliptic obliquity = 23°43'13, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°44'41, Lahiri = - 6°37'40 Julian Calendar 1 March 194 BCE == Greg. Calendar 26 Feb. 194 BCE

The year -193 astronomical counting style corresponds to year 194 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 194 BCE
geocentric

APRIL 194 BCE (-193) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 20 33	6♈51'53	13♉ 0	19°R 9	28♈39	28♈27	24♉ 2	16°R29	16°R56	12°R22	17♎57	24°R23	26♉10	16♒29	n.a.	S 1
M 2	12 24 30	7°49'58	25°59	18♈54	29°52	29° 9	24°14	16♏27	16♐55	12♍21	17°57	24°D22	26° 7	16°36	n.a.	M 2
T 3	12 28 26	8°48'01	9♊12	18°35	1♉ 5	29°50	24°25	16°24	16°55	12°19	17°58	24♉23	26° 4	16°43	n.a.	T 3
W 4	12 32 23	9°46'03	22°40	18°12	2°18	0♉31	24°36	16°21	16°54	12°18	17°58	24°24	26° 1	16°49	n.a.	W 4
T 5	12 36 20	10°44'02	6♋23	17°45	3°31	1°12	24°48	16°17	16°54	12°16	17°59	24°R25	25°58	16°56	n.a.	T 5
F 6	12 40 16	11°42'00	20°24	17°15	4°45	1°53	25° 0	16°14	16°53	12°15	17°59	24°25	25°54	17° 3	n.a.	F 6
S 7	12 44 13	12°39'55	4♌41	16°43	5°58	2°34	25°11	16°11	16°53	12°14	18° 0	24°23	25°51	17°10	n.a.	S 7
S 8	12 48 9	13°37'49	19°12	16° 8	7°11	3°15	25°23	16° 8	16°52	12°12	18° 0	24°19	25°48	17°16	n.a.	S 8
M 9	12 52 6	14°35'40	3♍53	15°32	8°23	3°56	25°35	16° 4	16°52	12°11	18° 0	24°14	25°45	17°23	n.a.	M 9
T 10	12 56 2	15°33'30	18°37	14°56	9°36	4°36	25°47	16° 1	16°51	12°10	18° 1	24° 8	25°42	17°30	n.a.	T 10
W11	12 59 59	16°31'17	3♎18	14°19	10°49	5°17	25°59	15°57	16°50	12° 8	18° 1	24° 3	25°39	17°36	n.a.	W11
T 12	13 3 55	17°29'04	17°47	13°42	12° 2	5°58	26°11	15°54	16°49	12° 7	18° 1	23°58	25°35	17°43	n.a.	T 12
F 13	13 7 52	18°26'48	1♏59	13° 7	13°15	6°39	26°23	15°50	16°48	12° 6	18° 2	23°55	25°32	17°50	n.a.	F 13
S 14	13 11 49	19°24'32	15°48	12°34	14°28	7°19	26°35	15°47	16°48	12° 5	18° 2	23°53	25°29	17°57	n.a.	S 14
S 15	13 15 45	20°22'14	29°14	12° 3	15°40	8° 0	26°47	15°43	16°47	12° 3	18° 2	23°D53	25°26	18° 3	n.a.	S 15
M16	13 19 42	21°19'55	12♐16	11°35	16°53	8°40	26°59	15°39	16°46	12° 2	18° 2	23°54	25°23	18°10	n.a.	M16
T 17	13 23 38	22°17'34	24°56	11°10	18° 6	9°21	27°12	15°35	16°45	12° 1	18° 3	23°55	25°19	18°17	n.a.	T 17
W18	13 27 35	23°15'13	7♑17	10°49	19°18	10° 2	27°24	15°31	16°43	12° 0	18° 3	23°57	25°16	18°24	n.a.	W18
T 19	13 31 31	24°12'50	19°25	10°31	20°31	10°42	27°36	15°27	16°42	11°59	18° 3	23°R58	25°13	18°30	n.a.	T 19
F 20	13 35 28	25°10'26	1♒23	10°18	21°43	11°23	27°49	15°23	16°41	11°58	18° 3	23°58	25°10	18°37	n.a.	F 20
S 21	13 39 24	26° 8'01	13°16	10° 9	22°56	12° 3	28° 1	15°19	16°40	11°56	18° 3	23°57	25° 7	18°44	n.a.	S 21
S 22	13 43 21	27° 5'35	25° 8	10° 4	24° 8	12°43	28°14	15°15	16°39	11°55	18° 3	23°54	25° 4	18°50	n.a.	S 22
M23	13 47 18	28° 3'08	7♓ 5	10°D 4	25°21	13°24	28°26	15°11	16°37	11°54	18°R 3	23°51	25° 0	18°57	n.a.	M23
T 24	13 51 14	29° 0'40	19°10	10° 8	26°33	14° 4	28°39	15° 7	16°36	11°53	18° 3	23°47	24°57	19° 4	n.a.	T 24
W25	13 55 11	29°58'11	1♈24	10°17	27°45	14°44	28°52	15° 3	16°35	11°52	18° 3	23°43	24°54	19°11	n.a.	W25
T 26	13 59 7	0♉55'41	13°51	10°31	28°58	15°25	29° 5	14°59	16°33	11°51	18° 3	23°39	24°51	19°17	n.a.	T 26
F 27	14 3 4	1°53'09	26°32	10°49	0♊10	16° 5	29°17	14°55	16°32	11°50	18° 3	23°37	24°48	19°24	n.a.	F 27
S 28	14 7 0	2°50'37	9♉26	11°11	1°22	16°45	29°30	14°50	16°30	11°50	18° 3	23°35	24°44	19°31	n.a.	S 28
S 29	14 10 57	3°48'04	22°35	11°37	2°34	17°25	29°43	14°46	16°29	11°49	18° 3	23°D34	24°41	19°37	n.a.	S 29
M30	14 14 53	4♉45'29	5♊57	12♈ 8	3♊46	18♉ 5	29♉56	14♏42	16♐27	11♍48	18♎ 2	23♉35	24♉38	19♒44	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	2n45	14n57	1s 1	10n 0	2n37	11n12	0n 5	11n14	0n12	18n40	0s21	14s52	2n11	23s13	0s 9	8n33	1n40	30s 1	7s35	19n 5	19n31	20s54		n.a.
M 2	3 9	19 37	0n 9	9 46	2 28	11 40	0 7	11 30	0 13	18 43	0 21	14 51	2 11	23 13	0 9	8 33	1 40	30 1	7 36	19 5	19 31	20 52		n.a.
T 3	3 32	23 24	1 19	9 29	2 17	12 9	0 10	11 45	0 13	18 46	0 21	14 51	2 11	23 13	0 9	8 34	1 40	30 2	7 36	19 5	19 30	20 50		n.a.
W 4	3 55	25 57	2 27	9 9	2 6	12 37	0 13	12 0	0 14	18 49	0 21	14 50	2 11	23 13	0 9	8 34	1 40	30 2	7 36	19 6	19 29	20 48		n.a.
T 5	4 18	27 1	3 27	8 47	1 53	13 5	0 16	12 15	0 14	18 52	0 20	14 49	2 11	23 13	0 9	8 35	1 40	30 2	7 37	19 6	19 28	20 46		n.a.
F 6	4 41	26 23	4 17	8 22	1 39	13 32	0 18	12 30	0 15	18 55	0 20	14 48	2 11	23 13	0 9	8 35	1 40	30 2	7 37	19 6	19 28	20 45		n.a.
S 7	5 4	24 1	4 51	7 56	1 24	13 59	0 21	12 45	0 16	18 58	0 20	14 47	2 11	23 13	0 9	8 36	1 40	30 2	7 37	19 5	19 27	20 43		n.a.
S 8	5 26	20 6	5 8	7 28	1 9	14 26	0 24	13 0	0 16	19 1	0 20	14 46	2 12	23 13	0 9	8 36	1 40	30 3	7 37	19 4	19 26	20 41		n.a.
M 9	5 49	14 55	5 5	7 0	0 53	14 53	0 26	13 14	0 17	19 4	0 20	14 45	2 12	23 13	0 9	8 37	1 40	30 3	7 38	19 3	19 25	20 39		n.a.
T 10	6 12	8 52	4 42	6 30	0 36	15 19	0 29	13 29	0 17	19 7	0 20	14 43	2 12	23 13	0 9	8 37	1 40	30 3	7 38	19 2	19 24	20 37		n.a.
W11	6 34	2 21	4 0	6 0	0 19	15 45	0 32	13 43	0 18	19 10	0 20	14 42	2 12	23 13	0 9	8 38	1 40	30 3	7 38	19 0	19 24	20 35		n.a.
T 12	6 57	4s14	3 4	5 30	0 2	16 10	0 34	13 57	0 18	19 13	0 19	14 41	2 12	23 13	0 9	8 38	1 40	30 3	7 38	18 59	19 23	20 33		n.a.
F 13	7 19	10 29	1 56	5 1	0s15	16 35	0 37	14 11	0 19	19 16	0 19	14 40	2 12	23 13	0 9	8 39	1 40	30 4	7 39	18 58	19 22	20 31		n.a.
S 14	7 41	16 4	0 44	4 32	0 32	17 0	0 40	14 25	0 20	19 19	0 19	14 39	2 12	23 13	0 9	8 39	1 40	30 4	7 39	18 58	19 21	20 29		n.a.
S 15	8 3	20 42	0s29	4 4	0 49	17 24	0 42	14 39	0 20	19 22	0 19	14 38	2 12	23 13	0 9	8 40	1 40	30 4	7 39	18 58	19 21	20 26		n.a.
M16	8 25	24 10	1 39	3 39	1 5	17 48	0 45	14 53	0 21	19 25	0 19	14 37	2 12	23 12	0 9	8 40	1 40	30 4	7 40	18 58	19 20	20 24		n.a.
T 17	8 47	26 19	2 41	3 14	1 20	18 11	0 47	15 7	0 21	19 28	0 19	14 36	2 12	23 12	0 9	8 40	1 40	30 5	7 40	18 58	19 19	20 22		n.a.
W18	9 8	27 6	3 35	2 52	1 35	18 34	0 50	15 20	0 22	19 30	0 19	14 35	2 12	23 12	0 9	8 41	1 40	30 5	7 40	18 59	19 18	20 20		n.a.
T 19	9 30	26 33	4 18	2 32	1 49	18 56	0 53	15 34	0 22	19 33	0 18	14 33	2 12	23 12	0 9	8 41	1 40	30 5	7 40	18 59	19 18	20 18		n.a.
F 20	9 51	24 47	4 49	2 15	2 3	19 18	0 55	15 47	0 23	19 36	0 18	14 32	2 12	23 12	0 9	8 42	1 40	30 5	7 41	18 59	19 17	20 16		n.a.
S 21	10 12	21 56	5 8	2 0	2 15	19 39	0 58	16 0	0 23	19 39	0 18	14 31	2 12	23 12	0 9	8 42	1 40	30 6	7 41	18 59	19 16	20 14		n.a.
S 22	10 33	18 11	5 13	1 48	2 26	20 0	1 0	16 13	0 24	19 42	0 18	14 30	2 12	23 12	0 9	8 42	1 40	30 6	7 41	18 58	19 15	20 12		n.a.
M23	10 54	13 43	5 5	1 38	2 37	20 20	1 3	16 26	0 25	19 45	0 18	14 29	2 12	23 12	0 9	8 43	1 40	30 6	7 41	18 57	19 14	20 10		n.a.
T 24	11 15	8 40	4 43	1 31	2 46	20 40	1 5	16 39	0 25	19 48	0 18	14 27	2 12	23 12	0 9	8 43	1 40	30 6	7 42	18 56	19 14	20 8		n.a.
W25	11 36	3 13	4 8	1 27	2 55	20 59	1 8	16 51	0 26	19 51	0 18	14 26	2 12	23 11	0 9	8 43	1 40	30 7	7 42	18 55	19 13	20 6		n.a.
T 26	11 56	2n27	3 21	1 25	3 2	21 18	1 10	17 4	0 26	19 54	0 18	14 25	2 12	23 11	0 9	8 44	1 40	30 7	7 42	18 54	19 12	20 4		n.a.
F 27	12 16	8 8	2 23	1 26	3 9	21 36	1 12	17 16	0 27	19 57	0 17	14 24	2 12	23 11	0 9	8 44	1 40	30 7	7 43	18 54	19 11	20 2		n.a.
S 28	12 36	13 35	1 17	1 30	3 14	21 53	1 15	17 28	0 27	20 0	0 17	14 22	2 12	23 11	0 9	8 44	1 40	30 8	7 43	18 53	19 11	20 0		n.a.
S 29	12 56	18 33	0 5	1 36	3 19	22 10	1 17	17 40	0 28	20 3	0 17	14 21	2 12	23 11	0 10	8 45	1 40	30 8	7 43	18 53	19 10	19 57		n.a.
M30	13n15	22n40	1n 8	1n45	3s22	22n27	1n19	17n52	0n28	20n 6	0s17	14s20	2n12	23s11	0s10	8n45	1n40	30s 8	7s43	18n53	19n 9	19s55		n.a.

Julian Day Number = 1650654.5, Delta T = 03h31m12s
Ecliptic obliquity = 23°43'13, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°44'36, Lahiri = - 6°37'36 Julian Calendar 1 Apr. 194 BCE == Greg. Calendar 29 March 194 BCE

The year -193 astronomical counting style corresponds to year 194 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 194 BCE
geocentric

MAY 194 BCE (-193) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 18 50	5♉42'53	19♊31	12♈43	4♊58	18♉45	0♊ 9	14°R38	16°R26	11°R47	18°R 2	23♉36	24♉35	19♒51	n.a.	T 1
W 2	14 22 47	6°40'16	3♋17	13°22	6°10	19°25	0°22	14♏33	16♐24	11♍46	18♑ 2	23°37	24°32	19°58	n.a.	W 2
T 3	14 26 43	7°37'38	17°13	14° 5	7°22	20° 5	0°35	14°29	16°22	11°45	18° 2	23°38	24°29	20° 4	n.a.	T 3
F 4	14 30 40	8°34'59	1♌18	14°51	8°34	20°45	0°48	14°24	16°21	11°45	18° 1	23°39	24°25	20°11	n.a.	F 4
S 5	14 34 36	9°32'18	15°31	15°41	9°46	21°25	1° 1	14°20	16°19	11°44	18° 1	23°R39	24°22	20°18	n.a.	S 5
S 6	14 38 33	10°29'36	29°49	16°35	10°58	22° 5	1°14	14°16	16°17	11°43	18° 1	23°38	24°19	20°25	n.a.	S 6
M 7	14 42 29	11°26'53	14♍ 8	17°33	12°10	22°45	1°28	14°11	16°15	11°43	18° 0	23°37	24°16	20°31	n.a.	M 7
T 8	14 46 26	12°24'09	28°26	18°33	13°22	23°25	1°41	14° 7	16°13	11°42	18° 0	23°36	24°13	20°38	n.a.	T 8
W 9	14 50 22	13°21'24	12♎39	19°38	14°33	24° 5	1°54	14° 2	16°11	11°41	18° 0	23°35	24°10	20°45	n.a.	W 9
T 10	14 54 19	14°18'37	26°41	20°45	15°45	24°44	2° 7	13°58	16°10	11°41	17°59	23°34	24° 6	20°51	n.a.	T 10
F 11	14 58 16	15°15'50	10♏30	21°56	16°57	25°24	2°20	13°54	16° 8	11°40	17°59	23°33	24° 3	20°58	n.a.	F 11
S 12	15 2 12	16°13'03	24° 3	23°10	18° 8	26° 4	2°34	13°49	16° 6	11°40	17°58	23°D33	24° 0	21° 5	n.a.	S 12
S 13	15 6 9	17°10'15	7♐17	24°27	19°20	26°44	2°47	13°45	16° 4	11°39	17°58	23°33	23°57	21°12	n.a.	S 13
M14	15 10 5	18° 7'26	20°12	25°47	20°31	27°23	3° 0	13°40	16° 2	11°39	17°57	23°33	23°54	21°18	n.a.	M14
T 15	15 14 2	19° 4'37	2♑50	27°10	21°42	28° 3	3°14	13°36	16° 0	11°39	17°57	23°34	23°50	21°25	n.a.	T 15
W16	15 17 58	20° 1'47	15°11	28°37	22°54	28°42	3°27	13°32	15°57	11°38	17°56	23°34	23°47	21°32	n.a.	W16
T 17	15 21 55	20°58'57	27°20	0♉ 6	24° 5	29°22	3°41	13°27	15°55	11°38	17°56	23°35	23°44	21°39	n.a.	T 17
F 18	15 25 51	21°56'07	9♒19	1°38	25°16	0♊ 2	3°54	13°23	15°53	11°37	17°55	23°35	23°41	21°45	n.a.	F 18
S 19	15 29 48	22°53'17	21°13	3°13	26°27	0°41	4° 7	13°19	15°51	11°37	17°54	23°35	23°38	21°52	n.a.	S 19
S 20	15 33 45	23°50'26	3♓ 7	4°52	27°39	1°21	4°21	13°14	15°49	11°37	17°54	23°35	23°35	21°59	n.a.	S 20
M21	15 37 41	24°47'35	15° 5	6°33	28°50	2° 0	4°34	13°10	15°47	11°37	17°53	23°35	23°31	22° 5	n.a.	M21
T 22	15 41 38	25°44'44	27°12	8°17	0♋ 1	2°39	4°48	13° 6	15°45	11°36	17°52	23°35	23°28	22°12	n.a.	T 22
W23	15 45 34	26°41'53	9♈31	10° 4	1°12	3°19	5° 1	13° 2	15°42	11°36	17°52	23°35	23°25	22°19	n.a.	W23
T 24	15 49 31	27°39'02	22° 5	11°53	2°22	3°58	5°15	12°57	15°40	11°36	17°51	23°36	23°22	22°26	n.a.	T 24
F 25	15 53 27	28°36'11	4♉57	13°45	3°33	4°38	5°28	12°53	15°38	11°36	17°50	23°36	23°19	22°32	n.a.	F 25
S 26	15 57 24	29°33'19	18° 8	15°40	4°44	5°17	5°42	12°49	15°35	11°36	17°49	23°R36	23°16	22°39	n.a.	S 26
S 27	16 1 20	0♊30'28	1♊38	17°37	5°55	5°56	5°56	12°45	15°33	11°36	17°49	23°36	23°12	22°46	n.a.	S 27
M28	16 5 17	1°27'36	15°25	19°37	7° 5	6°36	6° 9	12°41	15°31	11°D36	17°48	23°36	23° 9	22°53	n.a.	M28
T 29	16 9 14	2°24'45	29°27	21°39	8°16	7°15	6°23	12°37	15°29	11°36	17°47	23°35	23° 6	22°59	n.a.	T 29
W30	16 13 10	3°21'53	13♋38	23°42	9°27	7°54	6°36	12°33	15°26	11°36	17°46	23°34	23° 3	23° 6	n.a.	W30
T 31	16 17 7	4♊19'00	27♋57	25♉48	10♋37	8♊33	6♊50	12♏29	15♐24	11♍36	17♑45	23♉33	23♉ 0	23♒13	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13n35	25n36	2n18	1n56	3s25	22n42	1n21	18n 4	0n29	20n 9	0s17	14s19	2n12	23s11	0s10	8n45	1n40	30s 8	7s44	18n53	19n 8	19s53		n.a.
W 2	13 54	27 2	3 22	2 10	3 27	22 58	1 23	18 16	0 29	20 12	0 17	14 17	2 12	23 10	0 10	8 46	1 40	30 9	7 44	18 54	19 7	19 51		n.a.
T 3	14 13	26 48	4 14	2 26	3 27	23 12	1 25	18 27	0 30	20 14	0 17	14 16	2 12	23 10	0 10	8 46	1 40	30 9	7 44	18 54	19 7	19 49		n.a.
F 4	14 32	24 51	4 52	2 44	3 27	23 26	1 27	18 38	0 30	20 17	0 17	14 15	2 12	23 10	0 10	8 46	1 39	30 9	7 44	18 54	19 6	19 47		n.a.
S 5	14 50	21 20	5 13	3 4	3 27	23 39	1 29	18 49	0 31	20 20	0 16	14 14	2 12	23 10	0 10	8 46	1 39	30 10	7 45	18 54	19 5	19 45		n.a.
S 6	15 9	16 33	5 14	3 27	3 25	23 51	1 31	19 0	0 31	20 23	0 16	14 12	2 12	23 10	0 10	8 47	1 39	30 10	7 45	18 54	19 4	19 43		n.a.
M 7	15 27	10 51	4 56	3 51	3 23	24 3	1 33	19 11	0 32	20 26	0 16	14 11	2 12	23 10	0 10	8 47	1 39	30 10	7 45	18 54	19 4	19 40		n.a.
T 8	15 44	4 35	4 19	4 17	3 20	24 15	1 35	19 22	0 32	20 29	0 16	14 10	2 12	23 9	0 10	8 47	1 39	30 11	7 45	18 53	19 3	19 38		n.a.
W 9	16 2	1s53	3 27	4 45	3 16	24 25	1 37	19 33	0 33	20 31	0 16	14 8	2 12	23 9	0 10	8 47	1 39	30 11	7 46	18 53	19 2	19 36		n.a.
T 10	16 19	8 11	2 23	5 15	3 11	24 35	1 39	19 43	0 33	20 34	0 16	14 7	2 12	23 9	0 10	8 47	1 39	30 11	7 46	18 53	19 1	19 34		n.a.
F 11	16 36	14 1	1 12	5 46	3 6	24 44	1 40	19 53	0 34	20 37	0 16	14 6	2 12	23 9	0 10	8 48	1 39	30 12	7 46	18 53	19 0	19 32		n.a.
S 12	16 53	19 3	0s 3	6 19	3 0	24 52	1 42	20 3	0 34	20 40	0 16	14 5	2 12	23 9	0 10	8 48	1 39	30 12	7 47	18 53	19 0	19 30		n.a.
S 13	17 10	23 1	1 15	6 54	2 54	25 0	1 43	20 13	0 35	20 42	0 15	14 3	2 12	23 9	0 10	8 48	1 39	30 12	7 47	18 53	18 59	19 27		n.a.
M14	17 26	25 43	2 22	7 29	2 47	25 7	1 45	20 23	0 35	20 45	0 15	14 2	2 12	23 8	0 10	8 48	1 39	30 12	7 47	18 53	18 58	19 25		n.a.
T 15	17 42	27 2	3 21	8 7	2 39	25 13	1 46	20 32	0 36	20 48	0 15	14 1	2 12	23 8	0 10	8 48	1 39	30 13	7 47	18 53	18 57	19 23		n.a.
W16	17 57	26 57	4 9	8 45	2 31	25 19	1 47	20 42	0 36	20 51	0 15	14 0	2 11	23 8	0 10	8 48	1 39	30 13	7 48	18 53	18 56	19 21		n.a.
T 17	18 13	25 35	4 44	9 25	2 23	25 24	1 49	20 51	0 37	20 53	0 15	13 58	2 11	23 8	0 10	8 48	1 39	30 13	7 48	18 53	18 56	19 19		n.a.
F 18	18 28	23 3	5 7	10 6	2 13	25 28	1 50	21 0	0 37	20 56	0 15	13 57	2 11	23 7	0 10	8 48	1 39	30 14	7 48	18 53	18 55	19 16		n.a.
S 19	18 43	19 34	5 16	10 48	2 4	25 31	1 51	21 9	0 38	20 59	0 15	13 56	2 11	23 7	0 10	8 48	1 39	30 14	7 48	18 53	18 54	19 14		n.a.
S 20	18 57	15 19	5 12	11 30	1 54	25 34	1 52	21 17	0 38	21 1	0 15	13 55	2 11	23 7	0 10	8 49	1 39	30 14	7 49	18 53	18 53	19 12		n.a.
M21	19 11	10 28	4 55	12 14	1 44	25 36	1 53	21 26	0 39	21 4	0 15	13 54	2 11	23 7	0 10	8 49	1 39	30 15	7 49	18 53	18 52	19 10		n.a.
T 22	19 25	5 9	4 24	12 58	1 33	25 37	1 54	21 34	0 39	21 6	0 14	13 52	2 11	23 7	0 10	8 49	1 39	30 15	7 49	18 53	18 52	19 8		n.a.
W23	19 39	0n26	3 41	13 42	1 22	25 38	1 55	21 43	0 39	21 9	0 14	13 51	2 11	23 6	0 10	8 49	1 39	30 15	7 49	18 53	18 51	19 5		n.a.
T 24	19 52	6 8	2 46	14 27	1 11	25 37	1 55	21 51	0 40	21 12	0 14	13 50	2 11	23 6	0 10	8 49	1 39	30 16	7 49	18 53	18 50	19 3		n.a.
F 25	20 5	11 44	1 41	15 12	1 0	25 36	1 56	21 58	0 40	21 14	0 14	13 49	2 11	23 6	0 10	8 49	1 39	30 16	7 50	18 54	18 49	19 1		n.a.
S 26	20 18	16 57	0 30	15 57	0 49	25 35	1 57	22 6	0 41	21 17	0 14	13 48	2 10	23 6	0 10	8 49	1 39	30 16	7 50	18 54	18 48	18 59		n.a.
S 27	20 30	21 27	0n44	16 41	0 37	25 32	1 57	22 14	0 41	21 19	0 14	13 47	2 10	23 5	0 10	8 49	1 38	30 17	7 50	18 54	18 48	18 56		n.a.
M28	20 42	24 52	1 58	17 26	0 26	25 29	1 57	22 21	0 42	21 22	0 14	13 46	2 10	23 5	0 10	8 49	1 38	30 17	7 50	18 53	18 47	18 54		n.a.
T 29	20 53	26 49	3 5	18 9	0 15	25 25	1 58	22 28	0 42	21 24	0 14	13 44	2 10	23 5	0 10	8 48	1 38	30 18	7 51	18 53	18 46	18 52		n.a.
W30	21 4	27 2	4 3	18 52	0 3	25 20	1 58	22 35	0 43	21 27	0 14	13 43	2 10	23 5	0 10	8 48	1 38	30 18	7 51	18 53	18 45	18 49		n.a.
T 31	21n15	25n28	4n45	19n33	0n 8	25n15	1n58	22n42	0n43	21n29	0s14	13s42	2n10	23s 4	0s10	8n48	1n38	30s18	7s51	18n53	18n44	18s47		n.a.

Julian Day Number = 1650684.5, Delta T = 03h31m11s
Ecliptic obliquity = 23°43'13, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°44'32, Lahiri = - 6°37'32 Julian Calendar 1 May 194 BCE == Greg. Calendar 28 Apr. 194 BCE

The year -193 astronomical counting style corresponds to year 194 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 194 BCE
geocentric

JUNE 194 BCE (-193) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 21 3	5♊16'08	12♌17	27♉54	11♋47	9♊12	7♊ 3	12°R25	15°R21	11♍36	17°R44	23°R32	22♉56	23♒19	n.a.	F 1
S 2	16 25 0	6°13'15	26°36	0♊ 2	12°58	9°52	7°17	12♏21	15♐19	11°36	17♑43	23♉31	22°53	23°26	n.a.	S 2
S 3	16 28 56	7°10'21	10♍50	2°11	14° 8	10°31	7°31	12°17	15°17	11°37	17°42	23°D31	22°50	23°33	n.a.	S 3
M 4	16 32 53	8° 7'28	24°57	4°21	15°18	11°10	7°44	12°14	15°14	11°37	17°41	23°31	22°47	23°40	n.a.	M 4
T 5	16 36 50	9° 4'34	8♎55	6°31	16°28	11°49	7°58	12°10	15°12	11°37	17°40	23°32	22°44	23°46	n.a.	T 5
W 6	16 40 46	10° 1'40	22°42	8°41	17°38	12°28	8°11	12° 6	15° 9	11°37	17°39	23°33	22°41	23°53	n.a.	W 6
T 7	16 44 43	10°58'46	6♏17	10°51	18°48	13° 7	8°25	12° 3	15° 7	11°38	17°38	23°35	22°37	24° 0	n.a.	T 7
F 8	16 48 39	11°55'52	19°41	13° 1	19°58	13°46	8°38	11°59	15° 5	11°38	17°37	23°R35	22°34	24° 6	n.a.	F 8
S 9	16 52 36	12°52'59	2♐50	15° 9	21° 8	14°25	8°52	11°56	15° 2	11°38	17°36	23°35	22°31	24°13	n.a.	S 9
S 10	16 56 32	13°50'05	15°46	17°17	22°17	15° 4	9° 5	11°52	15° 0	11°39	17°35	23°34	22°28	24°20	n.a.	S 10
M11	17 0 29	14°47'12	28°29	19°24	23°27	15°43	9°19	11°49	14°57	11°39	17°34	23°32	22°25	24°27	n.a.	M11
T 12	17 4 25	15°44'19	10♑58	21°30	24°37	16°22	9°33	11°46	14°55	11°40	17°33	23°29	22°22	24°33	n.a.	T 12
W13	17 8 22	16°41'27	23°14	23°34	25°46	17° 1	9°46	11°43	14°53	11°40	17°32	23°25	22°18	24°40	n.a.	W13
T 14	17 12 19	17°38'35	5♒20	25°37	26°55	17°39	10° 0	11°39	14°50	11°41	17°31	23°21	22°15	24°47	n.a.	T 14
F 15	17 16 15	18°35'44	17°18	27°38	28° 4	18°18	10°13	11°36	14°48	11°41	17°30	23°18	22°12	24°54	n.a.	F 15
S 16	17 20 12	19°32'54	29°12	29°37	29°14	18°57	10°26	11°33	14°45	11°42	17°29	23°15	22° 9	25° 0	n.a.	S 16
S 17	17 24 8	20°30'04	11♓ 5	1♋35	0♌23	19°36	10°40	11°30	14°43	11°43	17°27	23°14	22° 6	25° 7	n.a.	S 17
M18	17 28 5	21°27'15	23° 2	3°31	1°32	20°15	10°53	11°27	14°40	11°43	17°26	23°D13	22° 2	25°14	n.a.	M18
T 19	17 32 1	22°24'27	5♈ 8	5°26	2°41	20°53	11° 7	11°25	14°38	11°44	17°25	23°14	21°59	25°20	n.a.	T 19
W20	17 35 58	23°21'39	17°27	7°19	3°49	21°32	11°20	11°22	14°36	11°45	17°24	23°15	21°56	25°27	n.a.	W20
T 21	17 39 54	24°18'53	0♉ 3	9° 9	4°58	22°11	11°34	11°19	14°33	11°45	17°23	23°17	21°53	25°34	n.a.	T 21
F 22	17 43 51	25°16'07	13° 0	10°59	6° 7	22°50	11°47	11°17	14°31	11°46	17°21	23°18	21°50	25°41	n.a.	F 22
S 23	17 47 48	26°13'23	26°21	12°46	7°15	23°28	12° 0	11°14	14°29	11°47	17°20	23°R19	21°47	25°47	n.a.	S 23
S 24	17 51 44	27°10'39	10♊ 7	14°32	8°23	24° 7	12°14	11°12	14°26	11°48	17°19	23°17	21°43	25°54	n.a.	S 24
M25	17 55 41	28° 7'56	24°15	16°15	9°32	24°46	12°27	11° 9	14°24	11°49	17°18	23°15	21°40	26° 1	n.a.	M25
T 26	17 59 37	29° 5'14	8♋41	17°57	10°40	25°24	12°40	11° 7	14°22	11°50	17°16	23°11	21°37	26° 8	n.a.	T 26
W27	18 3 34	0♌ 2'33	23°20	19°38	11°48	26° 3	12°53	11° 5	14°19	11°51	17°15	23° 6	21°34	26°14	n.a.	W27
T 28	18 7 30	0°59'53	8♌ 5	21°16	12°56	26°42	13° 7	11° 3	14°17	11°52	17°14	23° 0	21°31	26°21	n.a.	T 28
F 29	18 11 27	1°57'13	22°48	22°53	14° 3	27°20	13°20	11° 1	14°15	11°53	17°13	22°55	21°28	26°28	n.a.	F 29
S 30	18 15 24	2♌54'34	7♍22	24♋28	15♌11	27♊59	13♊33	10♏59	14♐12	11♍54	17♑11	22♉51	21♉24	26♒34	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n26	22n16	5n10	20n13	0n18	25n 9	1n58	22n48	0n43	21n31	0s13	13s41	2n10	23s 4	0s10	8n48	1n38	30s19	7s51	18n52	18n43	18s45		n.a.
S 2	21 36	17 43	5 15	20 52	0 29	25 2	1 58	22 55	0 44	21 34	0 13	13 40	2 9	23 4	0 10	8 48	1 38	30 19	7 51	18 52	18 43	18 43		n.a.
S 3	21 46	12 14	5 2	21 28	0 39	24 55	1 58	23 1	0 44	21 36	0 13	13 39	2 9	23 4	0 10	8 48	1 38	30 19	7 52	18 52	18 42	18 40		n.a.
M 4	21 55	6 9	4 30	22 3	0 48	24 47	1 58	23 7	0 45	21 38	0 13	13 38	2 9	23 3	0 10	8 48	1 38	30 20	7 52	18 52	18 41	18 38		n.a.
T 5	22 4	0s11	3 42	22 35	0 57	24 38	1 57	23 13	0 45	21 41	0 13	13 37	2 9	23 3	0 10	8 48	1 38	30 20	7 52	18 53	18 40	18 36		n.a.
W 6	22 13	6 25	2 42	23 5	1 5	24 28	1 57	23 19	0 46	21 43	0 13	13 36	2 9	23 3	0 10	8 48	1 38	30 20	7 52	18 53	18 39	18 33		n.a.
T 7	22 21	12 18	1 34	23 33	1 13	24 18	1 56	23 24	0 46	21 45	0 13	13 35	2 9	23 3	0 10	8 47	1 38	30 21	7 52	18 53	18 39	18 31		n.a.
F 8	22 29	17 31	0 22	23 57	1 20	24 7	1 56	23 29	0 46	21 48	0 13	13 34	2 9	23 2	0 10	8 47	1 38	30 21	7 53	18 53	18 38	18 29		n.a.
S 9	22 37	21 48	0s51	24 19	1 27	23 56	1 55	23 34	0 47	21 50	0 13	13 34	2 8	23 2	0 10	8 47	1 38	30 21	7 53	18 53	18 37	18 26		n.a.
S 10	22 44	24 55	1 59	24 38	1 32	23 44	1 54	23 39	0 47	21 52	0 13	13 33	2 8	23 2	0 10	8 47	1 38	30 22	7 53	18 53	18 36	18 24		n.a.
M11	22 50	26 43	3 0	24 55	1 37	23 31	1 53	23 44	0 48	21 54	0 12	13 32	2 8	23 2	0 10	8 47	1 38	30 22	7 53	18 52	18 35	18 22		n.a.
T 12	22 57	27 6	3 52	25 8	1 42	23 18	1 52	23 49	0 48	21 56	0 12	13 31	2 8	23 1	0 10	8 46	1 38	30 22	7 53	18 52	18 34	18 19		n.a.
W13	23 3	26 9	4 31	25 19	1 45	23 4	1 51	23 53	0 48	21 58	0 12	13 30	2 8	23 1	0 10	8 46	1 38	30 23	7 54	18 51	18 34	18 17		n.a.
T 14	23 8	23 58	4 58	25 27	1 48	22 49	1 50	23 57	0 49	22 1	0 12	13 29	2 7	23 1	0 10	8 46	1 38	30 23	7 54	18 50	18 33	18 15		n.a.
F 15	23 13	20 46	5 12	25 32	1 50	22 34	1 49	24 1	0 49	22 3	0 12	13 29	2 7	23 1	0 10	8 46	1 38	30 23	7 54	18 49	18 32	18 12		n.a.
S 16	23 18	16 44	5 12	25 35	1 52	22 18	1 47	24 5	0 50	22 5	0 12	13 28	2 7	23 0	0 10	8 45	1 38	30 24	7 54	18 48	18 31	18 10		n.a.
S 17	23 23	12 5	4 58	25 35	1 53	22 2	1 46	24 8	0 50	22 7	0 12	13 27	2 7	23 0	0 10	8 45	1 37	30 24	7 54	18 48	18 30	18 8		n.a.
M18	23 26	6 57	4 32	25 33	1 53	21 45	1 44	24 12	0 50	22 9	0 12	13 26	2 7	23 0	0 10	8 45	1 37	30 24	7 54	18 48	18 30	18 5		n.a.
T 19	23 30	1 30	3 53	25 29	1 52	21 27	1 43	24 15	0 51	22 11	0 12	13 26	2 6	22 59	0 10	8 44	1 37	30 25	7 55	18 48	18 29	18 3		n.a.
W20	23 33	4n 6	3 4	25 22	1 51	21 9	1 41	24 18	0 51	22 13	0 12	13 25	2 6	22 59	0 10	8 44	1 37	30 25	7 55	18 48	18 28	18 1		n.a.
T 21	23 36	9 42	2 4	25 13	1 50	20 51	1 39	24 21	0 52	22 15	0 11	13 24	2 6	22 59	0 10	8 44	1 37	30 25	7 55	18 49	18 27	17 58		n.a.
F 22	23 38	15 2	0 56	25 3	1 47	20 32	1 37	24 23	0 52	22 17	0 11	13 24	2 6	22 59	0 10	8 43	1 37	30 26	7 55	18 49	18 26	17 56		n.a.
S 23	23 40	19 50	0n17	24 50	1 45	20 12	1 35	24 26	0 52	22 19	0 11	13 23	2 6	22 58	0 10	8 43	1 37	30 26	7 55	18 49	18 25	17 53		n.a.
S 24	23 41	23 43	1 30	24 36	1 41	19 52	1 32	24 28	0 53	22 20	0 11	13 23	2 5	22 58	0 10	8 43	1 37	30 26	7 55	18 49	18 25	17 51		n.a.
M25	23 42	26 16	2 40	24 20	1 38	19 31	1 30	24 30	0 53	22 22	0 11	13 22	2 5	22 58	0 10	8 42	1 37	30 26	7 56	18 48	18 24	17 49		n.a.
T 26	23 43	27 7	3 42	24 2	1 33	19 10	1 28	24 32	0 53	22 24	0 11	13 22	2 5	22 58	0 10	8 42	1 37	30 27	7 56	18 47	18 23	17 46		n.a.
W27	23 43	26 6	4 29	23 43	1 28	18 49	1 25	24 33	0 54	22 26	0 11	13 21	2 5	22 57	0 10	8 42	1 37	30 27	7 56	18 46	18 22	17 44		n.a.
T 28	23 43	23 16	4 59	23 23	1 23	18 27	1 23	24 35	0 54	22 28	0 11	13 21	2 5	22 57	0 10	8 41	1 37	30 27	7 56	18 44	18 21	17 41		n.a.
F 29	23 42	18 57	5 10	23 2	1 18	18 4	1 20	24 36	0 55	22 29	0 11	13 20	2 4	22 57	0 10	8 41	1 37	30 28	7 56	18 43	18 20	17 39		n.a.
S 30	23n41	13n32	5n 0	22n39	1n11	17n42	1n17	24n37	0n55	22n31	0s11	13s20	2n 4	22s57	0s10	8n40	1n37	30s28	7s56	18n42	18n20	17s36		n.a.

Julian Day Number = 1650715.5, Delta T = 03h31m10s
Ecliptic obliquity = 23°43'12, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°44'28, Lahiri = - 6°37'28 Julian Calendar 1 June 194 BCE == Greg. Calendar 29 May 194 BCE

The year -193 astronomical counting style corresponds to year 194 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 194 BCE
geocentric

JULY 194 BCE (-193) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 19 20	3♋51'55	21♍43	26♋ 2	16♌19	28♊37	13♊46	10°R57	14°R10	11♍55	17°R10	22°R49	21♉21	26♒41	n.a.	S 1
M 2	18 23 17	4°49'17	5♎47	27°33	17°26	29°16	13°59	10♏56	14♐ 8	11°56	17♑ 9	22°D48	21°18	26°48	n.a.	M 2
T 3	18 27 13	5°46'40	19°35	29° 3	18°33	29°54	14°12	10°54	14° 6	11°57	17° 7	22♉49	21°15	26°55	n.a.	T 3
W 4	18 31 10	6°44'03	3♏ 5	0♌31	19°41	0♋33	14°25	10°52	14° 4	11°58	17° 6	22°50	21°12	27° 1	n.a.	W 4
T 5	18 35 6	7°41'27	16°20	1°57	20°47	1°11	14°38	10°51	14° 1	11°59	17° 5	22°R51	21° 8	27° 8	n.a.	T 5
F 6	18 39 3	8°38'53	29°21	3°21	21°54	1°50	14°51	10°50	13°59	12° 0	17° 3	22°51	21° 5	27°15	n.a.	F 6
S 7	18 42 59	9°36'19	12♐10	4°44	23° 1	2°28	15° 4	10°48	13°57	12° 2	17° 2	22°49	21° 2	27°22	n.a.	S 7
S 8	18 46 56	10°33'46	24°47	6° 4	24° 8	3° 7	15°17	10°47	13°55	12° 3	17° 1	22°46	20°59	27°28	n.a.	S 8
M 9	18 50 53	11°31'14	7♑13	7°23	25°14	3°45	15°30	10°46	13°53	12° 4	16°59	22°39	20°56	27°35	n.a.	M 9
T 10	18 54 49	12°28'44	19°31	8°40	26°20	4°23	15°43	10°45	13°51	12° 6	16°58	22°31	20°53	27°42	n.a.	T 10
W11	18 58 46	13°26'15	1♒39	9°54	27°26	5° 2	15°55	10°44	13°49	12° 7	16°57	22°22	20°49	27°48	n.a.	W11
T 12	19 2 42	14°23'47	13°40	11° 7	28°32	5°40	16° 8	10°43	13°47	12° 8	16°55	22°13	20°46	27°55	n.a.	T 12
F 13	19 6 39	15°21'20	25°36	12°17	29°38	6°19	16°21	10°43	13°45	12°10	16°54	22° 4	20°43	28° 2	n.a.	F 13
S 14	19 10 35	16°18'55	7♓28	13°25	0♍43	6°57	16°33	10°42	13°43	12°11	16°53	21°56	20°40	28° 9	n.a.	S 14
S 15	19 14 32	17°16'31	19°19	14°31	1°49	7°35	16°46	10°41	13°41	12°12	16°51	21°50	20°37	28°15	n.a.	S 15
M16	19 18 28	18°14'09	1♈14	15°34	2°54	8°14	16°58	10°41	13°39	12°14	16°50	21°46	20°34	28°22	n.a.	M16
T 17	19 22 25	19°11'49	13°17	16°35	3°59	8°52	17°11	10°41	13°37	12°15	16°48	21°44	20°30	28°29	n.a.	T 17
W18	19 26 22	20° 9'30	25°33	17°33	5° 3	9°30	17°23	10°40	13°36	12°17	16°47	21°D44	20°27	28°35	n.a.	W18
T 19	19 30 18	21° 7'14	8♉ 7	18°28	6° 8	10° 8	17°35	10°40	13°34	12°18	16°46	21°45	20°24	28°42	n.a.	T 19
F 20	19 34 15	22° 4'59	21° 2	19°20	7°12	10°47	17°48	10°D40	13°32	12°20	16°44	21°R45	20°21	28°49	n.a.	F 20
S 21	19 38 11	23° 2'45	4♊24	20° 9	8°17	11°25	18° 0	10°40	13°31	12°22	16°43	21°45	20°18	28°56	n.a.	S 21
S 22	19 42 8	24° 0'34	18°15	20°55	9°21	12° 3	18°12	10°40	13°29	12°23	16°42	21°42	20°14	29° 2	n.a.	S 22
M23	19 46 4	24°58'24	2♋32	21°37	10°24	12°41	18°24	10°41	13°27	12°25	16°40	21°37	20°11	29° 9	n.a.	M23
T 24	19 50 1	25°56'16	17°15	22°16	11°28	13°20	18°36	10°41	13°26	12°26	16°39	21°30	20° 8	29°16	n.a.	T 24
W25	19 53 57	26°54'10	2♌14	22°50	12°31	13°58	18°48	10°41	13°24	12°28	16°38	21°20	20° 5	29°23	n.a.	W25
T 26	19 57 54	27°52'05	17°22	23°21	13°34	14°36	19° 0	10°42	13°23	12°30	16°36	21°11	20° 2	29°29	n.a.	T 26
F 27	20 1 51	28°50'02	2♍27	23°47	14°37	15°14	19°12	10°43	13°21	12°32	16°35	21° 1	19°59	29°36	n.a.	F 27
S 28	20 5 47	29°48'00	17°21	24° 8	15°39	15°53	19°24	10°43	13°20	12°33	16°34	20°54	19°55	29°43	n.a.	S 28
S 29	20 9 44	0♌45'59	1♎56	24°24	16°42	16°31	19°35	10°44	13°18	12°35	16°32	20°49	19°52	29°49	n.a.	S 29
M30	20 13 40	1°44'00	16° 8	24°35	17°44	17° 9	19°47	10°45	13°17	12°37	16°31	20°46	19°49	29°56	n.a.	M30
T 31	20 17 37	2♌42'02	29♎55	24°R41	18♍45	17♋47	19♊59	10♏46	13♐16	12♍39	16♑30	20°D45	19♉46	0♓ 3	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n40	7n28	4n31	22n15	1n 5	17n18	1n14	24n38	0n55	22n33	0s10	13s20	2n 4	22s56	0s10	8n40	1n37	30s28	7s56	18n42	18n19	17s34		n.a.
M 2	23 38	1 9	3 47	21 51	0 58	16 55	1 11	24 39	0 56	22 34	0 10	13 19	2 4	22 56	0 10	8 39	1 37	30 29	7 56	18 41	18 18	17 32		n.a.
T 3	23 36	5s 7	2 50	21 25	0 51	16 31	1 8	24 39	0 56	22 36	0 10	13 19	2 3	22 56	0 10	8 39	1 37	30 29	7 57	18 42	18 17	17 29		n.a.
W 4	23 33	11 3	1 45	20 59	0 43	16 7	1 5	24 39	0 56	22 38	0 10	13 19	2 3	22 55	0 10	8 38	1 37	30 29	7 57	18 42	18 16	17 27		n.a.
T 5	23 30	16 21	0 35	20 32	0 35	15 42	1 1	24 40	0 57	22 39	0 10	13 19	2 3	22 55	0 10	8 38	1 37	30 29	7 57	18 42	18 15	17 24		n.a.
F 6	23 26	20 49	0s35	20 4	0 27	15 17	0 58	24 39	0 57	22 41	0 10	13 18	2 3	22 55	0 10	8 37	1 37	30 30	7 57	18 42	18 14	17 22		n.a.
S 7	23 22	24 12	1 42	19 36	0 19	14 51	0 54	24 39	0 57	22 43	0 10	13 18	2 2	22 55	0 10	8 37	1 37	30 30	7 57	18 42	18 14	17 19		n.a.
S 8	23 18	26 20	2 43	19 8	0 10	14 26	0 50	24 39	0 58	22 44	0 10	13 18	2 2	22 54	0 10	8 36	1 37	30 30	7 57	18 41	18 13	17 17		n.a.
M 9	23 13	27 6	3 35	18 39	0 1	14 0	0 47	24 38	0 58	22 46	0 10	13 18	2 2	22 54	0 10	8 36	1 37	30 31	7 57	18 39	18 12	17 14		n.a.
T 10	23 8	26 31	4 17	18 10	0s 9	13 33	0 43	24 37	0 58	22 47	0 10	13 18	2 2	22 54	0 10	8 35	1 36	30 31	7 57	18 37	18 11	17 12		n.a.
W11	23 2	24 40	4 46	17 41	0 18	13 7	0 39	24 36	0 59	22 48	0 10	13 18	2 2	22 54	0 10	8 35	1 36	30 31	7 57	18 35	18 10	17 9		n.a.
T 12	22 56	21 44	5 2	17 12	0 28	12 40	0 35	24 35	0 59	22 50	0 9	13 18	2 1	22 54	0 10	8 34	1 36	30 31	7 57	18 32	18 9	17 7		n.a.
F 13	22 49	17 54	5 5	16 43	0 38	12 13	0 31	24 33	0 59	22 51	0 9	13 18	2 1	22 53	0 10	8 34	1 36	30 32	7 57	18 30	18 9	17 4		n.a.
S 14	22 43	13 25	4 54	16 13	0 48	11 45	0 26	24 32	1 0	22 53	0 9	13 18	2 1	22 53	0 10	8 33	1 36	30 32	7 58	18 28	18 8	17 2		n.a.
S 15	22 35	8 25	4 31	15 44	0 58	11 18	0 22	24 30	1 0	22 54	0 9	13 18	2 1	22 53	0 10	8 32	1 36	30 32	7 58	18 26	18 7	16 59		n.a.
M16	22 28	3 6	3 56	15 16	1 9	10 50	0 18	24 28	1 0	22 55	0 9	13 18	2 0	22 53	0 10	8 32	1 36	30 32	7 58	18 25	18 6	16 57		n.a.
T 17	22 20	2n23	3 11	14 47	1 20	10 22	0 13	24 26	1 1	22 57	0 9	13 18	2 0	22 52	0 10	8 31	1 36	30 33	7 58	18 25	18 5	16 54		n.a.
W18	22 11	7 54	2 15	14 19	1 30	9 54	0 8	24 23	1 1	22 58	0 9	13 18	2 0	22 52	0 10	8 31	1 36	30 33	7 58	18 25	18 4	16 52		n.a.
T 19	22 2	13 14	1 12	13 52	1 41	9 25	0 4	24 21	1 1	22 59	0 9	13 18	2 0	22 52	0 10	8 30	1 36	30 33	7 58	18 25	18 3	16 49		n.a.
F 20	21 53	18 10	0 4	13 26	1 52	8 57	0s 1	24 18	1 2	23 0	0 9	13 19	1 59	22 52	0 10	8 29	1 36	30 33	7 58	18 25	18 3	16 47		n.a.
S 21	21 44	22 22	1n 7	13 0	2 3	8 28	0 6	24 15	1 2	23 2	0 9	13 19	1 59	22 52	0 10	8 29	1 36	30 34	7 58	18 25	18 2	16 44		n.a.
S 22	21 34	25 27	2 16	12 35	2 14	7 59	0 11	24 12	1 2	23 3	0 9	13 19	1 59	22 51	0 10	8 28	1 36	30 34	7 58	18 24	18 1	16 42		n.a.
M23	21 23	27 1	3 19	12 11	2 25	7 30	0 16	24 9	1 3	23 4	0 8	13 19	1 59	22 51	0 10	8 27	1 36	30 34	7 58	18 23	18 0	16 39		n.a.
T 24	21 12	26 44	4 11	11 48	2 36	7 1	0 21	24 5	1 3	23 5	0 8	13 20	1 58	22 51	0 10	8 27	1 36	30 34	7 58	18 21	17 59	16 37		n.a.
W25	21 1	24 32	4 46	11 27	2 46	6 32	0 27	24 2	1 3	23 6	0 8	13 20	1 58	22 51	0 10	8 26	1 36	30 34	7 58	18 18	17 58	16 34		n.a.
T 26	20 50	20 35	5 2	11 7	2 57	6 3	0 32	23 58	1 4	23 7	0 8	13 21	1 58	22 51	0 10	8 25	1 36	30 35	7 58	18 16	17 57	16 32		n.a.
F 27	20 38	15 19	4 56	10 49	3 7	5 33	0 37	23 54	1 4	23 8	0 8	13 21	1 58	22 50	0 10	8 25	1 36	30 35	7 58	18 13	17 57	16 29		n.a.
S 28	20 26	9 12	4 31	10 32	3 17	5 4	0 43	23 50	1 4	23 10	0 8	13 21	1 57	22 50	0 10	8 24	1 36	30 35	7 58	18 11	17 56	16 26		n.a.
S 29	20 13	2 43	3 48	10 18	3 27	4 34	0 49	23 45	1 4	23 11	0 8	13 22	1 57	22 50	0 10	8 23	1 36	30 35	7 58	18 10	17 55	16 24		n.a.
M30	20 0	3s46	2 53	10 5	3 36	4 5	0 54	23 41	1 5	23 12	0 8	13 22	1 57	22 50	0 10	8 23	1 36	30 35	7 58	18 9	17 54	16 21		n.a.
T 31	19n47	9s53	1n48	9n55	3s45	3n35	1s 0	23n36	1n 5	23n13	0s 8	13s23	1n57	22s50	0s10	8n22	1n36	30s36	7s58	18n 9	17n53	16s19		n.a.

Julian Day Number = 1650745.5, Delta T = 03h31m09s
Ecliptic obliquity = 23°43'12, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°44'24, Lahiri = - 6°37'23 Julian Calendar 1 July 194 BCE == Greg. Calendar 28 June 194 BCE

The year -193 astronomical counting style corresponds to year 194 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 194 BCE
geocentric

AUGUST 194 BCE (-193) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 21 33	3♌40'06	13♏20	24°R41	19♍47	18♋25	20♊10	10♏47	13°R14	12♍40	16°R29	20♉45	19♉43	0♓10	n.a.	W 1
T 2	20 25 30	4°38'11	26°24	24♌35	20°48	19° 3	20°22	10°48	13♐13	12°42	16♑27	20°R45	19°40	0°16	n.a.	T 2
F 3	20 29 26	5°36'18	9♐11	24°23	21°49	19°41	20°33	10°50	13°12	12°44	16°26	20°44	19°36	0°23	n.a.	F 3
S 4	20 33 23	6°34'27	21°44	24° 4	22°49	20°20	20°44	10°51	13°11	12°46	16°25	20°40	19°33	0°30	n.a.	S 4
S 5	20 37 20	7°32'37	4♑ 6	23°39	23°49	20°58	20°55	10°52	13°10	12°48	16°24	20°34	19°30	0°37	n.a.	S 5
M 6	20 41 16	8°30'49	16°19	23° 8	24°49	21°36	21° 6	10°54	13° 9	12°50	16°22	20°25	19°27	0°43	n.a.	M 6
T 7	20 45 13	9°29'02	28°25	22°31	25°48	22°14	21°17	10°56	13° 8	12°52	16°21	20°13	19°24	0°50	n.a.	T 7
W 8	20 49 9	10°27'18	10♒26	21°48	26°47	22°52	21°28	10°57	13° 7	12°54	16°20	20° 0	19°20	0°57	n.a.	W 8
T 9	20 53 6	11°25'35	22°22	21° 0	27°46	23°30	21°39	10°59	13° 6	12°56	16°19	19°46	19°17	1° 3	n.a.	T 9
F 10	20 57 2	12°23'54	4♓15	20° 7	28°44	24° 8	21°50	11° 1	13° 5	12°58	16°18	19°32	19°14	1°10	n.a.	F 10
S 11	21 0 59	13°22'15	16° 6	19°10	29°42	24°46	22° 1	11° 3	13° 4	13° 0	16°16	19°20	19°11	1°17	n.a.	S 11
S 12	21 4 55	14°20'38	27°58	18°11	0♎39	25°24	22°11	11° 5	13° 3	13° 2	16°15	19°11	19° 8	1°24	n.a.	S 12
M13	21 8 52	15°19'04	9♈53	17°10	1°36	26° 2	22°22	11° 8	13° 3	13° 4	16°14	19° 4	19° 5	1°30	n.a.	M13
T 14	21 12 49	16°17'31	21°56	16° 9	2°33	26°40	22°32	11°10	13° 2	13° 6	16°13	19° 0	19° 1	1°37	n.a.	T 14
W15	21 16 45	17°16'01	4♉ 9	15° 8	3°29	27°18	22°42	11°12	13° 1	13° 8	16°12	18°59	18°58	1°44	n.a.	W15
T 16	21 20 42	18°14'33	16°39	14°11	4°25	27°56	22°53	11°15	13° 1	13°10	16°11	18°58	18°55	1°50	n.a.	T 16
F 17	21 24 38	19°13'08	29°30	13°17	5°20	28°34	23° 3	11°18	13° 0	13°12	16°10	18°58	18°52	1°57	n.a.	F 17
S 18	21 28 35	20°11'45	12♊46	12°29	6°14	29°12	23°13	11°20	13° 0	13°14	16° 8	18°57	18°49	2° 4	n.a.	S 18
S 19	21 32 31	21°10'24	26°31	11°47	7° 8	29°50	23°23	11°23	12°59	13°16	16° 7	18°54	18°45	2°11	n.a.	S 19
M20	21 36 28	22° 9'05	10♋46	11°13	8° 2	0♌28	23°32	11°26	12°59	13°18	16° 6	18°48	18°42	2°17	n.a.	M20
T 21	21 40 24	23° 7'49	25°29	10°48	8°55	1° 6	23°42	11°29	12°59	13°20	16° 5	18°40	18°39	2°24	n.a.	T 21
W22	21 44 21	24° 6'35	10♌34	10°32	9°47	1°44	23°52	11°32	12°58	13°22	16° 4	18°30	18°36	2°31	n.a.	W22
T 23	21 48 18	25° 5'23	25°52	10°D25	10°39	2°22	24° 1	11°35	12°58	13°25	16° 3	18°19	18°33	2°37	n.a.	T 23
F 24	21 52 14	26° 4'13	11♍11	10°28	11°30	3° 0	24°11	11°38	12°58	13°27	16° 2	18° 8	18°30	2°44	n.a.	F 24
S 25	21 56 11	27° 3'05	26°20	10°41	12°20	3°38	24°20	11°41	12°58	13°29	16° 1	17°59	18°26	2°51	n.a.	S 25
S 26	22 0 7	28° 1'59	11♎10	11° 4	13°10	4°16	24°29	11°45	12°58	13°31	16° 0	17°52	18°23	2°58	n.a.	S 26
M27	22 4 4	29° 0'55	25°34	11°37	13°59	4°54	24°38	11°48	12°D58	13°33	16° 0	17°49	18°20	3° 4	n.a.	M27
T 28	22 8 0	29°59'53	9♏30	12°18	14°47	5°32	24°47	11°52	12°58	13°35	15°59	17°47	18°17	3°11	n.a.	T 28
W29	22 11 57	0♍58'52	22°58	13° 8	15°34	6°10	24°56	11°55	12°58	13°38	15°58	17°D47	18°14	3°18	n.a.	W29
T 30	22 15 53	1°57'54	6♐ 2	14° 5	16°21	6°48	25° 4	11°59	12°58	13°40	15°57	17°R47	18°11	3°25	n.a.	T 30
F 31	22 19 50	2♍56'57	18♐45	15♌10	17♎ 7	7♌25	25♊13	12♏ 3	12♐58	13♍42	15♑56	17♉46	18♉ 7	3♓31	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	19n34	15s24	0n39	9n48	3s53	3n 5	1s 6	23n31	1n 5	23n14	0s 8	13s24	1n56	22s50	0s10	8n21	1n36	30s36	7s58	18n 9	17n52	16s16		n.a.
T 2	19 20	20 4	0s30	9 43	4 0	2 36	1 12	23 26	1 6	23 14	0 7	13 24	1 56	22 49	0 10	8 20	1 36	30 36	7 58	18 9	17 51	16 14		n.a.
F 3	19 5	23 40	1 36	9 41	4 6	2 6	1 18	23 21	1 6	23 15	0 7	13 25	1 56	22 49	0 10	8 20	1 36	30 36	7 58	18 9	17 50	16 11		n.a.
S 4	18 51	26 3	2 36	9 42	4 12	1 36	1 24	23 15	1 6	23 16	0 7	13 26	1 56	22 49	0 10	8 19	1 36	30 36	7 58	18 8	17 50	16 8		n.a.
S 5	18 36	27 7	3 28	9 46	4 16	1 7	1 30	23 10	1 6	23 17	0 7	13 26	1 55	22 49	0 10	8 18	1 36	30 36	7 58	18 6	17 49	16 6		n.a.
M 6	18 21	26 50	4 9	9 54	4 19	0 37	1 36	23 4	1 7	23 18	0 7	13 27	1 55	22 49	0 10	8 17	1 36	30 36	7 58	18 4	17 48	16 3		n.a.
T 7	18 5	25 16	4 39	10 5	4 20	0 7	1 42	22 58	1 7	23 19	0 7	13 28	1 55	22 49	0 10	8 17	1 36	30 37	7 58	18 0	17 47	16 1		n.a.
W 8	17 49	22 34	4 55	10 19	4 19	0s22	1 49	22 52	1 7	23 20	0 7	13 28	1 55	22 49	0 10	8 16	1 36	30 37	7 58	17 57	17 46	15 58		n.a.
T 9	17 33	18 55	4 59	10 36	4 17	0 51	1 55	22 45	1 8	23 20	0 7	13 29	1 54	22 49	0 10	8 15	1 36	30 37	7 58	17 53	17 45	15 55		n.a.
F 10	17 17	14 33	4 50	10 57	4 13	1 21	2 1	22 39	1 8	23 21	0 7	13 30	1 54	22 48	0 10	8 14	1 36	30 37	7 58	17 49	17 44	15 53		n.a.
S 11	17 0	9 39	4 28	11 20	4 7	1 50	2 8	22 32	1 8	23 22	0 7	13 31	1 54	22 48	0 10	8 13	1 36	30 37	7 58	17 46	17 43	15 50		n.a.
S 12	16 43	4 24	3 55	11 46	3 59	2 19	2 14	22 26	1 8	23 23	0 7	13 32	1 54	22 48	0 10	8 13	1 36	30 37	7 58	17 43	17 43	15 47		n.a.
M13	16 26	1n 3	3 11	12 14	3 49	2 48	2 21	22 19	1 9	23 23	0 6	13 33	1 53	22 48	0 10	8 12	1 36	30 37	7 58	17 42	17 42	15 45		n.a.
T 14	16 8	6 31	2 18	12 44	3 38	3 17	2 28	22 12	1 9	23 24	0 6	13 34	1 53	22 48	0 10	8 11	1 35	30 37	7 58	17 41	17 41	15 42		n.a.
W15	15 50	11 50	1 17	13 14	3 24	3 45	2 34	22 4	1 9	23 25	0 6	13 35	1 53	22 48	0 10	8 10	1 35	30 38	7 58	17 40	17 40	15 39		n.a.
T 16	15 32	16 49	0 12	13 46	3 9	4 14	2 41	21 57	1 9	23 25	0 6	13 36	1 53	22 48	0 10	8 9	1 35	30 38	7 58	17 40	17 39	15 37		n.a.
F 17	15 14	21 11	0n55	14 17	2 52	4 42	2 48	21 50	1 10	23 26	0 6	13 37	1 53	22 48	0 10	8 9	1 35	30 38	7 58	17 40	17 38	15 34		n.a.
S 18	14 55	24 37	2 2	14 48	2 34	5 10	2 55	21 42	1 10	23 27	0 6	13 38	1 52	22 48	0 10	8 8	1 35	30 38	7 58	17 40	17 37	15 32		n.a.
S 19	14 37	26 45	3 4	15 17	2 15	5 38	3 2	21 34	1 10	23 27	0 6	13 39	1 52	22 48	0 10	8 7	1 35	30 38	7 58	17 39	17 36	15 29		n.a.
M20	14 17	27 13	3 57	15 45	1 56	6 6	3 8	21 26	1 10	23 28	0 6	13 40	1 52	22 48	0 10	8 6	1 35	30 38	7 58	17 37	17 36	15 26		n.a.
T 21	13 58	25 49	4 36	16 11	1 37	6 33	3 15	21 18	1 11	23 28	0 6	13 41	1 52	22 48	0 10	8 5	1 35	30 38	7 58	17 35	17 35	15 24		n.a.
W22	13 38	22 33	4 57	16 34	1 17	7 1	3 22	21 10	1 11	23 29	0 6	13 42	1 51	22 48	0 10	8 4	1 35	30 38	7 57	17 32	17 34	15 21		n.a.
T 23	13 19	17 42	4 58	16 54	0 58	7 28	3 29	21 1	1 11	23 30	0 5	13 43	1 51	22 48	0 10	8 4	1 35	30 38	7 57	17 29	17 33	15 18		n.a.
F 24	12 59	11 43	4 37	17 11	0 40	7 54	3 36	20 53	1 11	23 30	0 5	13 45	1 51	22 48	0 10	8 3	1 35	30 38	7 57	17 26	17 32	15 16		n.a.
S 25	12 38	5 5	3 56	17 25	0 22	8 21	3 43	20 44	1 12	23 31	0 5	13 46	1 51	22 47	0 10	8 2	1 35	30 38	7 57	17 23	17 31	15 13		n.a.
S 26	12 18	1s42	3 1	17 35	0 5	8 47	3 50	20 35	1 12	23 31	0 5	13 47	1 50	22 47	0 10	8 1	1 35	30 38	7 57	17 22	17 30	15 10		n.a.
M27	11 57	8 13	1 55	17 41	0n12	9 13	3 57	20 26	1 12	23 32	0 5	13 48	1 50	22 47	0 10	8 0	1 35	30 38	7 57	17 20	17 29	15 7		n.a.
T 28	11 36	14 8	0 44	17 44	0 27	9 38	4 4	20 17	1 12	23 32	0 5	13 50	1 50	22 47	0 10	7 59	1 35	30 38	7 57	17 20	17 28	15 5		n.a.
W29	11 15	19 11	0s27	17 43	0 40	10 3	4 11	20 7	1 13	23 32	0 5	13 51	1 50	22 47	0 10	7 58	1 35	30 38	7 57	17 20	17 28	15 2		n.a.
T 30	10 54	23 8	1 35	17 38	0 53	10 28	4 18	19 58	1 13	23 33	0 5	13 52	1 50	22 48	0 10	7 58	1 35	30 38	7 57	17 20	17 27	14 59		n.a.
F 31	10n32	25s50	2s36	17n30	1n 4	10s52	4s25	19n48	1n13	23n33	0s 5	13s54	1n49	22s48	0s10	7n57	1n35	30s38	7s57	17n20	17n26	14s57		n.a.

Julian Day Number = 1650776.5, Delta T = 03h31m08s
Ecliptic obliquity = 23°43'13, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°44'20, Lahiri = - 6°37'19 Julian Calendar 1 Aug. 194 BCE == Greg. Calendar 29 July 194 BCE

The year -193 astronomical counting style corresponds to year 194 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 194 BCE
geocentric

SEPTEMBER 194 BCE (-193) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 23 47	3♍56'02	1♉11	16♌21	17♎51	8♌ 3	25♊21	12♏ 7	12♐58	13♍44	15°R55	17°R43	18♉ 4	3♓38	n.a.	S 1
S 2	22 27 43	4°55'09	13°24	17°39	18°35	8°41	25°30	12°11	12°59	13°46	15♉54	17♉37	18° 1	3°45	n.a.	S 2
M 3	22 31 40	5°54'18	25°29	19° 1	19°18	9°19	25°38	12°15	12°59	13°49	15°54	17°29	17°58	3°51	n.a.	M 3
T 4	22 35 36	6°53'29	7♒27	20°28	20° 0	9°57	25°46	12°19	12°59	13°51	15°53	17°18	17°55	3°58	n.a.	T 4
W 5	22 39 33	7°52'42	19°22	21°58	20°41	10°35	25°54	12°23	13° 0	13°53	15°52	17° 6	17°51	4° 5	n.a.	W 5
T 6	22 43 29	8°51'57	1♓15	23°32	21°21	11°13	26° 1	12°27	13° 0	13°55	15°51	16°52	17°48	4°12	n.a.	T 6
F 7	22 47 26	9°51'14	13° 7	25° 9	21°59	11°51	26° 9	12°32	13° 1	13°58	15°51	16°40	17°45	4°18	n.a.	F 7
S 8	22 51 22	10°50'33	25° 0	26°48	22°37	12°28	26°17	12°36	13° 1	14° 0	15°50	16°29	17°42	4°25	n.a.	S 8
S 9	22 55 19	11°49'55	6♈56	28°28	23°13	13° 6	26°24	12°40	13° 2	14° 2	15°49	16°20	17°39	4°32	n.a.	S 9
M10	22 59 15	12°49'18	18°57	0♍10	23°48	13°44	26°31	12°45	13° 3	14° 4	15°49	16°13	17°36	4°38	n.a.	M10
T 11	23 3 12	13°48'44	1♉ 4	1°53	24°22	14°22	26°38	12°50	13° 4	14° 7	15°48	16°10	17°32	4°45	n.a.	T 11
W12	23 7 9	14°48'13	13°21	3°36	24°54	15° 0	26°45	12°54	13° 4	14° 9	15°48	16°D 9	17°29	4°52	n.a.	W12
T 13	23 11 5	15°47'43	25°52	5°21	25°25	15°38	26°52	12°59	13° 5	14°11	15°47	16° 9	17°26	4°59	n.a.	T 13
F 14	23 15 2	16°47'16	8♊42	7° 5	25°54	16°15	26°58	13° 4	13° 6	14°13	15°47	16°10	17°23	5° 5	n.a.	F 14
S 15	23 18 58	17°46'52	21°53	8°50	26°22	16°53	27° 5	13° 9	13° 7	14°16	15°46	16°R10	17°20	5°12	n.a.	S 15
S 16	23 22 55	18°46'30	5♋29	10°34	26°48	17°31	27°11	13°14	13° 8	14°18	15°46	16° 9	17°17	5°19	n.a.	S 16
M17	23 26 51	19°46'11	19°33	12°19	27°13	18° 9	27°17	13°19	13° 9	14°20	15°45	16° 5	17°13	5°25	n.a.	M17
T 18	23 30 48	20°45'53	4♌ 3	14° 3	27°36	18°47	27°23	13°24	13°10	14°22	15°45	15°59	17°10	5°32	n.a.	T 18
W19	23 34 44	21°45'39	18°57	15°46	27°57	19°24	27°29	13°29	13°11	14°24	15°44	15°52	17° 7	5°39	n.a.	W19
T 20	23 38 41	22°45'26	4♍ 6	17°30	28°16	20° 2	27°35	13°34	13°12	14°27	15°44	15°44	17° 4	5°46	n.a.	T 20
F 21	23 42 38	23°45'15	19°22	19°13	28°34	20°40	27°40	13°39	13°14	14°29	15°44	15°36	17° 1	5°52	n.a.	F 21
S 22	23 46 34	24°45'07	4♎32	20°55	28°49	21°18	27°46	13°45	13°15	14°31	15°43	15°29	16°57	5°59	n.a.	S 22
S 23	23 50 31	25°45'00	19°28	22°37	29° 2	21°56	27°51	13°50	13°16	14°33	15°43	15°24	16°54	6° 6	n.a.	S 23
M24	23 54 27	26°44'56	4♏ 1	24°19	29°14	22°33	27°56	13°55	13°18	14°36	15°43	15°21	16°51	6°12	n.a.	M24
T 25	23 58 24	27°44'53	18° 7	26° 0	29°23	23°11	28° 1	14° 1	13°19	14°38	15°43	15°D21	16°48	6°19	n.a.	T 25
W26	0 2 20	28°44'52	1♐44	27°40	29°30	23°49	28° 6	14° 7	13°21	14°40	15°42	15°22	16°45	6°26	n.a.	W26
T 27	0 6 17	29°44'53	14°55	29°20	29°34	24°27	28°10	14°12	13°22	14°42	15°42	15°23	16°42	6°33	n.a.	T 27
F 28	0 10 13	0♎44'56	27°41	0♎59	29°R37	25° 4	28°14	14°18	13°24	14°44	15°42	15°R24	16°38	6°39	n.a.	F 28
S 29	0 14 10	1°45'00	10♉ 8	2°38	29°37	25°42	28°19	14°24	13°25	14°46	15°42	15°23	16°35	6°46	n.a.	S 29
S 30	0 18 7	2♎45'07	22♉20	4♎16	29♎34	26♌20	28♊23	14♏29	13♐27	14♍49	15♉42	15♉21	16♉32	6♓53	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	10n11	27s11	3s28	17n18	1n15	11s16	4s32	19n39	1n13	23n34	0s 5	13s55	1n49	22s48	0s10	7n56	1n35	30s38	7s57	17n19	17n25	14s54		n.a.
S 2	9 49	27 11	4 10	17 3	1 23	11 39	4 39	19 29	1 14	23 34	0 4	13 57	1 49	22 48	0 10	7 55	1 35	30 38	7 57	17 17	17 24	14 51		n.a.
M 3	9 27	25 52	4 40	16 44	1 31	12 2	4 46	19 19	1 14	23 35	0 4	13 58	1 49	22 48	0 10	7 54	1 35	30 38	7 56	17 15	17 23	14 48		n.a.
T 4	9 5	23 24	4 57	16 23	1 38	12 25	4 53	19 9	1 14	23 35	0 4	13 59	1 49	22 48	0 10	7 53	1 35	30 38	7 56	17 12	17 22	14 46		n.a.
W 5	8 43	19 56	5 1	15 58	1 43	12 47	5 0	18 59	1 14	23 35	0 4	14 1	1 48	22 48	0 10	7 52	1 35	30 38	7 56	17 8	17 21	14 43		n.a.
T 6	8 20	15 42	4 52	15 31	1 47	13 9	5 7	18 48	1 14	23 36	0 4	14 2	1 48	22 48	0 10	7 52	1 35	30 38	7 56	17 4	17 20	14 40		n.a.
F 7	7 58	10 51	4 30	15 2	1 51	13 30	5 13	18 38	1 15	23 36	0 4	14 4	1 48	22 48	0 10	7 51	1 35	30 38	7 56	17 1	17 19	14 38		n.a.
S 8	7 35	5 37	3 57	14 30	1 53	13 50	5 20	18 27	1 15	23 36	0 4	14 5	1 48	22 48	0 10	7 50	1 35	30 38	7 56	16 58	17 19	14 35		n.a.
S 9	7 12	0 10	3 13	13 56	1 55	14 10	5 26	18 17	1 15	23 37	0 4	14 7	1 48	22 48	0 10	7 49	1 35	30 38	7 56	16 55	17 18	14 32		n.a.
M10	6 49	5n21	2 20	13 21	1 56	14 29	5 33	18 6	1 15	23 37	0 4	14 9	1 47	22 48	0 10	7 48	1 35	30 38	7 56	16 53	17 17	14 29		n.a.
T 11	6 26	10 44	1 20	12 43	1 56	14 48	5 39	17 55	1 16	23 37	0 3	14 10	1 47	22 48	0 10	7 47	1 35	30 38	7 56	16 52	17 16	14 27		n.a.
W12	6 3	15 48	0 15	12 5	1 55	15 6	5 46	17 44	1 16	23 37	0 3	14 12	1 47	22 48	0 10	7 46	1 35	30 38	7 55	16 52	17 15	14 24		n.a.
T 13	5 40	20 17	0n52	11 25	1 53	15 23	5 52	17 33	1 16	23 38	0 3	14 13	1 47	22 48	0 10	7 46	1 35	30 38	7 55	16 52	17 14	14 21		n.a.
F 14	5 17	23 57	1 58	10 44	1 52	15 40	5 58	17 22	1 16	23 38	0 3	14 15	1 47	22 49	0 10	7 45	1 35	30 38	7 55	16 52	17 13	14 18		n.a.
S 15	4 53	26 27	2 59	10 2	1 49	15 55	6 4	17 10	1 16	23 38	0 3	14 17	1 46	22 49	0 10	7 44	1 35	30 38	7 55	16 52	17 12	14 15		n.a.
S 16	4 29	27 29	3 52	9 19	1 46	16 10	6 9	16 59	1 17	23 39	0 3	14 18	1 46	22 49	0 10	7 43	1 35	30 38	7 55	16 52	17 11	14 13		n.a.
M17	4 6	26 47	4 34	8 36	1 43	16 25	6 15	16 47	1 17	23 39	0 3	14 20	1 46	22 49	0 10	7 42	1 35	30 38	7 55	16 51	17 10	14 10		n.a.
T 18	3 42	24 18	4 59	7 52	1 39	16 38	6 20	16 35	1 17	23 39	0 3	14 22	1 46	22 49	0 10	7 41	1 35	30 38	7 55	16 49	17 10	14 7		n.a.
W19	3 18	20 9	5 5	7 8	1 35	16 51	6 25	16 24	1 17	23 39	0 3	14 24	1 46	22 49	0 10	7 40	1 35	30 38	7 55	16 47	17 9	14 4		n.a.
T 20	2 54	14 37	4 50	6 23	1 30	17 2	6 30	16 12	1 17	23 39	0 2	14 25	1 45	22 49	0 10	7 39	1 35	30 38	7 54	16 44	17 8	14 2		n.a.
F 21	2 31	8 9	4 15	5 37	1 25	17 13	6 35	16 0	1 18	23 40	0 2	14 27	1 45	22 50	0 10	7 39	1 35	30 38	7 54	16 42	17 7	13 59		n.a.
S 22	2 7	1 15	3 21	4 52	1 20	17 23	6 39	15 48	1 18	23 40	0 2	14 29	1 45	22 50	0 10	7 38	1 35	30 37	7 54	16 40	17 6	13 56		n.a.
S 23	1 43	5s38	2 15	4 6	1 15	17 31	6 43	15 35	1 18	23 40	0 2	14 31	1 45	22 50	0 10	7 37	1 36	30 37	7 54	16 39	17 5	13 53		n.a.
M24	1 18	12 3	1 1	3 21	1 9	17 39	6 47	15 23	1 18	23 40	0 2	14 32	1 45	22 50	0 10	7 36	1 36	30 37	7 54	16 38	17 4	13 50		n.a.
T 25	0 54	17 40	0s15	2 35	1 4	17 46	6 50	15 11	1 18	23 40	0 2	14 34	1 45	22 50	0 10	7 35	1 36	30 37	7 54	16 38	17 3	13 48		n.a.
W26	0 30	22 11	1 27	1 49	0 58	17 51	6 54	14 58	1 18	23 41	0 2	14 36	1 44	22 50	0 10	7 34	1 36	30 37	7 54	16 38	17 2	13 45		n.a.
T 27	0 6	25 23	2 33	1 4	0 52	17 55	6 56	14 46	1 19	23 41	0 2	14 38	1 44	22 51	0 10	7 34	1 36	30 37	7 53	16 38	17 1	13 42		n.a.
F 28	0s18	27 10	3 29	0 18	0 46	17 58	6 58	14 33	1 19	23 41	0 1	14 40	1 44	22 51	0 10	7 33	1 36	30 37	7 53	16 39	17 0	13 39		n.a.
S 29	0 42	27 32	4 13	0s27	0 39	18 0	7 0	14 20	1 19	23 41	0 1	14 42	1 44	22 51	0 10	7 32	1 36	30 37	7 53	16 38	16 59	13 36		n.a.
S 30	1s 6	26s32	4s45	1s13	0n33	18s 0	7s 1	14n 7	1n19	23n41	0s 1	14s43	1n44	22s51	0s10	7n31	1n36	30s37	7s53	16n38	16n59	13s33		n.a.

Julian Day Number = 1650807.5, Delta T = 03h31m07s
Ecliptic obliquity = 23°43'13, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°44'15, Lahiri = - 6°37'15 Julian Calendar 1 Sept. 194 BCE == Greg. Calendar 29 Aug. 194 BCE

The year -193 astronomical counting style corresponds to year 194 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 194 BCE
geocentric

OCTOBER 194 BCE (-193) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 22 3	3♎45'14	4♒21	5♎54	29°R29	26♌57	28♊26	14♏35	13♐29	14♑51	15°R42	15°R17	16♉29	6♓59	n.a.	M 1
T 2	0 26 0	4°45'24	16°16	7°31	29♎22	27°35	28°30	14°41	13°31	14°53	15♋42	15♉11	16°26	7° 6	n.a.	T 2
W 3	0 29 56	5°45'35	28° 8	9° 8	29°12	28°13	28°33	14°47	13°32	14°55	15°D42	15° 4	16°23	7°13	n.a.	W 3
T 4	0 33 53	6°45'48	10♓ 0	10°44	29° 0	28°51	28°37	14°53	13°34	14°57	15°42	14°57	16°19	7°20	n.a.	T 4
F 5	0 37 49	7°46'02	21°54	12°20	28°45	29°28	28°40	14°59	13°36	14°59	15°42	14°50	16°16	7°26	n.a.	F 5
S 6	0 41 46	8°46'18	3♈52	13°55	28°28	0♍ 6	28°43	15° 5	13°38	15° 1	15°42	14°43	16°13	7°33	n.a.	S 6
S 7	0 45 42	9°46'37	15°56	15°30	28° 9	0°44	28°45	15°11	13°40	15° 3	15°42	14°38	16°10	7°40	n.a.	S 7
M 8	0 49 39	10°46'57	28° 8	17° 5	27°47	1°21	28°48	15°17	13°42	15° 5	15°42	14°35	16° 7	7°46	n.a.	M 8
T 9	0 53 35	11°47'18	10♉27	18°39	27°23	1°59	28°50	15°24	13°44	15° 8	15°42	14°D34	16° 3	7°53	n.a.	T 9
W10	0 57 32	12°47'42	22°57	20°13	26°58	2°37	28°52	15°30	13°46	15°10	15°42	14°34	16° 0	8° 0	n.a.	W10
T 11	1 1 29	13°48'08	5♊39	21°47	26°30	3°14	28°54	15°36	13°49	15°12	15°42	14°35	15°57	8° 7	n.a.	T 11
F 12	1 5 25	14°48'36	18°36	23°20	26° 0	3°52	28°56	15°42	13°51	15°14	15°43	14°37	15°54	8°13	n.a.	F 12
S 13	1 9 22	15°49'06	1♋50	24°53	25°29	4°29	28°58	15°49	13°53	15°16	15°43	14°39	15°51	8°20	n.a.	S 13
S 14	1 13 18	16°49'38	15°23	26°25	24°57	5° 7	28°59	15°55	13°55	15°18	15°43	14°R39	15°48	8°27	n.a.	S 14
M15	1 17 15	17°50'12	29°17	27°58	24°23	5°45	29° 0	16° 2	13°58	15°20	15°43	14°39	15°44	8°33	n.a.	M15
T 16	1 21 11	18°50'47	13♌31	29°30	23°48	6°22	29° 1	16° 8	14° 0	15°22	15°44	14°37	15°41	8°40	n.a.	T 16
W17	1 25 8	19°51'25	28° 4	1♏ 1	23°13	7° 0	29° 2	16°15	14° 3	15°23	15°44	14°34	15°38	8°47	n.a.	W17
T 18	1 29 4	20°52'04	12♍51	2°33	22°37	7°37	29° 2	16°21	14° 5	15°25	15°45	14°31	15°35	8°54	n.a.	T 18
F 19	1 33 1	21°52'46	27°45	4° 4	22° 1	8°15	29° 3	16°28	14° 7	15°27	15°45	14°28	15°32	9° 0	n.a.	F 19
S 20	1 36 58	22°53'28	12♎40	5°35	21°24	8°53	29°R 3	16°34	14°10	15°29	15°45	14°25	15°28	9° 7	n.a.	S 20
S 21	1 40 54	23°54'13	27°25	7° 5	20°48	9°30	29° 3	16°41	14°13	15°31	15°46	14°23	15°25	9°14	n.a.	S 21
M22	1 44 51	24°54'59	11♏54	8°35	20°13	10° 8	29° 3	16°48	14°15	15°33	15°46	14°D22	15°22	9°20	n.a.	M22
T 23	1 48 47	25°55'46	26° 1	10° 5	19°38	10°45	29° 2	16°54	14°18	15°35	15°47	14°23	15°19	9°27	n.a.	T 23
W24	1 52 44	26°56'35	9♐44	11°35	19° 4	11°23	29° 2	17° 1	14°20	15°36	15°47	14°24	15°16	9°34	n.a.	W24
T 25	1 56 40	27°57'25	23° 1	13° 4	18°31	12° 0	29° 1	17° 8	14°23	15°38	15°48	14°25	15°13	9°41	n.a.	T 25
F 26	2 0 37	28°58'16	5♑54	14°33	17°59	12°38	29° 0	17°15	14°26	15°40	15°49	14°26	15° 9	9°47	n.a.	F 26
S 27	2 4 33	29°59'08	18°25	16° 1	17°29	13°15	28°59	17°21	14°29	15°42	15°49	14°27	15° 6	9°54	n.a.	S 27
S 28	2 8 30	1♏ 0'01	0♒40	17°29	17° 1	13°53	28°57	17°28	14°32	15°43	15°50	14°R28	15° 3	10° 1	n.a.	S 28
M29	2 12 27	2° 0'55	12°43	18°56	16°35	14°30	28°55	17°35	14°34	15°45	15°51	14°27	15° 0	10° 7	n.a.	M29
T 30	2 16 23	3° 1'50	24°38	20°23	16°10	15° 8	28°54	17°42	14°37	15°47	15°51	14°27	14°57	10°14	n.a.	T 30
W31	2 20 20	4♏ 2'46	6♓29	21♏49	15♎48	15♍45	28♊52	17♏49	14♐40	15♍48	15♋52	14♉25	14♉54	10♓21	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	1s31	24s18	5s 4	1s58	0n27	17s59	7s 2	13n55	1n19	23n42	0s 1	14s45	1n44	22s51	0s10	7n30	1n36	30s36	7s53	16n37	16n58	13s31			n.a.
T 2	1 55	21 3	5 9	2 43	0 20	17 56	7 2	13 42	1 19	23 42	0 1	14 47	1 43	22 52	0 10	7 29	1 36	30 36	7 53	16 35	16 57	13 28			n.a.
W 3	2 19	16 58	5 1	3 27	0 14	17 52	7 2	13 29	1 20	23 42	0 1	14 49	1 43	22 52	0 10	7 29	1 36	30 36	7 53	16 33	16 56	13 25			n.a.
T 4	2 43	12 14	4 41	4 11	0 7	17 47	7 1	13 15	1 20	23 42	0 1	14 51	1 43	22 52	0 10	7 28	1 36	30 36	7 52	16 31	16 55	13 22			n.a.
F 5	3 7	7 2	4 7	4 55	0 0	17 40	6 59	13 2	1 20	23 42	0 1	14 53	1 43	22 52	0 10	7 27	1 36	30 36	7 52	16 28	16 54	13 19			n.a.
S 6	3 31	1 33	3 23	5 39	0s 6	17 31	6 57	12 49	1 20	23 42	0 0	14 55	1 43	22 53	0 10	7 26	1 36	30 36	7 52	16 27	16 53	13 16			n.a.
S 7	3 55	4n 3	2 30	6 22	0 13	17 21	6 54	12 36	1 20	23 43	0 0	14 57	1 43	22 53	0 10	7 25	1 36	30 36	7 52	16 25	16 52	13 14			n.a.
M 8	4 19	9 33	1 29	7 5	0 19	17 10	6 50	12 22	1 20	23 43	0 0	14 59	1 43	22 53	0 10	7 25	1 36	30 35	7 52	16 24	16 51	13 11			n.a.
T 9	4 43	14 46	0 22	7 48	0 26	16 57	6 45	12 9	1 21	23 43	0 0	15 1	1 42	22 53	0 10	7 24	1 36	30 35	7 52	16 24	16 50	13 8			n.a.
W10	5 7	19 28	0n46	8 30	0 32	16 42	6 40	11 55	1 21	23 43	0n 0	15 3	1 42	22 54	0 10	7 23	1 36	30 35	7 52	16 24	16 49	13 5			n.a.
T 11	5 30	23 21	1 53	9 11	0 39	16 26	6 34	11 41	1 21	23 43	0 0	15 4	1 42	22 54	0 10	7 22	1 36	30 35	7 51	16 24	16 48	13 2			n.a.
F 12	5 54	26 8	2 56	9 52	0 45	16 9	6 27	11 28	1 21	23 43	0 0	15 6	1 42	22 54	0 10	7 22	1 36	30 35	7 51	16 25	16 47	12 59			n.a.
S 13	6 18	27 33	3 51	10 33	0 52	15 50	6 19	11 14	1 21	23 43	0 0	15 8	1 42	22 54	0 10	7 21	1 36	30 35	7 51	16 25	16 47	12 56			n.a.
S 14	6 41	27 21	4 34	11 13	0 58	15 30	6 11	11 0	1 21	23 44	0 1	15 10	1 42	22 55	0 10	7 20	1 36	30 34	7 51	16 25	16 46	12 53			n.a.
M15	7 5	25 28	5 3	11 52	1 4	15 9	6 2	10 46	1 21	23 44	0 1	15 12	1 42	22 55	0 10	7 19	1 36	30 34	7 51	16 25	16 45	12 51			n.a.
T 16	7 28	21 58	5 14	12 31	1 10	14 46	5 52	10 32	1 21	23 44	0 1	15 14	1 42	22 55	0 10	7 19	1 36	30 34	7 51	16 25	16 44	12 48			n.a.
W17	7 51	17 3	5 5	13 9	1 16	14 23	5 41	10 18	1 22	23 44	0 1	15 16	1 41	22 56	0 10	7 18	1 36	30 34	7 50	16 24	16 43	12 45			n.a.
T 18	8 14	11 4	4 37	13 47	1 22	13 59	5 29	10 4	1 22	23 44	0 1	15 18	1 41	22 56	0 10	7 17	1 36	30 34	7 50	16 23	16 42	12 42			n.a.
F 19	8 37	4 24	3 49	14 23	1 27	13 34	5 17	9 50	1 22	23 44	0 1	15 20	1 41	22 56	0 10	7 16	1 36	30 33	7 50	16 22	16 41	12 39			n.a.
S 20	9 0	2s31	2 46	15 0	1 33	13 8	5 5	9 36	1 22	23 44	0 1	15 22	1 41	22 56	0 10	7 16	1 36	30 33	7 50	16 21	16 40	12 36			n.a.
S 21	9 23	9 15	1 32	15 35	1 38	12 42	4 51	9 22	1 22	23 45	0 2	15 24	1 41	22 57	0 10	7 15	1 36	30 33	7 50	16 21	16 39	12 33			n.a.
M22	9 45	15 22	0 14	16 10	1 43	12 16	4 37	9 7	1 22	23 45	0 2	15 26	1 41	22 57	0 10	7 14	1 36	30 33	7 50	16 20	16 38	12 30			n.a.
T 23	10 8	20 31	1s 4	16 43	1 48	11 49	4 23	8 53	1 22	23 45	0 2	15 28	1 41	22 57	0 10	7 14	1 36	30 33	7 50	16 20	16 37	12 27			n.a.
W24	10 30	24 24	2 15	17 16	1 53	11 22	4 9	8 39	1 22	23 45	0 2	15 30	1 41	22 58	0 10	7 13	1 36	30 32	7 49	16 21	16 36	12 24			n.a.
T 25	10 52	26 49	3 18	17 48	1 57	10 56	3 54	8 24	1 23	23 45	0 2	15 32	1 41	22 58	0 10	7 12	1 36	30 32	7 49	16 21	16 35	12 22			n.a.
F 26	11 14	27 43	4 8	18 20	2 2	10 30	3 39	8 10	1 23	23 45	0 2	15 34	1 40	22 58	0 10	7 12	1 37	30 32	7 49	16 22	16 34	12 19			n.a.
S 27	11 36	27 8	4 44	18 50	2 6	10 4	3 23	7 56	1 23	23 45	0 2	15 36	1 40	22 59	0 10	7 11	1 37	30 32	7 49	16 22	16 33	12 16			n.a.
S 28	11 57	25 14	5 7	19 19	2 9	9 39	3 8	7 41	1 23	23 46	0 3	15 39	1 40	22 59	0 10	7 10	1 37	30 31	7 49	16 22	16 32	12 13			n.a.
M29	12 19	22 14	5 16	19 47	2 13	9 14	2 52	7 27	1 23	23 46	0 3	15 41	1 40	22 59	0 10	7 10	1 37	30 31	7 49	16 22	16 32	12 10			n.a.
T 30	12 40	18 21	5 11	20 13	2 15	8 50	2 37	7 12	1 23	23 46	0 3	15 43	1 40	23 0	0 10	7 9	1 37	30 31	7 49	16 22	16 31	12 7			n.a.
W31	13s 1	13s46	4s53	20s39	2s18	8s27	2s21	6n57	1n23	23n46	0n 3	15s45	1n40	23s 0	0s10	7n 9	1n37	30s31	7s48	16n21	16n30	12s 4			n.a.

Julian Day Number = 1650837.5, Delta T = 03h31m06s
Ecliptic obliquity = 23°43'14, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°44'11, Lahiri = - 6°37'11 Julian Calendar 1 Oct. 194 BCE == Greg. Calendar 28 Sept. 194 BCE

The year -193 astronomical counting style corresponds to year 194 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 194 BCE
geocentric

NOVEMBER 194 BCE (-193) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 24 16	5♏ 3'42	18♓21	23♏14	15°R28	16♍23	28°R49	17♏56	14♐43	15♍50	15♑53	14°R24	14♉50	10♓28	n.a.	T 1
F 2	2 28 13	6° 4'40	0♈18	24°38	15♎11	17° 0	28♊47	18° 3	14°46	15°52	15°54	14♉23	14°47	10°34	n.a.	F 2
S 3	2 32 9	7° 5'39	12°22	26° 1	14°56	17°37	28°44	18°10	14°49	15°53	15°55	14°21	14°44	10°41	n.a.	S 3
S 4	2 36 6	8° 6'38	24°36	27°22	14°43	18°15	28°42	18°16	14°52	15°55	15°55	14°21	14°41	10°48	n.a.	S 4
M 5	2 40 2	9° 7'39	7♉ 1	28°42	14°33	18°52	28°39	18°23	14°55	15°56	15°56	14°20	14°38	10°54	n.a.	M 5
T 6	2 43 59	10° 8'41	19°38	0♐ 1	14°25	19°29	28°35	18°30	14°58	15°58	15°57	14°D20	14°34	11° 1	n.a.	T 6
W 7	2 47 56	11° 9'43	2♊28	1°17	14°20	20° 7	28°32	18°37	15° 1	15°59	15°58	14°21	14°31	11° 8	n.a.	W 7
T 8	2 51 52	12°10'47	15°32	2°31	14°17	20°44	28°29	18°44	15° 4	16° 1	15°59	14°21	14°28	11°15	n.a.	T 8
F 9	2 55 49	13°11'52	28°48	3°42	14°D17	21°21	28°25	18°51	15° 8	16° 2	16° 0	14°21	14°25	11°21	n.a.	F 9
S 10	2 59 45	14°12'58	12♋17	4°50	14°19	21°59	28°21	18°58	15°11	16° 4	16° 1	14°R21	14°22	11°28	n.a.	S 10
S 11	3 3 42	15°14'05	26° 0	5°55	14°23	22°36	28°17	19° 5	15°14	16° 5	16° 2	14°21	14°19	11°35	n.a.	S 11
M12	3 7 38	16°15'13	9♌54	6°55	14°30	23°13	28°12	19°12	15°17	16° 6	16° 3	14°D21	14°15	11°41	n.a.	M12
T 13	3 11 35	17°16'22	23°59	7°51	14°40	23°51	28° 8	19°19	15°20	16° 8	16° 4	14°21	14°12	11°48	n.a.	T 13
W14	3 15 31	18°17'33	8♍14	8°41	14°51	24°28	28° 3	19°26	15°24	16° 9	16° 5	14°21	14° 9	11°55	n.a.	W14
T 15	3 19 28	19°18'44	22°37	9°24	15° 5	25° 5	27°59	19°33	15°27	16°10	16° 6	14°22	14° 6	12° 1	n.a.	T 15
F 16	3 23 25	20°19'55	7♎ 3	10° 1	15°21	25°42	27°54	19°40	15°30	16°11	16° 7	14°22	14° 3	12° 8	n.a.	F 16
S 17	3 27 21	21°21'08	21°28	10°30	15°39	26°20	27°48	19°47	15°34	16°12	16° 8	14°23	14° 0	12°15	n.a.	S 17
S 18	3 31 18	22°22'22	5♏48	10°50	15°59	26°57	27°43	19°55	15°37	16°14	16°10	14°23	13°56	12°22	n.a.	S 18
M19	3 35 14	23°23'36	19°58	11°R 0	16°21	27°34	27°38	20° 2	15°40	16°15	16°11	14°R23	13°53	12°28	n.a.	M19
T 20	3 39 11	24°24'51	3♐53	11° 0	16°44	28°11	27°32	20° 9	15°44	16°16	16°12	14°23	13°50	12°35	n.a.	T 20
W21	3 43 7	25°26'06	17°29	10°48	17°10	28°48	27°26	20°16	15°47	16°17	16°13	14°22	13°47	12°42	n.a.	W21
T 22	3 47 4	26°27'21	0♑44	10°25	17°37	29°25	27°20	20°23	15°51	16°18	16°15	14°20	13°44	12°48	n.a.	T 22
F 23	3 51 1	27°28'37	13°39	9°50	18° 6	0♎ 2	27°14	20°30	15°54	16°19	16°16	14°18	13°40	12°55	n.a.	F 23
S 24	3 54 57	28°29'53	26°14	9° 4	18°36	0°39	27° 8	20°37	15°58	16°20	16°17	14°16	13°37	13° 2	n.a.	S 24
S 25	3 58 54	29°31'08	8♒33	8° 7	19° 9	1°16	27° 2	20°44	16° 1	16°21	16°18	14°14	13°34	13° 9	n.a.	S 25
M26	4 2 50	0♐32'24	20°37	7° 1	19°42	1°53	26°55	20°51	16° 4	16°22	16°20	14°13	13°31	13°15	n.a.	M26
T 27	4 6 47	1°33'39	2♓33	5°47	20°17	2°30	26°49	20°57	16° 8	16°23	16°21	14°D13	13°28	13°22	n.a.	T 27
W28	4 10 43	2°34'55	14°25	4°28	20°53	3° 7	26°42	21° 4	16°11	16°24	16°23	14°14	13°25	13°29	n.a.	W28
T 29	4 14 40	3°36'10	26°17	3° 6	21°31	3°44	26°35	21°11	16°15	16°24	16°24	14°15	13°21	13°35	n.a.	T 29
F 30	4 18 36	4♐37'25	8♈14	1♐45	22♎10	4♎21	26♊28	21♏18	16♐18	16♍25	16♑25	14♉16	13♉18	13♓42	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s22	8s41	4s23	21s 3	2s20	8s 5	2s 6	6n43	1n23	23n46	0n 3	15s47	1n40	23s 0	0s10	7n 8	1n37	30s31	7s48	16n21	16n29	12s 1		n.a.
F 2	13 42	3 15	3 41	21 26	2 22	7 44	1 50	6 28	1 23	23 46	0 3	15 49	1 40	23 1	0 10	7 7	1 37	30 30	7 48	16 20	16 28	11 58		n.a.
S 3	14 2	2n22	2 48	21 48	2 23	7 25	1 35	6 13	1 23	23 46	0 3	15 51	1 40	23 1	0 10	7 7	1 37	30 30	7 48	16 20	16 27	11 55		n.a.
S 4	14 23	7 59	1 47	22 8	2 24	7 6	1 21	5 59	1 23	23 46	0 4	15 53	1 40	23 1	0 10	7 6	1 37	30 30	7 48	16 20	16 26	11 52		n.a.
M 5	14 42	13 23	0 41	22 27	2 24	6 49	1 6	5 44	1 24	23 47	0 4	15 55	1 40	23 2	0 10	7 6	1 37	30 30	7 48	16 20	16 25	11 49		n.a.
T 6	15 2	18 19	0n29	22 44	2 24	6 33	0 52	5 29	1 24	23 47	0 4	15 57	1 40	23 2	0 10	7 5	1 37	30 29	7 48	16 20	16 24	11 46		n.a.
W 7	15 21	22 31	1 39	22 59	2 22	6 18	0 38	5 14	1 24	23 47	0 4	15 59	1 39	23 2	0 10	7 5	1 37	30 29	7 48	16 20	16 23	11 43		n.a.
T 8	15 40	25 39	2 45	23 12	2 21	6 4	0 24	5 0	1 24	23 47	0 4	16 1	1 39	23 3	0 10	7 4	1 37	30 29	7 47	16 20	16 22	11 40		n.a.
F 9	15 59	27 25	3 42	23 24	2 18	5 52	0 11	4 45	1 24	23 47	0 4	16 3	1 39	23 3	0 10	7 4	1 37	30 29	7 47	16 20	16 21	11 37		n.a.
S 10	16 18	27 36	4 29	23 33	2 15	5 41	0n 2	4 30	1 24	23 47	0 4	16 5	1 39	23 4	0 10	7 3	1 37	30 28	7 47	16 20	16 20	11 34		n.a.
S 11	16 36	26 7	5 1	23 41	2 10	5 31	0 14	4 15	1 24	23 47	0 5	16 7	1 39	23 4	0 10	7 3	1 37	30 28	7 47	16 20	16 19	11 31		n.a.
M12	16 54	23 3	5 16	23 46	2 5	5 23	0 26	4 0	1 24	23 47	0 5	16 9	1 39	23 4	0 10	7 2	1 37	30 28	7 47	16 20	16 18	11 28		n.a.
T 13	17 11	18 35	5 13	23 50	1 59	5 16	0 37	3 45	1 24	23 47	0 5	16 11	1 39	23 5	0 10	7 2	1 37	30 28	7 47	16 20	16 17	11 25		n.a.
W14	17 29	13 3	4 50	23 50	1 51	5 10	0 49	3 30	1 24	23 47	0 5	16 12	1 39	23 5	0 10	7 1	1 37	30 27	7 47	16 20	16 16	11 22		n.a.
T 15	17 46	6 46	4 9	23 49	1 43	5 6	0 59	3 16	1 24	23 48	0 5	16 14	1 39	23 5	0 10	7 1	1 38	30 27	7 47	16 20	16 15	11 19		n.a.
F 16	18 2	0 7	3 13	23 44	1 33	5 3	1 10	3 1	1 24	23 48	0 5	16 16	1 39	23 6	0 10	7 0	1 38	30 27	7 47	16 20	16 14	11 16		n.a.
S 17	18 19	6s34	2 4	23 38	1 21	5 0	1 20	2 46	1 24	23 48	0 6	16 18	1 39	23 6	0 10	7 0	1 38	30 27	7 46	16 20	16 13	11 13		n.a.
S 18	18 35	12 52	0 47	23 28	1 9	4 59	1 29	2 31	1 24	23 48	0 6	16 20	1 39	23 6	0 10	7 0	1 38	30 26	7 46	16 21	16 13	11 10		n.a.
M19	18 50	18 26	0s31	23 16	0 55	5 0	1 38	2 16	1 24	23 48	0 6	16 22	1 39	23 7	0 10	6 59	1 38	30 26	7 46	16 21	16 12	11 7		n.a.
T 20	19 6	22 54	1 46	23 0	0 39	5 1	1 47	2 1	1 24	23 48	0 6	16 24	1 39	23 7	0 10	6 59	1 38	30 26	7 46	16 20	16 11	11 4		n.a.
W21	19 21	26 0	2 53	22 42	0 23	5 3	1 55	1 46	1 24	23 48	0 6	16 26	1 39	23 8	0 10	6 58	1 38	30 26	7 46	16 20	16 10	11 1		n.a.
T 22	19 35	27 32	3 49	22 21	0 5	5 6	2 3	1 31	1 24	23 48	0 6	16 28	1 39	23 8	0 11	6 58	1 38	30 25	7 46	16 20	16 9	10 58		n.a.
F 23	19 50	27 31	4 32	21 57	0n14	5 10	2 11	1 16	1 24	23 48	0 7	16 30	1 39	23 8	0 11	6 58	1 38	30 25	7 46	16 19	16 8	10 55		n.a.
S 24	20 4	26 4	5 0	21 30	0 34	5 15	2 18	1 1	1 24	23 48	0 7	16 32	1 39	23 9	0 11	6 57	1 38	30 25	7 46	16 18	16 7	10 52		n.a.
S 25	20 17	23 23	5 14	21 1	0 54	5 21	2 25	0 46	1 24	23 48	0 7	16 34	1 39	23 9	0 11	6 57	1 38	30 25	7 46	16 18	16 6	10 49		n.a.
M26	20 30	19 44	5 14	20 31	1 15	5 28	2 31	0 32	1 24	23 48	0 7	16 36	1 39	23 9	0 11	6 57	1 38	30 24	7 46	16 18	16 5	10 46		n.a.
T 27	20 43	15 20	5 0	19 59	1 34	5 36	2 37	0 17	1 24	23 48	0 7	16 37	1 39	23 10	0 11	6 57	1 38	30 24	7 45	16 18	16 4	10 43		n.a.
W28	20 55	10 24	4 33	19 26	1 53	5 44	2 43	0 2	1 24	23 48	0 7	16 39	1 38	23 10	0 11	6 56	1 38	30 24	7 45	16 18	16 3	10 40		n.a.
T 29	21 7	5 5	3 55	18 54	2 10	5 53	2 48	0s13	1 24	23 48	0 7	16 41	1 38	23 11	0 11	6 56	1 38	30 24	7 45	16 18	16 2	10 37		n.a.
F 30	21s19	0n28	3s 6	18s22	2n26	6s 3	2n54	0s28	1n24	23n48	0n 8	16s43	1n38	23s11	0s11	6n56	1n38	30s23	7s45	16n19	16n 1	10s34		n.a.

Julian Day Number = 1650868.5, Delta T = 03h31m05s
Ecliptic obliquity = 23°43'14, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°44'07, Lahiri = - 6°37'07 Julian Calendar 1 Nov. 194 BCE == Greg. Calendar 29 Oct. 194 BCE

The year -193 astronomical counting style corresponds to year 194 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 194 BCE
geocentric

DECEMBER 194 BCE (-193) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 22 33	5♐38'40	20♈21	0°R26	22♎50	4♎58	26°R21	21♏25	16♐22	16♍26	16♑27	14♉18	13♉15	13♓49	n.a.	S 1
S 2	4 26 30	6°39'55	2♉42	29♏12	23°32	5°35	26♊14	21°32	16°26	16°27	16°28	14°19	13°12	13°55	n.a.	S 2
M 3	4 30 26	7°41'09	15°18	28° 6	24°14	6°12	26° 7	21°39	16°29	16°27	16°30	14°R20	13° 9	14° 2	n.a.	M 3
T 4	4 34 23	8°42'24	28°13	27° 8	24°58	6°49	25°59	21°46	16°33	16°28	16°31	14°19	13° 5	14° 9	n.a.	T 4
W 5	4 38 19	9°43'38	11♊25	26°20	25°43	7°25	25°52	21°52	16°36	16°29	16°33	14°17	13° 2	14°16	n.a.	W 5
T 6	4 42 16	10°44'52	24°55	25°42	26°28	8° 2	25°44	21°59	16°40	16°29	16°34	14°14	12°59	14°22	n.a.	T 6
F 7	4 46 12	11°46'06	8♋40	25°14	27°15	8°39	25°37	22° 6	16°43	16°30	16°36	14°10	12°56	14°29	n.a.	F 7
S 8	4 50 9	12°47'20	22°36	24°56	28° 3	9°16	25°29	22°13	16°47	16°30	16°37	14° 5	12°53	14°36	n.a.	S 8
S 9	4 54 6	13°48'34	6♌40	24°D47	28°51	9°52	25°21	22°20	16°51	16°31	16°39	14° 1	12°50	14°42	n.a.	S 9
M10	4 58 2	14°49'48	20°50	24°48	29°41	10°29	25°13	22°26	16°54	16°31	16°40	13°58	12°46	14°49	n.a.	M10
T 11	5 1 59	15°51'01	5♍ 1	24°58	0♏31	11° 5	25° 6	22°33	16°58	16°32	16°42	13°56	12°43	14°56	n.a.	T 11
W12	5 5 55	16°52'15	19°11	25°15	1°22	11°42	24°58	22°39	17° 1	16°32	16°44	13°D55	12°40	15° 3	n.a.	W12
T 13	5 9 52	17°53'28	3♎18	25°39	2°14	12°19	24°50	22°46	17° 5	16°32	16°45	13°56	12°37	15° 9	n.a.	T 13
F 14	5 13 48	18°54'41	17°21	26° 9	3° 6	12°55	24°42	22°53	17° 8	16°33	16°47	13°57	12°34	15°16	n.a.	F 14
S 15	5 17 45	19°55'54	1♏18	26°46	3°59	13°32	24°34	22°59	17°12	16°33	16°48	13°59	12°31	15°23	n.a.	S 15
S 16	5 21 41	20°57'07	15° 9	27°27	4°53	14° 8	24°26	23° 6	17°16	16°33	16°50	13°R59	12°27	15°29	n.a.	S 16
M17	5 25 38	21°58'19	28°51	28°14	5°48	14°45	24°18	23°12	17°19	16°33	16°52	13°58	12°24	15°36	n.a.	M17
T 18	5 29 35	22°59'31	12♐21	29° 4	6°43	15°21	24°10	23°19	17°23	16°33	16°53	13°55	12°21	15°43	n.a.	T 18
W19	5 33 31	24° 0'42	25°39	29°59	7°39	15°57	24° 1	23°25	17°26	16°34	16°55	13°50	12°18	15°49	n.a.	W19
T 20	5 37 28	25° 1'52	8♑43	0♐56	8°35	16°34	23°53	23°31	17°30	16°34	16°57	13°43	12°15	15°56	n.a.	T 20
F 21	5 41 24	26° 3'02	21°30	1°57	9°32	17°10	23°45	23°38	17°33	16°34	16°58	13°36	12°12	16° 3	n.a.	F 21
S 22	5 45 21	27° 4'11	4♒ 2	3° 1	10°29	17°46	23°37	23°44	17°37	16°R34	17° 0	13°27	12° 8	16°10	n.a.	S 22
S 23	5 49 17	28° 5'18	16°19	4° 7	11°27	18°22	23°29	23°50	17°41	16°34	17° 2	13°20	12° 5	16°16	n.a.	S 23
M24	5 53 14	29° 6'25	28°24	5°15	12°26	18°58	23°21	23°56	17°44	16°34	17° 4	13°13	12° 2	16°23	n.a.	M24
T 25	5 57 10	0♑ 7'30	10♓20	6°26	13°25	19°35	23°13	24° 3	17°48	16°34	17° 5	13° 9	11°59	16°30	n.a.	T 25
W26	6 1 7	1° 8'34	22°11	7°38	14°24	20°11	23° 5	24° 9	17°51	16°34	17° 7	13° 7	11°56	16°36	n.a.	W26
T 27	6 5 4	2° 9'37	4♈ 1	8°52	15°24	20°47	22°57	24°15	17°55	16°33	17° 9	13°D 6	11°52	16°43	n.a.	T 27
F 28	6 9 0	3°10'39	15°57	10° 7	16°24	21°23	22°50	24°21	17°58	16°33	17°11	13° 7	11°49	16°50	n.a.	F 28
S 29	6 12 57	4°11'39	28° 3	11°25	17°24	21°59	22°42	24°27	18° 2	16°33	17°12	13° 8	11°46	16°56	n.a.	S 29
S 30	6 16 53	5°12'38	10♉25	12°43	18°25	22°34	22°34	24°32	18° 5	16°33	17°14	13°R 9	11°43	17° 3	n.a.	S 30
M31	6 20 50	6♑13'36	23♉ 6	14♐ 3	19♏27	23♎10	22♊26	24♏38	18♐ 9	16♍32	17♑16	13♉ 8	11♉40	17♓10	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s30	6n 4	2s 8	17s53	2n39	6s14	2n58	0s43	1n24	23n48	0n 8	16s45	1n38	23s11	0s11	6n55	1n38	30s23	7s45	16n19	16n 0	10s31		n.a.
S 2	21 41	11 33	1 4	17 27	2 50	6 25	3 3	0 57	1 24	23 48	0 8	16 47	1 38	23 12	0 11	6 55	1 39	30 23	7 45	16 19	15 59	10 28		n.a.
M 3	21 51	16 42	0n 5	17 4	2 59	6 37	3 7	1 12	1 24	23 48	0 8	16 48	1 38	23 12	0 11	6 55	1 39	30 22	7 45	16 20	15 58	10 25		n.a.
T 4	22 1	21 13	1 16	16 45	3 5	6 49	3 11	1 27	1 24	23 48	0 8	16 50	1 38	23 12	0 11	6 55	1 39	30 22	7 45	16 19	15 57	10 22		n.a.
W 5	22 10	24 47	2 23	16 30	3 9	7 2	3 15	1 42	1 24	23 48	0 8	16 52	1 38	23 13	0 11	6 55	1 39	30 22	7 45	16 19	15 56	10 19		n.a.
T 6	22 19	27 2	3 24	16 19	3 11	7 15	3 18	1 56	1 24	23 48	0 9	16 54	1 38	23 13	0 11	6 54	1 39	30 22	7 45	16 18	15 55	10 16		n.a.
F 7	22 28	27 40	4 15	16 12	3 11	7 29	3 21	2 11	1 24	23 48	0 9	16 55	1 38	23 13	0 11	6 54	1 39	30 21	7 45	16 17	15 54	10 13		n.a.
S 8	22 36	26 35	4 51	16 10	3 9	7 44	3 24	2 26	1 24	23 47	0 9	16 57	1 38	23 14	0 11	6 54	1 39	30 21	7 45	16 15	15 53	10 10		n.a.
S 9	22 44	23 49	5 10	16 11	3 6	7 59	3 26	2 40	1 24	23 47	0 9	16 59	1 38	23 14	0 11	6 54	1 39	30 21	7 45	16 14	15 52	10 7		n.a.
M10	22 51	19 36	5 10	16 15	3 2	8 14	3 29	2 55	1 24	23 47	0 9	17 1	1 38	23 15	0 11	6 54	1 39	30 21	7 45	16 13	15 51	10 4		n.a.
T 11	22 58	14 18	4 52	16 22	2 57	8 30	3 31	3 9	1 24	23 47	0 9	17 2	1 38	23 15	0 11	6 54	1 39	30 20	7 45	16 12	15 50	10 1		n.a.
W12	23 4	8 14	4 15	16 32	2 51	8 46	3 33	3 24	1 24	23 47	0 10	17 4	1 38	23 15	0 11	6 54	1 39	30 20	7 45	16 12	15 49	9 58		n.a.
T 13	23 10	1 47	3 24	16 45	2 44	9 2	3 34	3 38	1 24	23 47	0 10	17 6	1 38	23 16	0 11	6 54	1 39	30 20	7 44	16 12	15 48	9 55		n.a.
F 14	23 15	4s44	2 20	16 59	2 36	9 19	3 36	3 53	1 23	23 47	0 10	17 7	1 38	23 16	0 11	6 54	1 39	30 20	7 44	16 13	15 47	9 51		n.a.
S 15	23 20	11 0	1 9	17 15	2 28	9 36	3 37	4 7	1 23	23 46	0 10	17 9	1 38	23 16	0 11	6 54	1 39	30 19	7 44	16 13	15 46	9 48		n.a.
S 16	23 24	16 40	0s 6	17 33	2 20	9 53	3 38	4 22	1 23	23 46	0 10	17 11	1 38	23 17	0 11	6 54	1 39	30 19	7 44	16 13	15 45	9 45		n.a.
M17	23 28	21 26	1 20	17 52	2 12	10 10	3 39	4 36	1 23	23 46	0 10	17 12	1 38	23 17	0 11	6 54	1 39	30 19	7 44	16 13	15 44	9 42		n.a.
T 18	23 32	24 59	2 28	18 11	2 3	10 28	3 39	4 50	1 23	23 46	0 10	17 14	1 39	23 17	0 11	6 53	1 40	30 19	7 44	16 12	15 43	9 39		n.a.
W19	23 35	27 5	3 27	18 32	1 54	10 46	3 40	5 5	1 23	23 46	0 11	17 15	1 39	23 18	0 11	6 54	1 40	30 18	7 44	16 11	15 42	9 36		n.a.
T 20	23 38	27 38	4 13	18 52	1 45	11 4	3 40	5 19	1 23	23 45	0 11	17 17	1 39	23 18	0 11	6 54	1 40	30 18	7 44	16 9	15 41	9 33		n.a.
F 21	23 40	26 41	4 46	19 14	1 36	11 22	3 40	5 33	1 23	23 45	0 11	17 19	1 39	23 18	0 11	6 54	1 40	30 18	7 44	16 6	15 40	9 30		n.a.
S 22	23 41	24 23	5 4	19 35	1 27	11 40	3 40	5 47	1 22	23 45	0 11	17 20	1 39	23 19	0 11	6 54	1 40	30 18	7 44	16 4	15 39	9 27		n.a.
S 23	23 42	21 1	5 8	19 57	1 18	11 58	3 39	6 1	1 22	23 45	0 11	17 22	1 39	23 19	0 11	6 54	1 40	30 17	7 44	16 1	15 39	9 24		n.a.
M24	23 43	16 48	4 58	20 18	1 9	12 17	3 39	6 15	1 22	23 44	0 11	17 23	1 39	23 20	0 11	6 54	1 40	30 17	7 44	15 59	15 38	9 21		n.a.
T 25	23 43	12 0	4 35	20 39	1 0	12 35	3 38	6 29	1 22	23 44	0 11	17 25	1 39	23 20	0 11	6 54	1 40	30 17	7 44	15 58	15 37	9 17		n.a.
W26	23 43	6 48	4 0	21 0	0 51	12 53	3 37	6 43	1 22	23 44	0 12	17 26	1 39	23 20	0 11	6 54	1 40	30 17	7 44	15 57	15 36	9 14		n.a.
T 27	23 42	1 21	3 15	21 21	0 42	13 12	3 36	6 57	1 22	23 44	0 12	17 28	1 39	23 21	0 11	6 54	1 40	30 17	7 44	15 57	15 35	9 11		n.a.
F 28	23 41	4n11	2 21	21 41	0 33	13 30	3 35	7 10	1 22	23 43	0 12	17 29	1 39	23 21	0 11	6 54	1 40	30 16	7 44	15 57	15 34	9 8		n.a.
S 29	23 39	9 39	1 20	22 0	0 25	13 48	3 34	7 24	1 21	23 43	0 12	17 30	1 39	23 21	0 11	6 54	1 40	30 16	7 44	15 58	15 33	9 5		n.a.
S 30	23 37	14 53	0 15	22 19	0 17	14 7	3 32	7 38	1 21	23 43	0 12	17 32	1 39	23 22	0 11	6 54	1 40	30 16	7 44	15 58	15 32	9 2		n.a.
M31	23s34	19n37	0n53	22s37	0n 8	14s25	3n31	7s51	1n21	23n42	0n12	17s33	1n39	23s22	0s11	6n55	1n40	30s16	7s44	15n58	15n31	8s59		n.a.

Julian Day Number = 1650898.5, Delta T = 03h31m04s
Ecliptic obliquity = 23°43'13, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°44'03, Lahiri = - 6°37'03 Julian Calendar 1 Dec. 194 BCE == Greg. Calendar 28 Nov. 194 BCE

The year -193 astronomical counting style corresponds to year 194 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 193 BCE
geocentric

JANUARY 193 BCE (-192) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 24 46	7♑14'32	6♊10	15♐24	20♏28	23♎46	22°R19	24♏44	18♐12	16°R32	17♑18	13°R 6	11♉37	17♓17	n.a.	T 1
W 2	6 28 43	8°15'28	19°39	16°46	21°31	24°22	22♊11	24°50	18°15	16♍32	17°19	13♉ 1	11°33	17°23	n.a.	W 2
T 3	6 32 40	9°16'22	3♋30	18° 9	22°33	24°58	22° 4	24°56	18°19	16°31	17°21	12°54	11°30	17°30	n.a.	T 3
F 4	6 36 36	10°17'14	17°42	19°33	23°36	25°33	21°57	25° 1	18°22	16°31	17°23	12°45	11°27	17°37	n.a.	F 4
S 5	6 40 33	11°18'05	2♌ 8	20°58	24°39	26° 9	21°49	25° 7	18°26	16°31	17°25	12°35	11°24	17°43	n.a.	S 5
S 6	6 44 29	12°18'56	16°42	22°24	25°42	26°44	21°42	25°12	18°29	16°30	17°27	12°25	11°21	17°50	n.a.	S 6
M 7	6 48 26	13°19'44	1♍17	23°52	26°46	27°20	21°35	25°18	18°32	16°30	17°28	12°17	11°18	17°57	n.a.	M 7
T 8	6 52 22	14°20'32	15°47	25°20	27°50	27°55	21°28	25°23	18°36	16°29	17°30	12°12	11°14	18° 3	n.a.	T 8
W 9	6 56 19	15°21'19	0♎ 7	26°48	28°54	28°31	21°21	25°29	18°39	16°29	17°32	12° 8	11°11	18°10	n.a.	W 9
T 10	7 0 15	16°22'04	14°14	28°18	29°58	29° 6	21°15	25°34	18°42	16°28	17°34	12°D 7	11° 8	18°17	n.a.	T 10
F 11	7 4 12	17°22'48	28° 8	29°49	1♐ 3	29°41	21° 8	25°39	18°45	16°27	17°36	12° 8	11° 5	18°24	n.a.	F 11
S 12	7 8 9	18°23'31	11♏49	1♑20	2° 8	0♏17	21° 2	25°44	18°49	16°27	17°37	12°R 8	11° 2	18°30	n.a.	S 12
S 13	7 12 5	19°24'13	25°17	2°53	3°13	0°52	20°55	25°49	18°52	16°26	17°39	12° 7	10°58	18°37	n.a.	S 13
M14	7 16 2	20°24'54	8♐34	4°26	4°19	1°27	20°49	25°54	18°55	16°25	17°41	12° 4	10°55	18°44	n.a.	M14
T 15	7 19 58	21°25'33	21°40	6° 0	5°25	2° 2	20°43	25°59	18°58	16°24	17°43	11°59	10°52	18°50	n.a.	T 15
W16	7 23 55	22°26'11	4♑36	7°35	6°30	2°37	20°37	26° 4	19° 1	16°24	17°45	11°50	10°49	18°57	n.a.	W16
T 17	7 27 51	23°26'47	17°20	9°10	7°37	3°12	20°31	26° 9	19° 5	16°23	17°46	11°39	10°46	19° 4	n.a.	T 17
F 18	7 31 48	24°27'22	29°53	10°47	8°43	3°47	20°26	26°14	19° 8	16°22	17°48	11°25	10°43	19°10	n.a.	F 18
S 19	7 35 44	25°27'55	12♒15	12°25	9°49	4°21	20°20	26°18	19°11	16°21	17°50	11°12	10°39	19°17	n.a.	S 19
S 20	7 39 41	26°28'26	24°26	14° 3	10°56	4°56	20°15	26°23	19°14	16°20	17°52	10°59	10°36	19°24	n.a.	S 20
M21	7 43 38	27°28'55	6♓27	15°42	12° 3	5°31	20°10	26°28	19°17	16°19	17°54	10°47	10°33	19°30	n.a.	M21
T 22	7 47 34	28°29'23	18°21	17°23	13°10	6° 5	20° 5	26°32	19°20	16°18	17°55	10°38	10°30	19°37	n.a.	T 22
W23	7 51 31	29°29'48	0♈10	19° 4	14°17	6°40	20° 0	26°36	19°23	16°17	17°57	10°32	10°27	19°44	n.a.	W23
T 24	7 55 27	0♒30'11	11°59	20°46	15°24	7°14	19°55	26°41	19°26	16°16	17°59	10°28	10°24	19°51	n.a.	T 24
F 25	7 59 24	1°30'32	23°52	22°29	16°32	7°48	19°51	26°45	19°29	16°15	18° 1	10°27	10°20	19°57	n.a.	F 25
S 26	8 3 20	2°30'51	5♉55	24°13	17°39	8°22	19°47	26°49	19°31	16°14	18° 2	10°27	10°17	20° 4	n.a.	S 26
S 27	8 7 17	3°31'08	18°14	25°58	18°47	8°57	19°42	26°53	19°34	16°13	18° 4	10°27	10°14	20°11	n.a.	S 27
M28	8 11 13	4°31'23	0♊53	27°45	19°55	9°31	19°38	26°57	19°37	16°12	18° 6	10°26	10°11	20°17	n.a.	M28
T 29	8 15 10	5°31'36	13°57	29°32	21° 3	10° 5	19°35	27° 1	19°40	16°11	18° 8	10°22	10° 8	20°24	n.a.	T 29
W30	8 19 7	6°31'47	27°29	1♒20	22°11	10°39	19°31	27° 5	19°43	16°10	18° 9	10°16	10° 4	20°31	n.a.	W30
T 31	8 23 3	7♒31'55	11♋30	3♒ 9	23♐19	11♏12	19♊28	27♏ 9	19♐45	16♍ 9	18♑11	10♉ 8	10♉ 1	20♓37	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	23s31	23n34	2n 0	22s54	0n 0	14s43	3n29	8s 5	1n21	23n42	0n12	17s35	1n39	23s22	0s11	6n55	1n40	30s15	7s44	15n57	15n30	8s56			n.a.
W 2	23 28	26 21	3 3	23 11	0s 8	15 1	3 27	8 18	1 20	23 42	0 13	17 36	1 39	23 22	0 11	6 55	1 41	30 15	7 44	15 56	15 29	8 52			n.a.
T 3	23 23	27 36	3 56	23 26	0 15	15 19	3 25	8 32	1 20	23 41	0 13	17 37	1 39	23 23	0 11	6 55	1 41	30 15	7 44	15 53	15 28	8 49			n.a.
F 4	23 19	27 5	4 36	23 41	0 23	15 37	3 23	8 45	1 20	23 41	0 13	17 39	1 39	23 23	0 11	6 55	1 41	30 15	7 44	15 51	15 27	8 46			n.a.
S 5	23 14	24 46	4 59	23 55	0 30	15 54	3 21	8 58	1 20	23 41	0 13	17 40	1 39	23 23	0 11	6 56	1 41	30 15	7 45	15 48	15 26	8 43			n.a.
S 6	23 9	20 49	5 3	24 7	0 37	16 11	3 19	9 12	1 20	23 40	0 13	17 41	1 39	23 24	0 11	6 56	1 41	30 14	7 45	15 45	15 25	8 40			n.a.
M 7	23 3	15 37	4 48	24 19	0 44	16 29	3 17	9 25	1 19	23 40	0 13	17 42	1 39	23 24	0 11	6 56	1 41	30 14	7 45	15 42	15 24	8 37			n.a.
T 8	22 56	9 34	4 14	24 29	0 51	16 45	3 14	9 38	1 19	23 40	0 13	17 44	1 39	23 24	0 11	6 56	1 41	30 14	7 45	15 41	15 23	8 34			n.a.
W 9	22 49	3 4	3 24	24 38	0 57	17 2	3 11	9 51	1 19	23 40	0 13	17 45	1 39	23 25	0 11	6 57	1 41	30 14	7 45	15 40	15 22	8 30			n.a.
T 10	22 42	3s29	2 23	24 46	1 4	17 19	3 9	10 4	1 18	23 39	0 14	17 46	1 40	23 25	0 11	6 57	1 41	30 14	7 45	15 39	15 21	8 27			n.a.
F 11	22 35	9 47	1 14	24 53	1 10	17 35	3 6	10 17	1 18	23 39	0 14	17 47	1 40	23 25	0 11	6 57	1 41	30 13	7 45	15 39	15 20	8 24			n.a.
S 12	22 26	15 32	0 2	24 58	1 15	17 51	3 3	10 29	1 18	23 39	0 14	17 48	1 40	23 26	0 11	6 58	1 41	30 13	7 45	15 39	15 19	8 21			n.a.
S 13	22 18	20 26	1s 9	25 2	1 21	18 6	3 0	10 42	1 17	23 38	0 14	17 49	1 40	23 26	0 11	6 58	1 41	30 13	7 45	15 39	15 18	8 18			n.a.
M14	22 9	24 13	2 16	25 4	1 26	18 21	2 57	10 55	1 17	23 38	0 14	17 51	1 40	23 26	0 11	6 58	1 41	30 13	7 45	15 38	15 17	8 15			n.a.
T 15	21 59	26 40	3 13	25 6	1 31	18 36	2 54	11 7	1 17	23 38	0 14	17 52	1 40	23 26	0 11	6 59	1 41	30 13	7 45	15 36	15 16	8 12			n.a.
W16	21 50	27 39	4 0	25 5	1 35	18 51	2 51	11 20	1 16	23 37	0 14	17 53	1 40	23 27	0 11	6 59	1 41	30 12	7 45	15 34	15 15	8 8			n.a.
T 17	21 39	27 7	4 34	25 3	1 39	19 5	2 47	11 32	1 16	23 37	0 14	17 54	1 40	23 27	0 11	6 59	1 41	30 12	7 45	15 30	15 14	8 5			n.a.
F 18	21 29	25 12	4 55	25 0	1 43	19 19	2 44	11 44	1 16	23 37	0 15	17 55	1 40	23 27	0 11	7 0	1 41	30 12	7 45	15 26	15 13	8 2			n.a.
S 19	21 18	22 7	5 1	24 55	1 47	19 32	2 41	11 56	1 15	23 36	0 15	17 56	1 40	23 27	0 11	7 0	1 41	30 12	7 45	15 22	15 12	7 59			n.a.
S 20	21 6	18 7	4 52	24 48	1 50	19 45	2 37	12 9	1 15	23 36	0 15	17 57	1 40	23 28	0 11	7 0	1 42	30 12	7 46	15 18	15 11	7 56			n.a.
M21	20 55	13 26	4 31	24 39	1 53	19 58	2 34	12 21	1 15	23 36	0 15	17 58	1 40	23 28	0 11	7 1	1 42	30 12	7 46	15 14	15 10	7 53			n.a.
T 22	20 42	8 19	3 59	24 29	1 56	20 10	2 30	12 33	1 14	23 36	0 15	17 59	1 40	23 28	0 11	7 1	1 42	30 11	7 46	15 11	15 9	7 49			n.a.
W23	20 30	2 55	3 16	24 18	1 58	20 21	2 27	12 44	1 14	23 35	0 15	18 0	1 41	23 28	0 11	7 2	1 42	30 11	7 46	15 9	15 8	7 46			n.a.
T 24	20 17	2n34	2 25	24 4	2 0	20 33	2 23	12 56	1 13	23 35	0 15	18 1	1 41	23 29	0 11	7 2	1 42	30 11	7 46	15 8	15 7	7 43			n.a.
F 25	20 3	8 2	1 27	23 49	2 1	20 43	2 19	13 8	1 13	23 35	0 15	18 2	1 41	23 29	0 11	7 3	1 42	30 11	7 46	15 8	15 6	7 40			n.a.
S 26	19 50	13 16	0 24	23 32	2 2	20 54	2 15	13 19	1 12	23 35	0 15	18 2	1 41	23 29	0 11	7 3	1 42	30 11	7 46	15 8	15 5	7 37			n.a.
S 27	19 36	18 7	0n41	23 13	2 3	21 3	2 12	13 31	1 12	23 34	0 16	18 3	1 41	23 29	0 11	7 4	1 42	30 11	7 46	15 8	15 4	7 33			n.a.
M28	19 21	22 18	1 46	22 52	2 3	21 13	2 8	13 42	1 11	23 34	0 16	18 4	1 41	23 30	0 11	7 4	1 42	30 11	7 46	15 7	15 3	7 30			n.a.
T 29	19 7	25 30	2 47	22 29	2 3	21 21	2 4	13 53	1 11	23 34	0 16	18 5	1 41	23 30	0 11	7 5	1 42	30 11	7 46	15 6	15 2	7 27			n.a.
W30	18 52	27 23	3 41	22 5	2 2	21 29	2 0	14 5	1 10	23 34	0 16	18 6	1 41	23 30	0 11	7 5	1 42	30 10	7 47	15 4	15 1	7 24			n.a.
T 31	18s36	27n36	4n24	21s38	2s 1	21s37	1n56	14s16	1n10	23n34	0n16	18s 7	1n41	23s30	0s11	7n 6	1n42	30s10	7s47	15n 2	15n 0	7s21			n.a.

Julian Day Number = 1650929.5, Delta T = 03h31m03s
Ecliptic obliquity = 23°43'13, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'59, Lahiri = - 6°36'58 Julian Calendar 1 Jan. 193 BCE == Greg. Calendar 29 Dec. 194 BCE

The year -192 astronomical counting style corresponds to year 193 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 193 BCE
geocentric

FEBRUARY 193 BCE (-192) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 27 0	8♒32'02	25♋57	4♒59	24♐28	11♏46	19°R25	27♏12	19♐48	16°R 7	18♑13	9°R57	9♉58	20♓44	n.a.	F 1
S 2	8 30 56	9°32'06	10♌44	6°50	25°36	12°20	19♊22	27°16	19°51	16♍ 6	18°14	9♉45	9°55	20°51	n.a.	S 2
S 3	8 34 53	10°32'09	25°43	8°43	26°45	12°53	19°19	27°20	19°53	16° 5	18°16	9°33	9°52	20°57	n.a.	S 3
M 4	8 38 49	11°32'09	10♍45	10°36	27°54	13°27	19°16	27°23	19°56	16° 4	18°18	9°23	9°49	21° 4	n.a.	M 4
T 5	8 42 46	12°32'08	25°39	12°30	29° 3	14° 0	19°14	27°26	19°58	16° 2	18°20	9°16	9°45	21°11	n.a.	T 5
W 6	8 46 42	13°32'04	10♎18	14°25	0♑12	14°33	19°11	27°30	20° 1	16° 1	18°21	9°11	9°42	21°18	n.a.	W 6
T 7	8 50 39	14°31'59	24°39	16°21	1°21	15° 6	19° 9	27°33	20° 3	16° 0	18°23	9° 9	9°39	21°24	n.a.	T 7
F 8	8 54 36	15°31'52	8♏38	18°17	2°30	15°39	19° 7	27°36	20° 6	15°58	18°24	9° 9	9°36	21°31	n.a.	F 8
S 9	8 58 32	16°31'44	22°17	20°15	3°39	16°12	19° 6	27°39	20° 8	15°57	18°26	9° 9	9°33	21°38	n.a.	S 9
S 10	9 2 29	17°31'34	5♐36	22°13	4°49	16°45	19° 4	27°42	20°10	15°56	18°28	9° 8	9°29	21°44	n.a.	S 10
M11	9 6 25	18°31'22	18°39	24°11	5°58	17°18	19° 3	27°45	20°13	15°54	18°29	9° 5	9°26	21°51	n.a.	M11
T 12	9 10 22	19°31'08	1♑29	26° 9	7° 8	17°50	19° 2	27°47	20°15	15°53	18°31	8°59	9°23	21°58	n.a.	T 12
W13	9 14 18	20°30'53	14° 6	28° 8	8°17	18°23	19° 1	27°50	20°17	15°51	18°33	8°50	9°20	22° 4	n.a.	W13
T 14	9 18 15	21°30'35	26°32	0♓ 6	9°27	18°55	19° 0	27°53	20°19	15°50	18°34	8°39	9°17	22°11	n.a.	T 14
F 15	9 22 11	22°30'15	8♒50	2° 4	10°37	19°27	19° 0	27°55	20°21	15°49	18°36	8°26	9°14	22°18	n.a.	F 15
S 16	9 26 8	23°29'54	20°59	4° 1	11°47	19°59	18°59	27°57	20°23	15°47	18°37	8°12	9°10	22°24	n.a.	S 16
S 17	9 30 5	24°29'30	3♓ 1	5°57	12°57	20°31	18°D59	28° 0	20°25	15°46	18°39	7°58	9° 7	22°31	n.a.	S 17
M18	9 34 1	25°29'04	14°56	7°51	14° 7	21° 3	18°59	28° 2	20°27	15°44	18°40	7°46	9° 4	22°38	n.a.	M18
T 19	9 37 58	26°28'35	26°47	9°43	15°17	21°35	19° 0	28° 4	20°29	15°42	18°42	7°37	9° 1	22°44	n.a.	T 19
W20	9 41 54	27°28'05	8♈35	11°33	16°27	22° 6	19° 0	28° 6	20°31	15°41	18°43	7°30	8°58	22°51	n.a.	W20
T 21	9 45 51	28°27'32	20°23	13°21	17°37	22°38	19° 1	28° 8	20°33	15°39	18°45	7°27	8°55	22°58	n.a.	T 21
F 22	9 49 47	29°26'57	2♉16	15° 5	18°47	23° 9	19° 1	28°10	20°35	15°38	18°46	7°D25	8°51	23° 5	n.a.	F 22
S 23	9 53 44	0♓26'19	14°18	16°45	19°58	23°40	19° 2	28°11	20°37	15°36	18°48	7°25	8°48	23°11	n.a.	S 23
S 24	9 57 40	1°25'39	26°34	18°21	21° 8	24°11	19° 4	28°13	20°38	15°35	18°49	7°R26	8°45	23°18	n.a.	S 24
M25	10 1 37	2°24'57	9♊ 9	19°53	22°19	24°41	19° 5	28°14	20°40	15°33	18°50	7°26	8°42	23°25	n.a.	M25
T 26	10 5 33	3°24'12	22° 9	21°20	23°29	25°12	19° 7	28°16	20°42	15°32	18°52	7°24	8°39	23°31	n.a.	T 26
W27	10 9 30	4°23'25	5♋36	22°41	24°40	25°42	19° 8	28°17	20°43	15°30	18°53	7°20	8°35	23°38	n.a.	W27
T 28	10 13 27	5°22'35	19°34	23°57	25°50	26°13	19°10	28°18	20°45	15°28	18°54	7°14	8°32	23°45	n.a.	T 28
F 29	10 17 23	6♓21'43	4♌ 0	25♓ 7	27♑ 1	26♏43	19♊13	28♏19	20♐46	15♍27	18♑56	7♉ 6	8♉29	23♓51	n.a.	F 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	18s20	25n58	4n51	21s10	1s59	21s44	1n52	14s27	1n 9	23n34	0n16	18s 7	1n41	23s31	0s11	7n 6	1n42	30s10	7s47	14n58	14n59	7s17		n.a.
S 2	18 4	22 33	5 0	20 40	1 57	21 51	1 48	14 38	1 9	23 33	0 16	18 8	1 41	23 31	0 11	7 7	1 42	30 10	7 47	14 54	14 58	7 14		n.a.
S 3	17 48	17 36	4 48	20 8	1 54	21 57	1 44	14 48	1 8	23 33	0 16	18 9	1 42	23 31	0 11	7 7	1 42	30 10	7 47	14 51	14 57	7 11		n.a.
M 4	17 31	11 34	4 17	19 34	1 51	22 2	1 40	14 59	1 8	23 33	0 16	18 9	1 42	23 31	0 11	7 8	1 42	30 10	7 47	14 47	14 55	7 8		n.a.
T 5	17 15	4 55	3 28	18 58	1 47	22 7	1 36	15 10	1 7	23 33	0 16	18 10	1 42	23 31	0 11	7 8	1 42	30 10	7 47	14 45	14 54	7 5		n.a.
W 6	16 57	1s54	2 26	18 20	1 43	22 11	1 32	15 20	1 6	23 33	0 16	18 11	1 42	23 32	0 11	7 9	1 42	30 10	7 48	14 43	14 53	7 1		n.a.
T 7	16 40	8 29	1 16	17 40	1 37	22 15	1 28	15 31	1 6	23 33	0 17	18 11	1 42	23 32	0 11	7 9	1 42	30 10	7 48	14 43	14 52	6 58		n.a.
F 8	16 22	14 30	0 3	16 59	1 32	22 18	1 24	15 41	1 5	23 33	0 17	18 12	1 42	23 32	0 11	7 10	1 42	30 9	7 48	14 43	14 51	6 55		n.a.
S 9	16 4	19 40	1s 9	16 15	1 26	22 20	1 20	15 51	1 4	23 33	0 17	18 13	1 42	23 32	0 11	7 10	1 42	30 9	7 48	14 43	14 50	6 52		n.a.
S 10	15 46	23 42	2 15	15 31	1 19	22 22	1 16	16 1	1 4	23 33	0 17	18 13	1 42	23 32	0 11	7 11	1 42	30 9	7 48	14 42	14 49	6 49		n.a.
M11	15 27	26 26	3 13	14 44	1 11	22 23	1 12	16 11	1 3	23 33	0 17	18 14	1 42	23 33	0 11	7 12	1 43	30 9	7 48	14 41	14 48	6 45		n.a.
T 12	15 8	27 42	3 59	13 56	1 3	22 24	1 8	16 21	1 2	23 33	0 17	18 14	1 42	23 33	0 11	7 12	1 43	30 9	7 49	14 39	14 47	6 42		n.a.
W13	14 49	27 30	4 33	13 7	0 54	22 24	1 4	16 31	1 1	23 33	0 17	18 15	1 43	23 33	0 11	7 13	1 43	30 9	7 49	14 37	14 46	6 39		n.a.
T 14	14 30	25 54	4 54	12 16	0 45	22 23	1 0	16 41	1 1	23 33	0 17	18 15	1 43	23 33	0 11	7 13	1 43	30 9	7 49	14 33	14 45	6 36		n.a.
F 15	14 10	23 5	5 0	11 25	0 35	22 22	0 56	16 50	1 0	23 33	0 17	18 16	1 43	23 33	0 11	7 14	1 43	30 9	7 49	14 29	14 44	6 32		n.a.
S 16	13 51	19 17	4 53	10 32	0 25	22 20	0 52	17 0	0 59	23 33	0 17	18 16	1 43	23 34	0 12	7 15	1 43	30 9	7 49	14 24	14 43	6 29		n.a.
S 17	13 31	14 45	4 33	9 39	0 14	22 18	0 48	17 9	0 58	23 33	0 17	18 16	1 43	23 34	0 12	7 15	1 43	30 9	7 49	14 20	14 42	6 26		n.a.
M18	13 11	9 41	4 0	8 46	0 3	22 14	0 44	17 18	0 57	23 33	0 17	18 17	1 43	23 34	0 12	7 16	1 43	30 9	7 50	14 16	14 41	6 23		n.a.
T 19	12 50	4 19	3 18	7 52	0n 9	22 11	0 40	17 28	0 57	23 33	0 18	18 17	1 43	23 34	0 12	7 16	1 43	30 9	7 50	14 13	14 40	6 20		n.a.
W20	12 30	1n12	2 27	6 59	0 21	22 6	0 36	17 37	0 56	23 33	0 18	18 17	1 43	23 34	0 12	7 17	1 43	30 9	7 50	14 11	14 39	6 16		n.a.
T 21	12 9	6 41	1 29	6 6	0 34	22 1	0 32	17 46	0 55	23 33	0 18	18 18	1 43	23 34	0 12	7 18	1 43	30 9	7 50	14 9	14 38	6 13		n.a.
F 22	11 48	11 58	0 27	5 14	0 47	21 55	0 28	17 54	0 54	23 33	0 18	18 18	1 44	23 34	0 12	7 18	1 43	30 9	7 50	14 9	14 37	6 10		n.a.
S 23	11 27	16 54	0n37	4 23	0 59	21 49	0 24	18 3	0 53	23 34	0 18	18 18	1 44	23 35	0 12	7 19	1 43	30 9	7 51	14 9	14 36	6 7		n.a.
S 24	11 6	21 14	1 40	3 33	1 12	21 42	0 20	18 12	0 52	23 34	0 18	18 19	1 44	23 35	0 12	7 20	1 43	30 9	7 51	14 9	14 35	6 3		n.a.
M25	10 44	24 44	2 41	2 45	1 25	21 35	0 16	18 20	0 51	23 34	0 18	18 19	1 44	23 35	0 12	7 20	1 43	30 9	7 51	14 9	14 34	6 0		n.a.
T 26	10 23	27 4	3 35	1 59	1 38	21 27	0 13	18 29	0 50	23 34	0 18	18 19	1 44	23 35	0 12	7 21	1 43	30 9	7 51	14 9	14 33	5 57		n.a.
W27	10 1	27 55	4 19	1 15	1 50	21 18	0 9	18 37	0 49	23 34	0 18	18 19	1 44	23 35	0 12	7 22	1 43	30 9	7 51	14 7	14 32	5 54		n.a.
T 28	9 39	27 3	4 50	0 34	2 2	21 8	0 5	18 45	0 48	23 35	0 18	18 19	1 44	23 35	0 12	7 22	1 43	30 9	7 52	14 5	14 31	5 50		n.a.
F 29	9s17	24n24	5n 4	0n 5	2n14	20s58	0n 2	18s53	0n47	23n35	0n18	18s20	1n44	23s35	0s12	7n23	1n43	30s 9	7s52	14n 3	14n30	5s47		n.a.

Julian Day Number = 1650960.5, Delta T = 03h31m02s
Ecliptic obliquity = 23°43'14, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'55, Lahiri = - 6°36'54 Julian Calendar 1 Feb. 193 BCE == Greg. Calendar 29 Jan. 193 BCE

The year -192 astronomical counting style corresponds to year 193 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 193 BCE
geocentric

MARCH 193 BCE (-192) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 21 20	7♓20'49	18♌52	26♓11	28♉12	27♏13	19♊15	28♏21	20♐48	15°R25	18♉57	6°R57	8♉26	23♓58	n.a.	S 1
S 2	10 25 16	8°19'52	4♍ 1	27° 8	29°22	27°42	19°17	28°21	20°49	15♍23	18°58	6♉48	8°23	24° 5	n.a.	S 2
M 3	10 29 13	9°18'53	19°17	27°59	0♒33	28°12	19°20	28°22	20°51	15°22	19° 0	6°40	8°20	24°11	n.a.	M 3
T 4	10 33 9	10°17'52	4♎28	28°43	1°44	28°41	19°23	28°23	20°52	15°20	19° 1	6°34	8°16	24°18	n.a.	T 4
W 5	10 37 6	11°16'49	19°27	29°21	2°55	29°11	19°26	28°24	20°53	15°19	19° 2	6°31	8°13	24°25	n.a.	W 5
T 6	10 41 2	12°15'44	4♏ 5	29°51	4° 6	29°40	19°29	28°24	20°54	15°17	19° 3	6°D30	8°10	24°31	n.a.	T 6
F 7	10 44 59	13°14'38	18°18	0♈14	5°17	0♐ 8	19°33	28°25	20°55	15°15	19° 5	6°30	8° 7	24°38	n.a.	F 7
S 8	10 48 56	14°13'29	2♐ 5	0°31	6°28	0°37	19°36	28°25	20°57	15°14	19° 6	6°31	8° 4	24°45	n.a.	S 8
S 9	10 52 52	15°12'19	15°28	0°41	7°39	1° 5	19°40	28°25	20°58	15°12	19° 7	6°R31	8° 1	24°51	n.a.	S 9
M10	10 56 49	16°11'07	28°29	0°R44	8°50	1°33	19°44	28°25	20°59	15°10	19° 8	6°31	7°57	24°58	n.a.	M10
T 11	11 0 45	17° 9'53	11♉12	0°40	10° 2	2° 1	19°48	28°R25	21° 0	15° 9	19° 9	6°28	7°54	25° 5	n.a.	T 11
W12	11 4 42	18° 8'37	23°39	0°30	11°13	2°29	19°52	28°25	21° 1	15° 7	19°10	6°23	7°51	25°12	n.a.	W12
T 13	11 8 38	19° 7'20	5♒55	0°15	12°24	2°57	19°57	28°25	21° 1	15° 5	19°11	6°16	7°48	25°18	n.a.	T 13
F 14	11 12 35	20° 6'00	18° 1	29♓53	13°35	3°24	20° 2	28°25	21° 2	15° 4	19°12	6° 8	7°45	25°25	n.a.	F 14
S 15	11 16 31	21° 4'39	29°59	29°27	14°47	3°51	20° 6	28°25	21° 3	15° 2	19°13	5°59	7°41	25°32	n.a.	S 15
S 16	11 20 28	22° 3'15	11♓54	28°57	15°58	4°17	20°11	28°24	21° 4	15° 0	19°14	5°51	7°38	25°38	n.a.	S 16
M17	11 24 25	23° 1'50	23°44	28°22	17° 9	4°44	20°16	28°24	21° 4	14°59	19°15	5°43	7°35	25°45	n.a.	M17
T 18	11 28 21	24° 0'23	5♈33	27°45	18°21	5°10	20°22	28°23	21° 5	14°57	19°16	5°38	7°32	25°52	n.a.	T 18
W19	11 32 18	24°58'53	17°22	27° 5	19°32	5°36	20°27	28°22	21° 5	14°56	19°17	5°34	7°29	25°58	n.a.	W19
T 20	11 36 14	25°57'21	29°14	26°23	20°44	6° 1	20°33	28°21	21° 6	14°54	19°18	5°32	7°26	26° 5	n.a.	T 20
F 21	11 40 11	26°55'48	11♉11	25°41	21°55	6°27	20°38	28°21	21° 6	14°52	19°19	5°D32	7°22	26°12	n.a.	F 21
S 22	11 44 7	27°54'12	23°17	24°58	23° 7	6°52	20°44	28°19	21° 7	14°51	19°20	5°33	7°19	26°18	n.a.	S 22
S 23	11 48 4	28°52'34	5♊36	24°17	24°18	7°16	20°50	28°18	21° 7	14°49	19°21	5°35	7°16	26°25	n.a.	S 23
M24	11 52 0	29°50'54	18°11	23°36	25°30	7°41	20°56	28°17	21° 8	14°48	19°21	5°36	7°13	26°32	n.a.	M24
T 25	11 55 57	0♈49'12	1♋ 8	22°58	26°42	8° 5	21° 3	28°16	21° 8	14°46	19°22	5°R37	7°10	26°38	n.a.	T 25
W26	11 59 53	1°47'28	14°29	22°23	27°53	8°29	21° 9	28°14	21° 8	14°44	19°23	5°36	7° 7	26°45	n.a.	W26
T 27	12 3 50	2°45'41	28°18	21°51	29° 5	8°52	21°16	28°13	21° 8	14°43	19°24	5°34	7° 3	26°52	n.a.	T 27
F 28	12 7 47	3°43'52	12♌34	21°23	0♓17	9°15	21°23	28°11	21° 8	14°41	19°24	5°30	7° 0	26°58	n.a.	F 28
S 29	12 11 43	4°42'01	27°15	20°58	1°28	9°38	21°29	28°10	21°R 8	14°40	19°25	5°26	6°57	27° 5	n.a.	S 29
S 30	12 15 40	5°40'08	12♍16	20°38	2°40	10° 0	21°37	28° 8	21° 8	14°38	19°26	5°22	6°54	27°12	n.a.	S 30
M31	12 19 36	6♈38'13	27♍29	20♓23	3♓52	10♐22	21♊44	28♏ 6	21♐ 8	14♍37	19♉26	5♉18	6♉51	27♓18	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	8s55	20n 3	4n58	0n40	2n25	20s48	0s 2	19s 1	0n46	23n35	0n18	18s20	1n44	23s36	0s12	7n24	1n43	30s 9	7s52	14n 0	14n29	5s44		n.a.
S 2	8 33	14 21	4 31	1 13	2 35	20 37	0 5	19 9	0 45	23 35	0 18	18 20	1 45	23 36	0 12	7 24	1 43	30 9	7 52	13 57	14 28	5 40		n.a.
M 3	8 10	7 44	3 45	1 42	2 45	20 25	0 9	19 17	0 44	23 36	0 18	18 20	1 45	23 36	0 12	7 25	1 43	30 9	7 52	13 54	14 27	5 37		n.a.
T 4	7 48	0 41	2 43	2 8	2 54	20 12	0 12	19 25	0 42	23 36	0 19	18 20	1 45	23 36	0 12	7 26	1 43	30 9	7 53	13 52	14 26	5 34		n.a.
W 5	7 25	6s19	1 30	2 30	3 1	20 0	0 16	19 32	0 41	23 36	0 19	18 20	1 45	23 36	0 12	7 26	1 43	30 9	7 53	13 51	14 25	5 31		n.a.
T 6	7 2	12 49	0 13	2 49	3 8	19 46	0 19	19 40	0 40	23 37	0 19	18 20	1 45	23 36	0 12	7 27	1 43	30 9	7 53	13 50	14 24	5 27		n.a.
F 7	6 40	18 29	1s 3	3 3	3 14	19 32	0 22	19 47	0 39	23 37	0 19	18 20	1 45	23 36	0 12	7 27	1 43	30 9	7 53	13 51	14 23	5 24		n.a.
S 8	6 17	23 0	2 13	3 14	3 18	19 17	0 26	19 55	0 37	23 37	0 19	18 20	1 45	23 36	0 12	7 28	1 43	30 9	7 54	13 51	14 22	5 21		n.a.
S 9	5 54	26 8	3 14	3 21	3 22	19 2	0 29	20 2	0 36	23 38	0 19	18 20	1 45	23 36	0 12	7 29	1 43	30 9	7 54	13 51	14 21	5 18		n.a.
M10	5 31	27 45	4 3	3 24	3 24	18 46	0 32	20 9	0 35	23 38	0 19	18 20	1 45	23 36	0 12	7 29	1 43	30 9	7 54	13 51	14 20	5 14		n.a.
T 11	5 8	27 52	4 38	3 23	3 24	18 30	0 35	20 16	0 33	23 38	0 19	18 20	1 46	23 37	0 12	7 30	1 43	30 9	7 54	13 50	14 18	5 11		n.a.
W12	4 44	26 32	5 0	3 18	3 23	18 13	0 38	20 23	0 32	23 39	0 19	18 20	1 46	23 37	0 12	7 31	1 43	30 9	7 55	13 48	14 17	5 8		n.a.
T 13	4 21	23 58	5 7	3 10	3 21	17 56	0 41	20 30	0 30	23 39	0 19	18 19	1 46	23 37	0 12	7 31	1 43	30 9	7 55	13 46	14 16	5 5		n.a.
F 14	3 58	20 22	5 1	2 57	3 17	17 38	0 44	20 36	0 29	23 40	0 19	18 19	1 46	23 37	0 12	7 32	1 43	30 10	7 55	13 43	14 15	5 1		n.a.
S 15	3 35	15 59	4 41	2 42	3 11	17 20	0 47	20 43	0 27	23 40	0 19	18 19	1 46	23 37	0 12	7 33	1 43	30 10	7 55	13 40	14 14	4 58		n.a.
S 16	3 11	11 1	4 9	2 23	3 4	17 1	0 50	20 50	0 26	23 40	0 19	18 19	1 46	23 37	0 12	7 33	1 43	30 10	7 56	13 38	14 13	4 55		n.a.
M17	2 48	5 40	3 27	2 1	2 55	16 42	0 52	20 56	0 24	23 41	0 19	18 19	1 46	23 37	0 12	7 34	1 43	30 10	7 56	13 35	14 12	4 51		n.a.
T 18	2 24	0 9	2 35	1 37	2 45	16 23	0 55	21 2	0 23	23 41	0 19	18 18	1 46	23 37	0 12	7 35	1 43	30 10	7 56	13 33	14 11	4 48		n.a.
W19	2 1	5n24	1 37	1 11	2 34	16 2	0 57	21 9	0 21	23 42	0 19	18 18	1 46	23 37	0 12	7 35	1 43	30 10	7 56	13 32	14 10	4 45		n.a.
T 20	1 38	10 48	0 34	0 42	2 22	15 42	1 0	21 15	0 19	23 42	0 20	18 18	1 47	23 37	0 12	7 36	1 43	30 10	7 57	13 31	14 9	4 42		n.a.
F 21	1 14	15 51	0n31	0 13	2 8	15 21	1 2	21 21	0 18	23 43	0 20	18 18	1 47	23 37	0 12	7 36	1 43	30 10	7 57	13 31	14 8	4 38		n.a.
S 22	0 51	20 21	1 35	0s17	1 53	14 59	1 5	21 27	0 16	23 43	0 20	18 17	1 47	23 37	0 12	7 37	1 43	30 10	7 57	13 32	14 7	4 35		n.a.
S 23	0 27	24 3	2 37	0 48	1 38	14 38	1 7	21 33	0 14	23 44	0 20	18 17	1 47	23 37	0 12	7 38	1 43	30 11	7 57	13 32	14 6	4 32		n.a.
M24	0 4	26 42	3 32	1 19	1 22	14 15	1 9	21 39	0 12	23 44	0 20	18 16	1 47	23 37	0 12	7 38	1 43	30 11	7 58	13 33	14 5	4 28		n.a.
T 25	0n20	28 1	4 18	1 49	1 6	13 53	1 11	21 45	0 10	23 45	0 20	18 16	1 47	23 37	0 12	7 39	1 43	30 11	7 58	13 33	14 4	4 25		n.a.
W26	0 43	27 45	4 52	2 18	0 49	13 30	1 13	21 50	0 8	23 45	0 20	18 16	1 47	23 37	0 12	7 40	1 43	30 11	7 58	13 33	14 3	4 22		n.a.
T 27	1 7	25 48	5 10	2 46	0 33	13 6	1 15	21 56	0 6	23 46	0 20	18 15	1 47	23 37	0 12	7 40	1 43	30 11	7 58	13 32	14 2	4 18		n.a.
F 28	1 30	22 11	5 10	3 13	0 16	12 42	1 17	22 2	0 4	23 46	0 20	18 15	1 47	23 37	0 12	7 41	1 43	30 11	7 59	13 31	14 1	4 15		n.a.
S 29	1 53	17 6	4 50	3 37	0s 0	12 18	1 19	22 7	0 2	23 47	0 20	18 14	1 47	23 38	0 12	7 41	1 43	30 11	7 59	13 29	14 0	4 12		n.a.
S 30	2 17	10 53	4 10	4 0	0 16	11 54	1 21	22 12	0 0	23 47	0 20	18 14	1 47	23 38	0 12	7 42	1 43	30 12	7 59	13 28	13 59	4 8		n.a.
M31	2n40	3n57	3n12	4s20	0s32	11s29	1s23	22s18	0s 2	23n48	0n20	18s13	1n48	23s38	0s12	7n42	1n43	30s12	8s 0	13n27	13n58	4s 5		n.a.

Julian Day Number = 1650989.5, Delta T = 03h31m02s
Ecliptic obliquity = 23°43'14, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'51, Lahiri = - 6°36'50 Julian Calendar 1 March 193 BCE == Greg. Calendar 27 Feb. 193 BCE

The year -192 astronomical counting style corresponds to year 193 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 193 BCE
geocentric

APRIL 193 BCE (-192) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 23 33	7♈36'17	12♎43	20°R12	5♓ 4	10♐44	21♊51	28°R 4	21°R 8	14°R35	19♑27	5°R16	6♉47	27♓25	n.a.	T 1
W 2	12 27 29	8°34'18	27°49	20♓ 6	6°15	11° 5	21°58	28♏ 2	21♐ 8	14♍34	19°27	5♉14	6°44	27°32	n.a.	W 2
T 3	12 31 26	9°32'18	12♏37	20°D 5	7°27	11°26	22° 6	28° 0	21° 8	14°32	19°28	5°D14	6°41	27°38	n.a.	T 3
F 4	12 35 22	10°30'16	27° 3	20° 9	8°39	11°47	22°14	27°58	21° 7	14°31	19°29	5°15	6°38	27°45	n.a.	F 4
S 5	12 39 19	11°28'13	11♐ 1	20°17	9°51	12° 7	22°22	27°56	21° 7	14°30	19°29	5°17	6°35	27°52	n.a.	S 5
S 6	12 43 16	12°26'09	24°33	20°30	11° 3	12°27	22°29	27°53	21° 7	14°28	19°30	5°18	6°32	27°58	n.a.	S 6
M 7	12 47 12	13°24'03	7♑40	20°48	12°15	12°46	22°38	27°51	21° 6	14°27	19°30	5°R19	6°28	28° 5	n.a.	M 7
T 8	12 51 9	14°21'56	20°25	21°10	13°27	13° 5	22°46	27°48	21° 6	14°25	19°30	5°19	6°25	28°12	n.a.	T 8
W 9	12 55 5	15°19'48	2♒50	21°37	14°39	13°23	22°54	27°46	21° 6	14°24	19°31	5°18	6°22	28°19	n.a.	W 9
T 10	12 59 2	16°17'38	15° 2	22° 8	15°51	13°41	23° 2	27°43	21° 5	14°23	19°31	5°16	6°19	28°25	n.a.	T 10
F 11	13 2 58	17°15'26	27° 2	22°42	17° 3	13°58	23°11	27°40	21° 4	14°21	19°31	5°14	6°16	28°32	n.a.	F 11
S 12	13 6 55	18°13'14	8♓56	23°21	18°15	14°15	23°20	27°38	21° 4	14°20	19°32	5°11	6°12	28°39	n.a.	S 12
S 13	13 10 51	19°11'00	20°45	24° 3	19°27	14°32	23°29	27°35	21° 3	14°19	19°32	5° 9	6° 9	28°45	n.a.	S 13
M14	13 14 48	20° 8'44	2♈34	24°50	20°39	14°48	23°37	27°32	21° 2	14°17	19°32	5° 6	6° 6	28°52	n.a.	M14
T 15	13 18 45	21° 6'27	14°24	25°39	21°51	15° 3	23°46	27°29	21° 2	14°16	19°33	5° 5	6° 3	28°59	n.a.	T 15
W16	13 22 41	22° 4'09	26°17	26°32	23° 3	15°18	23°56	27°26	21° 1	14°15	19°33	5° 4	6° 0	29° 5	n.a.	W16
T 17	13 26 38	23° 1'49	8♉16	27°28	24°16	15°32	24° 5	27°22	21° 0	14°14	19°33	5°D 4	5°57	29°12	n.a.	T 17
F 18	13 30 34	23°59'28	20°23	28°28	25°28	15°46	24°14	27°19	20°59	14°13	19°33	5° 4	5°53	29°19	n.a.	F 18
S 19	13 34 31	24°57'06	2♊40	29°30	26°40	15°59	24°24	27°16	20°58	14°11	19°33	5° 5	5°50	29°25	n.a.	S 19
S 20	13 38 27	25°54'42	15° 9	0♈36	27°52	16°12	24°33	27°12	20°57	14°10	19°33	5° 6	5°47	29°32	n.a.	S 20
M21	13 42 24	26°52'17	27°53	1°44	29° 4	16°24	24°43	27° 9	20°56	14° 9	19°34	5° 7	5°44	29°39	n.a.	M21
T 22	13 46 20	27°49'50	10♋54	2°56	0♈17	16°35	24°52	27° 5	20°55	14° 8	19°34	5° 7	5°41	29°45	n.a.	T 22
W23	13 50 17	28°47'21	24°15	4°10	1°29	16°46	25° 2	27° 2	20°54	14° 7	19°34	5°R 8	5°38	29°52	n.a.	W23
T 24	13 54 14	29°44'51	7♌57	5°26	2°41	16°56	25°12	26°58	20°52	14° 6	19°R34	5° 8	5°34	29°59	n.a.	T 24
F 25	13 58 10	0♉42'19	22° 2	6°46	3°54	17° 6	25°22	26°55	20°51	14° 5	19°34	5° 7	5°31	0♈ 5	n.a.	F 25
S 26	14 2 7	1°39'46	6♍27	8° 8	5° 6	17°15	25°32	26°51	20°50	14° 4	19°34	5° 7	5°28	0°12	n.a.	S 26
S 27	14 6 3	2°37'12	21°10	9°32	6°18	17°23	25°43	26°47	20°49	14° 3	19°33	5° 7	5°25	0°19	n.a.	S 27
M28	14 10 0	3°34'36	6♎ 5	10°59	7°31	17°31	25°53	26°43	20°47	14° 2	19°33	5° 6	5°22	0°25	n.a.	M28
T 29	14 13 56	4°31'59	21° 5	12°29	8°43	17°38	26° 3	26°39	20°46	14° 1	19°33	5° 6	5°18	0°32	n.a.	T 29
W30	14 17 53	5♉29'20	6♏ 2	14♈ 1	9♈55	17♐44	26♊14	26♏36	20♐44	14♍ 0	19♑33	5♉ 6	5♉15	0♈39	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n 3	3s14	2n 0	4s38	0s47	11s 4	1s24	22s23	0s 4	23n48	0n20	18s13	1n48	23s38	0s12	7n43	1n43	30s12	8s 0	13n26	13n56	4s 2		n.a.
W 2	3 26	10 11	0 41	4 54	1 1	10 39	1 26	22 28	0 6	23 49	0 20	18 12	1 48	23 38	0 12	7 44	1 43	30 12	8 0	13 25	13 55	3 59		n.a.
T 3	3 49	16 27	0s40	5 7	1 15	10 13	1 27	22 34	0 9	23 49	0 20	18 12	1 48	23 38	0 12	7 44	1 43	30 12	8 0	13 25	13 54	3 55		n.a.
F 4	4 12	21 37	1 57	5 17	1 28	9 47	1 29	22 39	0 11	23 50	0 20	18 11	1 48	23 38	0 12	7 45	1 43	30 13	8 1	13 26	13 53	3 52		n.a.
S 5	4 35	25 24	3 4	5 25	1 40	9 21	1 30	22 44	0 13	23 50	0 20	18 11	1 48	23 38	0 12	7 45	1 43	30 13	8 1	13 26	13 52	3 49		n.a.
S 6	4 58	27 35	3 59	5 30	1 51	8 55	1 31	22 49	0 16	23 51	0 21	18 10	1 48	23 38	0 12	7 46	1 43	30 13	8 1	13 27	13 51	3 45		n.a.
M 7	5 21	28 9	4 39	5 33	2 2	8 28	1 32	22 54	0 18	23 51	0 21	18 9	1 48	23 38	0 12	7 46	1 43	30 13	8 1	13 27	13 50	3 42		n.a.
T 8	5 44	27 10	5 5	5 33	2 11	8 1	1 33	22 59	0 21	23 52	0 21	18 9	1 48	23 38	0 12	7 47	1 43	30 13	8 2	13 27	13 49	3 39		n.a.
W 9	6 6	24 51	5 15	5 30	2 20	7 34	1 34	23 3	0 23	23 52	0 21	18 8	1 48	23 38	0 13	7 47	1 43	30 14	8 2	13 27	13 48	3 35		n.a.
T 10	6 29	21 27	5 11	5 26	2 28	7 6	1 35	23 8	0 26	23 53	0 21	18 8	1 48	23 38	0 13	7 48	1 43	30 14	8 2	13 26	13 47	3 32		n.a.
F 11	6 51	17 13	4 53	5 18	2 36	6 39	1 36	23 13	0 29	23 53	0 21	18 7	1 48	23 37	0 13	7 48	1 43	30 14	8 3	13 25	13 46	3 29		n.a.
S 12	7 14	12 21	4 22	5 9	2 42	6 11	1 37	23 18	0 31	23 54	0 21	18 6	1 48	23 37	0 13	7 49	1 43	30 14	8 3	13 24	13 45	3 25		n.a.
S 13	7 36	7 5	3 41	4 57	2 48	5 43	1 38	23 23	0 34	23 54	0 21	18 5	1 48	23 37	0 13	7 49	1 43	30 14	8 3	13 23	13 44	3 22		n.a.
M14	7 58	1 34	2 50	4 43	2 52	5 15	1 38	23 27	0 37	23 55	0 21	18 5	1 49	23 37	0 13	7 50	1 43	30 15	8 3	13 23	13 43	3 19		n.a.
T 15	8 20	4n 1	1 52	4 26	2 56	4 47	1 39	23 32	0 40	23 55	0 21	18 4	1 49	23 37	0 13	7 50	1 43	30 15	8 4	13 22	13 42	3 15		n.a.
W16	8 42	9 31	0 48	4 8	3 0	4 18	1 39	23 36	0 43	23 56	0 21	18 3	1 49	23 37	0 13	7 51	1 43	30 15	8 4	13 22	13 41	3 12		n.a.
T 17	9 3	14 43	0n18	3 48	3 2	3 50	1 40	23 41	0 46	23 56	0 21	18 2	1 49	23 37	0 13	7 51	1 43	30 15	8 4	13 22	13 39	3 9		n.a.
F 18	9 25	19 24	1 24	3 26	3 4	3 21	1 40	23 46	0 49	23 57	0 21	18 2	1 49	23 37	0 13	7 52	1 43	30 16	8 5	13 22	13 38	3 5		n.a.
S 19	9 46	23 20	2 27	3 1	3 5	2 52	1 40	23 50	0 52	23 57	0 21	18 1	1 49	23 37	0 13	7 52	1 43	30 16	8 5	13 22	13 37	3 2		n.a.
S 20	10 7	26 16	3 24	2 35	3 5	2 23	1 40	23 55	0 55	23 58	0 21	18 0	1 49	23 37	0 13	7 52	1 43	30 16	8 5	13 22	13 36	2 59		n.a.
M21	10 29	27 55	4 13	2 7	3 5	1 54	1 40	23 59	0 58	23 58	0 21	17 59	1 49	23 37	0 13	7 53	1 43	30 16	8 5	13 23	13 35	2 55		n.a.
T 22	10 49	28 4	4 49	1 38	3 4	1 25	1 40	24 3	1 2	23 59	0 21	17 58	1 49	23 37	0 13	7 53	1 42	30 17	8 6	13 23	13 34	2 52		n.a.
W23	11 10	26 38	5 12	1 7	3 2	0 56	1 40	24 8	1 5	23 59	0 21	17 58	1 49	23 37	0 13	7 54	1 42	30 17	8 6	13 23	13 33	2 49		n.a.
T 24	11 31	23 35	5 17	0 34	3 0	0 27	1 40	24 12	1 8	23 59	0 22	17 57	1 49	23 37	0 13	7 54	1 42	30 17	8 6	13 23	13 32	2 45		n.a.
F 25	11 51	19 6	5 4	0n 1	2 57	0n 2	1 40	24 17	1 12	24 0	0 22	17 56	1 49	23 37	0 13	7 54	1 42	30 18	8 7	13 23	13 31	2 42		n.a.
S 26	12 11	13 26	4 31	0 37	2 53	0 32	1 40	24 21	1 15	24 0	0 22	17 55	1 49	23 37	0 13	7 55	1 42	30 18	8 7	13 23	13 30	2 39		n.a.
S 27	12 31	6 55	3 41	1 14	2 49	1 1	1 39	24 26	1 19	24 1	0 22	17 54	1 49	23 37	0 13	7 55	1 42	30 18	8 7	13 23	13 29	2 35		n.a.
M28	12 51	0s 5	2 34	1 53	2 44	1 30	1 39	24 30	1 23	24 1	0 22	17 53	1 49	23 37	0 13	7 55	1 42	30 18	8 7	13 23	13 28	2 32		n.a.
T 29	13 11	7 8	1 17	2 33	2 39	1 59	1 38	24 34	1 26	24 1	0 22	17 52	1 49	23 37	0 13	7 56	1 42	30 19	8 8	13 23	13 27	2 29		n.a.
W30	13n30	13s46	0s 5	3n15	2s33	2n29	1s38	24s39	1s30	24n 2	0n22	17s51	1n49	23s36	0s13	7n56	1n42	30s19	8s 8	13n23	13n26	2s25		n.a.

Julian Day Number = 1651020.5, Delta T = 03h31m01s
Ecliptic obliquity = 23°43'15, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'46, Lahiri = - 6°36'46 Julian Calendar 1 Apr. 193 BCE == Greg. Calendar 29 March 193 BCE

The year -192 astronomical counting style corresponds to year 193 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 193 BCE
geocentric

MAY 193 BCE (-192) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 21 49	6♉26'41	20♏47	15♈36	11♈ 8	17♐50	26♊24	26°R32	20°R43	13°R59	19°R33	5°R 6	5♉12	0♈45	n.a.	T 1
F 2	14 25 46	7°24'01	5♐14	17°13	12°20	17°55	26°35	26♏28	20♐41	13♍58	19♑33	5♉ 6	5° 9	0°52	n.a.	F 2
S 3	14 29 43	8°21'20	19°18	18°52	13°33	17°59	26°46	26°24	20°40	13°58	19°32	5° 6	5° 6	0°59	n.a.	S 3
S 4	14 33 39	9°18'39	2♑57	20°35	14°45	18° 3	26°56	26°19	20°38	13°57	19°32	5° 6	5° 3	1° 5	n.a.	S 4
M 5	14 37 36	10°15'57	16°10	22°19	15°57	18° 6	27° 7	26°15	20°37	13°56	19°32	5° 5	4°59	1°12	n.a.	M 5
T 6	14 41 32	11°13'14	28°59	24° 6	17°10	18° 8	27°18	26°11	20°35	13°55	19°32	5° 5	4°56	1°19	n.a.	T 6
W 7	14 45 29	12°10'30	11♒28	25°55	18°22	18° 9	27°29	26° 7	20°33	13°55	19°31	5°D 5	4°53	1°25	n.a.	W 7
T 8	14 49 25	13° 7'46	23°40	27°47	19°35	18°R 9	27°40	26° 3	20°32	13°54	19°31	5° 5	4°50	1°32	n.a.	T 8
F 9	14 53 22	14° 5'02	5♓39	29°41	20°48	18° 9	27°52	25°59	20°30	13°53	19°31	5° 5	4°47	1°39	n.a.	F 9
S 10	14 57 18	15° 2'16	17°31	1♉38	22° 0	18° 8	28° 3	25°54	20°28	13°53	19°30	5° 6	4°44	1°45	n.a.	S 10
S 11	15 1 15	15°59'31	29°20	3°36	23°13	18° 7	28°14	25°50	20°26	13°52	19°30	5° 7	4°40	1°52	n.a.	S 11
M12	15 5 12	16°56'45	11♈ 9	5°37	24°25	18° 4	28°26	25°46	20°24	13°52	19°29	5° 8	4°37	1°59	n.a.	M12
T 13	15 9 8	17°53'58	23° 3	7°40	25°38	18° 1	28°37	25°41	20°22	13°51	19°29	5° 9	4°34	2° 5	n.a.	T 13
W14	15 13 5	18°51'11	5♉ 3	9°44	26°51	17°57	28°49	25°37	20°21	13°51	19°28	5°R 9	4°31	2°12	n.a.	W14
T 15	15 17 1	19°48'23	17°13	11°50	28° 3	17°52	29° 0	25°33	20°19	13°50	19°28	5° 9	4°28	2°19	n.a.	T 15
F 16	15 20 58	20°45'35	29°34	13°58	29°16	17°47	29°12	25°28	20°17	13°50	19°27	5° 8	4°24	2°25	n.a.	F 16
S 17	15 24 54	21°42'47	12♊ 7	16° 7	0♉29	17°40	29°23	25°24	20°15	13°49	19°27	5° 6	4°21	2°32	n.a.	S 17
S 18	15 28 51	22°39'58	24°54	18°17	1°42	17°33	29°35	25°20	20°13	13°49	19°26	5° 4	4°18	2°39	n.a.	S 18
M19	15 32 47	23°37'08	7♋55	20°28	2°54	17°26	29°47	25°15	20°11	13°49	19°25	5° 1	4°15	2°45	n.a.	M19
T 20	15 36 44	24°34'18	21°10	22°39	4° 7	17°17	29°59	25°11	20° 8	13°48	19°25	4°59	4°12	2°52	n.a.	T 20
W21	15 40 41	25°31'27	4♌40	24°50	5°20	17° 8	0♋11	25° 6	20° 6	13°48	19°24	4°57	4° 9	2°59	n.a.	W21
T 22	15 44 37	26°28'35	18°24	27° 2	6°33	16°59	0°23	25° 2	20° 4	13°48	19°23	4°56	4° 5	3° 5	n.a.	T 22
F 23	15 48 34	27°25'43	2♍23	29°13	7°46	16°48	0°35	24°58	20° 2	13°48	19°23	4°D55	4° 2	3°12	n.a.	F 23
S 24	15 52 30	28°22'50	16°35	1♊23	8°58	16°37	0°47	24°53	20° 0	13°47	19°22	4°56	3°59	3°19	n.a.	S 24
S 25	15 56 27	29°19'56	0♎59	3°32	10°11	16°26	0°59	24°49	19°58	13°47	19°21	4°57	3°56	3°25	n.a.	S 25
M26	16 0 23	0♊17'02	15°31	5°41	11°24	16°13	1°11	24°44	19°55	13°47	19°21	4°59	3°53	3°32	n.a.	M26
T 27	16 4 20	1°14'08	0♏ 7	7°48	12°37	16° 1	1°24	24°40	19°53	13°47	19°20	5°R 0	3°49	3°39	n.a.	T 27
W28	16 8 16	2°11'13	14°43	9°54	13°50	15°47	1°36	24°36	19°51	13°47	19°19	4°59	3°46	3°45	n.a.	W28
T 29	16 12 13	3° 8'18	29°11	11°59	15° 3	15°33	1°48	24°31	19°49	13°D47	19°18	4°58	3°43	3°52	n.a.	T 29
F 30	16 16 10	4° 5'23	13♐27	14° 1	16°16	15°19	2° 1	24°27	19°46	13°47	19°17	4°55	3°40	3°59	n.a.	F 30
S 31	16 20 6	5♊ 2'28	27♐25	16♊ 2	17♉29	15♐ 4	2♋13	24♏23	19♐44	13♍47	19♑16	4♉51	3♉37	4♈ 5	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13n50	19s32	1s26	3n58	2s26	2n58	1s37	24s43	1s34	24n 2	0n22	17s50	1n49	23s36	0s13	7n56	1n42	30s19	8s 8	13n23	13n25	2s22		n.a.
F 2	14 9	24 3	2 40	4 42	2 19	3 27	1 37	24 47	1 38	24 3	0 22	17 49	1 49	23 36	0 13	7 57	1 42	30 20	8 8	13 23	13 23	2 19		n.a.
S 3	14 27	26 58	3 42	5 27	2 12	3 56	1 36	24 52	1 42	24 3	0 22	17 49	1 49	23 36	0 13	7 57	1 42	30 20	8 9	13 22	13 22	2 15		n.a.
S 4	14 46	28 10	4 29	6 13	2 4	4 25	1 35	24 56	1 46	24 3	0 22	17 48	1 49	23 36	0 13	7 57	1 42	30 20	8 9	13 22	13 21	2 12		n.a.
M 5	15 4	27 42	5 0	7 1	1 55	4 54	1 34	25 0	1 50	24 4	0 22	17 47	1 49	23 36	0 13	7 57	1 42	30 21	8 9	13 22	13 20	2 9		n.a.
T 6	15 22	25 44	5 15	7 49	1 46	5 23	1 33	25 4	1 54	24 4	0 22	17 46	1 49	23 36	0 13	7 58	1 42	30 21	8 10	13 22	13 19	2 5		n.a.
W 7	15 40	22 35	5 15	8 38	1 37	5 52	1 32	25 9	1 58	24 4	0 22	17 45	1 49	23 36	0 13	7 58	1 42	30 21	8 10	13 22	13 18	2 2		n.a.
T 8	15 58	18 31	5 1	9 27	1 27	6 21	1 31	25 13	2 2	24 4	0 22	17 44	1 49	23 36	0 13	7 58	1 42	30 22	8 10	13 22	13 17	1 58		n.a.
F 9	16 15	13 46	4 33	10 17	1 17	6 50	1 30	25 17	2 7	24 5	0 22	17 43	1 49	23 36	0 13	7 58	1 42	30 22	8 10	13 22	13 16	1 55		n.a.
S 10	16 32	8 34	3 54	11 8	1 7	7 18	1 29	25 21	2 11	24 5	0 22	17 42	1 49	23 35	0 13	7 59	1 42	30 22	8 11	13 22	13 15	1 52		n.a.
S 11	16 49	3 6	3 6	11 59	0 56	7 46	1 27	25 25	2 15	24 5	0 23	17 41	1 49	23 35	0 13	7 59	1 42	30 22	8 11	13 23	13 14	1 48		n.a.
M12	17 6	2n29	2 9	12 50	0 46	8 15	1 26	25 30	2 19	24 5	0 23	17 40	1 49	23 35	0 13	7 59	1 42	30 23	8 11	13 23	13 13	1 45		n.a.
T 13	17 22	8 2	1 7	13 41	0 35	8 43	1 25	25 34	2 24	24 5	0 23	17 39	1 49	23 35	0 13	7 59	1 42	30 23	8 11	13 23	13 12	1 42		n.a.
W14	17 38	13 21	0 1	14 32	0 24	9 11	1 23	25 38	2 28	24 6	0 23	17 38	1 49	23 35	0 13	7 59	1 42	30 23	8 12	13 24	13 11	1 38		n.a.
T 15	17 54	18 14	1n 6	15 22	0 13	9 38	1 22	25 42	2 33	24 6	0 23	17 37	1 49	23 35	0 13	7 59	1 42	30 24	8 12	13 23	13 9	1 35		n.a.
F 16	18 9	22 25	2 11	16 11	0 2	10 6	1 20	25 46	2 37	24 6	0 23	17 36	1 49	23 35	0 13	7 59	1 42	30 24	8 12	13 23	13 8	1 32		n.a.
S 17	18 24	25 39	3 10	17 0	0n 9	10 33	1 18	25 50	2 42	24 6	0 23	17 35	1 49	23 35	0 13	8 0	1 41	30 24	8 12	13 22	13 7	1 28		n.a.
S 18	18 39	27 38	4 1	17 47	0 19	11 0	1 17	25 53	2 46	24 6	0 23	17 34	1 49	23 34	0 13	8 0	1 41	30 25	8 13	13 22	13 6	1 25		n.a.
M19	18 54	28 9	4 41	18 33	0 30	11 27	1 15	25 57	2 51	24 6	0 23	17 33	1 48	23 34	0 13	8 0	1 41	30 25	8 13	13 21	13 5	1 21		n.a.
T 20	19 8	27 4	5 6	19 17	0 39	11 54	1 13	26 1	2 55	24 6	0 23	17 32	1 48	23 34	0 13	8 0	1 41	30 26	8 13	13 20	13 4	1 18		n.a.
W21	19 22	24 25	5 15	19 59	0 49	12 20	1 12	26 5	3 0	24 6	0 23	17 31	1 48	23 34	0 13	8 0	1 41	30 26	8 14	13 19	13 3	1 15		n.a.
T 22	19 36	20 20	5 6	20 40	0 58	12 46	1 10	26 8	3 5	24 6	0 23	17 30	1 48	23 34	0 13	8 0	1 41	30 26	8 14	13 19	13 2	1 11		n.a.
F 23	19 49	15 5	4 40	21 18	1 7	13 12	1 8	26 12	3 9	24 6	0 23	17 29	1 48	23 34	0 13	8 0	1 41	30 27	8 14	13 19	13 1	1 8		n.a.
S 24	20 2	8 58	3 56	21 54	1 14	13 37	1 6	26 15	3 14	24 6	0 23	17 28	1 48	23 34	0 13	8 0	1 41	30 27	8 14	13 19	13 0	1 5		n.a.
S 25	20 15	2 18	2 56	22 27	1 22	14 2	1 4	26 18	3 18	24 6	0 23	17 27	1 48	23 33	0 13	8 0	1 41	30 27	8 14	13 20	12 59	1 1		n.a.
M26	20 27	4s34	1 45	22 57	1 29	14 27	1 2	26 21	3 23	24 6	0 24	17 26	1 48	23 33	0 13	8 0	1 41	30 28	8 15	13 20	12 57	0 58		n.a.
T 27	20 39	11 14	0 27	23 25	1 35	14 51	1 0	26 25	3 27	24 6	0 24	17 25	1 48	23 33	0 13	8 0	1 41	30 28	8 15	13 20	12 56	0 55		n.a.
W28	20 51	17 17	0s53	23 51	1 40	15 15	0 58	26 27	3 32	24 6	0 24	17 24	1 48	23 33	0 13	8 0	1 41	30 28	8 15	13 20	12 55	0 51		n.a.
T 29	21 2	22 18	2 9	24 13	1 45	15 39	0 56	26 30	3 36	24 6	0 24	17 23	1 48	23 33	0 13	8 0	1 41	30 29	8 15	13 20	12 54	0 48		n.a.
F 30	21 13	25 55	3 15	24 33	1 48	16 3	0 54	26 33	3 40	24 6	0 24	17 22	1 48	23 33	0 13	8 0	1 41	30 29	8 16	13 19	12 53	0 44		n.a.
S 31	21n23	27s50	4s 8	24n50	1n52	16n26	0s51	26s36	3s45	24n 6	0n24	17s21	1n47	23s32	0s13	8n 0	1n41	30s29	8s16	13n17	12n52	0s41		n.a.

Julian Day Number = 1651050.5, Delta T = 03h31m00s
Ecliptic obliquity = 23°43'14, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'42, Lahiri = - 6°36'42 Julian Calendar 1 May 193 BCE == Greg. Calendar 28 Apr. 193 BCE

The year -192 astronomical counting style corresponds to year 193 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 193 BCE
geocentric

JUNE 193 BCE (-192) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 24 3	5♊59'34	11♉ 2	18♊ 1	18♉42	14°R49	2♋26	24°R19	19°R42	13♍47	19°R16	4°R46	3♉34	4♈12	n.a.	S 1
M 2	16 27 59	6°56'39	24°15	19°59	19°55	14♐34	2°38	24♏14	19♐39	13°47	19♉15	4♉42	3°30	4°19	n.a.	M 2
T 3	16 31 56	7°53'45	7♒ 7	21°54	21° 8	14°18	2°51	24°10	19°37	13°47	19°14	4°37	3°27	4°25	n.a.	T 3
W 4	16 35 52	8°50'51	19°37	23°47	22°21	14° 2	3° 3	24° 6	19°35	13°48	19°13	4°34	3°24	4°32	n.a.	W 4
T 5	16 39 49	9°47'57	1♓50	25°39	23°34	13°45	3°16	24° 2	19°32	13°48	19°12	4°33	3°21	4°39	n.a.	T 5
F 6	16 43 46	10°45'04	13°51	27°28	24°48	13°29	3°29	23°58	19°30	13°48	19°11	4°D32	3°18	4°45	n.a.	F 6
S 7	16 47 42	11°42'11	25°43	29°15	26° 1	13°12	3°41	23°53	19°28	13°48	19°10	4°33	3°15	4°52	n.a.	S 7
S 8	16 51 39	12°39'18	7♈32	1♋ 1	27°14	12°55	3°54	23°49	19°25	13°49	19° 9	4°35	3°11	4°59	n.a.	S 8
M 9	16 55 35	13°36'26	19°23	2°44	28°27	12°38	4° 7	23°45	19°23	13°49	19° 8	4°36	3° 8	5° 5	n.a.	M 9
T 10	16 59 32	14°33'35	1♉21	4°26	29°40	12°20	4°20	23°41	19°20	13°49	19° 7	4°R37	3° 5	5°12	n.a.	T 10
W11	17 3 28	15°30'44	13°28	6° 5	0♊54	12° 3	4°33	23°37	19°18	13°50	19° 6	4°37	3° 2	5°19	n.a.	W11
T 12	17 7 25	16°27'53	25°49	7°43	2° 7	11°46	4°45	23°34	19°16	13°50	19° 5	4°35	2°59	5°25	n.a.	T 12
F 13	17 11 21	17°25'04	8♊26	9°18	3°20	11°29	4°58	23°30	19°13	13°51	19° 3	4°31	2°55	5°32	n.a.	F 13
S 14	17 15 18	18°22'14	21°18	10°51	4°34	11°12	5°11	23°26	19°11	13°51	19° 2	4°25	2°52	5°39	n.a.	S 14
S 15	17 19 15	19°19'25	4♋28	12°23	5°47	10°56	5°24	23°22	19° 8	13°52	19° 1	4°18	2°49	5°45	n.a.	S 15
M16	17 23 11	20°16'37	17°52	13°52	7° 0	10°39	5°37	23°19	19° 6	13°52	19° 0	4°10	2°46	5°52	n.a.	M16
T 17	17 27 8	21°13'49	1♌29	15°19	8°14	10°23	5°50	23°15	19° 3	13°53	18°59	4° 3	2°43	5°59	n.a.	T 17
W18	17 31 4	22°11'01	15°17	16°45	9°27	10° 7	6° 3	23°11	19° 1	13°53	18°58	3°57	2°40	6° 5	n.a.	W18
T 19	17 35 1	23° 8'14	29°13	18° 8	10°41	9°52	6°16	23° 8	18°59	13°54	18°57	3°53	2°36	6°12	n.a.	T 19
F 20	17 38 57	24° 5'26	13♍16	19°29	11°54	9°37	6°29	23° 4	18°56	13°55	18°55	3°51	2°33	6°19	n.a.	F 20
S 21	17 42 54	25° 2'40	27°24	20°47	13° 8	9°22	6°42	23° 1	18°54	13°55	18°54	3°D50	2°30	6°25	n.a.	S 21
S 22	17 46 51	25°59'53	11♎35	22° 4	14°21	9° 8	6°55	22°58	18°51	13°56	18°53	3°51	2°27	6°32	n.a.	S 22
M23	17 50 47	26°57'07	25°47	23°18	15°35	8°55	7° 9	22°54	18°49	13°57	18°52	3°52	2°24	6°39	n.a.	M23
T 24	17 54 44	27°54'21	10♏ 0	24°30	16°49	8°42	7°22	22°51	18°47	13°58	18°51	3°R52	2°21	6°45	n.a.	T 24
W25	17 58 40	28°51'36	24°10	25°39	18° 2	8°30	7°35	22°48	18°44	13°59	18°49	3°50	2°17	6°52	n.a.	W25
T 26	18 2 37	29°48'52	8♐14	26°46	19°16	8°18	7°48	22°45	18°42	13°59	18°48	3°46	2°14	6°59	n.a.	T 26
F 27	18 6 33	0♋46'09	22° 8	27°50	20°29	8° 7	8° 1	22°42	18°40	14° 0	18°47	3°40	2°11	7° 5	n.a.	F 27
S 28	18 10 30	1°43'26	5♑49	28°52	21°43	7°57	8°14	22°39	18°37	14° 1	18°46	3°31	2° 8	7°12	n.a.	S 28
S 29	18 14 26	2°40'44	19°14	29°51	22°57	7°47	8°28	22°36	18°35	14° 2	18°44	3°22	2° 5	7°19	n.a.	S 29
M30	18 18 23	3♋38'03	2♒20	0♌46	24♊11	7♐38	8♋41	22♏33	18♐33	14♍ 3	18♑43	3♉12	2♉ 1	7♈25	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n34	28s 0	4s46	25n 4	1n54	16n48	0s49	26s38	3s49	24n 6	0n24	17s20	1n47	23s32	0s13	8n 0	1n41	30s30	8s16	13n16	12n51	0s38		n.a.
M 2	21 43	26 33	5 7	25 16	1 56	17 10	0 47	26 40	3 53	24 6	0 24	17 19	1 47	23 32	0 13	8 0	1 41	30 30	8 16	13 14	12 50	0 34		n.a.
T 3	21 53	23 44	5 12	25 25	1 57	17 32	0 45	26 43	3 57	24 5	0 24	17 18	1 47	23 32	0 13	8 0	1 41	30 30	8 17	13 13	12 49	0 31		n.a.
W 4	22 2	19 52	5 2	25 32	1 58	17 53	0 42	26 45	4 1	24 5	0 24	17 17	1 47	23 32	0 13	7 59	1 41	30 31	8 17	13 12	12 48	0 27		n.a.
T 5	22 11	15 15	4 38	25 36	1 57	18 14	0 40	26 46	4 5	24 5	0 24	17 16	1 47	23 32	0 13	7 59	1 41	30 31	8 17	13 11	12 47	0 24		n.a.
F 6	22 19	10 8	4 2	25 38	1 57	18 35	0 38	26 48	4 9	24 5	0 24	17 16	1 47	23 31	0 13	7 59	1 41	30 32	8 17	13 11	12 45	0 21		n.a.
S 7	22 27	4 43	3 16	25 38	1 55	18 55	0 35	26 50	4 13	24 4	0 24	17 15	1 47	23 31	0 13	7 59	1 40	30 32	8 17	13 11	12 44	0 17		n.a.
S 8	22 35	0n51	2 22	25 36	1 53	19 14	0 33	26 51	4 16	24 4	0 24	17 14	1 47	23 31	0 13	7 59	1 40	30 32	8 18	13 12	12 43	0 14		n.a.
M 9	22 42	6 25	1 22	25 32	1 50	19 33	0 31	26 52	4 20	24 4	0 24	17 13	1 46	23 31	0 13	7 59	1 40	30 33	8 18	13 12	12 42	0 11		n.a.
T 10	22 49	11 48	0 18	25 26	1 47	19 51	0 28	26 53	4 23	24 3	0 25	17 12	1 46	23 31	0 13	7 59	1 40	30 33	8 18	13 13	12 41	0 7		n.a.
W11	22 55	16 50	0n48	25 18	1 43	20 9	0 26	26 54	4 27	24 3	0 25	17 11	1 46	23 30	0 13	7 58	1 40	30 33	8 18	13 13	12 40	0 4		n.a.
T 12	23 1	21 15	1 52	25 8	1 39	20 27	0 23	26 55	4 30	24 3	0 25	17 10	1 46	23 30	0 13	7 58	1 40	30 34	8 18	13 12	12 39	0 0		n.a.
F 13	23 7	24 49	2 53	24 57	1 34	20 44	0 21	26 56	4 33	24 2	0 25	17 10	1 46	23 30	0 14	7 58	1 40	30 34	8 19	13 11	12 38	0n 3		n.a.
S 14	23 12	27 11	3 45	24 45	1 29	21 0	0 19	26 56	4 36	24 2	0 25	17 9	1 46	23 30	0 14	7 58	1 40	30 34	8 19	13 9	12 37	0 6		n.a.
S 15	23 17	28 6	4 27	24 31	1 23	21 16	0 16	26 56	4 39	24 1	0 25	17 8	1 46	23 30	0 14	7 57	1 40	30 35	8 19	13 6	12 36	0 10		n.a.
M16	23 22	27 23	4 55	24 15	1 16	21 31	0 14	26 57	4 41	24 1	0 25	17 7	1 45	23 30	0 14	7 57	1 40	30 35	8 19	13 4	12 34	0 13		n.a.
T 17	23 26	25 3	5 7	23 59	1 9	21 45	0 11	26 57	4 44	24 0	0 25	17 6	1 45	23 29	0 14	7 57	1 40	30 35	8 19	13 1	12 33	0 16		n.a.
W18	23 29	21 14	5 2	23 41	1 2	21 59	0 9	26 57	4 46	24 0	0 25	17 6	1 45	23 29	0 14	7 57	1 40	30 36	8 19	12 59	12 32	0 20		n.a.
T 19	23 32	16 13	4 38	23 23	0 54	22 12	0 6	26 57	4 49	23 59	0 25	17 5	1 45	23 29	0 14	7 56	1 40	30 36	8 20	12 58	12 31	0 23		n.a.
F 20	23 35	10 18	3 58	23 3	0 46	22 25	0 4	26 56	4 51	23 59	0 25	17 4	1 45	23 29	0 14	7 56	1 40	30 36	8 20	12 57	12 30	0 27		n.a.
S 21	23 38	3 50	3 3	22 43	0 38	22 37	0 1	26 56	4 53	23 58	0 25	17 3	1 45	23 29	0 14	7 56	1 40	30 37	8 20	12 57	12 29	0 30		n.a.
S 22	23 40	2s51	1 57	22 22	0 29	22 48	0n 1	26 56	4 55	23 58	0 26	17 3	1 44	23 28	0 14	7 55	1 40	30 37	8 20	12 57	12 28	0 33		n.a.
M23	23 41	9 25	0 43	22 0	0 19	22 59	0 3	26 55	4 56	23 57	0 26	17 2	1 44	23 28	0 14	7 55	1 40	30 37	8 20	12 57	12 27	0 37		n.a.
T 24	23 42	15 30	0s33	21 38	0 10	23 9	0 6	26 55	4 58	23 56	0 26	17 1	1 44	23 28	0 14	7 55	1 40	30 38	8 20	12 57	12 26	0 40		n.a.
W25	23 43	20 45	1 47	21 15	0s 0	23 19	0 8	26 54	4 59	23 56	0 26	17 1	1 44	23 28	0 14	7 54	1 40	30 38	8 21	12 57	12 25	0 44		n.a.
T 26	23 43	24 47	2 53	20 52	0 11	23 27	0 11	26 53	5 1	23 55	0 26	17 0	1 44	23 28	0 14	7 54	1 40	30 38	8 21	12 55	12 23	0 47		n.a.
F 27	23 43	27 17	3 49	20 29	0 21	23 36	0 13	26 53	5 2	23 54	0 26	17 0	1 44	23 27	0 14	7 53	1 40	30 39	8 21	12 53	12 22	0 50		n.a.
S 28	23 43	28 5	4 30	20 6	0 32	23 43	0 15	26 52	5 3	23 54	0 26	16 59	1 43	23 27	0 14	7 53	1 39	30 39	8 21	12 50	12 21	0 54		n.a.
S 29	23 42	27 11	4 55	19 43	0 44	23 50	0 18	26 51	5 4	23 53	0 26	16 59	1 43	23 27	0 14	7 53	1 39	30 39	8 21	12 47	12 20	0 57		n.a.
M30	23n40	24s48	5s 4	19n19	0s55	23n56	0n20	26s50	5s 4	23n52	0n26	16s58	1n43	23s27	0s14	7n52	1n39	30s40	8s21	12n43	12n19	1n 1		n.a.

Julian Day Number = 1651081.5, Delta T = 03h30m59s
Ecliptic obliquity = 23°43'14, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'38, Lahiri = - 6°36'38 Julian Calendar 1 June 193 BCE == Greg. Calendar 29 May 193 BCE

The year -192 astronomical counting style corresponds to year 193 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 193 BCE
geocentric

JULY 193 BCE (-192) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 22 20	4♋35'24	15♒ 7	1♌39	25♊24	7°R30	8♋54	22°R31	18°R30	14♍ 4	18°R42	3°R 2	1♉58	7♈32	n.a.	T 1
W 2	18 26 16	5°32'45	27°35	2°29	26°38	7♐22	9° 7	22♏28	18♐28	14° 5	18♑40	2♉55	1°55	7°39	n.a.	W 2
T 3	18 30 13	6°30'08	9♓47	3°15	27°52	7°15	9°20	22°25	18°26	14° 6	18°39	2°49	1°52	7°45	n.a.	T 3
F 4	18 34 9	7°27'32	21°47	3°58	29° 6	7° 9	9°34	22°23	18°24	14° 7	18°38	2°46	1°49	7°52	n.a.	F 4
S 5	18 38 6	8°24'57	3♈39	4°37	0♋20	7° 4	9°47	22°21	18°21	14° 9	18°36	2°D44	1°46	7°59	n.a.	S 5
S 6	18 42 2	9°22'23	15°28	5°12	1°34	7° 0	10° 0	22°18	18°19	14°10	18°35	2°44	1°42	8° 5	n.a.	S 6
M 7	18 45 59	10°19'51	27°20	5°43	2°48	6°56	10°13	22°16	18°17	14°11	18°34	2°R45	1°39	8°12	n.a.	M 7
T 8	18 49 55	11°17'21	9♉19	6°10	4° 1	6°53	10°26	22°14	18°15	14°12	18°32	2°45	1°36	8°18	n.a.	T 8
W 9	18 53 52	12°14'52	21°31	6°32	5°15	6°51	10°40	22°12	18°13	14°13	18°31	2°43	1°33	8°25	n.a.	W 9
T 10	18 57 49	13°12'24	4♊ 0	6°50	6°29	6°50	10°53	22°10	18°10	14°15	18°30	2°39	1°30	8°32	n.a.	T 10
F 11	19 1 45	14° 9'58	16°49	7° 3	7°44	6°D50	11° 6	22° 8	18° 8	14°16	18°28	2°33	1°27	8°38	n.a.	F 11
S 12	19 5 42	15° 7'33	29°59	7°11	8°58	6°50	11°19	22° 6	18° 6	14°17	18°27	2°24	1°23	8°45	n.a.	S 12
S 13	19 9 38	16° 5'10	13♋30	7°R13	10°12	6°52	11°33	22° 4	18° 4	14°19	18°26	2°14	1°20	8°52	n.a.	S 13
M14	19 13 35	17° 2'48	27°19	7°10	11°26	6°54	11°46	22° 3	18° 2	14°20	18°24	2° 2	1°17	8°58	n.a.	M14
T 15	19 17 31	18° 0'28	11♌23	7° 2	12°40	6°57	11°59	22° 1	18° 0	14°21	18°23	1°51	1°14	9° 5	n.a.	T 15
W16	19 21 28	18°58'08	25°36	6°48	13°54	7° 1	12°12	22° 0	17°58	14°23	18°22	1°41	1°11	9°12	n.a.	W16
T 17	19 25 25	19°55'50	9♍53	6°29	15° 8	7° 5	12°25	21°59	17°56	14°24	18°20	1°34	1° 7	9°18	n.a.	T 17
F 18	19 29 21	20°53'33	24°11	6° 4	16°23	7°11	12°38	21°57	17°54	14°26	18°19	1°30	1° 4	9°25	n.a.	F 18
S 19	19 33 18	21°51'17	8♎25	5°33	17°37	7°17	12°52	21°56	17°53	14°27	18°18	1°28	1° 1	9°32	n.a.	S 19
S 20	19 37 14	22°49'02	22°34	4°58	18°51	7°24	13° 5	21°55	17°51	14°29	18°16	1°27	0°58	9°38	n.a.	S 20
M21	19 41 11	23°46'49	6♏36	4°17	20° 5	7°32	13°18	21°54	17°49	14°30	18°15	1°27	0°55	9°45	n.a.	M21
T 22	19 45 7	24°44'37	20°31	3°33	21°20	7°41	13°31	21°53	17°47	14°32	18°14	1°26	0°52	9°52	n.a.	T 22
W23	19 49 4	25°42'26	4♐19	2°44	22°34	7°50	13°44	21°52	17°45	14°33	18°12	1°24	0°48	9°58	n.a.	W23
T 24	19 53 0	26°40'16	17°59	1°53	23°48	8° 1	13°57	21°52	17°44	14°35	18°11	1°18	0°45	10° 5	n.a.	T 24
F 25	19 56 57	27°38'09	1♑29	1° 0	25° 3	8°11	14°10	21°51	17°42	14°37	18°10	1°10	0°42	10°12	n.a.	F 25
S 26	20 0 54	28°36'02	14°47	0° 5	26°17	8°23	14°23	21°51	17°40	14°38	18° 8	0°59	0°39	10°18	n.a.	S 26
S 27	20 4 50	29°33'57	27°53	29♋11	27°31	8°36	14°36	21°50	17°39	14°40	18° 7	0°46	0°36	10°25	n.a.	S 27
M28	20 8 47	0♌31'54	10♒44	28°18	28°46	8°49	14°49	21°50	17°37	14°42	18° 6	0°33	0°33	10°32	n.a.	M28
T 29	20 12 43	1°29'52	23°20	27°27	0♌ 0	9° 2	15° 2	21°50	17°36	14°44	18° 4	0°21	0°29	10°38	n.a.	T 29
W30	20 16 40	2°27'53	5♓41	26°40	1°15	9°17	15°15	21°50	17°34	14°45	18° 3	0°10	0°26	10°45	n.a.	W30
T 31	20 20 36	3♌25'55	17♓48	25♋57	2♌29	9♐32	15♋28	21°D49	17♐33	14♍47	18♑ 2	0♉ 2	0♉23	10♈52	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23n38	21s13	4s58	18n56	1s 7	24n 1	0n22	26s50	5s 5	23n51	0n26	16s57	1n43	23s27	0s14	7n52	1n39	30s40	8s21	12n40	12n18	1n 4		n.a.
W 2	23 36	16 46	4 37	18 34	1 19	24 5	0 25	26 49	5 6	23 50	0 26	16 57	1 43	23 26	0 14	7 51	1 39	30 40	8 21	12 37	12 17	1 7		n.a.
T 3	23 34	11 44	4 4	18 11	1 31	24 9	0 27	26 48	5 6	23 50	0 26	16 57	1 42	23 26	0 14	7 51	1 39	30 41	8 22	12 36	12 16	1 11		n.a.
F 4	23 30	6 21	3 20	17 49	1 43	24 12	0 29	26 47	5 6	23 49	0 27	16 56	1 42	23 26	0 14	7 50	1 39	30 41	8 22	12 34	12 15	1 14		n.a.
S 5	23 27	0 48	2 29	17 28	1 56	24 15	0 32	26 47	5 6	23 48	0 27	16 56	1 42	23 26	0 14	7 50	1 39	30 41	8 22	12 34	12 13	1 18		n.a.
S 6	23 23	4n46	1 31	17 7	2 8	24 16	0 34	26 46	5 7	23 47	0 27	16 55	1 42	23 26	0 14	7 49	1 39	30 42	8 22	12 34	12 12	1 21		n.a.
M 7	23 19	10 12	0 29	16 48	2 20	24 17	0 36	26 45	5 6	23 46	0 27	16 55	1 42	23 25	0 14	7 49	1 39	30 42	8 22	12 34	12 11	1 24		n.a.
T 8	23 14	15 19	0n35	16 29	2 33	24 18	0 38	26 45	5 6	23 45	0 27	16 55	1 41	23 25	0 14	7 48	1 39	30 42	8 22	12 34	12 10	1 28		n.a.
W 9	23 9	19 56	1 38	16 12	2 45	24 17	0 40	26 44	5 6	23 44	0 27	16 54	1 41	23 25	0 14	7 48	1 39	30 42	8 22	12 34	12 9	1 31		n.a.
T 10	23 3	23 47	2 38	15 55	2 57	24 16	0 42	26 43	5 6	23 43	0 27	16 54	1 41	23 25	0 14	7 47	1 39	30 43	8 22	12 32	12 8	1 35		n.a.
F 11	22 57	26 34	3 31	15 41	3 9	24 14	0 44	26 43	5 5	23 42	0 27	16 54	1 41	23 25	0 14	7 47	1 39	30 43	8 22	12 30	12 7	1 38		n.a.
S 12	22 51	27 58	4 15	15 27	3 21	24 11	0 46	26 43	5 5	23 41	0 27	16 53	1 41	23 24	0 14	7 46	1 39	30 43	8 22	12 27	12 6	1 41		n.a.
S 13	22 44	27 46	4 46	15 16	3 32	24 7	0 48	26 42	5 4	23 40	0 27	16 53	1 40	23 24	0 14	7 46	1 39	30 44	8 23	12 23	12 5	1 45		n.a.
M14	22 37	25 51	5 0	15 6	3 43	24 3	0 50	26 42	5 3	23 39	0 28	16 53	1 40	23 24	0 14	7 45	1 39	30 44	8 23	12 19	12 3	1 48		n.a.
T 15	22 30	22 19	4 57	14 58	3 53	23 58	0 52	26 42	5 3	23 38	0 28	16 53	1 40	23 24	0 14	7 45	1 39	30 44	8 23	12 15	12 2	1 51		n.a.
W16	22 22	17 27	4 36	14 53	4 3	23 53	0 54	26 41	5 2	23 37	0 28	16 53	1 40	23 24	0 14	7 44	1 39	30 44	8 23	12 12	12 1	1 55		n.a.
T 17	22 13	11 36	3 57	14 49	4 11	23 46	0 56	26 41	5 1	23 36	0 28	16 52	1 40	23 24	0 14	7 43	1 39	30 45	8 23	12 10	12 0	1 58		n.a.
F 18	22 5	5 8	3 4	14 48	4 19	23 39	0 57	26 41	5 0	23 34	0 28	16 52	1 39	23 23	0 14	7 43	1 39	30 45	8 23	12 8	11 59	2 2		n.a.
S 19	21 55	1s34	1 59	14 49	4 25	23 31	0 59	26 41	4 59	23 33	0 28	16 52	1 39	23 23	0 14	7 42	1 39	30 45	8 23	12 7	11 58	2 5		n.a.
S 20	21 46	8 9	0 47	14 53	4 30	23 23	1 1	26 42	4 58	23 32	0 28	16 52	1 39	23 23	0 14	7 42	1 39	30 45	8 23	12 7	11 57	2 8		n.a.
M21	21 36	14 18	0s27	14 59	4 33	23 14	1 2	26 42	4 57	23 31	0 28	16 52	1 39	23 23	0 14	7 41	1 39	30 46	8 23	12 7	11 56	2 12		n.a.
T 22	21 26	19 41	1 39	15 8	4 35	23 4	1 4	26 42	4 55	23 30	0 28	16 52	1 38	23 23	0 14	7 40	1 38	30 46	8 23	12 7	11 54	2 15		n.a.
W23	21 15	23 57	2 44	15 19	4 35	22 53	1 5	26 42	4 54	23 28	0 28	16 52	1 38	23 23	0 14	7 40	1 38	30 46	8 23	12 6	11 53	2 19		n.a.
T 24	21 4	26 49	3 39	15 32	4 34	22 42	1 7	26 43	4 53	23 27	0 29	16 52	1 38	23 22	0 14	7 39	1 38	30 46	8 23	12 4	11 52	2 22		n.a.
F 25	20 53	28 4	4 21	15 47	4 30	22 30	1 8	26 43	4 51	23 26	0 29	16 52	1 38	23 22	0 14	7 38	1 38	30 46	8 23	12 1	11 51	2 25		n.a.
S 26	20 41	27 40	4 48	16 4	4 25	22 17	1 10	26 44	4 50	23 25	0 29	16 52	1 38	23 22	0 14	7 38	1 38	30 47	8 23	11 57	11 50	2 29		n.a.
S 27	20 29	25 43	5 0	16 22	4 17	22 4	1 11	26 44	4 48	23 23	0 29	16 52	1 37	23 22	0 14	7 37	1 38	30 47	8 23	11 53	11 49	2 32		n.a.
M28	20 16	22 29	4 55	16 42	4 8	21 50	1 12	26 45	4 47	23 22	0 29	16 52	1 37	23 22	0 14	7 36	1 38	30 47	8 23	11 48	11 48	2 36		n.a.
T 29	20 4	18 15	4 37	17 3	3 57	21 35	1 13	26 46	4 45	23 21	0 29	16 53	1 37	23 22	0 14	7 35	1 38	30 47	8 23	11 44	11 47	2 39		n.a.
W30	19 50	13 20	4 5	17 25	3 44	21 20	1 15	26 46	4 44	23 19	0 29	16 53	1 37	23 22	0 14	7 35	1 38	30 47	8 23	11 40	11 46	2 42		n.a.
T 31	19n37	7s59	3s23	17n47	3s30	21n 4	1n16	26s47	4s42	23n18	0n29	16s53	1n37	23s21	0s14	7n34	1n38	30s48	8s23	11n37	11n44	2n46		n.a.

Julian Day Number = 1651111.5, Delta T = 03h30m58s
Ecliptic obliquity = 23°43'14, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'34, Lahiri = - 6°36'33 Julian Calendar 1 July 193 BCE == Greg. Calendar 28 June 193 BCE

The year -192 astronomical counting style corresponds to year 193 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 193 BCE
geocentric

AUGUST 193 BCE (-192) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 24 33	4♌23'59	29♓45	25°R19	3♌44	9♐48	15♋41	21♏50	17°R31	14♍49	18°R 1	29°R57	0♉20	10♈58	n.a.	F 1
S 2	20 28 29	5°22'05	11♈35	24♋48	4°58	10° 4	15°53	21°50	17♐30	14°51	17♑59	29♈54	0°17	11° 5	n.a.	S 2
S 3	20 32 26	6°20'13	23°23	24°24	6°13	10°21	16° 6	21°50	17°29	14°52	17°58	29°53	0°13	11°12	n.a.	S 3
M 4	20 36 22	7°18'23	5♉14	24° 8	7°27	10°39	16°19	21°50	17°27	14°54	17°57	29°53	0°10	11°18	n.a.	M 4
T 5	20 40 19	8°16'35	17°12	24°D 0	8°42	10°57	16°32	21°51	17°26	14°56	17°56	29°52	0° 7	11°25	n.a.	T 5
W 6	20 44 16	9°14'50	29°25	24° 1	9°56	11°16	16°44	21°51	17°25	14°58	17°54	29°51	0° 4	11°32	n.a.	W 6
T 7	20 48 12	10°13'06	11♊57	24°11	11°11	11°36	16°57	21°52	17°24	15° 0	17°53	29°48	0° 1	11°38	n.a.	T 7
F 8	20 52 9	11°11'25	24°51	24°29	12°26	11°56	17°10	21°53	17°23	15° 2	17°52	29°42	29♈58	11°45	n.a.	F 8
S 9	20 56 5	12° 9'46	8♋10	24°56	13°40	12°16	17°22	21°54	17°21	15° 4	17°51	29°33	29°54	11°51	n.a.	S 9
S 10	21 0 2	13° 8'09	21°55	25°32	14°55	12°37	17°35	21°55	17°20	15° 6	17°49	29°23	29°51	11°58	n.a.	S 10
M11	21 3 58	14° 6'34	6♌ 4	26°16	16°10	12°59	17°47	21°56	17°19	15° 8	17°48	29°11	29°48	12° 5	n.a.	M11
T 12	21 7 55	15° 5'01	20°30	27° 8	17°25	13°21	18° 0	21°57	17°19	15°10	17°47	29° 0	29°45	12°11	n.a.	T 12
W13	21 11 51	16° 3'30	5♍ 9	28° 7	18°39	13°44	18°12	21°58	17°18	15°12	17°46	28°51	29°42	12°18	n.a.	W13
T 14	21 15 48	17° 2'01	19°52	29°14	19°54	14° 7	18°24	21°59	17°17	15°14	17°45	28°43	29°39	12°25	n.a.	T 14
F 15	21 19 45	18° 0'34	4♎31	0♌27	21° 9	14°31	18°37	22° 1	17°16	15°16	17°44	28°39	29°35	12°31	n.a.	F 15
S 16	21 23 41	18°59'08	19° 2	1°46	22°24	14°56	18°49	22° 2	17°15	15°18	17°43	28°37	29°32	12°38	n.a.	S 16
S 17	21 27 38	19°57'44	3♏20	3°11	23°38	15°20	19° 1	22° 4	17°15	15°20	17°41	28°D37	29°29	12°45	n.a.	S 17
M18	21 31 34	20°56'22	17°24	4°40	24°53	15°46	19°13	22° 5	17°14	15°22	17°40	28°R37	29°26	12°51	n.a.	M18
T 19	21 35 31	21°55'02	1♐14	6°14	26° 8	16°11	19°26	22° 7	17°13	15°24	17°39	28°37	29°23	12°58	n.a.	T 19
W20	21 39 27	22°53'43	14°49	7°51	27°23	16°37	19°38	22° 9	17°13	15°26	17°38	28°35	29°19	13° 5	n.a.	W20
T 21	21 43 24	23°52'27	28°10	9°31	28°38	17° 4	19°50	22°11	17°12	15°28	17°37	28°30	29°16	13°11	n.a.	T 21
F 22	21 47 20	24°51'12	11♑19	11°14	29°52	17°31	20° 2	22°13	17°12	15°30	17°36	28°23	29°13	13°18	n.a.	F 22
S 23	21 51 17	25°49'59	24°16	12°58	1♍ 7	17°58	20°13	22°15	17°11	15°33	17°35	28°14	29°10	13°25	n.a.	S 23
S 24	21 55 14	26°48'48	7♒ 1	14°45	2°22	18°26	20°25	22°18	17°11	15°35	17°34	28° 3	29° 7	13°31	n.a.	S 24
M25	21 59 10	27°47'39	19°34	16°32	3°37	18°54	20°37	22°20	17°11	15°37	17°33	27°52	29° 4	13°38	n.a.	M25
T 26	22 3 7	28°46'31	1♓55	18°21	4°52	19°23	20°49	22°23	17°10	15°39	17°32	27°42	29° 0	13°45	n.a.	T 26
W27	22 7 3	29°45'26	14° 6	20°10	6° 7	19°52	21° 0	22°25	17°10	15°41	17°31	27°32	28°57	13°51	n.a.	W27
T 28	22 11 0	0♍44'24	26° 6	21°59	7°22	20°21	21°12	22°28	17°10	15°43	17°30	27°26	28°54	13°58	n.a.	T 28
F 29	22 14 56	1°43'23	7♈59	23°49	8°37	20°51	21°23	22°30	17°10	15°45	17°30	27°21	28°51	14° 5	n.a.	F 29
S 30	22 18 53	2°42'25	19°47	25°38	9°51	21°21	21°35	22°33	17°10	15°48	17°29	27°19	28°48	14°11	n.a.	S 30
S 31	22 22 49	3♍41'29	1♉33	27♌28	11♍ 6	21♐51	21♋46	22♏36	17°D10	15♍50	17♑28	27°D19	28♈45	14♈18	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	19n23	2s25	2s32	18n 9	3s14	20n47	1n17	26s48	4s40	23n16	0n29	16s53	1n36	23s21	0s14	7n33	1n38	30s48	8s23	11n35	11n43	2n49		n.a.
S 2	19 9	3n10	1 35	18 30	2 58	20 30	1 18	26 49	4 39	23 15	0 30	16 53	1 36	23 21	0 14	7 33	1 38	30 48	8 23	11 34	11 42	2 53		n.a.
S 3	18 54	8 39	0 34	18 52	2 40	20 12	1 19	26 50	4 37	23 14	0 30	16 54	1 36	23 21	0 14	7 32	1 38	30 48	8 23	11 34	11 41	2 56		n.a.
M 4	18 40	13 52	0n28	19 12	2 22	19 54	1 19	26 51	4 35	23 12	0 30	16 54	1 36	23 21	0 14	7 31	1 38	30 48	8 23	11 34	11 40	2 59		n.a.
T 5	18 25	18 37	1 31	19 31	2 4	19 35	1 20	26 52	4 34	23 11	0 30	16 54	1 35	23 21	0 14	7 30	1 38	30 49	8 23	11 34	11 39	3 3		n.a.
W 6	18 9	22 42	2 30	19 49	1 46	19 16	1 21	26 53	4 32	23 9	0 30	16 55	1 35	23 21	0 14	7 30	1 38	30 49	8 23	11 33	11 38	3 6		n.a.
T 7	17 53	25 51	3 23	20 6	1 27	18 56	1 22	26 54	4 30	23 8	0 30	16 55	1 35	23 21	0 14	7 29	1 38	30 49	8 23	11 32	11 36	3 10		n.a.
F 8	17 37	27 45	4 8	20 20	1 9	18 35	1 22	26 55	4 28	23 6	0 30	16 56	1 35	23 20	0 14	7 28	1 38	30 49	8 23	11 30	11 35	3 13		n.a.
S 9	17 21	28 8	4 41	20 33	0 51	18 14	1 23	26 56	4 26	23 5	0 30	16 56	1 35	23 20	0 14	7 27	1 38	30 49	8 23	11 27	11 34	3 16		n.a.
S 10	17 4	26 50	4 59	20 43	0 34	17 52	1 23	26 57	4 24	23 3	0 31	16 56	1 34	23 20	0 14	7 26	1 38	30 49	8 23	11 23	11 33	3 20		n.a.
M11	16 47	23 48	4 59	20 51	0 18	17 30	1 24	26 58	4 22	23 2	0 31	16 57	1 34	23 20	0 14	7 26	1 38	30 49	8 23	11 19	11 32	3 23		n.a.
T 12	16 30	19 15	4 41	20 56	0 2	17 8	1 24	26 59	4 21	23 0	0 31	16 57	1 34	23 20	0 14	7 25	1 38	30 50	8 23	11 15	11 31	3 27		n.a.
W13	16 13	13 30	4 4	20 59	0n12	16 45	1 24	27 0	4 19	22 59	0 31	16 58	1 34	23 20	0 14	7 24	1 38	30 50	8 23	11 11	11 30	3 30		n.a.
T 14	15 55	6 58	3 10	20 59	0 26	16 21	1 24	27 1	4 17	22 57	0 31	16 58	1 33	23 20	0 14	7 23	1 38	30 50	8 23	11 9	11 29	3 33		n.a.
F 15	15 37	0 5	2 4	20 55	0 39	15 57	1 25	27 2	4 15	22 56	0 31	16 59	1 33	23 20	0 14	7 22	1 38	30 50	8 23	11 7	11 27	3 37		n.a.
S 16	15 18	6s45	0 51	20 49	0 51	15 33	1 25	27 3	4 13	22 54	0 31	17 0	1 33	23 20	0 14	7 22	1 38	30 50	8 23	11 7	11 26	3 40		n.a.
S 17	15 0	13 10	0s25	20 40	1 1	15 8	1 25	27 3	4 11	22 52	0 31	17 0	1 33	23 20	0 14	7 21	1 38	30 50	8 23	11 6	11 25	3 44		n.a.
M18	14 41	18 48	1 38	20 28	1 11	14 42	1 25	27 4	4 9	22 51	0 32	17 1	1 33	23 20	0 14	7 20	1 38	30 50	8 23	11 7	11 24	3 47		n.a.
T 19	14 22	23 20	2 44	20 13	1 19	14 17	1 24	27 5	4 7	22 49	0 32	17 2	1 32	23 20	0 14	7 19	1 38	30 50	8 23	11 6	11 23	3 50		n.a.
W20	14 3	26 29	3 40	19 55	1 27	13 51	1 24	27 6	4 5	22 47	0 32	17 2	1 32	23 20	0 14	7 18	1 38	30 50	8 23	11 6	11 22	3 54		n.a.
T 21	13 43	28 5	4 23	19 34	1 33	13 24	1 24	27 7	4 3	22 46	0 32	17 3	1 32	23 19	0 14	7 17	1 38	30 50	8 22	11 4	11 21	3 57		n.a.
F 22	13 23	28 3	4 50	19 11	1 38	12 57	1 24	27 7	4 1	22 44	0 32	17 4	1 32	23 19	0 14	7 17	1 38	30 51	8 22	11 2	11 19	4 1		n.a.
S 23	13 3	26 29	5 3	18 45	1 43	12 30	1 23	27 8	3 59	22 43	0 32	17 5	1 31	23 19	0 14	7 16	1 38	30 51	8 22	10 58	11 18	4 4		n.a.
S 24	12 43	23 34	5 0	18 17	1 46	12 2	1 23	27 9	3 57	22 41	0 32	17 5	1 31	23 19	0 14	7 15	1 38	30 51	8 22	10 54	11 17	4 7		n.a.
M25	12 23	19 35	4 42	17 47	1 49	11 35	1 22	27 9	3 55	22 39	0 33	17 6	1 31	23 19	0 14	7 14	1 38	30 51	8 22	10 50	11 16	4 11		n.a.
T 26	12 2	14 49	4 12	17 15	1 50	11 6	1 22	27 10	3 53	22 38	0 33	17 7	1 31	23 19	0 14	7 13	1 38	30 51	8 22	10 46	11 15	4 14		n.a.
W27	11 41	9 33	3 30	16 41	1 51	10 38	1 21	27 10	3 51	22 36	0 33	17 8	1 31	23 19	0 14	7 12	1 38	30 51	8 22	10 43	11 14	4 17		n.a.
T 28	11 20	4 0	2 39	16 6	1 51	10 9	1 21	27 10	3 49	22 34	0 33	17 9	1 30	23 19	0 14	7 12	1 38	30 51	8 22	10 41	11 13	4 21		n.a.
F 29	10 59	1n39	1 42	15 29	1 51	9 40	1 20	27 10	3 47	22 33	0 33	17 10	1 30	23 19	0 14	7 11	1 38	30 51	8 22	10 39	11 12	4 24		n.a.
S 30	10 38	7 12	0 40	14 51	1 50	9 11	1 19	27 10	3 45	22 31	0 33	17 11	1 30	23 19	0 14	7 10	1 38	30 51	8 22	10 38	11 10	4 28		n.a.
S 31	10n16	12n31	0n23	14n11	1n48	8n41	1n18	27s10	3s43	22n29	0n33	17s11	1n30	23s19	0s14	7n 9	1n38	30s51	8s22	10n38	11n 9	4n31		n.a.

Julian Day Number = 1651142.5, Delta T = 03h30m57s
Ecliptic obliquity = 23°43'14, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'30, Lahiri = - 6°36'29 Julian Calendar 1 Aug. 193 BCE == Greg. Calendar 29 July 193 BCE

The year -192 astronomical counting style corresponds to year 193 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 193 BCE
geocentric

SEPTEMBER 193 BCE (-192) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 26 46	4♍40'35	13♉23	29♌17	12♍21	22♐22	21♋57	22♏39	17♐10	15♍52	17°R27	27♈20	28♈41	14♈24	n.a.	M 1
T 2	22 30 43	5°39'44	25°20	1♍ 5	13°36	22°53	22° 9	22°42	17°10	15°54	17♑26	27°21	28°38	14°31	n.a.	T 2
W 3	22 34 39	6°38'55	7♊31	2°53	14°51	23°24	22°20	22°45	17°10	15°56	17°25	27°R21	28°35	14°38	n.a.	W 3
T 4	22 38 36	7°38'09	20° 0	4°40	16° 6	23°56	22°31	22°49	17°10	15°59	17°25	27°20	28°32	14°44	n.a.	T 4
F 5	22 42 32	8°37'25	2♋52	6°27	17°21	24°27	22°42	22°52	17°11	16° 1	17°24	27°18	28°29	14°51	n.a.	F 5
S 6	22 46 29	9°36'44	16°11	8°13	18°36	25° 0	22°53	22°55	17°11	16° 3	17°23	27°13	28°25	14°58	n.a.	S 6
S 7	22 50 25	10°36'05	29°58	9°58	19°51	25°32	23° 4	22°59	17°11	16° 5	17°22	27° 7	28°22	15° 4	n.a.	S 7
M 8	22 54 22	11°35'28	14♌12	11°43	21° 6	26° 5	23°14	23° 2	17°12	16° 8	17°22	26°59	28°19	15°11	n.a.	M 8
T 9	22 58 18	12°34'54	28°50	13°27	22°21	26°38	23°25	23° 6	17°12	16°10	17°21	26°52	28°16	15°18	n.a.	T 9
W10	23 2 15	13°34'22	13♍45	15°10	23°36	27°11	23°35	23°10	17°13	16°12	17°20	26°46	28°13	15°24	n.a.	W10
T 11	23 6 11	14°33'52	28°49	16°52	24°51	27°45	23°46	23°14	17°13	16°14	17°20	26°41	28°10	15°31	n.a.	T 11
F 12	23 10 8	15°33'23	13♎51	18°34	26° 6	28°18	23°56	23°17	17°14	16°17	17°19	26°39	28° 6	15°38	n.a.	F 12
S 13	23 14 5	16°32'57	28°43	20°15	27°21	28°52	24° 7	23°21	17°15	16°19	17°19	26°D38	28° 3	15°44	n.a.	S 13
S 14	23 18 1	17°32'33	13♏20	21°55	28°36	29°27	24°17	23°26	17°15	16°21	17°18	26°39	28° 0	15°51	n.a.	S 14
M15	23 21 58	18°32'11	27°37	23°34	29°51	0♑ 1	24°27	23°30	17°16	16°23	17°18	26°40	27°57	15°58	n.a.	M15
T 16	23 25 54	19°31'51	11♐32	25°13	1♎ 6	0°36	24°37	23°34	17°17	16°26	17°17	26°42	27°54	16° 4	n.a.	T 16
W17	23 29 51	20°31'32	25° 6	26°51	2°21	1°11	24°47	23°38	17°18	16°28	17°17	26°R42	27°51	16°11	n.a.	W17
T 18	23 33 47	21°31'15	8♑20	28°29	3°36	1°46	24°57	23°43	17°19	16°30	17°16	26°40	27°47	16°17	n.a.	T 18
F 19	23 37 44	22°31'00	21°17	0♎ 6	4°51	2°22	25° 6	23°47	17°20	16°32	17°16	26°37	27°44	16°24	n.a.	F 19
S 20	23 41 40	23°30'47	3♒58	1°42	6° 6	2°57	25°16	23°51	17°21	16°34	17°15	26°33	27°41	16°31	n.a.	S 20
S 21	23 45 37	24°30'36	16°26	3°17	7°21	3°33	25°25	23°56	17°22	16°37	17°15	26°28	27°38	16°37	n.a.	S 21
M22	23 49 34	25°30'26	28°43	4°52	8°36	4° 9	25°35	24° 1	17°23	16°39	17°15	26°22	27°35	16°44	n.a.	M22
T 23	23 53 30	26°30'19	10♓51	6°27	9°51	4°45	25°44	24° 5	17°24	16°41	17°14	26°17	27°31	16°51	n.a.	T 23
W24	23 57 27	27°30'13	22°50	8° 0	11° 6	5°22	25°53	24°10	17°25	16°43	17°14	26°12	27°28	16°57	n.a.	W24
T 25	0 1 23	28°30'09	4♈44	9°34	12°21	5°58	26° 2	24°15	17°26	16°46	17°14	26° 9	27°25	17° 4	n.a.	T 25
F 26	0 5 20	29°30'08	16°33	11° 6	13°36	6°35	26°11	24°20	17°28	16°48	17°14	26° 7	27°22	17°11	n.a.	F 26
S 27	0 9 16	0♎30'08	28°20	12°39	14°51	7°12	26°20	24°25	17°29	16°50	17°13	26°D 7	27°19	17°17	n.a.	S 27
S 28	0 13 13	1°30'11	10♉ 7	14°10	16° 6	7°49	26°29	24°30	17°31	16°52	17°13	26° 7	27°16	17°24	n.a.	S 28
M29	0 17 9	2°30'16	21°59	15°42	17°21	8°26	26°37	24°35	17°32	16°54	17°13	26° 9	27°12	17°31	n.a.	M29
T 30	0 21 6	3♎30'23	3♊57	17♎12	18♎36	9♑ 3	26♋46	24♏40	17♐34	16♍57	17♑13	26♈11	27♈ 9	17♈37	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	9n54	17n24	1n26	13n31	1n46	8n12	1n17	27s10	3s41	22n28	0n34	17s12	1n30	23s19	0s14	7n 8	1n38	30s51	8s21	10n39	11n 8	4n34		n.a.
T 2	9 33	21 40	2 25	12 49	1 43	7 41	1 16	27 10	3 39	22 26	0 34	17 13	1 29	23 19	0 14	7 7	1 38	30 51	8 21	10 39	11 7	4 38		n.a.
W 3	9 11	25 6	3 20	12 7	1 40	7 11	1 15	27 10	3 37	22 24	0 34	17 14	1 29	23 19	0 14	7 6	1 38	30 51	8 21	10 39	11 6	4 41		n.a.
T 4	8 48	27 25	4 6	11 24	1 37	6 41	1 14	27 9	3 35	22 23	0 34	17 15	1 29	23 19	0 14	7 5	1 38	30 51	8 21	10 39	11 5	4 45		n.a.
F 5	8 26	28 22	4 41	10 41	1 33	6 10	1 13	27 9	3 33	22 21	0 34	17 16	1 29	23 19	0 14	7 5	1 38	30 51	8 21	10 38	11 4	4 48		n.a.
S 6	8 3	27 44	5 3	9 57	1 29	5 39	1 12	27 8	3 31	22 19	0 34	17 18	1 29	23 19	0 14	7 4	1 38	30 51	8 21	10 36	11 2	4 51		n.a.
S 7	7 41	25 25	5 8	9 13	1 24	5 9	1 10	27 7	3 29	22 18	0 35	17 19	1 28	23 19	0 14	7 3	1 38	30 51	8 21	10 34	11 1	4 55		n.a.
M 8	7 18	21 27	4 55	8 28	1 19	4 37	1 9	27 6	3 27	22 16	0 35	17 20	1 28	23 19	0 14	7 2	1 38	30 51	8 21	10 31	11 0	4 58		n.a.
T 9	6 55	16 6	4 22	7 43	1 14	4 6	1 8	27 5	3 25	22 14	0 35	17 21	1 28	23 19	0 14	7 1	1 38	30 51	8 21	10 29	10 59	5 2		n.a.
W10	6 32	9 42	3 31	6 58	1 9	3 35	1 6	27 4	3 23	22 13	0 35	17 22	1 28	23 19	0 14	7 0	1 38	30 51	8 20	10 26	10 58	5 5		n.a.
T 11	6 9	2 42	2 25	6 12	1 3	3 3	1 5	27 3	3 20	22 11	0 35	17 23	1 28	23 20	0 14	6 59	1 38	30 51	8 20	10 25	10 57	5 8		n.a.
F 12	5 46	4s28	1 9	5 27	0 57	2 32	1 3	27 1	3 18	22 9	0 35	17 24	1 27	23 20	0 14	6 58	1 38	30 51	8 20	10 24	10 55	5 12		n.a.
S 13	5 22	11 19	0s11	4 41	0 51	2 0	1 2	26 59	3 16	22 8	0 36	17 25	1 27	23 20	0 14	6 58	1 38	30 51	8 20	10 23	10 54	5 15		n.a.
S 14	4 59	17 27	1 30	3 56	0 45	1 29	1 0	26 58	3 14	22 6	0 36	17 27	1 27	23 20	0 14	6 57	1 38	30 51	8 20	10 24	10 53	5 18		n.a.
M15	4 35	22 28	2 41	3 10	0 39	0 57	0 58	26 56	3 12	22 4	0 36	17 28	1 27	23 20	0 14	6 56	1 38	30 51	8 20	10 24	10 52	5 22		n.a.
T 16	4 12	26 4	3 40	2 25	0 33	0 25	0 56	26 54	3 11	22 3	0 36	17 29	1 27	23 20	0 14	6 55	1 38	30 50	8 20	10 25	10 51	5 25		n.a.
W17	3 48	28 4	4 26	1 40	0 26	0s 7	0 55	26 51	3 9	22 1	0 36	17 30	1 26	23 20	0 14	6 54	1 38	30 50	8 20	10 25	10 50	5 29		n.a.
T 18	3 24	28 23	4 56	0 55	0 20	0 39	0 53	26 49	3 7	21 59	0 36	17 32	1 26	23 20	0 14	6 53	1 38	30 50	8 19	10 24	10 49	5 32		n.a.
F 19	3 0	27 7	5 11	0 10	0 13	1 10	0 51	26 47	3 5	21 58	0 37	17 33	1 26	23 20	0 14	6 52	1 38	30 50	8 19	10 23	10 47	5 35		n.a.
S 20	2 36	24 29	5 9	0s35	0 6	1 42	0 49	26 44	3 3	21 56	0 37	17 34	1 26	23 20	0 14	6 51	1 38	30 50	8 19	10 22	10 46	5 39		n.a.
S 21	2 12	20 45	4 53	1 20	0s 0	2 14	0 47	26 41	3 1	21 55	0 37	17 36	1 26	23 20	0 14	6 51	1 38	30 50	8 19	10 20	10 45	5 42		n.a.
M22	1 48	16 10	4 24	2 4	0 7	2 46	0 45	26 38	2 59	21 53	0 37	17 37	1 26	23 20	0 14	6 50	1 38	30 50	8 19	10 18	10 44	5 45		n.a.
T 23	1 24	11 1	3 43	2 48	0 14	3 17	0 43	26 35	2 57	21 52	0 37	17 38	1 25	23 21	0 14	6 49	1 38	30 50	8 19	10 16	10 43	5 49		n.a.
W24	1 0	5 31	2 53	3 32	0 21	3 49	0 41	26 31	2 55	21 50	0 38	17 40	1 25	23 21	0 14	6 48	1 38	30 50	8 19	10 14	10 42	5 52		n.a.
T 25	0 36	0n 9	1 55	4 15	0 27	4 21	0 39	26 28	2 53	21 48	0 38	17 41	1 25	23 21	0 14	6 47	1 38	30 50	8 18	10 13	10 41	5 56		n.a.
F 26	0 12	5 46	0 52	4 58	0 34	4 52	0 36	26 24	2 51	21 47	0 38	17 42	1 25	23 21	0 14	6 46	1 38	30 50	8 18	10 12	10 39	5 59		n.a.
S 27	0s12	11 12	0n12	5 41	0 41	5 24	0 34	26 20	2 49	21 45	0 38	17 44	1 25	23 21	0 14	6 45	1 38	30 49	8 18	10 12	10 38	6 2		n.a.
S 28	0 36	16 14	1 16	6 23	0 47	5 55	0 32	26 16	2 47	21 44	0 38	17 45	1 25	23 21	0 14	6 45	1 38	30 49	8 18	10 12	10 37	6 6		n.a.
M29	1 0	20 42	2 18	7 5	0 54	6 26	0 30	26 12	2 45	21 42	0 39	17 47	1 24	23 21	0 14	6 44	1 38	30 49	8 18	10 13	10 36	6 9		n.a.
T 30	1s25	24n22	3n14	7s46	1s 1	6s57	0n27	26s 7	2s43	21n41	0n39	17s48	1n24	23s21	0s14	6n43	1n38	30s49	8s18	10n13	10n35	6n12		n.a.

Julian Day Number = 1651173.5, Delta T = 03h30m56s
Ecliptic obliquity = 23°43'15, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'26, Lahiri = - 6°36'25 Julian Calendar 1 Sept. 193 BCE == Greg. Calendar 29 Aug. 193 BCE

The year -192 astronomical counting style corresponds to year 193 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 193 BCE
geocentric

OCTOBER 193 BCE (-192) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 25 3	4♎30'32	16♊ 8	18♎42	19♎51	9♑41	26♋54	24♏46	17♐35	16♍59	17°R13	26♈12	27♈ 6	17♈44	n.a.	W 1
T 2	0 28 59	5°30'43	28°34	20°12	21° 6	10°18	27° 2	24°51	17°37	17° 1	17♑13	26°13	27° 3	17°51	n.a.	T 2
F 3	0 32 56	6°30'57	11♋22	21°41	22°21	10°56	27°10	24°56	17°38	17° 3	17°13	26°R13	27° 0	17°57	n.a.	F 3
S 4	0 36 52	7°31'13	24°33	23°10	23°36	11°34	27°18	25° 2	17°40	17° 5	17°D13	26°12	26°56	18° 4	n.a.	S 4
S 5	0 40 49	8°31'31	8♌12	24°38	24°51	12°12	27°26	25° 7	17°42	17° 7	17°13	26°11	26°53	18°10	n.a.	S 5
M 6	0 44 45	9°31'51	22°19	26° 6	26° 6	12°50	27°34	25°13	17°44	17° 9	17°13	26° 9	26°50	18°17	n.a.	M 6
T 7	0 48 42	10°32'13	6♍52	27°33	27°20	13°28	27°41	25°18	17°45	17°11	17°13	26° 7	26°47	18°24	n.a.	T 7
W 8	0 52 38	11°32'37	21°46	28°59	28°35	14° 7	27°49	25°24	17°47	17°14	17°13	26° 5	26°44	18°30	n.a.	W 8
T 9	0 56 35	12°33'03	6♎55	0♏25	29°50	14°45	27°56	25°30	17°49	17°16	17°13	26° 3	26°41	18°37	n.a.	T 9
F 10	1 0 31	13°33'30	22° 9	1°50	1♏ 5	15°24	28° 3	25°35	17°51	17°18	17°13	26°D 3	26°37	18°44	n.a.	F 10
S 11	1 4 28	14°34'00	7♏18	3°15	2°20	16° 3	28°10	25°41	17°53	17°20	17°13	26° 3	26°34	18°50	n.a.	S 11
S 12	1 8 25	15°34'31	22°13	4°38	3°35	16°42	28°17	25°47	17°55	17°22	17°14	26° 4	26°31	18°57	n.a.	S 12
M13	1 12 21	16°35'04	6♐47	6° 1	4°50	17°21	28°24	25°53	17°57	17°24	17°14	26° 5	26°28	19° 4	n.a.	M13
T 14	1 16 18	17°35'38	20°57	7°23	6° 5	18° 0	28°30	25°59	18° 0	17°26	17°14	26° 5	26°25	19°10	n.a.	T 14
W15	1 20 14	18°36'13	4♑40	8°44	7°20	18°39	28°37	26° 5	18° 2	17°28	17°14	26° 6	26°22	19°17	n.a.	W15
T 16	1 24 11	19°36'50	17°58	10° 3	8°35	19°19	28°43	26°11	18° 4	17°30	17°15	26°R 6	26°18	19°24	n.a.	T 16
F 17	1 28 7	20°37'28	0♒52	11°21	9°50	19°58	28°49	26°17	18° 6	17°32	17°15	26° 6	26°15	19°30	n.a.	F 17
S 18	1 32 4	21°38'07	13°27	12°38	11° 5	20°38	28°55	26°23	18° 9	17°34	17°15	26° 6	26°12	19°37	n.a.	S 18
S 19	1 36 0	22°38'48	25°46	13°53	12°20	21°17	29° 1	26°30	18°11	17°36	17°16	26° 5	26° 9	19°44	n.a.	S 19
M20	1 39 57	23°39'30	7♓52	15° 7	13°35	21°57	29° 6	26°36	18°13	17°38	17°16	26° 5	26° 6	19°50	n.a.	M20
T 21	1 43 54	24°40'13	19°50	16°18	14°49	22°37	29°12	26°42	18°16	17°39	17°17	26° 5	26° 2	19°57	n.a.	T 21
W22	1 47 50	25°40'57	1♈41	17°26	16° 4	23°17	29°17	26°48	18°18	17°41	17°17	26°D 5	25°59	20° 3	n.a.	W22
T 23	1 51 47	26°41'43	13°30	18°32	17°19	23°56	29°22	26°55	18°21	17°43	17°18	26° 5	25°56	20°10	n.a.	T 23
F 24	1 55 43	27°42'30	25°18	19°35	18°34	24°36	29°27	27° 1	18°23	17°45	17°18	26°R 5	25°53	20°17	n.a.	F 24
S 25	1 59 40	28°43'19	7♉ 7	20°34	19°49	25°17	29°32	27° 8	18°26	17°47	17°19	26° 4	25°50	20°23	n.a.	S 25
S 26	2 3 36	29°44'08	19° 0	21°29	21° 4	25°57	29°37	27°14	18°28	17°49	17°19	26° 4	25°47	20°30	n.a.	S 26
M27	2 7 33	0♏45'00	0♊58	22°20	22°18	26°37	29°41	27°21	18°31	17°50	17°20	26° 4	25°43	20°37	n.a.	M27
T 28	2 11 29	1°45'53	13° 4	23° 5	23°33	27°17	29°46	27°27	18°34	17°52	17°21	26° 3	25°40	20°43	n.a.	T 28
W29	2 15 26	2°46'47	25°21	23°44	24°48	27°57	29°50	27°34	18°36	17°54	17°21	26° 2	25°37	20°50	n.a.	W29
T 30	2 19 23	3°47'42	7♋52	24°17	26° 3	28°38	29°54	27°40	18°39	17°55	17°22	26° 1	25°34	20°57	n.a.	T 30
F 31	2 23 19	4♏48'40	20♋39	24♏43	27♏18	29♑18	29♋57	27♏47	18♐42	17♍57	17♑23	26♈ 1	25♈31	21♈ 3	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	1s49	27n 0	4n 2	8s27	1s 7	7s28	0n25	26s 3	2s41	21n40	0n39	17s49	1n24	23s22	0s14	6n42	1n38	30s49	8s17	10n14	10n34	6n16		n.a.
T 2	2 13	28 23	4 40	9 7	1 13	7 59	0 23	25 58	2 39	21 38	0 39	17 51	1 24	23 22	0 14	6 41	1 38	30 49	8 17	10 14	10 32	6 19		n.a.
F 3	2 37	28 18	5 6	9 47	1 20	8 29	0 20	25 53	2 38	21 37	0 39	17 52	1 24	23 22	0 14	6 40	1 38	30 49	8 17	10 14	10 31	6 22		n.a.
S 4	3 1	26 39	5 16	10 26	1 26	8 59	0 18	25 48	2 36	21 35	0 40	17 54	1 24	23 22	0 14	6 40	1 38	30 48	8 17	10 14	10 30	6 26		n.a.
S 5	3 25	23 24	5 9	11 4	1 32	9 29	0 15	25 42	2 34	21 34	0 40	17 55	1 23	23 22	0 14	6 39	1 38	30 48	8 17	10 13	10 29	6 29		n.a.
M 6	3 49	18 42	4 44	11 42	1 38	9 59	0 13	25 37	2 32	21 33	0 40	17 57	1 23	23 22	0 14	6 38	1 38	30 48	8 17	10 13	10 28	6 33		n.a.
T 7	4 13	12 48	4 0	12 20	1 43	10 29	0 10	25 31	2 30	21 31	0 40	17 58	1 23	23 22	0 14	6 37	1 38	30 48	8 16	10 12	10 27	6 36		n.a.
W 8	4 37	6 2	2 59	12 56	1 49	10 59	0 8	25 25	2 28	21 30	0 40	18 0	1 23	23 23	0 14	6 36	1 38	30 48	8 16	10 11	10 25	6 39		n.a.
T 9	5 1	1s11	1 44	13 32	1 54	11 28	0 5	25 19	2 26	21 29	0 41	18 1	1 23	23 23	0 14	6 36	1 38	30 48	8 16	10 11	10 24	6 43		n.a.
F 10	5 25	8 24	0 22	14 7	1 59	11 57	0 3	25 13	2 25	21 28	0 41	18 3	1 23	23 23	0 14	6 35	1 38	30 47	8 16	10 11	10 23	6 46		n.a.
S 11	5 48	15 5	1s 2	14 41	2 4	12 25	0 0	25 6	2 23	21 26	0 41	18 4	1 23	23 23	0 14	6 34	1 38	30 47	8 16	10 11	10 22	6 49		n.a.
S 12	6 12	20 48	2 20	15 14	2 9	12 53	0s 2	25 0	2 21	21 25	0 41	18 6	1 22	23 23	0 14	6 33	1 38	30 47	8 16	10 11	10 21	6 53		n.a.
M13	6 36	25 6	3 28	15 46	2 13	13 21	0 5	24 53	2 19	21 24	0 41	18 7	1 22	23 24	0 14	6 32	1 38	30 47	8 16	10 11	10 20	6 56		n.a.
T 14	6 59	27 44	4 20	16 18	2 17	13 49	0 7	24 46	2 17	21 23	0 42	18 9	1 22	23 24	0 14	6 32	1 38	30 47	8 15	10 11	10 18	6 59		n.a.
W15	7 22	28 34	4 56	16 48	2 21	14 16	0 10	24 39	2 16	21 22	0 42	18 10	1 22	23 24	0 14	6 31	1 38	30 46	8 15	10 12	10 17	7 3		n.a.
T 16	7 46	27 42	5 15	17 17	2 24	14 43	0 12	24 31	2 14	21 21	0 42	18 12	1 22	23 24	0 14	6 30	1 38	30 46	8 15	10 12	10 16	7 6		n.a.
F 17	8 9	25 21	5 17	17 45	2 27	15 10	0 15	24 23	2 12	21 20	0 42	18 14	1 22	23 24	0 14	6 29	1 38	30 46	8 15	10 12	10 15	7 10		n.a.
S 18	8 32	21 49	5 3	18 11	2 30	15 36	0 17	24 16	2 10	21 19	0 43	18 15	1 22	23 25	0 14	6 29	1 38	30 46	8 15	10 12	10 14	7 13		n.a.
S 19	8 55	17 24	4 36	18 36	2 32	16 2	0 20	24 8	2 8	21 18	0 43	18 17	1 21	23 25	0 14	6 28	1 39	30 46	8 15	10 11	10 13	7 16		n.a.
M20	9 17	12 22	3 57	19 0	2 34	16 27	0 23	24 0	2 7	21 17	0 43	18 18	1 21	23 25	0 14	6 27	1 39	30 45	8 14	10 11	10 11	7 20		n.a.
T 21	9 40	6 57	3 8	19 22	2 35	16 52	0 25	23 51	2 5	21 16	0 43	18 20	1 21	23 25	0 14	6 27	1 39	30 45	8 14	10 11	10 10	7 23		n.a.
W22	10 2	1 20	2 12	19 43	2 35	17 17	0 28	23 43	2 3	21 15	0 44	18 22	1 21	23 25	0 14	6 26	1 39	30 45	8 14	10 11	10 9	7 26		n.a.
T 23	10 25	4n19	1 9	20 1	2 35	17 41	0 30	23 34	2 2	21 14	0 44	18 23	1 21	23 26	0 14	6 25	1 39	30 45	8 14	10 11	10 8	7 30		n.a.
F 24	10 47	9 50	0 4	20 18	2 34	18 5	0 33	23 25	2 0	21 13	0 44	18 25	1 21	23 26	0 14	6 24	1 39	30 45	8 14	10 11	10 7	7 33		n.a.
S 25	11 9	15 0	1n 1	20 33	2 32	18 28	0 35	23 16	1 58	21 12	0 44	18 26	1 21	23 26	0 14	6 24	1 39	30 44	8 14	10 11	10 6	7 36		n.a.
S 26	11 31	19 39	2 4	20 45	2 29	18 50	0 38	23 7	1 56	21 12	0 44	18 28	1 21	23 26	0 14	6 23	1 39	30 44	8 13	10 11	10 4	7 40		n.a.
M27	11 52	23 34	3 2	20 55	2 26	19 13	0 40	22 57	1 55	21 11	0 45	18 30	1 20	23 27	0 14	6 22	1 39	30 44	8 13	10 11	10 3	7 43		n.a.
T 28	12 14	26 29	3 53	21 2	2 21	19 34	0 43	22 48	1 53	21 10	0 45	18 31	1 20	23 27	0 14	6 22	1 39	30 44	8 13	10 11	10 2	7 46		n.a.
W29	12 35	28 11	4 33	21 7	2 16	19 55	0 45	22 38	1 51	21 10	0 45	18 33	1 20	23 27	0 14	6 21	1 39	30 43	8 13	10 10	10 1	7 50		n.a.
T 30	12 56	28 30	5 2	21 8	2 9	20 16	0 48	22 28	1 50	21 9	0 45	18 34	1 20	23 27	0 14	6 21	1 39	30 43	8 13	10 10	10 0	7 53		n.a.
F 31	13s17	27n19	5n16	21s 7	2s 1	20s36	0s50	22s18	1s48	21n 8	0n46	18s36	1n20	23s28	0s14	6n20	1n39	30s43	8s13	10n10	9n59	7n56		n.a.

Julian Day Number = 1651203.5, Delta T = 03h30m55s
Ecliptic obliquity = 23°43'15, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'21, Lahiri = - 6°36'21 Julian Calendar 1 Oct. 193 BCE == Greg. Calendar 28 Sept. 193 BCE

The year -192 astronomical counting style corresponds to year 193 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 193 BCE
geocentric

NOVEMBER 193 BCE (-192) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 27 16	5♏49'38	3♌45	25♏ 0	28♏32	29♑59	0♌ 1	27♏54	18♐45	17♍59	17♑23	26°D 0	25♈28	21♈10	n.a.	S 1
S 2	2 31 12	6°50'38	17°14	25°R 8	29°47	0♒39	0° 4	28° 0	18°48	18° 0	17°24	26♈ 0	25°24	21°17	n.a.	S 2
M 3	2 35 9	7°51'39	1♍ 6	25° 6	1♐ 2	1°20	0° 8	28° 7	18°51	18° 2	17°25	26° 1	25°21	21°23	n.a.	M 3
T 4	2 39 5	8°52'42	15°22	24°53	2°17	2° 1	0°11	28°14	18°53	18° 4	17°26	26° 2	25°18	21°30	n.a.	T 4
W 5	2 43 2	9°53'45	0♎ 1	24°30	3°31	2°41	0°14	28°21	18°56	18° 5	17°27	26° 3	25°15	21°37	n.a.	W 5
T 6	2 46 58	10°54'50	14°57	23°55	4°46	3°22	0°16	28°27	18°59	18° 7	17°27	26° 4	25°12	21°43	n.a.	T 6
F 7	2 50 55	11°55'56	0♏ 3	23° 9	6° 1	4° 3	0°19	28°34	19° 2	18° 8	17°28	26°R 4	25° 8	21°50	n.a.	F 7
S 8	2 54 52	12°57'04	15°12	22°13	7°15	4°44	0°21	28°41	19° 5	18°10	17°29	26° 3	25° 5	21°56	n.a.	S 8
S 9	2 58 48	13°58'12	0♐13	21° 7	8°30	5°25	0°23	28°48	19° 8	18°11	17°30	26° 2	25° 2	22° 3	n.a.	S 9
M10	3 2 45	14°59'20	14°59	19°53	9°45	6° 6	0°25	28°55	19°12	18°13	17°31	25°59	24°59	22°10	n.a.	M10
T 11	3 6 41	16° 0'30	29°21	18°34	10°59	6°47	0°27	29° 2	19°15	18°14	17°32	25°57	24°56	22°16	n.a.	T 11
W12	3 10 38	17° 1'40	13♑16	17°11	12°14	7°28	0°28	29° 9	19°18	18°15	17°33	25°54	24°53	22°23	n.a.	W12
T 13	3 14 34	18° 2'50	26°43	15°48	13°29	8° 9	0°30	29°16	19°21	18°17	17°34	25°52	24°49	22°30	n.a.	T 13
F 14	3 18 31	19° 4'01	9♒43	14°28	14°43	8°50	0°31	29°23	19°24	18°18	17°35	25°50	24°46	22°36	n.a.	F 14
S 15	3 22 28	20° 5'12	22°20	13°13	15°58	9°31	0°32	29°30	19°27	18°19	17°36	25°D50	24°43	22°43	n.a.	S 15
S 16	3 26 24	21° 6'24	4♓37	12° 6	17°13	10°12	0°33	29°37	19°31	18°21	17°37	25°50	24°40	22°50	n.a.	S 16
M17	3 30 21	22° 7'35	16°40	11° 7	18°27	10°54	0°33	29°44	19°34	18°22	17°39	25°52	24°37	22°56	n.a.	M17
T 18	3 34 17	23° 8'47	28°33	10°18	19°42	11°35	0°34	29°51	19°37	18°23	17°40	25°54	24°33	23° 3	n.a.	T 18
W19	3 38 14	24°10'00	10♈21	9°41	20°56	12°16	0°R34	29°58	19°40	18°24	17°41	25°56	24°30	23°10	n.a.	W19
T 20	3 42 10	25°11'12	22° 7	9°14	22°11	12°57	0°34	0♐ 5	19°44	18°25	17°42	25°R57	24°27	23°16	n.a.	T 20
F 21	3 46 7	26°12'25	3♉56	8°58	23°25	13°39	0°33	0°12	19°47	18°26	17°43	25°56	24°24	23°23	n.a.	F 21
S 22	3 50 3	27°13'38	15°50	8°D52	24°40	14°20	0°33	0°19	19°50	18°28	17°44	25°55	24°21	23°29	n.a.	S 22
S 23	3 54 0	28°14'51	27°52	8°56	25°54	15° 1	0°32	0°26	19°54	18°29	17°46	25°51	24°18	23°36	n.a.	S 23
M24	3 57 57	29°16'05	10♊ 2	9°10	27° 8	15°43	0°32	0°33	19°57	18°30	17°47	25°46	24°14	23°43	n.a.	M24
T 25	4 1 53	0♐17'19	22°23	9°31	28°23	16°24	0°31	0°40	20° 1	18°31	17°48	25°40	24°11	23°49	n.a.	T 25
W26	4 5 50	1°18'33	4♋55	10° 0	29°37	17° 6	0°30	0°47	20° 4	18°32	17°50	25°33	24° 8	23°56	n.a.	W26
T 27	4 9 46	2°19'48	17°39	10°35	0♑51	17°47	0°28	0°54	20° 7	18°32	17°51	25°27	24° 5	24° 3	n.a.	T 27
F 28	4 13 43	3°21'03	0♌36	11°17	2° 6	18°28	0°27	1° 1	20°11	18°33	17°52	25°21	24° 2	24° 9	n.a.	F 28
S 29	4 17 39	4°22'18	13°48	12° 3	3°20	19°10	0°25	1° 8	20°14	18°34	17°54	25°18	23°59	24°16	n.a.	S 29
S 30	4 21 36	5♐23'34	27♌14	12♏55	4♑34	19♒51	0♌23	1♐15	20♐18	18♍35	17♑55	25♈16	23♈55	24♈23	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s37	24n38	5n15	21s 2	1s51	20s55	0s52	22s 8	1s47	21n 8	0n46	18s38	1n20	23s28	0s14	6n19	1n39	30s43	8s13	10n10	9n57	8n 0		n.a.
S 2	13 58	20 32	4 56	20 53	1 40	21 14	0 55	21 57	1 45	21 7	0 46	18 39	1 20	23 28	0 14	6 19	1 39	30 42	8 12	10 10	9 56	8 3		n.a.
M 3	14 18	15 15	4 20	20 40	1 27	21 32	0 57	21 47	1 43	21 7	0 46	18 41	1 20	23 28	0 14	6 18	1 39	30 42	8 12	10 10	9 55	8 6		n.a.
T 4	14 38	9 0	3 27	20 24	1 13	21 50	0 59	21 36	1 42	21 7	0 47	18 42	1 20	23 29	0 14	6 18	1 39	30 42	8 12	10 10	9 54	8 10		n.a.
W 5	14 57	2 7	2 20	20 3	0 57	22 7	1 2	21 25	1 40	21 6	0 47	18 44	1 20	23 29	0 14	6 17	1 39	30 42	8 12	10 11	9 53	8 13		n.a.
T 6	15 17	5s 1	1 1	19 37	0 40	22 23	1 4	21 14	1 39	21 6	0 47	18 46	1 19	23 29	0 14	6 16	1 39	30 41	8 12	10 11	9 52	8 16		n.a.
F 7	15 36	11 58	0s22	19 8	0 22	22 39	1 6	21 2	1 37	21 6	0 47	18 47	1 19	23 29	0 14	6 16	1 39	30 41	8 12	10 11	9 50	8 20		n.a.
S 8	15 55	18 15	1 44	18 35	0 2	22 54	1 8	20 51	1 35	21 5	0 48	18 49	1 19	23 30	0 14	6 15	1 39	30 41	8 12	10 11	9 49	8 23		n.a.
S 9	16 13	23 20	2 58	17 58	0n18	23 8	1 10	20 39	1 34	21 5	0 48	18 50	1 19	23 30	0 14	6 15	1 39	30 41	8 11	10 10	9 48	8 26		n.a.
M10	16 31	26 49	3 59	17 18	0 38	23 22	1 12	20 27	1 32	21 5	0 48	18 52	1 19	23 30	0 14	6 14	1 40	30 40	8 11	10 9	9 47	8 30		n.a.
T 11	16 49	28 26	4 42	16 37	0 59	23 35	1 14	20 16	1 31	21 5	0 48	18 54	1 19	23 30	0 14	6 14	1 40	30 40	8 11	10 8	9 46	8 33		n.a.
W12	17 7	28 9	5 8	15 55	1 18	23 47	1 16	20 3	1 29	21 5	0 49	18 55	1 19	23 31	0 14	6 13	1 40	30 40	8 11	10 7	9 45	8 36		n.a.
T 13	17 24	26 13	5 15	15 13	1 37	23 59	1 18	19 51	1 28	21 5	0 49	18 57	1 19	23 31	0 14	6 13	1 40	30 39	8 11	10 6	9 43	8 40		n.a.
F 14	17 42	22 56	5 6	14 33	1 54	24 10	1 20	19 39	1 26	21 5	0 49	18 58	1 19	23 31	0 14	6 12	1 40	30 39	8 11	10 6	9 42	8 43		n.a.
S 15	17 58	18 40	4 43	13 57	2 9	24 20	1 22	19 26	1 25	21 5	0 49	19 0	1 19	23 31	0 14	6 12	1 40	30 39	8 11	10 6	9 41	8 46		n.a.
S 16	18 15	13 44	4 6	13 24	2 22	24 29	1 24	19 14	1 23	21 5	0 50	19 2	1 19	23 32	0 14	6 11	1 40	30 39	8 11	10 6	9 40	8 50		n.a.
M17	18 31	8 23	3 20	12 55	2 33	24 38	1 26	19 1	1 22	21 5	0 50	19 3	1 18	23 32	0 14	6 11	1 40	30 38	8 10	10 6	9 39	8 53		n.a.
T 18	18 47	2 48	2 25	12 32	2 41	24 46	1 27	18 48	1 20	21 5	0 50	19 5	1 18	23 32	0 14	6 11	1 40	30 38	8 10	10 7	9 37	8 56		n.a.
W19	19 2	2n51	1 25	12 14	2 47	24 53	1 29	18 35	1 19	21 5	0 51	19 6	1 18	23 32	0 14	6 10	1 40	30 38	8 10	10 8	9 36	8 59		n.a.
T 20	19 17	8 23	0 21	12 2	2 52	24 59	1 30	18 21	1 17	21 6	0 51	19 8	1 18	23 33	0 14	6 10	1 40	30 38	8 10	10 8	9 35	9 3		n.a.
F 21	19 32	13 40	0n44	11 54	2 54	25 5	1 32	18 8	1 16	21 6	0 51	19 9	1 18	23 33	0 14	6 9	1 40	30 37	8 10	10 8	9 34	9 6		n.a.
S 22	19 46	18 29	1 47	11 52	2 55	25 10	1 33	17 55	1 15	21 6	0 51	19 11	1 18	23 33	0 14	6 9	1 40	30 37	8 10	10 7	9 33	9 9		n.a.
S 23	20 0	22 36	2 46	11 54	2 54	25 14	1 35	17 41	1 13	21 7	0 52	19 12	1 18	23 33	0 14	6 9	1 40	30 37	8 10	10 6	9 32	9 13		n.a.
M24	20 14	25 48	3 38	12 0	2 52	25 17	1 36	17 27	1 12	21 7	0 52	19 14	1 18	23 34	0 14	6 8	1 40	30 36	8 10	10 4	9 30	9 16		n.a.
T 25	20 27	27 50	4 20	12 10	2 49	25 20	1 37	17 13	1 10	21 7	0 52	19 16	1 18	23 34	0 14	6 8	1 40	30 36	8 10	10 2	9 29	9 19		n.a.
W26	20 40	28 28	4 51	12 23	2 44	25 22	1 39	16 59	1 9	21 8	0 52	19 17	1 18	23 34	0 14	6 8	1 40	30 36	8 9	10 0	9 28	9 23		n.a.
T 27	20 52	27 37	5 8	12 39	2 39	25 23	1 40	16 45	1 8	21 9	0 53	19 19	1 18	23 34	0 14	6 7	1 41	30 36	8 9	9 57	9 27	9 26		n.a.
F 28	21 4	25 17	5 9	12 57	2 34	25 23	1 41	16 31	1 6	21 9	0 53	19 20	1 18	23 35	0 14	6 7	1 41	30 35	8 9	9 55	9 26	9 29		n.a.
S 29	21 16	21 35	4 55	13 18	2 28	25 22	1 42	16 17	1 5	21 10	0 53	19 22	1 18	23 35	0 14	6 7	1 41	30 35	8 9	9 54	9 24	9 32		n.a.
S 30	21s27	16n42	4n24	13s40	2n21	25s21	1s43	16s 2	1s 3	21n10	0n53	19s23	1n18	23s35	0s14	6n 6	1n41	30s35	8s 9	9n53	9n23	9n36		n.a.

Julian Day Number = 1651234.5, Delta T = 03h30m54s
Ecliptic obliquity = 23°43'15, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'17, Lahiri = - 6°36'17 Julian Calendar 1 Nov. 193 BCE == Greg. Calendar 29 Oct. 193 BCE

The year -192 astronomical counting style corresponds to year 193 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 193 BCE
geocentric

DECEMBER 193 BCE (-192) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 25 33	6♐24'50	10♍57	13♏51	5♑48	20♒33	0°R21	1♐22	20♐21	18♍36	17♑56	25°D15	23♈52	24♈29	n.a.	M 1
T 2	4 29 29	7°26'06	24°57	14°50	7° 3	21°14	0♌18	1°29	20°25	18°37	17°58	25♈16	23°49	24°36	n.a.	T 2
W 3	4 33 26	8°27'22	9♎14	15°53	8°17	21°56	0°16	1°36	20°28	18°37	17°59	25°18	23°46	24°43	n.a.	W 3
T 4	4 37 22	9°28'39	23°47	16°59	9°31	22°37	0°13	1°43	20°32	18°38	18° 1	25°R19	23°43	24°49	n.a.	T 4
F 5	4 41 19	10°29'55	8♏31	18° 7	10°45	23°19	0°10	1°50	20°35	18°39	18° 2	25°18	23°39	24°56	n.a.	F 5
S 6	4 45 15	11°31'12	23°21	19°17	11°59	24° 0	0° 7	1°57	20°39	18°39	18° 4	25°15	23°36	25° 3	n.a.	S 6
S 7	4 49 12	12°32'28	8♐10	20°30	13°13	24°42	0° 4	2° 4	20°42	18°40	18° 5	25°10	23°33	25° 9	n.a.	S 7
M 8	4 53 8	13°33'45	22°49	21°45	14°27	25°23	0° 0	2°11	20°46	18°40	18° 7	25° 3	23°30	25°16	n.a.	M 8
T 9	4 57 5	14°35'01	7♑11	23° 1	15°41	26° 5	29♋57	2°18	20°50	18°41	18° 8	24°54	23°27	25°22	n.a.	T 9
W10	5 1 2	15°36'17	21°10	24°18	16°55	26°46	29°53	2°25	20°53	18°41	18°10	24°45	23°24	25°29	n.a.	W10
T 11	5 4 58	16°37'32	4♒43	25°37	18° 9	27°28	29°49	2°31	20°57	18°42	18°11	24°38	23°20	25°36	n.a.	T 11
F 12	5 8 55	17°38'46	17°49	26°58	19°23	28° 9	29°45	2°38	21° 0	18°42	18°13	24°31	23°17	25°42	n.a.	F 12
S 13	5 12 51	18°39'59	0♓31	28°19	20°37	28°51	29°40	2°45	21° 4	18°43	18°15	24°27	23°14	25°49	n.a.	S 13
S 14	5 16 48	19°41'12	12°51	29°41	21°51	29°32	29°36	2°52	21° 7	18°43	18°16	24°25	23°11	25°56	n.a.	S 14
M15	5 20 44	20°42'24	24°55	1♐ 5	23° 5	0♓14	29°31	2°59	21°11	18°43	18°18	24°D25	23° 8	26° 2	n.a.	M15
T 16	5 24 41	21°43'35	6♈48	2°29	24°18	0°55	29°26	3° 6	21°15	18°44	18°19	24°26	23° 5	26° 9	n.a.	T 16
W17	5 28 37	22°44'45	18°35	3°54	25°32	1°37	29°21	3°12	21°18	18°44	18°21	24°R27	23° 1	26°16	n.a.	W17
T 18	5 32 34	23°45'54	0♉22	5°20	26°46	2°18	29°16	3°19	21°22	18°44	18°23	24°27	22°58	26°22	n.a.	T 18
F 19	5 36 31	24°47'02	12°14	6°47	27°59	3° 0	29°11	3°26	21°25	18°44	18°24	24°25	22°55	26°29	n.a.	F 19
S 20	5 40 27	25°48'09	24°13	8°14	29°13	3°41	29° 5	3°33	21°29	18°45	18°26	24°21	22°52	26°36	n.a.	S 20
S 21	5 44 24	26°49'16	6♊24	9°42	0♒26	4°23	28°59	3°39	21°32	18°45	18°28	24°14	22°49	26°42	n.a.	S 21
M22	5 48 20	27°50'22	18°49	11°11	1°40	5° 4	28°54	3°46	21°36	18°45	18°29	24° 4	22°45	26°49	n.a.	M22
T 23	5 52 17	28°51'26	1♋27	12°41	2°53	5°46	28°48	3°53	21°39	18°45	18°31	23°53	22°42	26°56	n.a.	T 23
W24	5 56 13	29°52'30	14°20	14°11	4° 6	6°27	28°42	3°59	21°43	18°R45	18°33	23°41	22°39	27° 2	n.a.	W24
T 25	6 0 10	0♑53'33	27°25	15°42	5°20	7° 9	28°35	4° 6	21°47	18°45	18°35	23°29	22°36	27° 9	n.a.	T 25
F 26	6 4 7	1°54'35	10♌43	17°13	6°33	7°50	28°29	4°12	21°50	18°45	18°36	23°18	22°33	27°15	n.a.	F 26
S 27	6 8 3	2°55'37	24°12	18°45	7°46	8°32	28°23	4°19	21°54	18°45	18°38	23°10	22°30	27°22	n.a.	S 27
S 28	6 12 0	3°56'37	7♍49	20°18	8°59	9°13	28°16	4°25	21°57	18°44	18°40	23° 5	22°26	27°29	n.a.	S 28
M29	6 15 56	4°57'37	21°36	21°51	10°12	9°54	28° 9	4°32	22° 1	18°44	18°41	23° 2	22°23	27°35	n.a.	M29
T 30	6 19 53	5°58'35	5♎32	23°25	11°25	10°36	28° 3	4°38	22° 4	18°44	18°43	23°D 1	22°20	27°42	n.a.	T 30
W31	6 23 49	6♑59'33	19♎36	25♐ 0	12♒38	11♓17	27♋56	4♐44	22♐ 8	18♍44	18♑45	23°R 1	22♈17	27♈49	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21s38	10n53	3n37	14s 3	2n14	25s19	1s44	15s48	1s 2	21n11	0n54	19s25	1n18	23s36	0s14	6n 6	1n41	30s34	8s 9	9n53	9n22	9n39		n.a.
T 2	21 48	4 26	2 37	14 28	2 7	25 16	1 44	15 33	1 1	21 12	0 54	19 26	1 18	23 36	0 14	6 6	1 41	30 34	8 9	9 53	9 21	9 42		n.a.
W 3	21 58	2s23	1 26	14 53	1 59	25 12	1 45	15 18	0 59	21 13	0 54	19 28	1 17	23 36	0 14	6 6	1 41	30 34	8 9	9 54	9 20	9 46		n.a.
T 4	22 8	9 13	0 8	15 20	1 51	25 8	1 46	15 3	0 58	21 14	0 54	19 29	1 17	23 36	0 14	6 6	1 41	30 34	8 9	9 54	9 19	9 49		n.a.
F 5	22 17	15 38	1s11	15 46	1 43	25 3	1 46	14 48	0 57	21 14	0 55	19 30	1 17	23 37	0 14	6 5	1 41	30 33	8 9	9 54	9 17	9 52		n.a.
S 6	22 26	21 11	2 26	16 14	1 35	24 57	1 47	14 33	0 56	21 15	0 55	19 32	1 17	23 37	0 14	6 5	1 41	30 33	8 9	9 53	9 16	9 55		n.a.
S 7	22 34	25 23	3 30	16 41	1 27	24 50	1 47	14 18	0 54	21 16	0 55	19 33	1 17	23 37	0 14	6 5	1 41	30 33	8 9	9 51	9 15	9 59		n.a.
M 8	22 42	27 51	4 20	17 9	1 19	24 43	1 48	14 2	0 53	21 17	0 55	19 35	1 17	23 37	0 14	6 5	1 41	30 32	8 9	9 48	9 14	10 2		n.a.
T 9	22 49	28 24	4 53	17 36	1 11	24 34	1 48	13 47	0 52	21 18	0 56	19 36	1 17	23 38	0 14	6 5	1 41	30 32	8 8	9 45	9 13	10 5		n.a.
W10	22 56	27 4	5 6	18 4	1 2	24 25	1 48	13 32	0 51	21 19	0 56	19 38	1 17	23 38	0 14	6 4	1 41	30 32	8 8	9 42	9 11	10 9		n.a.
T 11	23 2	24 12	5 2	18 31	0 54	24 16	1 48	13 16	0 49	21 21	0 56	19 39	1 17	23 38	0 14	6 4	1 41	30 32	8 8	9 39	9 10	10 12		n.a.
F 12	23 8	20 8	4 42	18 58	0 46	24 5	1 48	13 0	0 48	21 22	0 56	19 40	1 17	23 38	0 14	6 4	1 41	30 31	8 8	9 37	9 9	10 15		n.a.
S 13	23 14	15 17	4 9	19 24	0 38	23 54	1 48	12 45	0 47	21 23	0 57	19 42	1 17	23 39	0 14	6 4	1 42	30 31	8 8	9 35	9 8	10 18		n.a.
S 14	23 19	9 57	3 24	19 50	0 30	23 42	1 48	12 29	0 46	21 24	0 57	19 43	1 17	23 39	0 14	6 4	1 42	30 31	8 8	9 34	9 7	10 22		n.a.
M15	23 23	4 21	2 32	20 15	0 22	23 30	1 48	12 13	0 44	21 25	0 57	19 44	1 17	23 39	0 14	6 4	1 42	30 31	8 8	9 34	9 6	10 25		n.a.
T 16	23 28	1n18	1 33	20 40	0 15	23 16	1 48	11 57	0 43	21 27	0 57	19 46	1 17	23 39	0 14	6 4	1 42	30 30	8 8	9 35	9 4	10 28		n.a.
W17	23 31	6 53	0 31	21 4	0 7	23 2	1 47	11 41	0 42	21 28	0 58	19 47	1 17	23 40	0 14	6 4	1 42	30 30	8 8	9 35	9 3	10 31		n.a.
T 18	23 34	12 14	0n32	21 27	0s 1	22 48	1 47	11 25	0 41	21 29	0 58	19 48	1 17	23 40	0 14	6 4	1 42	30 30	8 8	9 35	9 2	10 35		n.a.
F 19	23 37	17 10	1 34	21 50	0 8	22 32	1 46	11 8	0 40	21 31	0 58	19 50	1 17	23 40	0 14	6 4	1 42	30 29	8 8	9 34	9 1	10 38		n.a.
S 20	23 39	21 30	2 32	22 11	0 15	22 17	1 46	10 52	0 39	21 32	0 58	19 51	1 17	23 40	0 14	6 4	1 42	30 29	8 8	9 33	9 0	10 41		n.a.
S 21	23 41	24 59	3 24	22 32	0 22	22 0	1 45	10 36	0 37	21 33	0 59	19 52	1 17	23 41	0 14	6 4	1 42	30 29	8 8	9 30	8 58	10 44		n.a.
M22	23 42	27 21	4 8	22 52	0 29	21 43	1 44	10 19	0 36	21 35	0 59	19 54	1 17	23 41	0 14	6 4	1 42	30 29	8 8	9 27	8 57	10 48		n.a.
T 23	23 43	28 23	4 40	23 11	0 36	21 25	1 43	10 3	0 35	21 36	0 59	19 55	1 17	23 41	0 14	6 4	1 42	30 28	8 8	9 22	8 56	10 51		n.a.
W24	23 43	27 53	4 58	23 29	0 43	21 7	1 42	9 46	0 34	21 38	0 59	19 56	1 17	23 41	0 14	6 4	1 42	30 28	8 8	9 18	8 55	10 54		n.a.
T 25	23 43	25 51	5 2	23 45	0 49	20 48	1 41	9 30	0 33	21 39	0 59	19 57	1 17	23 42	0 14	6 4	1 42	30 28	8 8	9 13	8 54	10 57		n.a.
F 26	23 42	22 22	4 49	24 1	0 55	20 28	1 40	9 13	0 32	21 41	1 0	19 59	1 17	23 42	0 14	6 4	1 42	30 28	8 8	9 9	8 52	11 1		n.a.
S 27	23 41	17 41	4 20	24 15	1 1	20 8	1 39	8 56	0 31	21 42	1 0	20 0	1 17	23 42	0 14	6 4	1 42	30 27	8 8	9 6	8 51	11 4		n.a.
S 28	23 40	12 4	3 36	24 29	1 7	19 47	1 37	8 40	0 30	21 44	1 0	20 1	1 17	23 42	0 14	6 4	1 42	30 27	8 8	9 4	8 50	11 7		n.a.
M29	23 38	5 47	2 39	24 41	1 13	19 26	1 36	8 23	0 28	21 45	1 0	20 2	1 17	23 42	0 14	6 4	1 43	30 27	8 8	9 3	8 49	11 10		n.a.
T 30	23 35	0s50	1 31	24 51	1 18	19 4	1 35	8 6	0 27	21 47	1 0	20 3	1 17	23 43	0 14	6 5	1 43	30 27	8 8	9 3	8 48	11 14		n.a.
W31	23s32	7s29	0n18	25s 0	1s23	18s42	1s33	7s49	0s26	21n49	1n 1	20s 4	1n17	23s43	0s14	6n 5	1n43	30s26	8s 8	9n 3	8n46	11n17		n.a.

Julian Day Number = 1651264.5, Delta T = 03h30m53s
Ecliptic obliquity = 23°43'15, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'13, Lahiri = - 6°36'13 Julian Calendar 1 Dec. 193 BCE == Greg. Calendar 28 Nov. 193 BCE

The year -192 astronomical counting style corresponds to year 193 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 192 BCE
geocentric

JANUARY 192 BCE (-191) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 27 46	8♉ 0'31	3♏49	26♐36	13♒51	11♓58	27°R49	4♐51	22♐11	18°R44	18♉47	23°R 1	22♈14	27♈55	n.a.	T 1
F 2	6 31 42	9° 1'27	18° 8	28°12	15° 3	12°40	27♋42	4°57	22°15	18♍43	18°48	22♈59	22°11	28° 2	n.a.	F 2
S 3	6 35 39	10° 2'22	2♐31	29°49	16°16	13°21	27°34	5° 3	22°18	18°43	18°50	22°54	22° 7	28° 9	n.a.	S 3
S 4	6 39 36	11° 3'17	16°54	1♉26	17°29	14° 2	27°27	5° 9	22°21	18°43	18°52	22°46	22° 4	28°15	n.a.	S 4
M 5	6 43 32	12° 4'10	1♉10	3° 4	18°41	14°44	27°20	5°15	22°25	18°42	18°54	22°36	22° 1	28°22	n.a.	M 5
T 6	6 47 29	13° 5'02	15°16	4°43	19°54	15°25	27°12	5°21	22°28	18°42	18°56	22°24	21°58	28°29	n.a.	T 6
W 7	6 51 25	14° 5'52	29° 4	6°23	21° 6	16° 6	27° 5	5°27	22°32	18°41	18°57	22°11	21°55	28°35	n.a.	W 7
T 8	6 55 22	15° 6'41	12♒31	8° 4	22°19	16°48	26°57	5°33	22°35	18°41	18°59	21°58	21°51	28°42	n.a.	T 8
F 9	6 59 18	16° 7'29	25°35	9°45	23°31	17°29	26°50	5°39	22°38	18°40	19° 1	21°48	21°48	28°49	n.a.	F 9
S 10	7 3 15	17° 8'14	8♓18	11°27	24°43	18°10	26°42	5°45	22°42	18°40	19° 3	21°41	21°45	28°55	n.a.	S 10
S 11	7 7 11	18° 8'58	20°40	13°10	25°55	18°51	26°34	5°51	22°45	18°39	19° 5	21°36	21°42	29° 2	n.a.	S 11
M12	7 11 8	19° 9'40	2♈45	14°54	27° 7	19°33	26°26	5°57	22°48	18°39	19° 6	21°33	21°39	29° 8	n.a.	M12
T 13	7 15 5	20°10'21	14°40	16°39	28°19	20°14	26°19	6° 2	22°52	18°38	19° 8	21°33	21°36	29°15	n.a.	T 13
W14	7 19 1	21°10'59	26°28	18°24	29°31	20°55	26°11	6° 8	22°55	18°37	19°10	21°33	21°32	29°22	n.a.	W14
T 15	7 22 58	22°11'36	8♉16	20°11	0♓43	21°36	26° 3	6°14	22°58	18°37	19°12	21°32	21°29	29°28	n.a.	T 15
F 16	7 26 54	23°12'11	20° 9	21°58	1°54	22°17	25°55	6°19	23° 1	18°36	19°13	21°30	21°26	29°35	n.a.	F 16
S 17	7 30 51	24°12'44	2♊12	23°46	3° 6	22°58	25°47	6°25	23° 5	18°35	19°15	21°25	21°23	29°42	n.a.	S 17
S 18	7 34 47	25°13'15	14°29	25°35	4°17	23°39	25°39	6°30	23° 8	18°34	19°17	21°18	21°20	29°48	n.a.	S 18
M19	7 38 44	26°13'45	27° 4	27°24	5°28	24°20	25°31	6°36	23°11	18°33	19°19	21° 8	21°17	29°55	n.a.	M19
T 20	7 42 40	27°14'12	9♋57	29°15	6°40	25° 1	25°23	6°41	23°14	18°33	19°21	20°56	21°13	0♉ 2	n.a.	T 20
W21	7 46 37	28°14'38	23°10	1♌ 6	7°51	25°42	25°15	6°46	23°17	18°32	19°22	20°42	21°10	0° 8	n.a.	W21
T 22	7 50 34	29°15'02	6♎39	2°58	9° 2	26°23	25° 7	6°51	23°20	18°31	19°24	20°29	21° 7	0°15	n.a.	T 22
F 23	7 54 30	0♒15'24	20°22	4°50	10°13	27° 4	25° 0	6°56	23°23	18°30	19°26	20°18	21° 4	0°22	n.a.	F 23
S 24	7 58 27	1°15'44	4♍16	6°43	11°23	27°45	24°52	7° 1	23°26	18°29	19°28	20° 9	21° 1	0°28	n.a.	S 24
S 25	8 2 23	2°16'03	18°17	8°37	12°34	28°26	24°44	7° 6	23°29	18°28	19°29	20° 3	20°57	0°35	n.a.	S 25
M26	8 6 20	3°16'19	2♎22	10°30	13°44	29° 7	24°36	7°11	23°32	18°27	19°31	20° 0	20°54	0°42	n.a.	M26
T 27	8 10 16	4°16'35	16°28	12°24	14°55	29°48	24°28	7°16	23°35	18°26	19°33	19°D59	20°51	0°48	n.a.	T 27
W28	8 14 13	5°16'49	0♏34	14°18	16° 5	0♈29	24°21	7°21	23°38	18°25	19°35	19°R59	20°48	0°55	n.a.	W28
T 29	8 18 9	6°17'01	14°39	16°11	17°15	1° 9	24°13	7°26	23°41	18°24	19°36	19°59	20°45	1° 1	n.a.	T 29
F 30	8 22 6	7°17'11	28°43	18° 4	18°25	1°50	24° 6	7°30	23°44	18°23	19°38	19°57	20°42	1° 8	n.a.	F 30
S 31	8 26 3	8♒17'21	12♐44	19♒56	19♓35	2♈31	23♋58	7♐35	23♐46	18♍21	19♉40	19♈53	20♈38	1♉15	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	23s29	13s50	0s57	25s 8	1s28	18s19	1s31	7s32	0s25	21n50	1n 1	20s 6	1n17	23s43	0s14	6n 5	1n43	30s26	8s 8	9n 3	8n45	11n20			n.a.
F 2	23 25	19 29	2 9	25 15	1 32	17 56	1 30	7 15	0 24	21 52	1 1	20 7	1 17	23 43	0 14	6 5	1 43	30 26	8 8	9 2	8 44	11 23			n.a.
S 3	23 20	24 3	3 13	25 20	1 37	17 32	1 28	6 58	0 23	21 53	1 1	20 8	1 17	23 44	0 14	6 5	1 43	30 26	8 8	9 0	8 43	11 27			n.a.
S 4	23 15	27 7	4 4	25 23	1 41	17 8	1 26	6 41	0 22	21 55	1 1	20 9	1 17	23 44	0 14	6 6	1 43	30 25	8 8	8 58	8 42	11 30			n.a.
M 5	23 10	28 23	4 40	25 25	1 44	16 44	1 24	6 24	0 21	21 57	1 2	20 10	1 17	23 44	0 14	6 6	1 43	30 25	8 8	8 54	8 40	11 33			n.a.
T 6	23 4	27 46	4 58	25 26	1 48	16 19	1 22	6 7	0 20	21 58	1 2	20 11	1 17	23 44	0 14	6 6	1 43	30 25	8 8	8 49	8 39	11 36			n.a.
W 7	22 58	25 27	4 58	25 24	1 51	15 53	1 20	5 50	0 19	22 0	1 2	20 12	1 17	23 44	0 14	6 6	1 43	30 25	8 8	8 44	8 38	11 39			n.a.
T 8	22 51	21 45	4 42	25 21	1 53	15 27	1 17	5 33	0 18	22 2	1 2	20 13	1 17	23 45	0 14	6 6	1 43	30 24	8 8	8 39	8 37	11 43			n.a.
F 9	22 44	17 4	4 11	25 17	1 56	15 1	1 15	5 16	0 17	22 3	1 2	20 14	1 17	23 45	0 14	6 7	1 43	30 24	8 8	8 36	8 36	11 46			n.a.
S 10	22 36	11 45	3 28	25 10	1 58	14 35	1 13	4 59	0 16	22 5	1 2	20 15	1 17	23 45	0 14	6 7	1 43	30 24	8 8	8 33	8 34	11 49			n.a.
S 11	22 28	6 7	2 36	25 2	1 59	14 8	1 10	4 42	0 15	22 7	1 3	20 16	1 17	23 45	0 14	6 7	1 43	30 24	8 8	8 31	8 33	11 52			n.a.
M12	22 20	0 23	1 38	24 52	2 1	13 40	1 8	4 24	0 14	22 8	1 3	20 17	1 17	23 45	0 14	6 8	1 43	30 24	8 8	8 30	8 32	11 56			n.a.
T 13	22 11	5n17	0 36	24 41	2 1	13 13	1 5	4 7	0 13	22 10	1 3	20 18	1 17	23 46	0 14	6 8	1 43	30 23	8 9	8 30	8 31	11 59			n.a.
W14	22 2	10 44	0n26	24 27	2 2	12 45	1 2	3 50	0 12	22 12	1 3	20 19	1 17	23 46	0 14	6 8	1 44	30 23	8 9	8 30	8 30	12 2			n.a.
T 15	21 52	15 48	1 27	24 11	2 2	12 17	0 59	3 33	0 11	22 13	1 3	20 20	1 17	23 46	0 14	6 9	1 44	30 23	8 9	8 29	8 28	12 5			n.a.
F 16	21 42	20 19	2 25	23 54	2 1	11 48	0 57	3 15	0 10	22 15	1 3	20 21	1 17	23 46	0 14	6 9	1 44	30 23	8 9	8 29	8 27	12 8			n.a.
S 17	21 31	24 4	3 17	23 34	2 0	11 19	0 54	2 58	0 10	22 16	1 3	20 22	1 17	23 46	0 14	6 9	1 44	30 23	8 9	8 27	8 26	12 12			n.a.
S 18	21 20	26 48	4 1	23 13	1 59	10 50	0 51	2 41	0 9	22 18	1 4	20 23	1 17	23 46	0 14	6 10	1 44	30 22	8 9	8 24	8 25	12 15			n.a.
M19	21 9	28 16	4 35	22 50	1 57	10 21	0 47	2 24	0 8	22 20	1 4	20 24	1 17	23 47	0 14	6 10	1 44	30 22	8 9	8 20	8 24	12 18			n.a.
T 20	20 57	28 14	4 55	22 24	1 54	9 51	0 44	2 6	0 7	22 21	1 4	20 25	1 17	23 47	0 14	6 10	1 44	30 22	8 9	8 16	8 22	12 21			n.a.
W21	20 45	26 38	5 0	21 57	1 51	9 22	0 41	1 49	0 6	22 23	1 4	20 26	1 17	23 47	0 14	6 11	1 44	30 22	8 9	8 11	8 21	12 24			n.a.
T 22	20 33	23 29	4 49	21 28	1 47	8 52	0 38	1 32	0 5	22 24	1 4	20 26	1 17	23 47	0 14	6 11	1 44	30 22	8 9	8 6	8 20	12 27			n.a.
F 23	20 20	18 59	4 20	20 57	1 43	8 21	0 34	1 15	0 4	22 26	1 4	20 27	1 17	23 47	0 14	6 12	1 44	30 22	8 9	8 1	8 19	12 31			n.a.
S 24	20 7	13 25	3 37	20 24	1 38	7 51	0 31	0 57	0 3	22 27	1 4	20 28	1 17	23 48	0 14	6 12	1 44	30 21	8 9	7 58	8 18	12 34			n.a.
S 25	19 53	7 7	2 39	19 49	1 33	7 21	0 27	0 40	0 2	22 29	1 4	20 29	1 17	23 48	0 14	6 12	1 44	30 21	8 10	7 56	8 16	12 37			n.a.
M26	19 39	0 27	1 32	19 12	1 26	6 50	0 24	0 23	0 2	22 31	1 4	20 30	1 17	23 48	0 14	6 13	1 44	30 21	8 10	7 54	8 15	12 40			n.a.
T 27	19 25	6s16	0 19	18 33	1 20	6 19	0 20	0 6	0 1	22 32	1 4	20 30	1 17	23 48	0 14	6 13	1 44	30 21	8 10	7 54	8 14	12 43			n.a.
W28	19 10	12 41	0s56	17 53	1 12	5 48	0 17	0n12	0n 0	22 33	1 4	20 31	1 17	23 48	0 14	6 14	1 44	30 21	8 10	7 54	8 13	12 46			n.a.
T 29	18 55	18 27	2 7	17 11	1 4	5 17	0 13	0 29	0 1	22 35	1 5	20 32	1 17	23 48	0 14	6 14	1 44	30 21	8 10	7 54	8 12	12 50			n.a.
F 30	18 40	23 12	3 10	16 28	0 55	4 46	0 9	0 46	0 2	22 36	1 5	20 33	1 18	23 48	0 14	6 15	1 44	30 20	8 10	7 53	8 10	12 53			n.a.
S 31	18s24	26s35	4s 1	15s44	0s46	4s15	0s 5	1n 3	0n 3	22n38	1n 5	20s33	1n18	23s49	0s14	6n15	1n44	30s20	8s10	7n52	8n 9	12n56			n.a.

Julian Day Number = 1651295.5, Delta T = 03h30m52s
Ecliptic obliquity = 23°43'14, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'09, Lahiri = - 6°36'08 Julian Calendar 1 Jan. 192 BCE == Greg. Calendar 29 Dec. 193 BCE

The year -191 astronomical counting style corresponds to year 192 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 192 BCE
geocentric

FEBRUARY 192 BCE (-191) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 29 59	9♒17'28	26♐40	21♒47	20♓44	3♈12	23°R51	7♐39	23♐49	18°R20	19♑42	19°R46	20♈35	1♉21	n.a.	S 1
M 2	8 33 56	10°17'34	10♑29	23°36	21°54	3°53	23♋43	7°44	23°52	18♍19	19°43	19♈37	20°32	1°28	n.a.	M 2
T 3	8 37 52	11°17'37	24° 8	25°23	23° 3	4°33	23°36	7°48	23°55	18°18	19°45	19°25	20°29	1°35	n.a.	T 3
W 4	8 41 49	12°17'39	7♒34	27° 8	24°13	5°14	23°29	7°52	23°57	18°17	19°47	19°13	20°26	1°41	n.a.	W 4
T 5	8 45 45	13°17'39	20°43	28°49	25°22	5°55	23°22	7°57	24° 0	18°15	19°48	19° 2	20°23	1°48	n.a.	T 5
F 6	8 49 42	14°17'37	3♓36	0♓28	26°31	6°35	23°15	8° 1	24° 3	18°14	19°50	18°53	20°19	1°55	n.a.	F 6
S 7	8 53 38	15°17'32	16°10	2° 2	27°40	7°16	23° 8	8° 5	24° 5	18°13	19°52	18°45	20°16	2° 1	n.a.	S 7
S 8	8 57 35	16°17'26	28°28	3°31	28°48	7°56	23° 1	8° 9	24° 8	18°11	19°53	18°41	20°13	2° 8	n.a.	S 8
M 9	9 1 32	17°17'17	10♈33	4°56	29°57	8°37	22°54	8°13	24°10	18°10	19°55	18°39	20°10	2°15	n.a.	M 9
T 10	9 5 28	18°17'05	22°27	6°15	1♈ 5	9°17	22°48	8°16	24°13	18° 9	19°57	18°D38	20° 7	2°21	n.a.	T 10
W11	9 9 25	19°16'52	4♉15	7°28	2°13	9°58	22°41	8°20	24°15	18° 7	19°58	18°39	20° 3	2°28	n.a.	W11
T 12	9 13 21	20°16'36	16° 4	8°34	3°21	10°38	22°35	8°24	24°17	18° 6	20° 0	18°R40	20° 0	2°35	n.a.	T 12
F 13	9 17 18	21°16'18	27°57	9°34	4°29	11°19	22°29	8°27	24°20	18° 5	20° 1	18°40	19°57	2°41	n.a.	F 13
S 14	9 21 14	22°15'57	10♊ 1	10°26	5°36	11°59	22°23	8°31	24°22	18° 3	20° 3	18°38	19°54	2°48	n.a.	S 14
S 15	9 25 11	23°15'34	22°20	11°10	6°44	12°40	22°17	8°34	24°24	18° 2	20° 4	18°34	19°51	2°55	n.a.	S 15
M16	9 29 7	24°15'09	4♋58	11°47	7°51	13°20	22°11	8°38	24°26	18° 0	20° 6	18°28	19°48	3° 1	n.a.	M16
T 17	9 33 4	25°14'41	17°59	12°15	8°58	14° 0	22° 5	8°41	24°29	17°59	20° 8	18°20	19°44	3° 8	n.a.	T 17
W18	9 37 1	26°14'11	1♌23	12°35	10° 4	14°41	22° 0	8°44	24°31	17°57	20° 9	18°11	19°41	3°14	n.a.	W18
T 19	9 40 57	27°13'39	15° 9	12°48	11°11	15°21	21°54	8°47	24°33	17°56	20°11	18° 2	19°38	3°21	n.a.	T 19
F 20	9 44 54	28°13'05	29°14	12°R52	12°17	16° 1	21°49	8°50	24°35	17°54	20°12	17°54	19°35	3°28	n.a.	F 20
S 21	9 48 50	29°12'28	13♍33	12°48	13°23	16°42	21°44	8°53	24°37	17°53	20°13	17°48	19°32	3°34	n.a.	S 21
S 22	9 52 47	0♓11'49	28° 1	12°36	14°29	17°22	21°39	8°56	24°39	17°51	20°15	17°44	19°29	3°41	n.a.	S 22
M23	9 56 43	1°11'08	12♎32	12°18	15°34	18° 2	21°34	8°58	24°41	17°50	20°16	17°D43	19°25	3°48	n.a.	M23
T 24	10 0 40	2°10'26	27° 0	11°53	16°40	18°42	21°30	9° 1	24°43	17°48	20°18	17°43	19°22	3°54	n.a.	T 24
W25	10 4 36	3° 9'41	11♏22	11°21	17°45	19°22	21°25	9° 3	24°44	17°46	20°19	17°44	19°19	4° 1	n.a.	W25
T 26	10 8 33	4° 8'55	25°34	10°44	18°49	20° 2	21°21	9° 6	24°46	17°45	20°21	17°45	19°16	4° 8	n.a.	T 26
F 27	10 12 30	5° 8'06	9♐36	10° 3	19°54	20°42	21°17	9° 8	24°48	17°43	20°22	17°R45	19°13	4°14	n.a.	F 27
S 28	10 16 26	6♓ 7'17	23♐27	9♓18	20♈58	21♈22	21♋13	9♐10	24♐50	17♍42	20♑23	17♈44	19♈ 9	4♉21	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	18s 8	28s19	4s38	14s58	0s35	3s44	0s 1	1n20	0n 3	22n39	1n 5	20s34	1n18	23s49	0s14	6n16	1n44	30s20	8s10	7n49	8n 8	12n59			n.a.
M 2	17 52	28 15	4 58	14 12	0 25	3 12	0n 3	1 37	0 4	22 40	1 5	20 35	1 18	23 49	0 14	6 16	1 45	30 20	8 11	7 46	8 7	13 2			n.a.
T 3	17 36	26 28	5 1	13 25	0 13	2 41	0 7	1 54	0 5	22 42	1 5	20 35	1 18	23 49	0 14	6 17	1 45	30 20	8 11	7 41	8 6	13 5			n.a.
W 4	17 19	23 13	4 47	12 38	0 1	2 9	0 11	2 11	0 6	22 43	1 5	20 36	1 18	23 49	0 14	6 17	1 45	30 20	8 11	7 37	8 4	13 9			n.a.
T 5	17 2	18 49	4 18	11 51	0n11	1 38	0 15	2 28	0 7	22 44	1 5	20 37	1 18	23 49	0 14	6 18	1 45	30 20	8 11	7 32	8 3	13 12			n.a.
F 6	16 44	13 39	3 36	11 4	0 24	1 6	0 19	2 45	0 7	22 45	1 5	20 37	1 18	23 50	0 14	6 18	1 45	30 20	8 11	7 29	8 2	13 15			n.a.
S 7	16 26	8 2	2 44	10 17	0 38	0 35	0 24	3 2	0 8	22 47	1 5	20 38	1 18	23 50	0 14	6 19	1 45	30 19	8 11	7 26	8 1	13 18			n.a.
S 8	16 8	2 14	1 46	9 32	0 51	0 3	0 28	3 19	0 9	22 48	1 5	20 39	1 18	23 50	0 14	6 20	1 45	30 19	8 11	7 24	7 59	13 21			n.a.
M 9	15 50	3n34	0 43	8 48	1 5	0n28	0 32	3 36	0 10	22 49	1 5	20 39	1 18	23 50	0 14	6 20	1 45	30 19	8 12	7 23	7 58	13 24			n.a.
T 10	15 32	9 9	0n20	8 6	1 19	1 0	0 36	3 53	0 10	22 50	1 5	20 40	1 18	23 50	0 14	6 21	1 45	30 19	8 12	7 23	7 57	13 27			n.a.
W11	15 13	14 23	1 23	7 26	1 33	1 31	0 41	4 10	0 11	22 51	1 5	20 40	1 18	23 50	0 15	6 21	1 45	30 19	8 12	7 23	7 56	13 31			n.a.
T 12	14 54	19 6	2 22	6 48	1 47	2 2	0 45	4 26	0 12	22 52	1 5	20 41	1 18	23 50	0 15	6 22	1 45	30 19	8 12	7 24	7 55	13 34			n.a.
F 13	14 35	23 6	3 15	6 13	2 1	2 34	0 50	4 43	0 13	22 53	1 5	20 41	1 18	23 50	0 15	6 22	1 45	30 19	8 12	7 24	7 53	13 37			n.a.
S 14	14 15	26 10	4 0	5 40	2 14	3 5	0 54	5 0	0 13	22 54	1 5	20 42	1 18	23 51	0 15	6 23	1 45	30 19	8 12	7 23	7 52	13 40			n.a.
S 15	13 55	28 4	4 35	5 12	2 27	3 36	0 59	5 16	0 14	22 55	1 5	20 42	1 18	23 51	0 15	6 24	1 45	30 19	8 13	7 21	7 51	13 43			n.a.
M16	13 36	28 35	4 58	4 46	2 40	4 7	1 3	5 33	0 15	22 56	1 5	20 43	1 18	23 51	0 15	6 24	1 45	30 19	8 13	7 19	7 50	13 46			n.a.
T 17	13 15	27 33	5 6	4 25	2 51	4 38	1 8	5 49	0 15	22 57	1 5	20 43	1 18	23 51	0 15	6 25	1 45	30 19	8 13	7 16	7 49	13 49			n.a.
W18	12 55	24 56	4 58	4 7	3 2	5 9	1 12	6 6	0 16	22 58	1 5	20 44	1 18	23 51	0 15	6 25	1 45	30 19	8 13	7 13	7 47	13 52			n.a.
T 19	12 35	20 49	4 33	3 54	3 11	5 39	1 17	6 22	0 17	22 59	1 5	20 44	1 19	23 51	0 15	6 26	1 45	30 18	8 13	7 9	7 46	13 56			n.a.
F 20	12 14	15 28	3 51	3 44	3 20	6 10	1 22	6 39	0 17	23 0	1 5	20 44	1 19	23 51	0 15	6 27	1 45	30 18	8 14	7 6	7 45	13 59			n.a.
S 21	11 53	9 12	2 54	3 39	3 27	6 40	1 26	6 55	0 18	23 1	1 5	20 45	1 19	23 51	0 15	6 27	1 45	30 18	8 14	7 4	7 44	14 2			n.a.
S 22	11 32	2 23	1 44	3 38	3 32	7 10	1 31	7 11	0 19	23 1	1 5	20 45	1 19	23 51	0 15	6 28	1 45	30 18	8 14	7 2	7 42	14 5			n.a.
M23	11 11	4s35	0 28	3 42	3 36	7 40	1 36	7 27	0 19	23 2	1 5	20 45	1 19	23 51	0 15	6 29	1 45	30 18	8 14	7 2	7 41	14 8			n.a.
T 24	10 49	11 18	0s50	3 49	3 39	8 10	1 40	7 43	0 20	23 3	1 5	20 46	1 19	23 52	0 15	6 29	1 45	30 18	8 14	7 2	7 40	14 11			n.a.
W25	10 28	17 23	2 4	4 1	3 40	8 39	1 45	7 59	0 21	23 3	1 5	20 46	1 19	23 52	0 15	6 30	1 45	30 18	8 15	7 2	7 39	14 14			n.a.
T 26	10 6	22 27	3 10	4 16	3 38	9 9	1 50	8 15	0 21	23 4	1 5	20 46	1 19	23 52	0 15	6 31	1 45	30 18	8 15	7 3	7 38	14 17			n.a.
F 27	9 44	26 10	4 4	4 34	3 36	9 38	1 54	8 31	0 22	23 5	1 5	20 47	1 19	23 52	0 15	6 31	1 45	30 18	8 15	7 3	7 36	14 20			n.a.
S 28	9s22	28s16	4s43	4s55	3n31	10n 7	1n59	8n47	0n23	23n 5	1n 5	20s47	1n19	23s52	0s15	6n32	1n45	30s18	8s15	7n 2	7n35	14n23			n.a.

Julian Day Number = 1651326.5, Delta T = 03h30m51s
Ecliptic obliquity = 23°43'15, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'05, Lahiri = - 6°36'04 Julian Calendar 1 Feb. 192 BCE == Greg. Calendar 29 Jan. 192 BCE

The year -191 astronomical counting style corresponds to year 192 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 192 BCE
geocentric

MARCH 192 BCE (-191) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 20 23	7♓ 6'25	7♉ 6	8°R31	22♈ 2	22♈ 2	21°R10	9♐13	24♐51	17°R40	20♉25	17°R41	19♈ 6	4♉28	n.a.	S 1
M 2	10 24 19	8° 5'31	20°32	7♓42	23° 6	22°42	21♋ 6	9°15	24°53	17♍39	20°26	17♈36	19° 3	4°34	n.a.	M 2
T 3	10 28 16	9° 4'35	3♒46	6°52	24° 9	23°22	21° 3	9°17	24°55	17°37	20°27	17°30	19° 0	4°41	n.a.	T 3
W 4	10 32 12	10° 3'38	16°47	6° 3	25°12	24° 2	20°59	9°18	24°56	17°35	20°28	17°23	18°57	4°48	n.a.	W 4
T 5	10 36 9	11° 2'38	29°35	5°15	26°15	24°42	20°56	9°20	24°57	17°34	20°30	17°17	18°54	4°54	n.a.	T 5
F 6	10 40 5	12° 1'36	12♓ 8	4°29	27°17	25°22	20°53	9°22	24°59	17°32	20°31	17°11	18°50	5° 1	n.a.	F 6
S 7	10 44 2	13° 0'32	24°29	3°46	28°20	26° 2	20°51	9°23	25° 0	17°30	20°32	17° 8	18°47	5° 8	n.a.	S 7
S 8	10 47 58	13°59'26	6♈38	3° 6	29°21	26°42	20°48	9°25	25° 2	17°29	20°33	17° 5	18°44	5°14	n.a.	S 8
M 9	10 51 55	14°58'17	18°37	2°31	0♉23	27°22	20°46	9°26	25° 3	17°27	20°35	17°D 5	18°41	5°21	n.a.	M 9
T 10	10 55 52	15°57'06	0♉29	2° 0	1°24	28° 2	20°44	9°28	25° 4	17°25	20°36	17° 6	18°38	5°27	n.a.	T 10
W11	10 59 48	16°55'53	12°17	1°34	2°25	28°41	20°42	9°29	25° 5	17°24	20°37	17° 7	18°35	5°34	n.a.	W11
T 12	11 3 45	17°54'38	24° 6	1°13	3°25	29°21	20°40	9°30	25° 6	17°22	20°38	17° 9	18°31	5°41	n.a.	T 12
F 13	11 7 41	18°53'21	5♊59	0°57	4°25	0♉ 1	20°39	9°31	25° 7	17°21	20°39	17°11	18°28	5°47	n.a.	F 13
S 14	11 11 38	19°52'01	18° 2	0°47	5°24	0°41	20°37	9°32	25° 8	17°19	20°40	17°R11	18°25	5°54	n.a.	S 14
S 15	11 15 34	20°50'39	0♋19	0°D42	6°23	1°20	20°36	9°32	25° 9	17°17	20°41	17°11	18°22	6° 1	n.a.	S 15
M16	11 19 31	21°49'15	12°56	0°42	7°22	2° 0	20°35	9°33	25°10	17°16	20°42	17° 9	18°19	6° 7	n.a.	M16
T 17	11 23 27	22°47'48	25°56	0°47	8°20	2°40	20°34	9°34	25°11	17°14	20°43	17° 7	18°15	6°14	n.a.	T 17
W18	11 27 24	23°46'19	9♌21	0°58	9°18	3°19	20°34	9°34	25°12	17°12	20°44	17° 4	18°12	6°21	n.a.	W18
T 19	11 31 21	24°44'48	23°12	1°13	10°15	3°59	20°33	9°35	25°13	17°11	20°45	17° 0	18° 9	6°27	n.a.	T 19
F 20	11 35 17	25°43'14	7♍27	1°33	11°12	4°38	20°33	9°35	25°14	17° 9	20°46	16°57	18° 6	6°34	n.a.	F 20
S 21	11 39 14	26°41'39	22° 2	1°58	12° 8	5°18	20°D33	9°35	25°14	17° 7	20°47	16°55	18° 3	6°41	n.a.	S 21
S 22	11 43 10	27°40'01	6♎51	2°26	13° 3	5°57	20°33	9°35	25°15	17° 6	20°48	16°54	18° 0	6°47	n.a.	S 22
M23	11 47 7	28°38'22	21°46	3° 0	13°58	6°37	20°33	9°R35	25°15	17° 4	20°49	16°D54	17°56	6°54	n.a.	M23
T 24	11 51 3	29°36'40	6♏39	3°37	14°53	7°16	20°34	9°35	25°16	17° 3	20°50	16°55	17°53	7° 1	n.a.	T 24
W25	11 55 0	0♈34'57	21°24	4°18	15°47	7°56	20°35	9°35	25°17	17° 1	20°50	16°56	17°50	7° 7	n.a.	W25
T 26	11 58 56	1°33'13	5♐54	5° 2	16°40	8°35	20°35	9°35	25°17	16°59	20°51	16°57	17°47	7°14	n.a.	T 26
F 27	12 2 53	2°31'27	20° 6	5°50	17°33	9°14	20°36	9°35	25°17	16°58	20°52	16°58	17°44	7°21	n.a.	F 27
S 28	12 6 50	3°29'39	3♑59	6°42	18°25	9°54	20°38	9°34	25°18	16°56	20°53	16°R58	17°40	7°27	n.a.	S 28
S 29	12 10 46	4°27'50	17°32	7°36	19°16	10°33	20°39	9°33	25°18	16°55	20°53	16°58	17°37	7°34	n.a.	S 29
M30	12 14 43	5°25'59	0♒46	8°34	20° 7	11°12	20°41	9°33	25°18	16°53	20°54	16°57	17°34	7°41	n.a.	M30
T 31	12 18 39	6♈24'07	13♒43	9♓35	20♉57	11♉52	20♋42	9♐32	25♐18	16♍52	20♑55	16♈56	17♈31	7♉47	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	9s 0	28s36	5s 5	5s19	3n25	10n35	2n 3	9n 3	0n23	23n 6	1n 5	20s47	1n19	23s52	0s15	6n33	1n45	30s18	8s15	7n 1	7n34	14n26		n.a.	
M 2	8 38	27 14	5 10	5 45	3 17	11 4	2 8	9 18	0 24	23 6	1 4	20 48	1 19	23 52	0 15	6 33	1 45	30 18	8 16	6 59	7 33	14 30		n.a.	
T 3	8 16	24 21	4 58	6 12	3 7	11 32	2 13	9 34	0 25	23 7	1 4	20 48	1 19	23 52	0 15	6 34	1 45	30 18	8 16	6 57	7 32	14 33		n.a.	
W 4	7 53	20 17	4 30	6 41	2 56	11 59	2 17	9 49	0 25	23 7	1 4	20 48	1 19	23 52	0 15	6 34	1 45	30 18	8 16	6 54	7 30	14 36		n.a.	
T 5	7 31	15 20	3 50	7 10	2 44	12 27	2 22	10 5	0 26	23 8	1 4	20 48	1 19	23 52	0 15	6 35	1 45	30 18	8 16	6 52	7 29	14 39		n.a.	
F 6	7 8	9 50	2 59	7 39	2 31	12 54	2 27	10 20	0 26	23 8	1 4	20 48	1 19	23 52	0 15	6 36	1 45	30 18	8 17	6 50	7 28	14 42		n.a.	
S 7	6 45	4 3	2 0	8 8	2 16	13 21	2 31	10 35	0 27	23 8	1 4	20 49	1 19	23 52	0 15	6 36	1 45	30 18	8 17	6 48	7 27	14 45		n.a.	
S 8	6 22	1n48	0 57	8 36	2 2	13 48	2 36	10 50	0 28	23 9	1 4	20 49	1 20	23 53	0 15	6 37	1 45	30 18	8 17	6 47	7 25	14 48		n.a.	
M 9	5 59	7 31	0n 8	9 3	1 46	14 14	2 40	11 6	0 28	23 9	1 4	20 49	1 20	23 53	0 15	6 38	1 45	30 18	8 17	6 47	7 24	14 51		n.a.	
T 10	5 36	12 55	1 13	9 29	1 31	14 40	2 45	11 21	0 29	23 9	1 4	20 49	1 20	23 53	0 15	6 38	1 46	30 19	8 17	6 47	7 23	14 54		n.a.	
W11	5 13	17 50	2 14	9 53	1 15	15 5	2 49	11 35	0 29	23 9	1 4	20 49	1 20	23 53	0 15	6 39	1 46	30 19	8 18	6 48	7 22	14 57		n.a.	
T 12	4 50	22 4	3 9	10 15	0 59	15 31	2 53	11 50	0 30	23 10	1 4	20 49	1 20	23 53	0 15	6 40	1 46	30 19	8 18	6 49	7 21	15 0		n.a.	
F 13	4 27	25 27	3 57	10 35	0 43	15 55	2 58	12 5	0 30	23 10	1 4	20 49	1 20	23 53	0 15	6 40	1 46	30 19	8 18	6 49	7 19	15 3		n.a.	
S 14	4 4	27 44	4 35	10 53	0 28	16 20	3 2	12 20	0 31	23 10	1 4	20 49	1 20	23 53	0 15	6 41	1 46	30 19	8 18	6 50	7 18	15 6		n.a.	
S 15	3 40	28 44	5 1	11 9	0 13	16 44	3 6	12 34	0 32	23 10	1 4	20 49	1 20	23 53	0 15	6 42	1 46	30 19	8 19	6 49	7 17	15 9		n.a.	
M16	3 17	28 17	5 14	11 23	0s 2	17 7	3 10	12 49	0 32	23 10	1 3	20 50	1 20	23 53	0 15	6 42	1 46	30 19	8 19	6 49	7 16	15 12		n.a.	
T 17	2 53	26 18	5 11	11 34	0 16	17 31	3 14	13 3	0 33	23 10	1 3	20 50	1 20	23 53	0 15	6 43	1 46	30 19	8 19	6 48	7 14	15 15		n.a.	
W18	2 30	22 48	4 51	11 43	0 30	17 53	3 19	13 17	0 33	23 10	1 3	20 50	1 20	23 53	0 15	6 44	1 46	30 19	8 19	6 47	7 13	15 18		n.a.	
T 19	2 7	17 56	4 14	11 50	0 43	18 16	3 23	13 31	0 34	23 10	1 3	20 50	1 20	23 53	0 15	6 44	1 46	30 19	8 20	6 45	7 12	15 21		n.a.	
F 20	1 43	11 58	3 21	11 55	0 55	18 38	3 26	13 45	0 34	23 10	1 3	20 50	1 20	23 53	0 15	6 45	1 46	30 19	8 20	6 44	7 11	15 24		n.a.	
S 21	1 20	5 13	2 13	11 57	1 7	18 59	3 30	13 59	0 35	23 10	1 3	20 50	1 20	23 53	0 15	6 46	1 46	30 19	8 20	6 43	7 10	15 27		n.a.	
S 22	0 56	1s54	0 55	11 57	1 19	19 20	3 34	14 13	0 35	23 10	1 3	20 49	1 20	23 53	0 15	6 46	1 46	30 20	8 21	6 43	7 8	15 30		n.a.	
M23	0 33	9 0	0s27	11 54	1 29	19 41	3 38	14 27	0 36	23 10	1 3	20 49	1 20	23 53	0 15	6 47	1 46	30 20	8 21	6 43	7 7	15 33		n.a.	
T 24	0 9	15 35	1 47	11 50	1 39	20 1	3 41	14 40	0 36	23 10	1 3	20 49	1 21	23 53	0 15	6 47	1 46	30 20	8 21	6 43	7 6	15 36		n.a.	
W25	0n14	21 12	2 59	11 43	1 48	20 20	3 45	14 54	0 37	23 9	1 3	20 49	1 21	23 53	0 15	6 48	1 46	30 20	8 21	6 44	7 5	15 39		n.a.	
T 26	0 37	25 28	3 59	11 35	1 57	20 39	3 48	15 7	0 37	23 9	1 3	20 49	1 21	23 54	0 15	6 49	1 46	30 20	8 22	6 44	7 3	15 42		n.a.	
F 27	1 1	28 3	4 43	11 24	2 5	20 58	3 52	15 20	0 38	23 9	1 2	20 49	1 21	23 54	0 15	6 49	1 46	30 20	8 22	6 44	7 2	15 45		n.a.	
S 28	1 24	28 48	5 9	11 12	2 12	21 16	3 55	15 33	0 38	23 9	1 2	20 49	1 21	23 54	0 15	6 50	1 45	30 20	8 22	6 44	7 1	15 48		n.a.	
S 29	1 48	27 47	5 17	10 57	2 18	21 33	3 58	15 46	0 39	23 8	1 2	20 49	1 21	23 54	0 15	6 51	1 45	30 21	8 22	6 44	7 0	15 51		n.a.	
M30	2 11	25 13	5 8	10 40	2 24	21 50	4 1	15 59	0 39	23 8	1 2	20 49	1 21	23 54	0 15	6 51	1 45	30 21	8 23	6 44	6 58	15 54		n.a.	
T 31	2n34	21s24	4s43	10s22	2s29	22n 7	4n 4	16n12	0n40	23n 8	1n 2	20s48	1n21	23s54	0s16	6n52	1n45	30s21	8s23	6n44	6n57	15n57		n.a.	

Julian Day Number = 1651354.5, Delta T = 03h30m50s
Ecliptic obliquity = 23°43'15, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°43'01, Lahiri = - 6°36'00 Julian Calendar 1 March 192 BCE == Greg. Calendar 26 Feb. 192 BCE

The year -191 astronomical counting style corresponds to year 192 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 192 BCE
geocentric

APRIL 192 BCE (-191) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 22 36	7♈22'13	26♒25	10♓38	21♉46	12♉31	20♋44	9°R31	25♐18	16°R50	20♑55	16°R54	17♈28	7♉54	n.a.	W 1
T 2	12 26 32	8°20'17	8♓53	11°45	22°34	13°10	20°46	9♐30	25°19	16♍49	20°56	16♈53	17°25	8° 0	n.a.	T 2
F 3	12 30 29	9°18'20	21°10	12°54	23°22	13°49	20°49	9°29	25°R19	16°47	20°57	16°52	17°21	8° 7	n.a.	F 3
S 4	12 34 25	10°16'21	3♈16	14° 5	24° 9	14°29	20°51	9°28	25°19	16°46	20°57	16°51	17°18	8°14	n.a.	S 4
S 5	12 38 22	11°14'20	15°15	15°19	24°55	15° 8	20°54	9°27	25°18	16°44	20°58	16°D51	17°15	8°20	n.a.	S 5
M 6	12 42 18	12°12'18	27° 8	16°35	25°40	15°47	20°57	9°26	25°18	16°43	20°58	16°51	17°12	8°27	n.a.	M 6
T 7	12 46 15	13°10'14	8♉57	17°54	26°24	16°26	21° 0	9°24	25°18	16°41	20°59	16°52	17° 9	8°34	n.a.	T 7
W 8	12 50 12	14° 8'08	20°44	19°15	27° 7	17° 5	21° 3	9°23	25°18	16°40	20°59	16°52	17° 6	8°40	n.a.	W 8
T 9	12 54 8	15° 6'01	2♊34	20°38	27°49	17°44	21° 6	9°21	25°18	16°38	21° 0	16°52	17° 2	8°47	n.a.	T 9
F 10	12 58 5	16° 3'52	14°28	22° 4	28°30	18°23	21°10	9°19	25°17	16°37	21° 0	16°52	16°59	8°54	n.a.	F 10
S 11	13 2 1	17° 1'41	26°32	23°32	29°10	19° 2	21°13	9°18	25°17	16°36	21° 0	16°R52	16°56	9° 0	n.a.	S 11
S 12	13 5 58	17°59'28	8♋48	25° 1	29°49	19°41	21°17	9°16	25°17	16°34	21° 1	16°52	16°53	9° 7	n.a.	S 12
M13	13 9 54	18°57'13	21°22	26°33	0♊27	20°20	21°21	9°14	25°16	16°33	21° 1	16°D52	16°50	9°14	n.a.	M13
T 14	13 13 51	19°54'57	4♌17	28° 8	1° 3	20°59	21°26	9°12	25°16	16°32	21° 1	16°52	16°46	9°20	n.a.	T 14
W15	13 17 47	20°52'39	17°37	29°44	1°38	21°38	21°30	9°10	25°15	16°30	21° 2	16°53	16°43	9°27	n.a.	W15
T 16	13 21 44	21°50'19	1♍23	1♈22	2°12	22°17	21°34	9° 8	25°14	16°29	21° 2	16°53	16°40	9°34	n.a.	T 16
F 17	13 25 41	22°47'57	15°36	3° 3	2°45	22°56	21°39	9° 5	25°14	16°28	21° 2	16°54	16°37	9°40	n.a.	F 17
S 18	13 29 37	23°45'33	0♎12	4°45	3°16	23°35	21°44	9° 3	25°13	16°27	21° 2	16°54	16°34	9°47	n.a.	S 18
S 19	13 33 34	24°43'09	15° 8	6°30	3°45	24°14	21°49	9° 0	25°12	16°25	21° 3	16°R54	16°31	9°54	n.a.	S 19
M20	13 37 30	25°40'42	0♏16	8°17	4°13	24°53	21°54	8°58	25°11	16°24	21° 3	16°54	16°27	10° 0	n.a.	M20
T 21	13 41 27	26°38'15	15°27	10° 6	4°40	25°32	21°59	8°55	25°11	16°23	21° 3	16°53	16°24	10° 7	n.a.	T 21
W22	13 45 23	27°35'46	0♐31	11°56	5° 5	26°10	22° 5	8°53	25°10	16°22	21° 3	16°52	16°21	10°14	n.a.	W22
T 23	13 49 20	28°33'17	15°19	13°50	5°28	26°49	22°10	8°50	25° 9	16°21	21° 3	16°51	16°18	10°20	n.a.	T 23
F 24	13 53 16	29°30'46	29°47	15°45	5°49	27°28	22°16	8°47	25° 8	16°20	21° 3	16°50	16°15	10°27	n.a.	F 24
S 25	13 57 13	0♉28'15	13♑50	17°42	6° 9	28° 7	22°22	8°44	25° 7	16°19	21°R 3	16°49	16°12	10°34	n.a.	S 25
S 26	14 1 10	1°25'42	27°27	19°41	6°26	28°45	22°28	8°41	25° 6	16°18	21° 3	16°D48	16° 8	10°40	n.a.	S 26
M27	14 5 6	2°23'09	10♒39	21°42	6°42	29°24	22°34	8°38	25° 5	16°17	21° 3	16°48	16° 5	10°47	n.a.	M27
T 28	14 9 3	3°20'35	23°29	23°45	6°56	0♊ 3	22°40	8°35	25° 3	16°16	21° 3	16°49	16° 2	10°54	n.a.	T 28
W29	14 12 59	4°18'00	6♓ 0	25°49	7° 7	0°42	22°47	8°32	25° 2	16°15	21° 3	16°50	15°59	11° 0	n.a.	W29
T 30	14 16 56	5♉15'24	18♓16	27♈56	7♊17	1♊20	22♋53	8♐29	25♐ 1	16♍14	21♑ 3	16♈52	15♈56	11♉ 7	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	2n57	16s41	4s 5	10s 2	2s34	22n23	4n 7	16n25	0n40	23n 7	1n 2	20s48	1n21	23s54	0s16	6n52	1n45	30s21	8s23	6n43	6n56	16n 0		n.a.
T 2	3 21	11 21	3 15	9 40	2 38	22 38	4 9	16 37	0 41	23 7	1 2	20 48	1 21	23 54	0 16	6 53	1 45	30 21	8 24	6 43	6 55	16 3		n.a.
F 3	3 44	5 39	2 18	9 16	2 41	22 53	4 12	16 50	0 41	23 6	1 2	20 48	1 21	23 54	0 16	6 53	1 45	30 21	8 24	6 42	6 54	16 6		n.a.
S 4	4 7	0n11	1 15	8 50	2 43	23 8	4 14	17 2	0 41	23 6	1 2	20 48	1 21	23 54	0 16	6 54	1 45	30 22	8 24	6 42	6 52	16 9		n.a.
S 5	4 30	5 56	0 9	8 23	2 45	23 21	4 16	17 14	0 42	23 5	1 2	20 47	1 21	23 54	0 16	6 55	1 45	30 22	8 24	6 42	6 51	16 12		n.a.
M 6	4 53	11 27	0n57	7 54	2 47	23 35	4 18	17 26	0 42	23 5	1 2	20 47	1 21	23 54	0 16	6 55	1 45	30 22	8 25	6 42	6 50	16 15		n.a.
T 7	5 16	16 32	2 0	7 24	2 47	23 47	4 20	17 38	0 43	23 4	1 1	20 47	1 21	23 54	0 16	6 56	1 45	30 22	8 25	6 42	6 49	16 18		n.a.
W 8	5 38	21 0	2 57	6 52	2 47	23 59	4 22	17 50	0 43	23 4	1 1	20 47	1 21	23 54	0 16	6 56	1 45	30 22	8 25	6 42	6 47	16 21		n.a.
T 9	6 1	24 38	3 48	6 18	2 47	24 11	4 23	18 1	0 44	23 3	1 1	20 46	1 21	23 54	0 16	6 57	1 45	30 23	8 26	6 42	6 46	16 24		n.a.
F 10	6 23	27 15	4 28	5 43	2 46	24 21	4 25	18 13	0 44	23 2	1 1	20 46	1 21	23 54	0 16	6 57	1 45	30 23	8 26	6 42	6 45	16 27		n.a.
S 11	6 46	28 38	4 58	5 6	2 44	24 32	4 26	18 24	0 45	23 2	1 1	20 46	1 21	23 54	0 16	6 58	1 45	30 23	8 26	6 42	6 44	16 30		n.a.
S 12	7 8	28 39	5 14	4 28	2 42	24 41	4 27	18 35	0 45	23 1	1 1	20 45	1 21	23 54	0 16	6 58	1 45	30 23	8 26	6 42	6 42	16 33		n.a.
M13	7 30	27 13	5 17	3 48	2 39	24 50	4 28	18 46	0 45	23 0	1 1	20 45	1 22	23 54	0 16	6 59	1 45	30 23	8 27	6 42	6 41	16 36		n.a.
T 14	7 53	24 19	5 3	3 7	2 35	24 59	4 28	18 57	0 46	23 0	1 1	20 45	1 22	23 54	0 16	6 59	1 45	30 24	8 27	6 42	6 40	16 39		n.a.
W15	8 15	20 4	4 33	2 25	2 31	25 7	4 28	19 8	0 46	22 59	1 1	20 44	1 22	23 54	0 16	7 0	1 45	30 24	8 27	6 42	6 39	16 42		n.a.
T 16	8 36	14 38	3 47	1 41	2 27	25 14	4 29	19 18	0 47	22 58	1 1	20 44	1 22	23 54	0 16	7 0	1 45	30 24	8 28	6 43	6 38	16 45		n.a.
F 17	8 58	8 17	2 45	0 56	2 22	25 20	4 28	19 29	0 47	22 57	1 0	20 44	1 22	23 54	0 16	7 1	1 45	30 24	8 28	6 43	6 36	16 48		n.a.
S 18	9 20	1 19	1 31	0 10	2 16	25 26	4 28	19 39	0 47	22 56	1 0	20 43	1 22	23 54	0 16	7 1	1 45	30 25	8 28	6 43	6 35	16 51		n.a.
S 19	9 41	5s53	0 10	0n38	2 10	25 31	4 27	19 49	0 48	22 55	1 0	20 43	1 22	23 54	0 16	7 2	1 45	30 25	8 28	6 43	6 34	16 53		n.a.
M20	10 2	12 51	1s14	1 26	2 3	25 36	4 26	19 59	0 48	22 54	1 0	20 42	1 22	23 54	0 16	7 2	1 45	30 25	8 29	6 43	6 33	16 56		n.a.
T 21	10 23	19 5	2 32	2 16	1 56	25 40	4 25	20 9	0 49	22 53	1 0	20 42	1 22	23 54	0 16	7 3	1 45	30 25	8 29	6 43	6 31	16 59		n.a.
W22	10 44	24 4	3 39	3 7	1 48	25 43	4 23	20 19	0 49	22 52	1 0	20 42	1 22	23 54	0 16	7 3	1 45	30 26	8 29	6 42	6 30	17 2		n.a.
T 23	11 5	27 23	4 30	3 59	1 40	25 45	4 22	20 28	0 49	22 51	1 0	20 41	1 22	23 54	0 16	7 3	1 45	30 26	8 30	6 42	6 29	17 5		n.a.
F 24	11 26	28 46	5 3	4 52	1 31	25 47	4 19	20 38	0 50	22 50	1 0	20 41	1 22	23 54	0 16	7 4	1 45	30 26	8 30	6 41	6 28	17 8		n.a.
S 25	11 46	28 14	5 16	5 46	1 22	25 48	4 17	20 47	0 50	22 49	1 0	20 40	1 22	23 54	0 16	7 4	1 45	30 27	8 30	6 41	6 26	17 11		n.a.
S 26	12 6	26 0	5 11	6 40	1 13	25 48	4 14	20 56	0 50	22 48	1 0	20 40	1 22	23 54	0 16	7 5	1 45	30 27	8 30	6 41	6 25	17 14		n.a.
M27	12 27	22 25	4 50	7 35	1 3	25 48	4 11	21 5	0 51	22 47	1 0	20 39	1 22	23 54	0 16	7 5	1 45	30 27	8 31	6 41	6 24	17 17		n.a.
T 28	12 46	17 51	4 14	8 30	0 53	25 47	4 7	21 14	0 51	22 46	0 59	20 39	1 22	23 54	0 16	7 5	1 45	30 27	8 31	6 41	6 23	17 20		n.a.
W29	13 6	12 37	3 27	9 26	0 43	25 45	4 3	21 22	0 51	22 45	0 59	20 38	1 22	23 54	0 16	7 6	1 45	30 28	8 31	6 42	6 22	17 22		n.a.
T 30	13n26	7s 1	2s32	10n21	0s33	25n42	3n59	21n31	0n52	22n44	0n59	20s38	1n22	23s54	0s16	7n 6	1n45	30s28	8s32	6n42	6n20	17n25		n.a.

Julian Day Number = 1651385.5, Delta T = 03h30m49s
Ecliptic obliquity = 23°43'16, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°42'57, Lahiri = - 6°35'56 Julian Calendar 1 Apr. 192 BCE == Greg. Calendar 29 March 192 BCE

The year -191 astronomical counting style corresponds to year 192 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 192 BCE
geocentric

MAY 192 BCE (-191) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 20 52	6♉12'47	0♈20	0♉ 3	7♊25	1♊59	23♋ 0	8°R25	25°R 0	16°R13	21°R 3	16♈53	15♈52	11♉14	n.a.	F 1
S 2	14 24 49	7°10'09	12°16	2°12	7°30	2°38	23° 7	8♐22	24♐58	16♍12	21♑ 3	16°R54	15°49	11°20	n.a.	S 2
S 3	14 28 45	8° 7'31	24° 7	4°22	7°33	3°16	23°14	8°18	24°57	16°11	21° 2	16°54	15°46	11°27	n.a.	S 3
M 4	14 32 42	9° 4'51	5♉56	6°33	7°R34	3°55	23°21	8°15	24°56	16°10	21° 2	16°52	15°43	11°34	n.a.	M 4
T 5	14 36 39	10° 2'11	17°43	8°44	7°32	4°33	23°28	8°11	24°54	16° 9	21° 2	16°50	15°40	11°40	n.a.	T 5
W 6	14 40 35	10°59'30	29°33	10°56	7°28	5°12	23°36	8° 8	24°53	16° 8	21° 2	16°47	15°37	11°47	n.a.	W 6
T 7	14 44 32	11°56'48	11♊26	13° 8	7°22	5°51	23°43	8° 4	24°51	16° 8	21° 1	16°43	15°33	11°53	n.a.	T 7
F 8	14 48 28	12°54'05	23°26	15°20	7°13	6°29	23°51	8° 0	24°50	16° 7	21° 1	16°39	15°30	12° 0	n.a.	F 8
S 9	14 52 25	13°51'21	5♋34	17°31	7° 2	7° 8	23°59	7°57	24°48	16° 6	21° 1	16°34	15°27	12° 7	n.a.	S 9
S 10	14 56 21	14°48'36	17°54	19°41	6°48	7°46	24° 6	7°53	24°46	16° 5	21° 0	16°31	15°24	12°13	n.a.	S 10
M11	15 0 18	15°45'51	0♌28	21°50	6°32	8°25	24°14	7°49	24°45	16° 5	21° 0	16°29	15°21	12°20	n.a.	M11
T 12	15 4 15	16°43'04	13°21	23°59	6°14	9° 3	24°22	7°45	24°43	16° 4	21° 0	16°D28	15°17	12°27	n.a.	T 12
W13	15 8 11	17°40'16	26°34	26° 5	5°54	9°42	24°31	7°41	24°41	16° 4	20°59	16°28	15°14	12°33	n.a.	W13
T 14	15 12 8	18°37'27	10♍11	28°11	5°31	10°20	24°39	7°37	24°39	16° 3	20°59	16°29	15°11	12°40	n.a.	T 14
F 15	15 16 4	19°34'38	24°14	0♎14	5° 6	10°59	24°48	7°33	24°38	16° 3	20°58	16°31	15° 8	12°47	n.a.	F 15
S 16	15 20 1	20°31'47	8♎41	2°16	4°39	11°37	24°56	7°29	24°36	16° 2	20°58	16°32	15° 5	12°53	n.a.	S 16
S 17	15 23 57	21°28'56	23°30	4°15	4°10	12°16	25° 5	7°25	24°34	16° 2	20°57	16°R32	15° 2	13° 0	n.a.	S 17
M18	15 27 54	22°26'04	8♏35	6°13	3°39	12°54	25°14	7°21	24°32	16° 1	20°57	16°30	14°58	13° 7	n.a.	M18
T 19	15 31 50	23°23'12	23°48	8° 8	3° 7	13°32	25°22	7°16	24°30	16° 1	20°56	16°27	14°55	13°13	n.a.	T 19
W20	15 35 47	24°20'19	9♐ 0	10° 1	2°33	14°11	25°31	7°12	24°28	16° 0	20°55	16°22	14°52	13°20	n.a.	W20
T 21	15 39 44	25°17'26	23°59	11°52	1°58	14°49	25°41	7° 8	24°26	16° 0	20°55	16°17	14°49	13°27	n.a.	T 21
F 22	15 43 40	26°14'33	8♑38	13°41	1°23	15°28	25°50	7° 4	24°24	16° 0	20°54	16°11	14°46	13°33	n.a.	F 22
S 23	15 47 37	27°11'40	22°51	15°28	0°46	16° 6	25°59	6°59	24°22	15°59	20°54	16° 6	14°43	13°40	n.a.	S 23
S 24	15 51 33	28° 8'47	6♒36	17°12	0° 9	16°44	26° 8	6°55	24°20	15°59	20°53	16° 3	14°39	13°47	n.a.	S 24
M25	15 55 30	29° 5'53	19°52	18°54	29♉31	17°23	26°18	6°51	24°18	15°59	20°52	16° 1	14°36	13°53	n.a.	M25
T 26	15 59 26	0♊ 3'00	2♓42	20°34	28°54	18° 1	26°28	6°46	24°16	15°59	20°51	16°D 0	14°33	14° 0	n.a.	T 26
W27	16 3 23	1° 0'07	15°10	22°11	28°16	18°39	26°37	6°42	24°14	15°58	20°51	16° 1	14°30	14° 7	n.a.	W27
T 28	16 7 19	1°57'14	27°21	23°46	27°39	19°18	26°47	6°38	24°12	15°58	20°50	16° 3	14°27	14°13	n.a.	T 28
F 29	16 11 16	2°54'20	9♈20	25°19	27° 3	19°56	26°57	6°33	24° 9	15°58	20°49	16° 4	14°23	14°20	n.a.	F 29
S 30	16 15 13	3°51'27	21°11	26°49	26°27	20°34	27° 7	6°29	24° 7	15°58	20°48	16°R 4	14°20	14°27	n.a.	S 30
S 31	16 19 9	4♊48'35	2♉58	28♊17	25♉53	21♊12	27♋17	6♐24	24♐ 5	15♍58	20♑47	16♈ 2	14♈17	14♉33	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13n45	1s14	1s30	11n17	0s22	25n39	3n54	21n39	0n52	22n42	0n59	20s37	1n22	23s54	0s16	7n 6	1n45	30s28	8s32	6n43	6n19	17n28		n.a.
S 2	14 4	4n31	0 26	12 12	0 11	25 34	3 48	21 47	0 52	22 41	0 59	20 37	1 22	23 54	0 16	7 7	1 45	30 29	8 32	6 43	6 18	17 31		n.a.
S 3	14 23	10 5	0n40	13 7	0 1	25 29	3 43	21 55	0 53	22 40	0 59	20 36	1 22	23 54	0 16	7 7	1 45	30 29	8 32	6 43	6 17	17 34		n.a.
M 4	14 41	15 16	1 43	14 1	0n10	25 23	3 36	22 3	0 53	22 39	0 59	20 36	1 22	23 54	0 16	7 7	1 45	30 29	8 33	6 42	6 15	17 37		n.a.
T 5	15 0	19 54	2 42	14 54	0 20	25 16	3 30	22 11	0 53	22 37	0 59	20 35	1 22	23 54	0 16	7 8	1 44	30 30	8 33	6 41	6 14	17 40		n.a.
W 6	15 18	23 46	3 34	15 46	0 31	25 9	3 23	22 18	0 54	22 36	0 59	20 34	1 22	23 53	0 16	7 8	1 44	30 30	8 33	6 40	6 13	17 42		n.a.
T 7	15 36	26 39	4 16	16 37	0 41	25 0	3 15	22 25	0 54	22 34	0 59	20 34	1 22	23 53	0 16	7 8	1 44	30 30	8 34	6 39	6 12	17 45		n.a.
F 8	15 54	28 21	4 48	17 25	0 50	24 50	3 7	22 32	0 54	22 33	0 59	20 33	1 22	23 53	0 16	7 8	1 44	30 30	8 34	6 37	6 10	17 48		n.a.
S 9	16 11	28 43	5 8	18 12	1 0	24 40	2 58	22 39	0 55	22 32	0 59	20 33	1 22	23 53	0 16	7 9	1 44	30 31	8 34	6 35	6 9	17 51		n.a.
S 10	16 28	27 41	5 13	18 57	1 8	24 29	2 49	22 46	0 55	22 30	0 59	20 32	1 22	23 53	0 16	7 9	1 44	30 31	8 34	6 34	6 8	17 54		n.a.
M11	16 45	25 14	5 4	19 40	1 17	24 16	2 40	22 53	0 55	22 29	0 58	20 31	1 22	23 53	0 16	7 9	1 44	30 31	8 35	6 33	6 7	17 57		n.a.
T 12	17 2	21 28	4 40	20 21	1 24	24 3	2 29	22 59	0 56	22 27	0 58	20 31	1 22	23 53	0 16	7 9	1 44	30 32	8 35	6 33	6 5	17 59		n.a.
W13	17 18	16 33	4 0	20 59	1 31	23 49	2 19	23 5	0 56	22 26	0 58	20 30	1 22	23 53	0 16	7 9	1 44	30 32	8 35	6 33	6 4	18 2		n.a.
T 14	17 34	10 42	3 6	21 34	1 38	23 34	2 8	23 11	0 56	22 24	0 58	20 30	1 22	23 53	0 16	7 10	1 44	30 32	8 35	6 33	6 3	18 5		n.a.
F 15	17 50	4 8	1 59	22 7	1 43	23 18	1 56	23 17	0 57	22 22	0 58	20 29	1 22	23 53	0 16	7 10	1 44	30 33	8 36	6 34	6 2	18 8		n.a.
S 16	18 6	2s50	0 43	22 38	1 49	23 2	1 45	23 23	0 57	22 21	0 58	20 28	1 22	23 53	0 16	7 10	1 44	30 33	8 36	6 34	6 0	18 11		n.a.
S 17	18 21	9 49	0s38	23 6	1 53	22 44	1 32	23 28	0 57	22 19	0 58	20 28	1 22	23 53	0 16	7 10	1 44	30 34	8 36	6 34	5 59	18 14		n.a.
M18	18 36	16 23	1 57	23 31	1 57	22 26	1 20	23 34	0 57	22 17	0 58	20 27	1 22	23 53	0 16	7 10	1 44	30 34	8 37	6 34	5 58	18 16		n.a.
T 19	18 50	22 0	3 9	23 53	2 0	22 7	1 7	23 39	0 58	22 16	0 58	20 26	1 22	23 53	0 16	7 10	1 44	30 34	8 37	6 33	5 57	18 19		n.a.
W20	19 5	26 8	4 7	24 13	2 2	21 47	0 53	23 44	0 58	22 14	0 58	20 26	1 21	23 53	0 17	7 10	1 44	30 35	8 37	6 31	5 55	18 22		n.a.
T 21	19 19	28 22	4 47	24 31	2 3	21 27	0 40	23 49	0 58	22 12	0 58	20 25	1 21	23 53	0 17	7 11	1 44	30 35	8 37	6 29	5 54	18 25		n.a.
F 22	19 32	28 33	5 8	24 46	2 4	21 6	0 26	23 53	0 58	22 10	0 58	20 24	1 21	23 53	0 17	7 11	1 44	30 35	8 38	6 26	5 53	18 27		n.a.
S 23	19 46	26 49	5 8	24 58	2 4	20 45	0 12	23 58	0 59	22 9	0 58	20 24	1 21	23 53	0 17	7 11	1 44	30 36	8 38	6 24	5 52	18 30		n.a.
S 24	19 59	23 31	4 51	25 9	2 4	20 23	0s 2	24 2	0 59	22 7	0 58	20 23	1 21	23 52	0 17	7 11	1 44	30 36	8 38	6 23	5 51	18 33		n.a.
M25	20 12	19 6	4 18	25 17	2 2	20 1	0 16	24 6	0 59	22 5	0 58	20 22	1 21	23 52	0 17	7 11	1 44	30 36	8 38	6 22	5 49	18 36		n.a.
T 26	20 24	13 57	3 33	25 23	2 0	19 40	0 30	24 10	0 59	22 3	0 57	20 22	1 21	23 52	0 17	7 11	1 44	30 37	8 39	6 22	5 48	18 39		n.a.
W27	20 36	8 21	2 39	25 27	1 58	19 18	0 44	24 13	1 0	22 1	0 57	20 21	1 21	23 52	0 17	7 11	1 43	30 37	8 39	6 22	5 47	18 41		n.a.
T 28	20 48	2 35	1 40	25 29	1 55	18 56	0 58	24 17	1 0	21 59	0 57	20 20	1 21	23 52	0 17	7 11	1 43	30 37	8 39	6 23	5 46	18 44		n.a.
F 29	20 59	3n11	0 36	25 29	1 51	18 34	1 11	24 20	1 0	21 57	0 57	20 20	1 21	23 52	0 17	7 11	1 43	30 38	8 39	6 23	5 44	18 47		n.a.
S 30	21 10	8 47	0n28	25 27	1 46	18 13	1 25	24 23	1 0	21 55	0 57	20 19	1 21	23 52	0 17	7 11	1 43	30 38	8 40	6 23	5 43	18 50		n.a.
S 31	21n21	14n 3	1n30	25n24	1n41	17n52	1s38	24n26	1n 1	21n53	0n57	20s18	1n21	23s52	0s17	7n11	1n43	30s39	8s40	6n23	5n42	18n52		n.a.

Julian Day Number = 1651415.5, Delta T = 03h30m48s
Ecliptic obliquity = 23°43'15, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°42'52, Lahiri = - 6°35'52 Julian Calendar 1 May 192 BCE == Greg. Calendar 28 Apr. 192 BCE

The year -191 astronomical counting style corresponds to year 192 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 192 BCE
geocentric

JUNE 192 BCE (-191) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 23 6	5♊45'42	14♉46	29♊43	25°R20	21♊51	27♋27	6°R20	24°R 3	15°D58	20°R47	15°R58	14♈14	14♉40	n.a.	M 1
T 2	16 27 2	6°42'49	26°36	1♋ 6	24♉48	22°29	27°37	6♐16	24♐ 0	15♍58	20♑46	15♈52	14°11	14°47	n.a.	T 2
W 3	16 30 59	7°39'57	8♊30	2°27	24°18	23° 7	27°48	6°11	23°58	15°58	20°45	15°44	14° 8	14°53	n.a.	W 3
T 4	16 34 55	8°37'05	20°32	3°46	23°50	23°46	27°58	6° 7	23°56	15°58	20°44	15°35	14° 4	15° 0	n.a.	T 4
F 5	16 38 52	9°34'13	2♋41	5° 1	23°24	24°24	28° 9	6° 2	23°54	15°58	20°43	15°25	14° 1	15° 7	n.a.	F 5
S 6	16 42 49	10°31'20	15° 0	6°15	23° 0	25° 2	28°19	5°58	23°51	15°59	20°42	15°16	13°58	15°13	n.a.	S 6
S 7	16 46 45	11°28'28	27°29	7°25	22°38	25°40	28°30	5°54	23°49	15°59	20°41	15° 7	13°55	15°20	n.a.	S 7
M 8	16 50 42	12°25'36	10♌10	8°33	22°18	26°19	28°41	5°49	23°47	15°59	20°40	15° 1	13°52	15°27	n.a.	M 8
T 9	16 54 38	13°22'44	23° 6	9°38	22° 0	26°57	28°51	5°45	23°44	15°59	20°39	14°57	13°49	15°33	n.a.	T 9
W10	16 58 35	14°19'52	6♍19	10°40	21°45	27°35	29° 2	5°41	23°42	16° 0	20°38	14°55	13°45	15°40	n.a.	W10
T 11	17 2 31	15°17'00	19°50	11°39	21°32	28°13	29°13	5°36	23°39	16° 0	20°37	14°D55	13°42	15°47	n.a.	T 11
F 12	17 6 28	16°14'08	3♎42	12°35	21°21	28°51	29°24	5°32	23°37	16° 0	20°36	14°55	13°39	15°53	n.a.	F 12
S 13	17 10 24	17°11'15	17°55	13°28	21°13	29°30	29°35	5°28	23°35	16° 1	20°35	14°R56	13°36	16° 0	n.a.	S 13
S 14	17 14 21	18° 8'24	2♏29	14°18	21° 7	0♋ 8	29°46	5°24	23°32	16° 1	20°34	14°54	13°33	16° 7	n.a.	S 14
M15	17 18 18	19° 5'32	17°19	15° 4	21° 3	0°46	29°58	5°19	23°30	16° 1	20°33	14°51	13°29	16°13	n.a.	M15
T 16	17 22 14	20° 2'41	2♐21	15°46	21°D 2	1°24	0♌ 9	5°15	23°27	16° 2	20°32	14°45	13°26	16°20	n.a.	T 16
W17	17 26 11	20°59'50	17°24	16°25	21° 3	2° 2	0°20	5°11	23°25	16° 2	20°31	14°37	13°23	16°27	n.a.	W17
T 18	17 30 7	21°57'00	2♑20	16°59	21° 7	2°41	0°32	5° 7	23°23	16° 3	20°30	14°28	13°20	16°33	n.a.	T 18
F 19	17 34 4	22°54'10	16°59	17°30	21°13	3°19	0°43	5° 3	23°20	16° 4	20°28	14°18	13°17	16°40	n.a.	F 19
S 20	17 38 0	23°51'21	1♒15	17°57	21°20	3°57	0°55	4°59	23°18	16° 4	20°27	14° 9	13°14	16°47	n.a.	S 20
S 21	17 41 57	24°48'33	15° 4	18°19	21°31	4°35	1° 6	4°55	23°15	16° 5	20°26	14° 1	13°10	16°53	n.a.	S 21
M22	17 45 53	25°45'46	28°23	18°36	21°43	5°13	1°18	4°51	23°13	16° 5	20°25	13°56	13° 7	17° 0	n.a.	M22
T 23	17 49 50	26°43'00	11♓16	18°49	21°57	5°51	1°30	4°47	23°11	16° 6	20°24	13°53	13° 4	17° 7	n.a.	T 23
W24	17 53 47	27°40'14	23°46	18°57	22°13	6°30	1°42	4°43	23° 8	16° 7	20°22	13°D52	13° 1	17°13	n.a.	W24
T 25	17 57 43	28°37'30	5♈57	19°R 1	22°31	7° 8	1°53	4°39	23° 6	16° 8	20°21	13°52	12°58	17°20	n.a.	T 25
F 26	18 1 40	29°34'47	17°55	18°59	22°51	7°46	2° 5	4°35	23° 3	16° 8	20°20	13°R52	12°55	17°27	n.a.	F 26
S 27	18 5 36	0♋32'05	29°46	18°52	23°12	8°24	2°17	4°32	23° 1	16° 9	20°19	13°51	12°51	17°33	n.a.	S 27
S 28	18 9 33	1°29'24	11♉33	18°40	23°36	9° 2	2°29	4°28	22°59	16°10	20°18	13°48	12°48	17°40	n.a.	S 28
M29	18 13 29	2°26'44	23°22	18°23	24° 1	9°40	2°41	4°24	22°56	16°11	20°16	13°43	12°45	17°47	n.a.	M29
T 30	18 17 26	3♋24'05	5♊17	18♋ 1	24♉28	10♋19	2♌53	4♐21	22♐54	16♍12	20♑15	13♈35	12♈42	17♉53	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21n31	18n49	2n28	25n19	1n36	17n32	1s51	24n29	1n 1	21n51	0n57	20s18	1n21	23s52	0s17	7n11	1n43	30s39	8s40	6n21	5n41	18n55		n.a.
T 2	21 41	22 52	3 20	25 12	1 29	17 12	2 3	24 31	1 1	21 49	0 57	20 17	1 21	23 52	0 17	7 11	1 43	30 39	8 40	6 19	5 39	18 58		n.a.
W 3	21 51	26 0	4 4	25 5	1 23	16 53	2 15	24 34	1 1	21 47	0 57	20 16	1 21	23 52	0 17	7 11	1 43	30 40	8 40	6 16	5 38	19 1		n.a.
T 4	22 0	27 59	4 37	24 55	1 15	16 35	2 27	24 36	1 2	21 45	0 57	20 16	1 21	23 51	0 17	7 11	1 43	30 40	8 41	6 12	5 37	19 3		n.a.
F 5	22 9	28 39	4 58	24 45	1 7	16 18	2 38	24 38	1 2	21 42	0 57	20 15	1 20	23 51	0 17	7 10	1 43	30 40	8 41	6 8	5 36	19 6		n.a.
S 6	22 17	27 55	5 5	24 33	0 59	16 1	2 49	24 40	1 2	21 40	0 57	20 14	1 20	23 51	0 17	7 10	1 43	30 41	8 41	6 5	5 34	19 9		n.a.
S 7	22 25	25 47	4 58	24 21	0 50	15 46	2 59	24 41	1 2	21 38	0 57	20 14	1 20	23 51	0 17	7 10	1 43	30 41	8 41	6 1	5 33	19 11		n.a.
M 8	22 33	22 20	4 37	24 7	0 41	15 31	3 9	24 43	1 3	21 36	0 57	20 13	1 20	23 51	0 17	7 10	1 43	30 42	8 42	5 59	5 32	19 14		n.a.
T 9	22 40	17 45	4 1	23 53	0 31	15 18	3 18	24 44	1 3	21 33	0 57	20 12	1 20	23 51	0 17	7 10	1 43	30 42	8 42	5 57	5 31	19 17		n.a.
W10	22 47	12 15	3 11	23 37	0 20	15 5	3 27	24 45	1 3	21 31	0 57	20 12	1 20	23 51	0 17	7 10	1 43	30 42	8 42	5 57	5 29	19 20		n.a.
T 11	22 54	6 4	2 10	23 22	0 9	14 54	3 35	24 46	1 3	21 29	0 57	20 11	1 20	23 51	0 17	7 10	1 43	30 43	8 42	5 56	5 28	19 22		n.a.
F 12	23 0	0s35	1 0	23 5	0s 2	14 44	3 42	24 46	1 3	21 26	0 57	20 10	1 20	23 51	0 17	7 9	1 43	30 43	8 42	5 57	5 27	19 25		n.a.
S 13	23 6	7 21	0s16	22 48	0 14	14 35	3 50	24 47	1 4	21 24	0 57	20 10	1 20	23 51	0 17	7 9	1 43	30 43	8 43	5 57	5 26	19 28		n.a.
S 14	23 11	13 55	1 32	22 31	0 26	14 27	3 56	24 47	1 4	21 22	0 57	20 9	1 20	23 50	0 17	7 9	1 43	30 44	8 43	5 56	5 24	19 30		n.a.
M15	23 16	19 49	2 44	22 14	0 38	14 20	4 3	24 47	1 4	21 19	0 57	20 8	1 19	23 50	0 17	7 9	1 42	30 44	8 43	5 55	5 23	19 33		n.a.
T 16	23 21	24 32	3 44	21 56	0 51	14 14	4 8	24 47	1 4	21 17	0 57	20 8	1 19	23 50	0 17	7 9	1 42	30 44	8 43	5 53	5 22	19 36		n.a.
W17	23 25	27 35	4 30	21 38	1 4	14 9	4 13	24 47	1 4	21 14	0 57	20 7	1 19	23 50	0 17	7 8	1 42	30 45	8 43	5 50	5 21	19 38		n.a.
T 18	23 28	28 38	4 56	21 21	1 17	14 6	4 18	24 46	1 4	21 12	0 57	20 6	1 19	23 50	0 17	7 8	1 42	30 45	8 43	5 46	5 19	19 41		n.a.
F 19	23 32	27 37	5 2	21 3	1 31	14 3	4 23	24 45	1 5	21 9	0 57	20 6	1 19	23 50	0 17	7 8	1 42	30 46	8 44	5 42	5 18	19 44		n.a.
S 20	23 35	24 49	4 49	20 46	1 45	14 1	4 26	24 44	1 5	21 7	0 57	20 5	1 19	23 50	0 17	7 7	1 42	30 46	8 44	5 38	5 17	19 46		n.a.
S 21	23 37	20 38	4 20	20 29	1 59	14 1	4 30	24 43	1 5	21 4	0 57	20 5	1 19	23 50	0 17	7 7	1 42	30 46	8 44	5 36	5 16	19 49		n.a.
M22	23 39	15 33	3 37	20 13	2 13	14 1	4 33	24 42	1 5	21 1	0 57	20 4	1 19	23 50	0 17	7 7	1 42	30 47	8 44	5 34	5 14	19 52		n.a.
T 23	23 41	9 57	2 44	19 58	2 27	14 2	4 36	24 41	1 5	20 59	0 56	20 3	1 18	23 49	0 17	7 7	1 42	30 47	8 44	5 32	5 13	19 54		n.a.
W24	23 42	4 6	1 45	19 43	2 41	14 3	4 38	24 39	1 5	20 56	0 56	20 3	1 18	23 49	0 17	7 6	1 42	30 47	8 44	5 32	5 12	19 57		n.a.
T 25	23 43	1n45	0 42	19 28	2 55	14 6	4 40	24 37	1 6	20 53	0 56	20 2	1 18	23 49	0 17	7 6	1 42	30 48	8 45	5 32	5 11	20 0		n.a.
F 26	23 43	7 26	0n21	19 15	3 8	14 9	4 42	24 35	1 6	20 51	0 56	20 2	1 18	23 49	0 17	7 6	1 42	30 48	8 45	5 32	5 9	20 2		n.a.
S 27	23 43	12 49	1 23	19 3	3 21	14 14	4 43	24 33	1 6	20 48	0 56	20 1	1 18	23 49	0 17	7 5	1 42	30 48	8 45	5 32	5 8	20 5		n.a.
S 28	23 43	17 43	2 21	18 52	3 34	14 18	4 44	24 30	1 6	20 45	0 56	20 1	1 18	23 49	0 17	7 5	1 42	30 49	8 45	5 31	5 7	20 7		n.a.
M29	23 42	21 57	3 13	18 43	3 46	14 24	4 45	24 28	1 6	20 42	0 56	20 0	1 18	23 49	0 17	7 4	1 42	30 49	8 45	5 28	5 6	20 10		n.a.
T 30	23n41	25n18	3n57	18n34	3s57	14n30	4s45	24n25	1n 6	20n39	0n56	20s 0	1n17	23s49	0s17	7n 4	1n42	30s49	8s45	5n25	5n 4	20n13		n.a.

Julian Day Number = 1651446.5, Delta T = 03h30m47s
Ecliptic obliquity = 23°43'15, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°42'48, Lahiri = - 6°35'48 Julian Calendar 1 June 192 BCE == Greg. Calendar 29 May 192 BCE

The year -191 astronomical counting style corresponds to year 192 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 192 BCE
geocentric

JULY 192 BCE (-191) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 21 23	4♋21'27	17♊19	17°R35	24♉56	10♋57	3♌ 5	4°R17	22°R51	16♍13	20°R14	13°R24	12♈39	18♉ 0	n.a.	W 1
T 2	18 25 19	5°18'51	29°31	17♋ 4	25°25	11°35	3°18	4♐14	22♐49	16°14	20♑12	13♈11	12°35	18° 7	n.a.	T 2
F 3	18 29 16	6°16'15	11♋53	16°29	25°57	12°13	3°30	4°10	22°47	16°15	20°11	12°58	12°32	18°14	n.a.	F 3
S 4	18 33 12	7°13'41	24°27	15°50	26°29	12°51	3°42	4° 7	22°44	16°16	20°10	12°45	12°29	18°20	n.a.	S 4
S 5	18 37 9	8°11'08	7♌13	15° 8	27° 3	13°29	3°54	4° 4	22°42	16°17	20° 9	12°34	12°26	18°27	n.a.	S 5
M 6	18 41 5	9° 8'35	20°10	14°23	27°38	14° 8	4° 7	4° 0	22°40	16°18	20° 7	12°25	12°23	18°34	n.a.	M 6
T 7	18 45 2	10° 6'04	3♍18	13°37	28°14	14°46	4°19	3°57	22°38	16°19	20° 6	12°18	12°20	18°40	n.a.	T 7
W 8	18 48 58	11° 3'33	16°39	12°50	28°52	15°24	4°32	3°54	22°35	16°20	20° 5	12°15	12°16	18°47	n.a.	W 8
T 9	18 52 55	12° 1'03	0♎13	12° 3	29°30	16° 2	4°44	3°51	22°33	16°21	20° 3	12°14	12°13	18°54	n.a.	T 9
F 10	18 56 52	12°58'34	14° 1	11°16	0♊10	16°40	4°57	3°48	22°31	16°23	20° 2	12°14	12°10	19° 0	n.a.	F 10
S 11	19 0 48	13°56'06	28° 4	10°31	0°51	17°18	5° 9	3°46	22°29	16°24	20° 1	12°13	12° 7	19° 7	n.a.	S 11
S 12	19 4 45	14°53'39	12♏22	9°48	1°33	17°57	5°22	3°43	22°27	16°25	19°59	12°12	12° 4	19°14	n.a.	S 12
M13	19 8 41	15°51'14	26°53	9° 9	2°16	18°35	5°34	3°40	22°24	16°26	19°58	12° 8	12° 1	19°20	n.a.	M13
T 14	19 12 38	16°48'49	11♐33	8°34	2°59	19°13	5°47	3°37	22°22	16°28	19°57	12° 1	11°57	19°27	n.a.	T 14
W15	19 16 34	17°46'26	26°15	8° 4	3°44	19°51	6° 0	3°35	22°20	16°29	19°55	11°52	11°54	19°34	n.a.	W15
T 16	19 20 31	18°44'04	10♑53	7°40	4°30	20°29	6°12	3°32	22°18	16°30	19°54	11°41	11°51	19°40	n.a.	T 16
F 17	19 24 27	19°41'43	25°19	7°22	5°16	21° 7	6°25	3°30	22°16	16°32	19°53	11°30	11°48	19°47	n.a.	F 17
S 18	19 28 24	20°39'23	9♒26	7°10	6° 3	21°46	6°38	3°28	22°14	16°33	19°51	11°19	11°45	19°54	n.a.	S 18
S 19	19 32 21	21°37'06	23°10	7°D 6	6°52	22°24	6°51	3°26	22°12	16°35	19°50	11°10	11°41	20° 0	n.a.	S 19
M20	19 36 17	22°34'49	6♓28	7° 9	7°40	23° 2	7° 3	3°23	22°10	16°36	19°49	11° 4	11°38	20° 7	n.a.	M20
T 21	19 40 14	23°32'35	19°21	7°19	8°30	23°40	7°16	3°21	22° 8	16°38	19°47	11° 0	11°35	20°14	n.a.	T 21
W22	19 44 10	24°30'22	1♈52	7°37	9°20	24°18	7°29	3°19	22° 6	16°39	19°46	10°58	11°32	20°20	n.a.	W22
T 23	19 48 7	25°28'11	14° 5	8° 3	10°11	24°57	7°42	3°18	22° 4	16°41	19°45	10°D58	11°29	20°27	n.a.	T 23
F 24	19 52 3	26°26'02	26° 4	8°36	11° 3	25°35	7°55	3°16	22° 2	16°42	19°43	10°R58	11°26	20°34	n.a.	F 24
S 25	19 56 0	27°23'55	7♉56	9°17	11°55	26°13	8° 8	3°14	22° 1	16°44	19°42	10°58	11°22	20°40	n.a.	S 25
S 26	19 59 56	28°21'50	19°45	10° 5	12°48	26°51	8°21	3°12	21°59	16°45	19°41	10°55	11°19	20°47	n.a.	S 26
M27	20 3 53	29°19'46	1♊37	11° 0	13°42	27°30	8°34	3°11	21°57	16°47	19°39	10°51	11°16	20°54	n.a.	M27
T 28	20 7 50	0♌17'45	13°35	12° 3	14°36	28° 8	8°47	3°10	21°55	16°49	19°38	10°44	11°13	21° 0	n.a.	T 28
W29	20 11 46	1°15'45	25°45	13°11	15°31	28°46	8°59	3° 8	21°54	16°50	19°37	10°35	11°10	21° 7	n.a.	W29
T 30	20 15 43	2°13'48	8♋ 7	14°26	16°26	29°24	9°12	3° 7	21°52	16°52	19°35	10°24	11° 7	21°14	n.a.	T 30
F 31	20 19 39	3♌11'52	20♋44	15♋47	17♊22	0♌ 3	9♌25	3♐ 6	21♐50	16♍54	19♑34	10♈12	11♈ 3	21♉20	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	23n39	27n35	4n30	18n27	4s 8	14n36	4s46	24n22	1n 7	20n37	0n56	19s59	1n17	23s48	0s17	7n 4	1n42	30s50	8s45	5n21	5n 3	20n15		n.a.
T 2	23 37	28 35	4 52	18 22	4 17	14 43	4 45	24 19	1 7	20 34	0 56	19 59	1 17	23 48	0 17	7 3	1 42	30 50	8 46	5 16	5 2	20 18		n.a.
F 3	23 34	28 10	5 0	18 18	4 25	14 51	4 45	24 16	1 7	20 31	0 56	19 58	1 17	23 48	0 17	7 3	1 42	30 50	8 46	5 11	5 1	20 21		n.a.
S 4	23 31	26 18	4 54	18 16	4 32	14 59	4 45	24 12	1 7	20 28	0 56	19 58	1 17	23 48	0 17	7 2	1 42	30 51	8 46	5 6	4 59	20 23		n.a.
S 5	23 28	23 5	4 33	18 15	4 37	15 7	4 44	24 8	1 7	20 25	0 56	19 57	1 17	23 48	0 17	7 2	1 42	30 51	8 46	5 1	4 58	20 26		n.a.
M 6	23 24	18 42	3 58	18 16	4 41	15 16	4 43	24 5	1 7	20 22	0 56	19 57	1 17	23 48	0 17	7 1	1 41	30 51	8 46	4 58	4 57	20 28		n.a.
T 7	23 20	13 22	3 10	18 19	4 43	15 26	4 42	24 1	1 7	20 19	0 56	19 56	1 16	23 48	0 17	7 1	1 41	30 52	8 46	4 55	4 56	20 31		n.a.
W 8	23 15	7 20	2 11	18 23	4 44	15 35	4 40	23 56	1 8	20 16	0 56	19 56	1 16	23 48	0 17	7 0	1 41	30 52	8 46	4 54	4 54	20 33		n.a.
T 9	23 10	0 53	1 3	18 29	4 42	15 45	4 39	23 52	1 8	20 13	0 56	19 55	1 16	23 48	0 17	7 0	1 41	30 52	8 46	4 53	4 53	20 36		n.a.
F 10	23 5	5s44	0s 9	18 37	4 39	15 55	4 37	23 47	1 8	20 10	0 56	19 55	1 16	23 47	0 17	6 59	1 41	30 53	8 47	4 53	4 52	20 39		n.a.
S 11	22 59	12 12	1 23	18 45	4 33	16 5	4 35	23 42	1 8	20 7	0 56	19 55	1 16	23 47	0 17	6 59	1 41	30 53	8 47	4 53	4 51	20 41		n.a.
S 12	22 53	18 8	2 32	18 55	4 27	16 16	4 33	23 37	1 8	20 4	0 56	19 54	1 16	23 47	0 17	6 58	1 41	30 53	8 47	4 52	4 49	20 44		n.a.
M13	22 46	23 8	3 32	19 7	4 18	16 27	4 30	23 32	1 8	20 1	0 57	19 54	1 15	23 47	0 17	6 58	1 41	30 53	8 47	4 51	4 48	20 46		n.a.
T 14	22 39	26 43	4 20	19 19	4 8	16 37	4 28	23 27	1 8	19 58	0 57	19 54	1 15	23 47	0 17	6 57	1 41	30 54	8 47	4 48	4 47	20 49		n.a.
W15	22 31	28 29	4 50	19 33	3 56	16 48	4 25	23 22	1 8	19 54	0 57	19 53	1 15	23 47	0 17	6 57	1 41	30 54	8 47	4 45	4 46	20 51		n.a.
T 16	22 24	28 15	5 0	19 47	3 43	16 59	4 22	23 16	1 8	19 51	0 57	19 53	1 15	23 47	0 17	6 56	1 41	30 54	8 47	4 40	4 44	20 54		n.a.
F 17	22 15	26 6	4 52	20 2	3 29	17 11	4 20	23 10	1 9	19 48	0 57	19 53	1 15	23 47	0 17	6 55	1 41	30 55	8 47	4 36	4 43	20 56		n.a.
S 18	22 7	22 22	4 26	20 17	3 14	17 22	4 16	23 4	1 9	19 45	0 57	19 52	1 15	23 46	0 17	6 55	1 41	30 55	8 47	4 32	4 42	20 59		n.a.
S 19	21 58	17 29	3 44	20 33	2 59	17 33	4 13	22 58	1 9	19 42	0 57	19 52	1 14	23 46	0 17	6 54	1 41	30 55	8 47	4 28	4 41	21 1		n.a.
M20	21 48	11 54	2 52	20 49	2 43	17 44	4 10	22 51	1 9	19 38	0 57	19 52	1 14	23 46	0 17	6 54	1 41	30 55	8 47	4 26	4 39	21 4		n.a.
T 21	21 38	5 58	1 52	21 5	2 26	17 55	4 7	22 45	1 9	19 35	0 57	19 52	1 14	23 46	0 17	6 53	1 41	30 56	8 47	4 24	4 38	21 6		n.a.
W22	21 28	0n 1	0 48	21 21	2 9	18 6	4 3	22 38	1 9	19 32	0 57	19 52	1 14	23 46	0 17	6 52	1 41	30 56	8 47	4 23	4 37	21 9		n.a.
T 23	21 18	5 52	0n17	21 37	1 52	18 17	4 0	22 31	1 9	19 28	0 57	19 51	1 14	23 46	0 17	6 52	1 41	30 56	8 47	4 23	4 36	21 11		n.a.
F 24	21 7	11 25	1 19	21 52	1 35	18 28	3 56	22 24	1 9	19 25	0 57	19 51	1 14	23 46	0 17	6 51	1 41	30 56	8 47	4 23	4 34	21 14		n.a.
S 25	20 56	16 29	2 18	22 6	1 18	18 39	3 52	22 17	1 9	19 22	0 57	19 51	1 13	23 46	0 17	6 50	1 41	30 57	8 47	4 23	4 33	21 16		n.a.
S 26	20 44	20 56	3 11	22 19	1 2	18 50	3 48	22 10	1 9	19 18	0 57	19 51	1 13	23 46	0 17	6 50	1 41	30 57	8 47	4 22	4 32	21 19		n.a.
M27	20 32	24 33	3 55	22 30	0 45	19 0	3 44	22 2	1 9	19 15	0 57	19 51	1 13	23 45	0 17	6 49	1 41	30 57	8 47	4 21	4 30	21 21		n.a.
T 28	20 19	27 9	4 29	22 40	0 30	19 10	3 40	21 55	1 9	19 12	0 57	19 51	1 13	23 45	0 17	6 48	1 41	30 57	8 48	4 18	4 29	21 24		n.a.
W29	20 7	28 31	4 52	22 49	0 15	19 20	3 36	21 47	1 10	19 8	0 57	19 51	1 13	23 45	0 17	6 48	1 41	30 58	8 48	4 14	4 28	21 26		n.a.
T 30	19 54	28 29	5 2	22 55	0 0	19 30	3 32	21 39	1 10	19 5	0 57	19 51	1 12	23 45	0 17	6 47	1 41	30 58	8 48	4 10	4 27	21 29		n.a.
F 31	19n40	27n 0	4n57	23n 0	0n13	19n40	3s28	21n31	1n10	19n 1	0n57	19s50	1n12	23s45	0s17	6n46	1n40	30s58	8s48	4n 5	4n25	21n31		n.a.

Julian Day Number = 1651476.5, Delta T = 03h30m46s
Ecliptic obliquity = 23°43'15, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°42'44, Lahiri = - 6°35'44 Julian Calendar 1 July 192 BCE == Greg. Calendar 28 June 192 BCE

The year -191 astronomical counting style corresponds to year 192 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 192 BCE
geocentric

AUGUST 192 BCE (-191) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 23 36	4♌ 9'58	3♌35	17♋13	18♊18	0♌41	9♌38	3°R 5	21°R49	16♍56	19°R33	10°R 1	11♈ 0	21♉27	n.a.	S 1
S 2	20 27 32	5° 8'06	16°41	18°45	19°15	1°19	9°51	3♐ 4	21♐47	16°57	19♑32	9♈51	10°57	21°34	n.a.	S 2
M 3	20 31 29	6° 6'16	29°59	20°20	20°12	1°58	10° 5	3° 3	21°46	16°59	19°30	9°43	10°54	21°40	n.a.	M 3
T 4	20 35 25	7° 4'27	13♍28	21°59	21°10	2°36	10°18	3° 2	21°44	17° 1	19°29	9°37	10°51	21°47	n.a.	T 4
W 5	20 39 22	8° 2'40	27° 7	23°42	22° 8	3°14	10°31	3° 1	21°43	17° 3	19°28	9°34	10°47	21°54	n.a.	W 5
T 6	20 43 19	9° 0'54	10♎55	25°28	23° 7	3°53	10°44	3° 1	21°41	17° 5	19°26	9°D34	10°44	22° 1	n.a.	T 6
F 7	20 47 15	9°59'10	24°51	27°16	24° 6	4°31	10°57	3° 0	21°40	17° 6	19°25	9°34	10°41	22° 7	n.a.	F 7
S 8	20 51 12	10°57'28	8♏54	29° 6	25° 5	5° 9	11°10	3° 0	21°39	17° 8	19°24	9°R35	10°38	22°14	n.a.	S 8
S 9	20 55 8	11°55'47	23° 3	0♌58	26° 5	5°48	11°23	3° 0	21°37	17°10	19°23	9°34	10°35	22°21	n.a.	S 9
M10	20 59 5	12°54'08	7♐18	2°51	27° 5	6°26	11°36	3° 0	21°36	17°12	19°22	9°32	10°32	22°27	n.a.	M10
T 11	21 3 1	13°52'31	21°36	4°45	28° 5	7° 4	11°49	2°D59	21°35	17°14	19°20	9°27	10°28	22°34	n.a.	T 11
W12	21 6 58	14°50'56	5♑52	6°39	29° 6	7°43	12° 2	2°59	21°34	17°16	19°19	9°21	10°25	22°41	n.a.	W12
T 13	21 10 54	15°49'22	20° 4	8°33	0♋ 8	8°21	12°15	3° 0	21°33	17°18	19°18	9°12	10°22	22°47	n.a.	T 13
F 14	21 14 51	16°47'50	4♒ 5	10°28	1° 9	8°59	12°28	3° 0	21°32	17°20	19°17	9° 4	10°19	22°54	n.a.	F 14
S 15	21 18 48	17°46'20	17°52	12°22	2°11	9°38	12°41	3° 0	21°31	17°22	19°16	8°56	10°16	23° 1	n.a.	S 15
S 16	21 22 44	18°44'52	1♓20	14°16	3°14	10°16	12°54	3° 0	21°30	17°24	19°15	8°49	10°13	23° 7	n.a.	S 16
M17	21 26 41	19°43'26	14°28	16° 9	4°16	10°55	13° 7	3° 1	21°29	17°26	19°13	8°44	10° 9	23°14	n.a.	M17
T 18	21 30 37	20°42'02	27°16	18° 2	5°19	11°33	13°20	3° 2	21°28	17°28	19°12	8°41	10° 6	23°21	n.a.	T 18
W19	21 34 34	21°40'40	9♈44	19°54	6°23	12°12	13°33	3° 2	21°27	17°30	19°11	8°D41	10° 3	23°27	n.a.	W19
T 20	21 38 30	22°39'21	21°56	21°45	7°26	12°50	13°46	3° 3	21°26	17°32	19°10	8°41	10° 0	23°34	n.a.	T 20
F 21	21 42 27	23°38'04	3♉57	23°36	8°30	13°29	13°59	3° 4	21°26	17°34	19° 9	8°43	9°57	23°41	n.a.	F 21
S 22	21 46 23	24°36'49	15°49	25°25	9°34	14° 7	14°12	3° 5	21°25	17°36	19° 8	8°44	9°53	23°47	n.a.	S 22
S 23	21 50 20	25°35'36	27°39	27°14	10°39	14°46	14°25	3° 6	21°24	17°38	19° 7	8°R44	9°50	23°54	n.a.	S 23
M24	21 54 17	26°34'26	9♊32	29° 2	11°43	15°24	14°38	3° 7	21°24	17°41	19° 6	8°43	9°47	24° 1	n.a.	M24
T 25	21 58 13	27°33'19	21°33	0♍49	12°48	16° 3	14°51	3° 8	21°23	17°43	19° 5	8°41	9°44	24° 7	n.a.	T 25
W26	22 2 10	28°32'14	3♋46	2°34	13°54	16°41	15° 3	3°10	21°23	17°45	19° 4	8°36	9°41	24°14	n.a.	W26
T 27	22 6 6	29°31'11	16°14	4°19	14°59	17°20	15°16	3°11	21°22	17°47	19° 3	8°30	9°38	24°21	n.a.	T 27
F 28	22 10 3	0♍30'10	29° 0	6° 3	16° 5	17°58	15°29	3°13	21°22	17°49	19° 2	8°24	9°34	24°28	n.a.	F 28
S 29	22 13 59	1°29'12	12♌ 6	7°46	17°11	18°37	15°42	3°14	21°22	17°51	19° 1	8°17	9°31	24°34	n.a.	S 29
S 30	22 17 56	2°28'16	25°30	9°29	18°17	19°15	15°55	3°16	21°21	17°53	19° 0	8°12	9°28	24°41	n.a.	S 30
M31	22 21 52	3♍27'22	9♍11	11♍10	19♋24	19♌54	16♌ 7	3♐18	21♐21	17♍56	18♑59	8♈ 7	9♈25	24♉48	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	19n27	24n 4	4n37	23n 2	0n26	19n49	3s23	21n22	1n10	18n58	0n57	19s50	1n12	23s45	0s17	6n46	1n40	30s58	8s48	4n 1	4n24	21n34		n.a.
S 2	19 12	19 52	4 3	23 1	0 38	19 58	3 19	21 14	1 10	18 54	0 57	19 50	1 12	23 45	0 17	6 45	1 40	30 58	8 48	3 57	4 23	21 36		n.a.
M 3	18 58	14 38	3 14	22 58	0 49	20 7	3 15	21 5	1 10	18 51	0 57	19 50	1 12	23 45	0 17	6 44	1 40	30 59	8 48	3 53	4 22	21 38		n.a.
T 4	18 43	8 38	2 14	22 52	0 59	20 15	3 10	20 57	1 10	18 47	0 57	19 51	1 12	23 45	0 17	6 43	1 40	30 59	8 48	3 51	4 20	21 41		n.a.
W 5	18 28	2 10	1 6	22 44	1 8	20 24	3 6	20 48	1 10	18 44	0 57	19 51	1 11	23 44	0 17	6 43	1 40	30 59	8 48	3 50	4 19	21 43		n.a.
T 6	18 13	4s29	0s 7	22 33	1 16	20 31	3 1	20 39	1 10	18 40	0 57	19 51	1 11	23 44	0 17	6 42	1 40	30 59	8 48	3 50	4 18	21 46		n.a.
F 7	17 57	10 59	1 21	22 19	1 23	20 39	2 57	20 29	1 10	18 37	0 57	19 51	1 11	23 44	0 17	6 41	1 40	30 59	8 47	3 50	4 17	21 48		n.a.
S 8	17 41	17 0	2 30	22 2	1 29	20 46	2 52	20 20	1 10	18 33	0 58	19 51	1 11	23 44	0 17	6 40	1 40	30 59	8 47	3 50	4 15	21 51		n.a.
S 9	17 25	22 9	3 31	21 43	1 35	20 52	2 47	20 11	1 10	18 29	0 58	19 51	1 11	23 44	0 17	6 40	1 40	31 0	8 47	3 50	4 14	21 53		n.a.
M10	17 8	26 2	4 19	21 22	1 39	20 59	2 43	20 1	1 10	18 26	0 58	19 51	1 10	23 44	0 17	6 39	1 40	31 0	8 47	3 49	4 13	21 55		n.a.
T 11	16 51	28 17	4 51	20 58	1 43	21 5	2 38	19 51	1 10	18 22	0 58	19 51	1 10	23 44	0 17	6 38	1 40	31 0	8 47	3 47	4 12	21 58		n.a.
W12	16 34	28 40	5 5	20 32	1 45	21 10	2 33	19 41	1 10	18 19	0 58	19 51	1 10	23 44	0 17	6 37	1 40	31 0	8 47	3 45	4 10	22 0		n.a.
T 13	16 17	27 9	5 0	20 4	1 47	21 15	2 28	19 31	1 10	18 15	0 58	19 52	1 10	23 44	0 17	6 36	1 40	31 0	8 47	3 41	4 9	22 3		n.a.
F 14	15 59	23 57	4 37	19 34	1 48	21 19	2 24	19 21	1 10	18 11	0 58	19 52	1 10	23 44	0 17	6 36	1 40	31 0	8 47	3 38	4 8	22 5		n.a.
S 15	15 41	19 26	3 59	19 2	1 49	21 23	2 19	19 11	1 10	18 8	0 58	19 52	1 9	23 44	0 17	6 35	1 40	31 0	8 47	3 35	4 7	22 7		n.a.
S 16	15 23	14 2	3 7	18 28	1 49	21 27	2 14	19 0	1 10	18 4	0 58	19 52	1 9	23 44	0 17	6 34	1 40	31 1	8 47	3 32	4 5	22 10		n.a.
M17	15 4	8 8	2 7	17 54	1 48	21 30	2 9	18 49	1 10	18 0	0 58	19 53	1 9	23 44	0 17	6 33	1 40	31 1	8 47	3 30	4 4	22 12		n.a.
T 18	14 46	2 2	1 1	17 17	1 46	21 33	2 4	18 39	1 10	17 57	0 58	19 53	1 9	23 44	0 17	6 32	1 40	31 1	8 47	3 29	4 3	22 14		n.a.
W19	14 27	3n59	0n 6	16 40	1 44	21 35	1 59	18 28	1 10	17 53	0 58	19 53	1 9	23 43	0 17	6 32	1 40	31 1	8 47	3 29	4 2	22 17		n.a.
T 20	14 7	9 45	1 11	16 2	1 42	21 36	1 55	18 17	1 10	17 49	0 58	19 54	1 9	23 43	0 17	6 31	1 40	31 1	8 47	3 29	4 0	22 19		n.a.
F 21	13 48	15 3	2 12	15 22	1 39	21 37	1 50	18 6	1 10	17 45	0 58	19 54	1 8	23 43	0 17	6 30	1 40	31 1	8 47	3 30	3 59	22 21		n.a.
S 22	13 28	19 45	3 7	14 42	1 36	21 38	1 45	17 54	1 10	17 42	0 59	19 54	1 8	23 43	0 17	6 29	1 40	31 1	8 47	3 30	3 58	22 24		n.a.
S 23	13 8	23 40	3 54	14 1	1 32	21 38	1 40	17 43	1 10	17 38	0 59	19 55	1 8	23 43	0 17	6 28	1 40	31 1	8 47	3 30	3 56	22 26		n.a.
M24	12 48	26 36	4 31	13 19	1 28	21 37	1 35	17 32	1 10	17 34	0 59	19 55	1 8	23 43	0 17	6 27	1 40	31 1	8 47	3 30	3 55	22 28		n.a.
T 25	12 28	28 23	4 56	12 37	1 23	21 36	1 30	17 20	1 10	17 31	0 59	19 56	1 8	23 43	0 17	6 27	1 40	31 1	8 46	3 29	3 54	22 31		n.a.
W26	12 7	28 49	5 9	11 54	1 19	21 34	1 25	17 8	1 10	17 27	0 59	19 56	1 7	23 43	0 17	6 26	1 40	31 1	8 46	3 27	3 53	22 33		n.a.
T 27	11 46	27 48	5 7	11 11	1 14	21 32	1 21	16 56	1 10	17 23	0 59	19 56	1 7	23 43	0 17	6 25	1 40	31 2	8 46	3 25	3 51	22 35		n.a.
F 28	11 25	25 20	4 50	10 27	1 8	21 29	1 16	16 44	1 10	17 19	0 59	19 57	1 7	23 43	0 17	6 24	1 40	31 2	8 46	3 22	3 50	22 38		n.a.
S 29	11 4	21 29	4 18	9 43	1 3	21 26	1 11	16 32	1 10	17 16	0 59	19 57	1 7	23 43	0 17	6 23	1 40	31 2	8 46	3 19	3 49	22 40		n.a.
S 30	10 43	16 29	3 31	8 59	0 57	21 21	1 6	16 20	1 10	17 12	0 59	19 58	1 7	23 43	0 17	6 22	1 40	31 2	8 46	3 17	3 48	22 42		n.a.
M31	10n21	10n33	2n31	8n15	0n51	21n17	1s 2	16n 8	1n10	17n 8	0n59	19s59	1n 6	23s43	0s17	6n21	1n40	31s 2	8s46	3n15	3n46	22n45		n.a.

Julian Day Number = 1651507.5, Delta T = 03h30m45s
Ecliptic obliquity = 23°43'15, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°42'40, Lahiri = - 6°35'39 Julian Calendar 1 Aug. 192 BCE == Greg. Calendar 29 July 192 BCE

The year -191 astronomical counting style corresponds to year 192 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 192 BCE
geocentric

SEPTEMBER 192 BCE (-191) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 25 49	4♍26'30	23♍ 5	12♍50	20♋30	20♌33	16♌20	3♐20	21°R21	17♍58	18°R59	8°R 5	9♈22	24♉54	n.a.	T 1
W 2	22 29 45	5°25'40	7♎11	14°30	21°37	21°11	16°33	3°22	21♐21	18° 0	18♑58	8°D 4	9°19	25° 1	n.a.	W 2
T 3	22 33 42	6°24'52	21°22	16° 8	22°44	21°50	16°46	3°24	21°21	18° 2	18°57	8♈ 4	9°15	25° 8	n.a.	T 3
F 4	22 37 39	7°24'06	5♏37	17°46	23°51	22°29	16°58	3°26	21°D21	18° 4	18°56	8° 6	9°12	25°14	n.a.	F 4
S 5	22 41 35	8°23'22	19°53	19°23	24°59	23° 7	17°11	3°29	21°21	18° 7	18°55	8° 7	9° 9	25°21	n.a.	S 5
S 6	22 45 32	9°22'40	4♐ 5	20°59	26° 7	23°46	17°23	3°31	21°21	18° 9	18°55	8°R 8	9° 6	25°28	n.a.	S 6
M 7	22 49 28	10°22'00	18°14	22°35	27°15	24°25	17°36	3°34	21°21	18°11	18°54	8° 8	9° 3	25°34	n.a.	M 7
T 8	22 53 25	11°21'21	2♑17	24° 9	28°23	25° 3	17°48	3°36	21°21	18°13	18°53	8° 7	8°59	25°41	n.a.	T 8
W 9	22 57 21	12°20'45	16°11	25°43	29°31	25°42	18° 1	3°39	21°21	18°15	18°52	8° 4	8°56	25°48	n.a.	W 9
T 10	23 1 18	13°20'10	29°57	27°16	0♌39	26°21	18°13	3°42	21°22	18°18	18°52	8° 1	8°53	25°54	n.a.	T 10
F 11	23 5 14	14°19'37	13♒30	28°49	1°48	27° 0	18°26	3°44	21°22	18°20	18°51	7°57	8°50	26° 1	n.a.	F 11
S 12	23 9 11	15°19'06	26°51	0♎21	2°57	27°38	18°38	3°47	21°22	18°22	18°50	7°53	8°47	26° 8	n.a.	S 12
S 13	23 13 8	16°18'38	9♓57	1°51	4° 6	28°17	18°50	3°50	21°23	18°24	18°50	7°51	8°44	26°15	n.a.	S 13
M14	23 17 4	17°18'11	22°47	3°22	5°15	28°56	19° 2	3°54	21°23	18°27	18°49	7°49	8°40	26°21	n.a.	M14
T 15	23 21 1	18°17'46	5♈22	4°51	6°24	29°35	19°15	3°57	21°24	18°29	18°49	7°D48	8°37	26°28	n.a.	T 15
W16	23 24 57	19°17'24	17°43	6°20	7°34	0♍14	19°27	4° 0	21°24	18°31	18°48	7°48	8°34	26°35	n.a.	W16
T 17	23 28 54	20°17'03	29°52	7°48	8°43	0°52	19°39	4° 3	21°25	18°33	18°48	7°49	8°31	26°41	n.a.	T 17
F 18	23 32 50	21°16'46	11♉50	9°15	9°53	1°31	19°51	4° 7	21°26	18°36	18°47	7°51	8°28	26°48	n.a.	F 18
S 19	23 36 47	22°16'30	23°42	10°42	11° 3	2°10	20° 3	4°10	21°26	18°38	18°47	7°52	8°24	26°55	n.a.	S 19
S 20	23 40 43	23°16'17	5♊33	12° 8	12°13	2°49	20°15	4°14	21°27	18°40	18°46	7°54	8°21	27° 1	n.a.	S 20
M21	23 44 40	24°16'06	17°25	13°33	13°23	3°28	20°27	4°18	21°28	18°42	18°46	7°54	8°18	27° 8	n.a.	M21
T 22	23 48 37	25°15'57	29°25	14°57	14°34	4° 7	20°38	4°22	21°29	18°45	18°45	7°R54	8°15	27°15	n.a.	T 22
W23	23 52 33	26°15'51	11♋36	16°20	15°44	4°46	20°50	4°25	21°30	18°47	18°45	7°54	8°12	27°21	n.a.	W23
T 24	23 56 30	27°15'47	24° 4	17°42	16°55	5°25	21° 2	4°29	21°31	18°49	18°45	7°53	8° 9	27°28	n.a.	T 24
F 25	0 0 26	28°15'46	6♌52	19° 4	18° 6	6° 4	21°14	4°33	21°32	18°51	18°44	7°52	8° 5	27°35	n.a.	F 25
S 26	0 4 23	29°15'46	20° 2	20°24	19°17	6°43	21°25	4°38	21°33	18°54	18°44	7°50	8° 2	27°41	n.a.	S 26
S 27	0 8 19	0♎15'49	3♍36	21°44	20°28	7°22	21°37	4°42	21°34	18°56	18°44	7°49	7°59	27°48	n.a.	S 27
M28	0 12 16	1°15'54	17°32	23° 2	21°39	8° 1	21°48	4°46	21°35	18°58	18°44	7°49	7°56	27°55	n.a.	M28
T 29	0 16 12	2°16'01	1♎49	24°19	22°50	8°40	22° 0	4°50	21°36	19° 0	18°43	7°D48	7°53	28° 2	n.a.	T 29
W30	0 20 9	3♎16'10	16♎20	25♎34	24♌ 2	9♍19	22♌11	4♐55	21♐38	19♍ 2	18♑43	7♈48	7♈50	28♉ 8	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	10n 0	4n 1	1n21	7n31	0n45	21n12	0s57	15n55	1n10	17n 4	0n59	19s59	1n 6	23s43	0s17	6n20	1n40	31s 2	8s46	3n14	3n45	22n47		n.a.
W 2	9 38	2s48	0 5	6 46	0 39	21 6	0 52	15 43	1 10	17 0	1 0	20 0	1 6	23 43	0 17	6 20	1 40	31 2	8 46	3 14	3 44	22 49		n.a.
T 3	9 16	9 33	1s12	6 2	0 32	21 0	0 48	15 30	1 10	16 57	1 0	20 0	1 6	23 43	0 17	6 19	1 40	31 2	8 46	3 14	3 43	22 51		n.a.
F 4	8 54	15 50	2 25	5 17	0 26	20 53	0 43	15 17	1 10	16 53	1 0	20 1	1 6	23 43	0 17	6 18	1 40	31 2	8 45	3 15	3 41	22 54		n.a.
S 5	8 31	21 16	3 29	4 33	0 19	20 45	0 39	15 4	1 10	16 49	1 0	20 1	1 6	23 43	0 17	6 17	1 40	31 2	8 45	3 15	3 40	22 56		n.a.
S 6	8 9	25 28	4 20	3 48	0 12	20 37	0 34	14 51	1 10	16 45	1 0	20 2	1 5	23 43	0 17	6 16	1 40	31 2	8 45	3 16	3 39	22 58		n.a.
M 7	7 46	28 5	4 55	3 4	0 6	20 28	0 30	14 38	1 10	16 42	1 0	20 3	1 5	23 43	0 17	6 15	1 40	31 2	8 45	3 16	3 38	23 0		n.a.
T 8	7 23	28 54	5 12	2 20	0s 1	20 19	0 25	14 25	1 10	16 38	1 0	20 3	1 5	23 43	0 17	6 14	1 40	31 2	8 45	3 15	3 36	23 3		n.a.
W 9	7 0	27 52	5 10	1 36	0 8	20 9	0 21	14 12	1 10	16 34	1 0	20 4	1 5	23 43	0 17	6 13	1 40	31 2	8 45	3 14	3 35	23 5		n.a.
T 10	6 37	25 8	4 51	0 52	0 15	19 58	0 17	13 58	1 10	16 30	1 1	20 5	1 5	23 43	0 17	6 13	1 40	31 2	8 45	3 13	3 34	23 7		n.a.
F 11	6 14	21 2	4 16	0 8	0 22	19 47	0 12	13 45	1 10	16 27	1 1	20 6	1 5	23 43	0 17	6 12	1 40	31 2	8 45	3 11	3 32	23 9		n.a.
S 12	5 51	15 56	3 27	0s35	0 29	19 36	0 8	13 31	1 10	16 23	1 1	20 6	1 4	23 43	0 17	6 11	1 40	31 2	8 44	3 10	3 31	23 11		n.a.
S 13	5 28	10 12	2 28	1 18	0 36	19 24	0 4	13 18	1 10	16 19	1 1	20 7	1 4	23 43	0 17	6 10	1 40	31 2	8 44	3 9	3 30	23 14		n.a.
M14	5 4	4 9	1 22	2 1	0 43	19 11	0n 0	13 4	1 10	16 15	1 1	20 8	1 4	23 43	0 17	6 9	1 40	31 2	8 44	3 8	3 29	23 16		n.a.
T 15	4 41	1n57	0 13	2 43	0 50	18 57	0 4	12 50	1 9	16 12	1 1	20 9	1 4	23 43	0 17	6 8	1 40	31 1	8 44	3 8	3 27	23 18		n.a.
W16	4 17	7 52	0n54	3 25	0 57	18 44	0 8	12 36	1 9	16 8	1 1	20 9	1 4	23 43	0 17	6 7	1 40	31 1	8 44	3 8	3 26	23 20		n.a.
T 17	3 54	13 24	1 59	4 7	1 4	18 29	0 12	12 22	1 9	16 4	1 1	20 10	1 3	23 43	0 17	6 6	1 40	31 1	8 44	3 8	3 25	23 22		n.a.
F 18	3 30	18 22	2 57	4 48	1 11	18 14	0 16	12 8	1 9	16 0	1 2	20 11	1 3	23 43	0 17	6 6	1 40	31 1	8 44	3 9	3 24	23 25		n.a.
S 19	3 6	22 35	3 47	5 28	1 18	17 59	0 20	11 54	1 9	15 57	1 2	20 12	1 3	23 43	0 17	6 5	1 40	31 1	8 43	3 10	3 22	23 27		n.a.
S 20	2 42	25 52	4 28	6 8	1 25	17 42	0 23	11 40	1 9	15 53	1 2	20 13	1 3	23 43	0 17	6 4	1 40	31 1	8 43	3 10	3 21	23 29		n.a.
M21	2 18	28 2	4 57	6 48	1 31	17 26	0 27	11 25	1 9	15 49	1 2	20 13	1 3	23 43	0 17	6 3	1 40	31 1	8 43	3 10	3 20	23 31		n.a.
T 22	1 54	28 56	5 13	7 27	1 38	17 9	0 31	11 11	1 9	15 46	1 2	20 14	1 3	23 43	0 17	6 2	1 40	31 1	8 43	3 10	3 19	23 33		n.a.
W23	1 30	28 27	5 16	8 5	1 44	16 51	0 34	10 56	1 9	15 42	1 2	20 15	1 2	23 43	0 17	6 1	1 40	31 1	8 43	3 10	3 17	23 35		n.a.
T 24	1 6	26 32	5 4	8 43	1 50	16 33	0 38	10 42	1 9	15 38	1 2	20 16	1 2	23 43	0 17	6 0	1 40	31 1	8 43	3 10	3 16	23 38		n.a.
F 25	0 42	23 14	4 37	9 20	1 56	16 14	0 41	10 27	1 9	15 35	1 3	20 17	1 2	23 44	0 17	5 59	1 40	31 1	8 43	3 9	3 15	23 40		n.a.
S 26	0 18	18 41	3 55	9 56	2 2	15 55	0 44	10 13	1 9	15 31	1 3	20 18	1 2	23 44	0 17	5 59	1 40	31 0	8 42	3 9	3 13	23 42		n.a.
S 27	0s 6	13 4	2 59	10 32	2 8	15 35	0 48	9 58	1 8	15 27	1 3	20 19	1 2	23 44	0 17	5 58	1 40	31 0	8 42	3 8	3 12	23 44		n.a.
M28	0 31	6 40	1 50	11 7	2 13	15 15	0 51	9 43	1 8	15 24	1 3	20 20	1 2	23 44	0 17	5 57	1 40	31 0	8 42	3 8	3 11	23 46		n.a.
T 29	0 55	0s13	0 33	11 40	2 18	14 55	0 54	9 28	1 8	15 20	1 3	20 21	1 2	23 44	0 17	5 56	1 40	31 0	8 42	3 8	3 10	23 48		n.a.
W30	1s19	7s13	0s47	12s13	2s23	14n34	0n57	9n13	1n 8	15n17	1n 3	20s22	1n 1	23s44	0s17	5n55	1n40	31s 0	8s42	3n 8	3n 8	23n50		n.a.

Julian Day Number = 1651538.5, Delta T = 03h30m44s
Ecliptic obliquity = 23°43'16, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°42'36, Lahiri = - 6°35'35 Julian Calendar 1 Sept. 192 BCE == Greg. Calendar 29 Aug. 192 BCE

The year -191 astronomical counting style corresponds to year 192 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 192 BCE
geocentric

OCTOBER 192 BCE (-191) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 24 5	4♎16'20	1♏ 0	26♎48	25♌13	9♍58	22♌22	4♐59	21♐39	19♍ 4	18°R43	7♈49	7♈46	28♉15	n.a.	T 1
F 2	0 28 2	5°16'33	15°42	28° 0	26°25	10°37	22°33	5° 4	21°41	19° 7	18♑43	7°49	7°43	28°22	n.a.	F 2
S 3	0 31 59	6°16'47	0♐21	29°11	27°37	11°16	22°44	5° 9	21°42	19° 9	18°43	7°49	7°40	28°28	n.a.	S 3
S 4	0 35 55	7°17'03	14°49	0♏19	28°49	11°56	22°55	5°13	21°43	19°11	18°43	7°49	7°37	28°35	n.a.	S 4
M 5	0 39 52	8°17'21	29° 5	1°25	0♍ 1	12°35	23° 6	5°18	21°45	19°13	18°43	7°R49	7°34	28°42	n.a.	M 5
T 6	0 43 48	9°17'40	13♑ 5	2°28	1°13	13°14	23°17	5°23	21°47	19°15	18°D43	7°D49	7°30	28°48	n.a.	T 6
W 7	0 47 45	10°18'01	26°48	3°29	2°25	13°53	23°28	5°28	21°48	19°17	18°43	7°49	7°27	28°55	n.a.	W 7
T 8	0 51 41	11°18'23	10♒14	4°26	3°37	14°32	23°39	5°33	21°50	19°20	18°43	7°50	7°24	29° 2	n.a.	T 8
F 9	0 55 38	12°18'46	23°25	5°20	4°50	15°11	23°49	5°38	21°52	19°22	18°43	7°50	7°21	29° 8	n.a.	F 9
S 10	0 59 34	13°19'11	6♓22	6°10	6° 2	15°51	24° 0	5°43	21°53	19°24	18°43	7°51	7°18	29°15	n.a.	S 10
S 11	1 3 31	14°19'38	19° 5	6°55	7°15	16°30	24°10	5°48	21°55	19°26	18°43	7°51	7°15	29°22	n.a.	S 11
M12	1 7 28	15°20'06	1♈35	7°35	8°27	17° 9	24°20	5°53	21°57	19°28	18°43	7°R51	7°11	29°29	n.a.	M12
T 13	1 11 24	16°20'36	13°55	8° 9	9°40	17°48	24°31	5°59	21°59	19°30	18°44	7°51	7° 8	29°35	n.a.	T 13
W14	1 15 21	17°21'08	26° 5	8°38	10°53	18°28	24°41	6° 4	22° 1	19°32	18°44	7°51	7° 5	29°42	n.a.	W14
T 15	1 19 17	18°21'41	8♉ 7	8°59	12° 6	19° 7	24°51	6° 9	22° 3	19°34	18°44	7°50	7° 2	29°49	n.a.	T 15
F 16	1 23 14	19°22'16	20° 2	9°12	13°19	19°46	25° 1	6°15	22° 5	19°36	18°44	7°48	6°59	29°55	n.a.	F 16
S 17	1 27 10	20°22'53	1♊53	9°R17	14°32	20°26	25°11	6°21	22° 7	19°38	18°45	7°46	6°56	0♊ 2	n.a.	S 17
S 18	1 31 7	21°23'31	13°43	9°13	15°45	21° 5	25°21	6°26	22° 9	19°40	18°45	7°44	6°52	0° 9	n.a.	S 18
M19	1 35 3	22°24'12	25°35	8°59	16°58	21°45	25°30	6°32	22°11	19°42	18°45	7°43	6°49	0°15	n.a.	M19
T 20	1 39 0	23°24'54	7♋33	8°34	18°11	22°24	25°40	6°38	22°13	19°44	18°46	7°41	6°46	0°22	n.a.	T 20
W21	1 42 57	24°25'38	19°42	7°59	19°25	23° 3	25°49	6°43	22°16	19°46	18°46	7°D40	6°43	0°29	n.a.	W21
T 22	1 46 53	25°26'23	2♌ 5	7°14	20°38	23°43	25°59	6°49	22°18	19°48	18°46	7°40	6°40	0°36	n.a.	T 22
F 23	1 50 50	26°27'11	14°47	6°19	21°52	24°22	26° 8	6°55	22°20	19°50	18°47	7°41	6°36	0°42	n.a.	F 23
S 24	1 54 46	27°28'00	27°52	5°14	23° 5	25° 2	26°17	7° 1	22°23	19°52	18°47	7°43	6°33	0°49	n.a.	S 24
S 25	1 58 43	28°28'50	11♍23	4° 2	24°19	25°41	26°26	7° 7	22°25	19°53	18°48	7°44	6°30	0°56	n.a.	S 25
M26	2 2 39	29°29'42	25°21	2°44	25°33	26°21	26°35	7°13	22°28	19°55	18°48	7°45	6°27	1° 2	n.a.	M26
T 27	2 6 36	0♏30'36	9♎46	1°22	26°47	27° 0	26°44	7°19	22°30	19°57	18°49	7°R46	6°24	1° 9	n.a.	T 27
W28	2 10 32	1°31'31	24°32	0° 0	28° 0	27°40	26°52	7°25	22°33	19°59	18°49	7°45	6°21	1°16	n.a.	W28
T 29	2 14 29	2°32'27	9♏33	28♎40	29°14	28°20	27° 1	7°31	22°35	20° 1	18°50	7°43	6°17	1°22	n.a.	T 29
F 30	2 18 26	3°33'24	24°41	27°25	0♎28	28°59	27° 9	7°37	22°38	20° 2	18°51	7°40	6°14	1°29	n.a.	F 30
S 31	2 22 22	4♏34'23	9♐45	26♎16	1♎42	29♍39	27♌18	7♐44	22♐40	20♍ 4	18♑51	7♈36	6♈11	1♊36	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊		☊		⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl		decl		decl		decl	lat
T 1	1s43	13s55	2s 5	12s44	2s28	14n12	1n 0	8n58	1n 8	15n13	1n 4	20s23	1n 1	23s44	0s17	5n54	1n40	31s 0	8s42	3n 8		3n 7		23n52			n.a.
F 2	2 7	19 51	3 15	13 15	2 32	13 50	1 3	8 43	1 8	15 10	1 4	20 24	1 1	23 44	0 17	5 53	1 40	31 0	8 41	3 8		3 6		23 54			n.a.
S 3	2 31	24 34	4 12	13 44	2 36	13 28	1 6	8 28	1 8	15 6	1 4	20 25	1 1	23 44	0 17	5 53	1 40	31 0	8 41	3 8		3 5		23 56			n.a.
S 4	2 55	27 41	4 52	14 12	2 39	13 5	1 8	8 13	1 8	15 3	1 4	20 26	1 1	23 44	0 17	5 52	1 40	30 59	8 41	3 8		3 3		23 59			n.a.
M 5	3 19	28 57	5 14	14 38	2 42	12 42	1 11	7 57	1 7	14 59	1 4	20 27	1 1	23 44	0 17	5 51	1 40	30 59	8 41	3 8		3 2		24 1			n.a.
T 6	3 44	28 19	5 16	15 3	2 45	12 19	1 13	7 42	1 7	14 56	1 4	20 28	1 0	23 44	0 17	5 50	1 40	30 59	8 41	3 8		3 1		24 3			n.a.
W 7	4 8	25 57	5 0	15 26	2 47	11 55	1 16	7 27	1 7	14 52	1 5	20 29	1 0	23 45	0 17	5 49	1 40	30 59	8 41	3 8		3 0		24 5			n.a.
T 8	4 31	22 11	4 28	15 47	2 48	11 31	1 18	7 11	1 7	14 49	1 5	20 30	1 0	23 45	0 17	5 48	1 40	30 59	8 40	3 8		2 58		24 7			n.a.
F 9	4 55	17 22	3 42	16 6	2 49	11 6	1 20	6 56	1 7	14 45	1 5	20 31	1 0	23 45	0 17	5 48	1 40	30 59	8 40	3 9		2 57		24 9			n.a.
S 10	5 19	11 51	2 46	16 23	2 49	10 41	1 23	6 40	1 7	14 42	1 5	20 32	1 0	23 45	0 17	5 47	1 40	30 58	8 40	3 9		2 56		24 11			n.a.
S 11	5 43	5 56	1 42	16 37	2 48	10 16	1 25	6 25	1 7	14 39	1 5	20 33	1 0	23 45	0 17	5 46	1 40	30 58	8 40	3 9		2 54		24 13			n.a.
M12	6 6	0n 7	0 35	16 49	2 46	9 50	1 27	6 9	1 6	14 36	1 6	20 34	1 0	23 45	0 17	5 45	1 40	30 58	8 40	3 9		2 53		24 15			n.a.
T 13	6 30	6 4	0n34	16 58	2 43	9 24	1 29	5 53	1 6	14 32	1 6	20 35	0 59	23 45	0 17	5 44	1 40	30 58	8 40	3 9		2 52		24 17			n.a.
W14	6 53	11 44	1 39	17 3	2 39	8 58	1 31	5 38	1 6	14 29	1 6	20 36	0 59	23 45	0 17	5 44	1 40	30 58	8 39	3 9		2 51		24 19			n.a.
T 15	7 17	16 53	2 40	17 5	2 34	8 31	1 32	5 22	1 6	14 26	1 6	20 37	0 59	23 45	0 17	5 43	1 40	30 57	8 39	3 9		2 49		24 21			n.a.
F 16	7 40	21 22	3 33	17 4	2 28	8 5	1 34	5 6	1 6	14 23	1 6	20 38	0 59	23 46	0 17	5 42	1 41	30 57	8 39	3 8		2 48		24 23			n.a.
S 17	8 3	24 58	4 16	16 58	2 20	7 38	1 36	4 50	1 6	14 19	1 7	20 39	0 59	23 46	0 17	5 41	1 41	30 57	8 39	3 7		2 47		24 25			n.a.
S 18	8 26	27 29	4 49	16 48	2 11	7 10	1 37	4 34	1 5	14 16	1 7	20 40	0 59	23 46	0 17	5 41	1 41	30 57	8 39	3 6		2 46		24 27			n.a.
M19	8 49	28 47	5 9	16 33	2 0	6 43	1 38	4 19	1 5	14 13	1 7	20 41	0 59	23 46	0 17	5 40	1 41	30 56	8 38	3 6		2 44		24 29			n.a.
T 20	9 12	28 45	5 16	16 13	1 47	6 15	1 40	4 3	1 5	14 10	1 7	20 43	0 59	23 46	0 17	5 39	1 41	30 56	8 38	3 5		2 43		24 31			n.a.
W21	9 35	27 21	5 9	15 48	1 33	5 47	1 41	3 47	1 5	14 7	1 7	20 44	0 58	23 46	0 17	5 38	1 41	30 56	8 38	3 5		2 42		24 33			n.a.
T 22	9 57	24 36	4 48	15 18	1 17	5 19	1 42	3 31	1 5	14 4	1 8	20 45	0 58	23 46	0 17	5 38	1 41	30 56	8 38	3 5		2 40		24 35			n.a.
F 23	10 19	20 36	4 12	14 43	0 59	4 50	1 43	3 15	1 4	14 1	1 8	20 46	0 58	23 46	0 17	5 37	1 41	30 56	8 38	3 5		2 39		24 37			n.a.
S 24	10 42	15 31	3 23	14 3	0 40	4 22	1 44	2 59	1 4	13 58	1 8	20 47	0 58	23 47	0 17	5 36	1 41	30 55	8 38	3 6		2 38		24 39			n.a.
S 25	11 4	9 32	2 20	13 20	0 20	3 53	1 45	2 43	1 4	13 55	1 8	20 48	0 58	23 47	0 17	5 35	1 41	30 55	8 37	3 6		2 37		24 41			n.a.
M26	11 25	2 54	1 8	12 34	0n 0	3 24	1 46	2 27	1 4	13 52	1 8	20 49	0 58	23 47	0 17	5 35	1 41	30 55	8 37	3 7		2 35		24 43			n.a.
T 27	11 47	4s 5	0s11	11 46	0 21	2 55	1 46	2 10	1 4	13 49	1 9	20 50	0 58	23 47	0 17	5 34	1 41	30 55	8 37	3 7		2 34		24 45			n.a.
W28	12 9	11 1	1 31	10 58	0 41	2 26	1 47	1 54	1 3	13 47	1 9	20 52	0 58	23 47	0 17	5 33	1 41	30 54	8 37	3 7		2 33		24 47			n.a.
T 29	12 30	17 28	2 46	10 11	1 1	1 57	1 47	1 38	1 3	13 44	1 9	20 53	0 57	23 47	0 17	5 33	1 41	30 54	8 37	3 6		2 32		24 48			n.a.
F 30	12 51	22 52	3 50	9 27	1 19	1 27	1 48	1 22	1 3	13 41	1 9	20 54	0 57	23 47	0 17	5 32	1 41	30 54	8 37	3 4		2 30		24 50			n.a.
S 31	13s12	26s44	4s37	8s46	1n36	0n58	1n48	1n 6	1n 3	13n39	1n10	20s55	0n57	23s48	0s17	5n31	1n41	30s54	8s37	3n 3		2n29		24n52			n.a.

Julian Day Number = 1651568.5, Delta T = 03h30m43s
Ecliptic obliquity = 23°43'16, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°42'32, Lahiri = - 6°35'31 Julian Calendar 1 Oct. 192 BCE == Greg. Calendar 28 Sept. 192 BCE

The year -191 astronomical counting style corresponds to year 192 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 192 BCE
geocentric

NOVEMBER 192 BCE (-191) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 26 19	5♏35'23	24♐38	25°R17	2♎56	0♎18	27♌26	7♐50	22♐43	20♍ 6	18♑52	7°R32	6♈ 8	1♊43	n.a.	S 1
M 2	2 30 15	6°36'23	9♑10	24♎28	4°10	0°58	27°34	7°56	22°46	20° 8	18°53	7♈28	6° 5	1°49	n.a.	M 2
T 3	2 34 12	7°37'25	23°20	23°50	5°25	1°38	27°42	8° 3	22°48	20° 9	18°54	7°26	6° 2	1°56	n.a.	T 3
W 4	2 38 8	8°38'27	7♒ 4	23°24	6°39	2°17	27°50	8° 9	22°51	20°11	18°54	7°D25	5°58	2° 3	n.a.	W 4
T 5	2 42 5	9°39'29	20°25	23° 9	7°53	2°57	27°57	8°16	22°54	20°12	18°55	7°26	5°55	2° 9	n.a.	T 5
F 6	2 46 1	10°40'33	3♓24	23°D 5	9° 7	3°37	28° 5	8°22	22°57	20°14	18°56	7°27	5°52	2°16	n.a.	F 6
S 7	2 49 58	11°41'37	16° 5	23°12	10°22	4°16	28°12	8°29	23° 0	20°16	18°57	7°29	5°49	2°23	n.a.	S 7
S 8	2 53 55	12°42'41	28°31	23°28	11°36	4°56	28°19	8°35	23° 3	20°17	18°58	7°30	5°46	2°29	n.a.	S 8
M 9	2 57 51	13°43'46	10♈45	23°53	12°50	5°36	28°27	8°42	23° 5	20°19	18°59	7°R31	5°42	2°36	n.a.	M 9
T 10	3 1 48	14°44'52	22°51	24°25	14° 5	6°16	28°34	8°48	23° 8	20°20	18°59	7°29	5°39	2°43	n.a.	T 10
W11	3 5 44	15°45'59	4♉50	25° 5	15°19	6°55	28°40	8°55	23°11	20°22	19° 0	7°26	5°36	2°50	n.a.	W11
T 12	3 9 41	16°47'07	16°45	25°51	16°34	7°35	28°47	9° 2	23°14	20°23	19° 1	7°21	5°33	2°56	n.a.	T 12
F 13	3 13 37	17°48'15	28°37	26°43	17°48	8°15	28°54	9° 8	23°17	20°25	19° 2	7°14	5°30	3° 3	n.a.	F 13
S 14	3 17 34	18°49'24	10♊28	27°39	19° 3	8°55	29° 0	9°15	23°21	20°26	19° 3	7° 6	5°27	3°10	n.a.	S 14
S 15	3 21 30	19°50'33	22°20	28°40	20°17	9°35	29° 6	9°22	23°24	20°27	19° 4	6°57	5°23	3°16	n.a.	S 15
M16	3 25 27	20°51'44	4♋15	29°44	21°32	10°15	29°12	9°29	23°27	20°29	19° 5	6°49	5°20	3°23	n.a.	M16
T 17	3 29 24	21°52'55	16°14	0♏52	22°46	10°55	29°18	9°36	23°30	20°30	19° 7	6°42	5°17	3°30	n.a.	T 17
W18	3 33 20	22°54'07	28°22	2° 2	24° 1	11°35	29°24	9°42	23°33	20°31	19° 8	6°36	5°14	3°36	n.a.	W18
T 19	3 37 17	23°55'20	10♌42	3°15	25°16	12°14	29°30	9°49	23°36	20°32	19° 9	6°33	5°11	3°43	n.a.	T 19
F 20	3 41 13	24°56'33	23°18	4°30	26°31	12°54	29°35	9°56	23°39	20°34	19°10	6°D32	5° 7	3°50	n.a.	F 20
S 21	3 45 10	25°57'47	6♍14	5°48	27°45	13°34	29°40	10° 3	23°43	20°35	19°11	6°33	5° 4	3°57	n.a.	S 21
S 22	3 49 6	26°59'02	19°35	7° 6	29° 0	14°14	29°45	10°10	23°46	20°36	19°12	6°34	5° 1	4° 3	n.a.	S 22
M23	3 53 3	28° 0'17	3♎23	8°27	0♏15	14°54	29°50	10°17	23°49	20°37	19°13	6°R35	4°58	4°10	n.a.	M23
T 24	3 57 0	29° 1'33	17°40	9°48	1°30	15°34	29°55	10°24	23°53	20°38	19°15	6°34	4°55	4°17	n.a.	T 24
W25	4 0 56	0♐ 2'49	2♏23	11°11	2°45	16°15	29°59	10°31	23°56	20°39	19°16	6°32	4°52	4°23	n.a.	W25
T 26	4 4 53	1° 4'06	17°28	12°34	3°59	16°55	0♍ 4	10°38	23°59	20°40	19°17	6°26	4°48	4°30	n.a.	T 26
F 27	4 8 49	2° 5'23	2♐46	13°59	5°14	17°35	0° 9	10°45	24° 3	20°41	19°18	6°19	4°45	4°37	n.a.	F 27
S 28	4 12 46	3° 6'40	18° 6	15°25	6°29	18°15	0°13	10°52	24° 6	20°42	19°20	6°10	4°42	4°43	n.a.	S 28
S 29	4 16 42	4° 7'58	3♑16	16°51	7°44	18°55	0°17	10°59	24° 9	20°43	19°21	6° 1	4°39	4°50	n.a.	S 29
M30	4 20 39	5♐ 9'15	18♑ 8	18♏18	8♏59	19♎35	0♍21	11♐ 6	24♐13	20♍44	19♑22	5♈52	4♈36	4♊57	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s32	28s42	5s 5	8s11	1n51	0n28	1n48	0n50	1n 2	13n36	1n10	20s56	0n57	23s48	0s17	5n31	1n41	30s53	8s36	3n 1	2n28	24n54		n.a.
M 2	13 53	28 36	5 13	7 41	2 3	0s 1	1 49	0 34	1 2	13 33	1 10	20 57	0 57	23 48	0 17	5 30	1 41	30 53	8 36	3 0	2 26	24 56		n.a.
T 3	14 13	26 37	5 1	7 17	2 14	0 31	1 49	0 17	1 2	13 31	1 10	20 58	0 57	23 48	0 17	5 30	1 41	30 53	8 36	2 59	2 25	24 58		n.a.
W 4	14 33	23 6	4 32	6 59	2 23	1 1	1 49	0 1	1 2	13 28	1 11	21 0	0 57	23 48	0 17	5 29	1 41	30 53	8 36	2 59	2 24	25 0		n.a.
T 5	14 53	18 28	3 49	6 47	2 29	1 30	1 49	0s15	1 1	13 26	1 11	21 1	0 57	23 48	0 17	5 28	1 41	30 52	8 36	2 59	2 23	25 2		n.a.
F 6	15 12	13 6	2 56	6 42	2 34	2 0	1 48	0 31	1 1	13 23	1 11	21 2	0 56	23 48	0 17	5 28	1 41	30 52	8 36	2 59	2 21	25 4		n.a.
S 7	15 31	7 18	1 54	6 41	2 37	2 30	1 48	0 47	1 1	13 21	1 11	21 3	0 56	23 49	0 17	5 27	1 41	30 52	8 35	3 0	2 20	25 5		n.a.
S 8	15 50	1 21	0 49	6 46	2 39	2 59	1 48	1 3	1 1	13 19	1 12	21 4	0 56	23 49	0 17	5 27	1 41	30 51	8 35	3 1	2 19	25 7		n.a.
M 9	16 9	4n34	0n18	6 55	2 39	3 29	1 47	1 20	1 0	13 17	1 12	21 5	0 56	23 49	0 17	5 26	1 42	30 51	8 35	3 1	2 18	25 9		n.a.
T 10	16 27	10 16	1 23	7 8	2 38	3 59	1 47	1 36	1 0	13 14	1 12	21 6	0 56	23 49	0 17	5 26	1 42	30 51	8 35	3 0	2 16	25 11		n.a.
W11	16 45	15 32	2 23	7 24	2 36	4 28	1 46	1 52	1 0	13 12	1 12	21 7	0 56	23 49	0 17	5 25	1 42	30 51	8 35	2 59	2 15	25 13		n.a.
T 12	17 3	20 11	3 17	7 44	2 33	4 58	1 46	2 8	0 59	13 10	1 13	21 9	0 56	23 49	0 17	5 24	1 42	30 50	8 35	2 57	2 14	25 15		n.a.
F 13	17 20	24 1	4 2	8 6	2 29	5 27	1 45	2 24	0 59	13 8	1 13	21 10	0 56	23 49	0 17	5 24	1 42	30 50	8 35	2 54	2 12	25 16		n.a.
S 14	17 38	26 50	4 36	8 30	2 25	5 56	1 44	2 40	0 59	13 6	1 13	21 11	0 56	23 50	0 17	5 23	1 42	30 50	8 34	2 51	2 11	25 18		n.a.
S 15	17 54	28 27	4 58	8 57	2 20	6 26	1 43	2 57	0 59	13 4	1 13	21 12	0 56	23 50	0 17	5 23	1 42	30 49	8 34	2 47	2 10	25 20		n.a.
M16	18 11	28 47	5 8	9 25	2 15	6 55	1 42	3 13	0 58	13 2	1 14	21 13	0 55	23 50	0 17	5 22	1 42	30 49	8 34	2 44	2 9	25 22		n.a.
T 17	18 27	27 45	5 4	9 54	2 9	7 24	1 41	3 29	0 58	13 0	1 14	21 14	0 55	23 50	0 17	5 22	1 42	30 49	8 34	2 41	2 7	25 24		n.a.
W18	18 43	25 24	4 46	10 25	2 2	7 52	1 40	3 45	0 58	12 58	1 14	21 15	0 55	23 50	0 17	5 22	1 42	30 49	8 34	2 39	2 6	25 25		n.a.
T 19	18 58	21 51	4 15	10 56	1 56	8 21	1 39	4 1	0 57	12 57	1 15	21 16	0 55	23 50	0 17	5 21	1 42	30 48	8 34	2 38	2 5	25 27		n.a.
F 20	19 14	17 14	3 32	11 28	1 49	8 50	1 38	4 17	0 57	12 55	1 15	21 18	0 55	23 51	0 17	5 21	1 42	30 48	8 34	2 38	2 4	25 29		n.a.
S 21	19 28	11 44	2 36	12 0	1 42	9 18	1 36	4 33	0 57	12 53	1 15	21 19	0 55	23 51	0 17	5 20	1 42	30 48	8 33	2 38	2 2	25 31		n.a.
S 22	19 43	5 33	1 30	12 33	1 35	9 46	1 35	4 49	0 56	12 52	1 15	21 20	0 55	23 51	0 17	5 20	1 42	30 47	8 33	2 38	2 1	25 32		n.a.
M23	19 57	1s 6	0 17	13 6	1 28	10 14	1 34	5 5	0 56	12 50	1 16	21 21	0 55	23 51	0 17	5 19	1 42	30 47	8 33	2 38	2 0	25 34		n.a.
T 24	20 11	7 55	0s59	13 39	1 20	10 42	1 32	5 21	0 56	12 49	1 16	21 22	0 55	23 51	0 17	5 19	1 42	30 47	8 33	2 38	1 58	25 36		n.a.
W25	20 24	14 32	2 14	14 13	1 13	11 9	1 31	5 37	0 55	12 47	1 16	21 23	0 55	23 51	0 17	5 19	1 42	30 46	8 33	2 37	1 57	25 38		n.a.
T 26	20 37	20 27	3 21	14 46	1 5	11 36	1 29	5 53	0 55	12 46	1 17	21 24	0 55	23 52	0 17	5 18	1 43	30 46	8 33	2 35	1 56	25 39		n.a.
F 27	20 49	25 7	4 14	15 18	0 58	12 3	1 27	6 8	0 54	12 45	1 17	21 25	0 55	23 52	0 17	5 18	1 43	30 46	8 33	2 32	1 55	25 41		n.a.
S 28	21 2	27 59	4 50	15 51	0 50	12 30	1 26	6 24	0 54	12 44	1 17	21 26	0 54	23 52	0 17	5 18	1 43	30 46	8 33	2 29	1 53	25 43		n.a.
S 29	21 13	28 45	5 4	16 23	0 43	12 56	1 24	6 40	0 54	12 43	1 17	21 27	0 54	23 52	0 17	5 17	1 43	30 45	8 33	2 25	1 52	25 44		n.a.
M30	21s25	27s23	4s58	16s55	0n35	13s22	1n22	6s56	0n53	12n41	1n18	21s28	0n54	23s52	0s17	5n17	1n43	30s45	8s33	2n22	1n51	25n46		n.a.

Julian Day Number = 1651599.5, Delta T = 03h30m42s
Ecliptic obliquity = 23°43'15, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°42'27, Lahiri = - 6°35'27 Julian Calendar 1 Nov. 192 BCE == Greg. Calendar 29 Oct. 192 BCE

The year -191 astronomical counting style corresponds to year 192 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 192 BCE
geocentric

DECEMBER 192 BCE (-191) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 24 35	6♐10'32	2♒32	19♏45	10♏14	20♎15	0♍24	11♐13	24♐16	20♍45	19♑24	5°R46	4♈33	5♊ 4	n.a.	T 1
W 2	4 28 32	7°11'48	16°28	21°13	11°29	20°55	0°28	11°20	24°20	20°46	19°25	5♈41	4°29	5°10	n.a.	W 2
T 3	4 32 29	8°13'05	29°54	22°42	12°44	21°35	0°31	11°27	24°23	20°47	19°27	5°39	4°26	5°17	n.a.	T 3
F 4	4 36 25	9°14'20	12♓53	24°11	13°59	22°16	0°34	11°34	24°26	20°47	19°28	5°D39	4°23	5°24	n.a.	F 4
S 5	4 40 22	10°15'36	25°30	25°40	15°14	22°56	0°37	11°41	24°30	20°48	19°29	5°39	4°20	5°30	n.a.	S 5
S 6	4 44 18	11°16'50	7♈49	27°10	16°28	23°36	0°39	11°48	24°33	20°49	19°31	5°R40	4°17	5°37	n.a.	S 6
M 7	4 48 15	12°18'05	19°55	28°41	17°43	24°16	0°42	11°55	24°37	20°50	19°32	5°39	4°13	5°44	n.a.	M 7
T 8	4 52 11	13°19'18	1♉52	0♗12	18°58	24°57	0°44	12° 2	24°40	20°50	19°34	5°35	4°10	5°51	n.a.	T 8
W 9	4 56 8	14°20'32	13°44	1°43	20°13	25°37	0°46	12° 9	24°44	20°51	19°35	5°29	4° 7	5°57	n.a.	W 9
T 10	5 0 5	15°21'45	25°35	3°15	21°28	26°17	0°48	12°16	24°47	20°51	19°37	5°20	4° 4	6° 4	n.a.	T 10
F 11	5 4 1	16°22'57	7♊26	4°47	22°43	26°57	0°50	12°23	24°51	20°52	19°38	5° 8	4° 1	6°11	n.a.	F 11
S 12	5 7 58	17°24'09	19°19	6°20	23°58	27°38	0°52	12°31	24°54	20°52	19°40	4°55	3°58	6°17	n.a.	S 12
S 13	5 11 54	18°25'21	1♋15	7°53	25°13	28°18	0°53	12°38	24°58	20°53	19°42	4°40	3°54	6°24	n.a.	S 13
M14	5 15 51	19°26'32	13°16	9°26	26°28	28°58	0°54	12°45	25° 2	20°53	19°43	4°26	3°51	6°31	n.a.	M14
T 15	5 19 47	20°27'43	25°23	11° 1	27°43	29°39	0°55	12°52	25° 5	20°54	19°45	4°14	3°48	6°38	n.a.	T 15
W16	5 23 44	21°28'53	7♌37	12°35	28°58	0♏19	0°56	12°59	25° 9	20°54	19°46	4° 4	3°45	6°44	n.a.	W16
T 17	5 27 40	22°30'03	20° 1	14°10	0♗13	0°59	0°57	13° 6	25°12	20°54	19°48	3°57	3°42	6°51	n.a.	T 17
F 18	5 31 37	23°31'12	2♍38	15°46	1°28	1°40	0°57	13°13	25°16	20°55	19°49	3°53	3°39	6°58	n.a.	F 18
S 19	5 35 34	24°32'21	15°32	17°22	2°43	2°20	0°57	13°20	25°19	20°55	19°51	3°52	3°35	7° 4	n.a.	S 19
S 20	5 39 30	25°33'29	28°45	18°58	3°58	3° 1	0°R57	13°27	25°23	20°55	19°53	3°52	3°32	7°11	n.a.	S 20
M21	5 43 27	26°34'37	12♎21	20°35	5°13	3°41	0°57	13°33	25°26	20°55	19°54	3°52	3°29	7°18	n.a.	M21
T 22	5 47 23	27°35'45	26°23	22°13	6°28	4°22	0°57	13°40	25°30	20°56	19°56	3°50	3°26	7°24	n.a.	T 22
W23	5 51 20	28°36'52	10♏50	23°51	7°43	5° 2	0°56	13°47	25°34	20°56	19°58	3°47	3°23	7°31	n.a.	W23
T 24	5 55 16	29°37'58	25°40	25°30	8°58	5°43	0°56	13°54	25°37	20°56	19°59	3°40	3°19	7°38	n.a.	T 24
F 25	5 59 13	0♑39'04	10♐48	27°10	10°13	6°23	0°55	14° 1	25°41	20°56	20° 1	3°31	3°16	7°45	n.a.	F 25
S 26	6 3 9	1°40'09	26° 3	28°50	11°28	7° 4	0°54	14° 8	25°44	20°R56	20° 3	3°19	3°13	7°51	n.a.	S 26
S 27	6 7 6	2°41'13	11♑15	0♑31	12°43	7°44	0°52	14°15	25°48	20°56	20° 5	3° 7	3°10	7°58	n.a.	S 27
M28	6 11 3	3°42'16	26°12	2°12	13°58	8°25	0°51	14°22	25°51	20°56	20° 6	2°56	3° 7	8° 5	n.a.	M28
T 29	6 14 59	4°43'17	10♒46	3°54	15°13	9° 5	0°49	14°28	25°55	20°56	20° 8	2°47	3° 4	8°11	n.a.	T 29
W30	6 18 56	5°44'17	24°52	5°37	16°28	9°46	0°47	14°35	25°58	20°56	20°10	2°40	3° 0	8°18	n.a.	W30
T 31	6 22 52	6♑45'16	8♓27	7♑20	17♐43	10♏26	0♍45	14♐42	26♐ 2	20♍55	20♑11	2♈36	2♈57	8♊25	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21s36	24s14	4s32	17s26	0n28	13s47	1n20	7s11	0n53	12n40	1n18	21s30	0n54	23s52	0s17	5n17	1n43	30s45	8s32	2n19	1n50	25n48		n.a.
W 2	21 46	19 45	3 51	17 57	0 20	14 13	1 18	7 27	0 53	12 40	1 18	21 31	0 54	23 52	0 17	5 16	1 43	30 44	8 32	2 17	1 48	25 50		n.a.
T 3	21 56	14 25	2 59	18 27	0 13	14 38	1 16	7 42	0 52	12 39	1 19	21 32	0 54	23 53	0 17	5 16	1 43	30 44	8 32	2 16	1 47	25 51		n.a.
F 4	22 6	8 37	1 58	18 57	0 6	15 2	1 14	7 58	0 52	12 38	1 19	21 33	0 54	23 53	0 17	5 16	1 43	30 44	8 32	2 16	1 46	25 53		n.a.
S 5	22 15	2 38	0 54	19 26	0s 2	15 26	1 12	8 13	0 51	12 37	1 19	21 34	0 54	23 53	0 17	5 16	1 43	30 43	8 32	2 16	1 44	25 55		n.a.
S 6	22 24	3n19	0n11	19 54	0 9	15 50	1 10	8 29	0 51	12 36	1 19	21 35	0 54	23 53	0 17	5 16	1 43	30 43	8 32	2 16	1 43	25 56		n.a.
M 7	22 32	9 2	1 15	20 21	0 16	16 14	1 8	8 44	0 50	12 36	1 20	21 36	0 54	23 53	0 17	5 15	1 43	30 43	8 32	2 16	1 42	25 58		n.a.
T 8	22 40	14 22	2 15	20 48	0 22	16 37	1 6	9 0	0 50	12 35	1 20	21 37	0 54	23 53	0 17	5 15	1 43	30 42	8 32	2 15	1 41	25 59		n.a.
W 9	22 47	19 7	3 8	21 13	0 29	16 59	1 4	9 15	0 50	12 35	1 20	21 38	0 54	23 54	0 17	5 15	1 43	30 42	8 32	2 12	1 39	26 1		n.a.
T 10	22 54	23 8	3 52	21 38	0 36	17 21	1 1	9 30	0 49	12 34	1 21	21 39	0 54	23 54	0 17	5 15	1 43	30 42	8 32	2 9	1 38	26 3		n.a.
F 11	23 1	26 11	4 27	22 2	0 42	17 43	0 59	9 45	0 49	12 34	1 21	21 40	0 54	23 54	0 17	5 15	1 43	30 42	8 32	2 4	1 37	26 4		n.a.
S 12	23 7	28 5	4 49	22 24	0 48	18 4	0 57	10 0	0 48	12 34	1 21	21 41	0 53	23 54	0 17	5 14	1 44	30 41	8 32	1 58	1 36	26 6		n.a.
S 13	23 13	28 43	5 0	22 46	0 54	18 25	0 54	10 15	0 48	12 33	1 22	21 42	0 53	23 54	0 17	5 14	1 44	30 41	8 31	1 53	1 34	26 8		n.a.
M14	23 18	27 58	4 57	23 7	1 0	18 45	0 52	10 30	0 47	12 33	1 22	21 43	0 53	23 54	0 17	5 14	1 44	30 41	8 31	1 47	1 33	26 9		n.a.
T 15	23 22	25 54	4 40	23 26	1 6	19 5	0 50	10 45	0 47	12 33	1 22	21 44	0 53	23 54	0 17	5 14	1 44	30 40	8 31	1 42	1 32	26 11		n.a.
W16	23 27	22 37	4 11	23 45	1 11	19 24	0 47	11 0	0 46	12 33	1 23	21 45	0 53	23 55	0 17	5 14	1 44	30 40	8 31	1 38	1 30	26 12		n.a.
T 17	23 30	18 17	3 29	24 2	1 16	19 42	0 45	11 14	0 46	12 33	1 23	21 45	0 53	23 55	0 17	5 14	1 44	30 40	8 31	1 35	1 29	26 14		n.a.
F 18	23 34	13 5	2 37	24 18	1 21	20 0	0 42	11 29	0 45	12 33	1 23	21 46	0 53	23 55	0 17	5 14	1 44	30 39	8 31	1 34	1 28	26 16		n.a.
S 19	23 36	7 14	1 35	24 32	1 26	20 18	0 40	11 44	0 45	12 34	1 23	21 47	0 53	23 55	0 17	5 14	1 44	30 39	8 31	1 33	1 27	26 17		n.a.
S 20	23 39	0 55	0 27	24 46	1 31	20 35	0 37	11 58	0 44	12 34	1 24	21 48	0 53	23 55	0 17	5 14	1 44	30 39	8 31	1 33	1 25	26 19		n.a.
M21	23 41	5s37	0s45	24 58	1 35	20 51	0 35	12 12	0 44	12 34	1 24	21 49	0 53	23 55	0 17	5 14	1 44	30 39	8 31	1 33	1 24	26 20		n.a.
T 22	23 42	12 5	1 56	25 8	1 39	21 7	0 32	12 27	0 43	12 35	1 24	21 50	0 53	23 55	0 17	5 14	1 44	30 38	8 31	1 33	1 23	26 22		n.a.
W23	23 43	18 7	3 2	25 17	1 43	21 22	0 30	12 41	0 43	12 35	1 25	21 51	0 53	23 55	0 17	5 14	1 44	30 38	8 31	1 31	1 21	26 23		n.a.
T 24	23 43	23 14	3 57	25 25	1 46	21 36	0 27	12 55	0 42	12 36	1 25	21 52	0 53	23 56	0 17	5 14	1 44	30 38	8 31	1 28	1 20	26 25		n.a.
F 25	23 43	26 54	4 37	25 31	1 49	21 50	0 25	13 9	0 42	12 36	1 25	21 53	0 53	23 56	0 17	5 14	1 44	30 37	8 31	1 25	1 19	26 26		n.a.
S 26	23 43	28 37	4 57	25 35	1 52	22 3	0 22	13 23	0 41	12 37	1 26	21 54	0 53	23 56	0 17	5 14	1 44	30 37	8 31	1 20	1 18	26 28		n.a.
S 27	23 42	28 10	4 57	25 38	1 55	22 16	0 19	13 37	0 40	12 38	1 26	21 54	0 53	23 56	0 17	5 14	1 44	30 37	8 31	1 15	1 16	26 29		n.a.
M28	23 40	25 40	4 36	25 39	1 57	22 28	0 17	13 51	0 40	12 38	1 26	21 55	0 53	23 56	0 17	5 14	1 45	30 37	8 31	1 11	1 15	26 31		n.a.
T 29	23 38	21 32	3 57	25 38	1 59	22 39	0 14	14 4	0 39	12 39	1 26	21 56	0 53	23 56	0 17	5 14	1 45	30 36	8 31	1 7	1 14	26 32		n.a.
W30	23 36	16 17	3 5	25 36	2 0	22 50	0 12	14 18	0 39	12 40	1 27	21 57	0 53	23 56	0 17	5 14	1 45	30 36	8 31	1 4	1 13	26 34		n.a.
T 31	23s33	10s24	2s 4	25s32	2s 1	23s 0	0n 9	14s31	0n38	12n41	1n27	21s58	0n53	23s56	0s17	5n14	1n45	30s36	8s31	1n 3	1n11	26n35		n.a.

Julian Day Number = 1651629.5, Delta T = 03h30m41s
Ecliptic obliquity = 23°43'15, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°42'23, Lahiri = - 6°35'23 Julian Calendar 1 Dec. 192 BCE == Greg. Calendar 28 Nov. 192 BCE

The year -191 astronomical counting style corresponds to year 192 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 191 BCE
geocentric

JANUARY 191 BCE (-190) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 26 49	7♑46'13	21♓33	9♑ 4	18♐58	11♏ 7	0°R43	14♐49	26♐ 5	20°R55	20♑13	2°R34	2♈54	8♊32	n.a.	F 1
S 2	6 30 45	8°47'09	4♈14	10°49	20°13	11°48	0♍41	14°55	26° 9	20♍55	20°15	2♈34	2°51	8°38	n.a.	S 2
S 3	6 34 42	9°48'04	16°35	12°34	21°28	12°28	0°38	15° 2	26°12	20°55	20°17	2°34	2°48	8°45	n.a.	S 3
M 4	6 38 39	10°48'56	28°40	14°20	22°43	13° 9	0°35	15° 9	26°16	20°55	20°18	2°33	2°45	8°52	n.a.	M 4
T 5	6 42 35	11°49'48	10♉35	16° 7	23°58	13°49	0°32	15°15	26°19	20°54	20°20	2°30	2°41	8°58	n.a.	T 5
W 6	6 46 32	12°50'37	22°26	17°54	25°13	14°30	0°29	15°22	26°23	20°54	20°22	2°24	2°38	9° 5	n.a.	W 6
T 7	6 50 28	13°51'26	4♊15	19°41	26°28	15°11	0°26	15°28	26°26	20°54	20°24	2°15	2°35	9°12	n.a.	T 7
F 8	6 54 25	14°52'12	16° 7	21°29	27°43	15°51	0°22	15°35	26°30	20°53	20°25	2° 3	2°32	9°19	n.a.	F 8
S 9	6 58 21	15°52'58	28° 4	23°18	28°58	16°32	0°18	15°41	26°33	20°53	20°27	1°50	2°29	9°25	n.a.	S 9
S 10	7 2 18	16°53'41	10♋ 7	25° 6	0♑12	17°13	0°15	15°47	26°36	20°52	20°29	1°36	2°25	9°32	n.a.	S 10
M11	7 6 14	17°54'23	22°18	26°55	1°27	17°53	0°11	15°54	26°40	20°52	20°31	1°22	2°22	9°39	n.a.	M11
T 12	7 10 11	18°55'04	4♌37	28°44	2°42	18°34	0° 6	16° 0	26°43	20°51	20°33	1°10	2°19	9°45	n.a.	T 12
W13	7 14 8	19°55'43	17° 5	0♒32	3°57	19°15	0° 2	16° 6	26°47	20°51	20°34	1° 0	2°16	9°52	n.a.	W13
T 14	7 18 4	20°56'21	29°43	2°20	5°12	19°56	29♌57	16°13	26°50	20°50	20°36	0°53	2°13	9°59	n.a.	T 14
F 15	7 22 1	21°56'57	12♍32	4° 8	6°27	20°36	29°53	16°19	26°53	20°49	20°38	0°49	2°10	10° 6	n.a.	F 15
S 16	7 25 57	22°57'32	25°33	5°54	7°42	21°17	29°48	16°25	26°56	20°49	20°40	0°D48	2° 6	10°12	n.a.	S 16
S 17	7 29 54	23°58'05	8♎49	7°39	8°56	21°58	29°43	16°31	27° 0	20°48	20°41	0°48	2° 3	10°19	n.a.	S 17
M18	7 33 50	24°58'37	22°23	9°22	10°11	22°39	29°38	16°37	27° 3	20°47	20°43	0°R48	2° 0	10°26	n.a.	M18
T 19	7 37 47	25°59'08	6♏15	11° 3	11°26	23°19	29°32	16°43	27° 6	20°46	20°45	0°48	1°57	10°32	n.a.	T 19
W20	7 41 43	26°59'37	20°27	12°42	12°41	24° 0	29°27	16°49	27° 9	20°46	20°47	0°45	1°54	10°39	n.a.	W20
T 21	7 45 40	28° 0'05	4♐57	14°17	13°56	24°41	29°21	16°55	27°13	20°45	20°49	0°41	1°51	10°46	n.a.	T 21
F 22	7 49 37	29° 0'32	19°41	15°49	15°11	25°22	29°16	17° 1	27°16	20°44	20°50	0°34	1°47	10°53	n.a.	F 22
S 23	7 53 33	0♒ 0'57	4♑34	17°16	16°25	26° 3	29°10	17° 7	27°19	20°43	20°52	0°25	1°44	10°59	n.a.	S 23
S 24	7 57 30	1° 1'20	19°27	18°38	17°40	26°43	29° 4	17°12	27°22	20°42	20°54	0°15	1°41	11° 6	n.a.	S 24
M25	8 1 26	2° 1'42	4♒11	19°55	18°55	27°24	28°57	17°18	27°25	20°41	20°56	0° 6	1°38	11°13	n.a.	M25
T 26	8 5 23	3° 2'01	18°38	21° 5	20°10	28° 5	28°51	17°24	27°28	20°40	20°57	29♓58	1°35	11°19	n.a.	T 26
W27	8 9 19	4° 2'19	2♓42	22° 8	21°25	28°46	28°45	17°29	27°31	20°39	20°59	29°52	1°31	11°26	n.a.	W27
T 28	8 13 16	5° 2'34	16°20	23° 4	22°39	29°27	28°38	17°35	27°34	20°38	21° 1	29°49	1°28	11°33	n.a.	T 28
F 29	8 17 12	6° 2'48	29°31	23°52	23°54	0♐ 8	28°32	17°40	27°37	20°37	21° 3	29°D48	1°25	11°40	n.a.	F 29
S 30	8 21 9	7° 2'59	12♈17	24°32	25° 9	0°48	28°25	17°46	27°40	20°36	21° 4	29°49	1°22	11°46	n.a.	S 30
S 31	8 25 6	8♒ 3'08	24♈43	25♒ 2	26♑24	1♐29	28♌18	17♐51	27♐43	20♍35	21♑ 6	29♓50	1♈19	11♊53	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s29	4s16	0s58	25s26	2s 2	23s 9	0n 7	14s45	0n37	12n42	1n27	21s58	0n52	23s57	0s17	5n14	1n45	30s36	8s31	1n 2	1n10	26n37		n.a.
S 2	23 26	1n50	0n 9	25 18	2 2	23 17	0 4	14 58	0 37	12 44	1 28	21 59	0 52	23 57	0 17	5 15	1 45	30 35	8 31	1 2	1 9	26 38		n.a.
S 3	23 21	7 43	1 13	25 8	2 2	23 25	0 1	15 11	0 36	12 45	1 28	22 0	0 52	23 57	0 17	5 15	1 45	30 35	8 31	1 2	1 7	26 40		n.a.
M 4	23 16	13 12	2 13	24 56	2 1	23 32	0s 1	15 24	0 36	12 46	1 28	22 1	0 52	23 57	0 17	5 15	1 45	30 35	8 31	1 1	1 6	26 41		n.a.
T 5	23 11	18 7	3 6	24 43	2 0	23 39	0 4	15 37	0 35	12 47	1 29	22 2	0 52	23 57	0 17	5 15	1 45	30 34	8 31	1 0	1 5	26 42		n.a.
W 6	23 6	22 19	3 51	24 27	1 58	23 44	0 6	15 50	0 34	12 49	1 29	22 2	0 52	23 57	0 17	5 15	1 45	30 34	8 31	0 58	1 4	26 44		n.a.
T 7	22 59	25 35	4 26	24 9	1 55	23 49	0 9	16 3	0 34	12 50	1 29	22 3	0 52	23 57	0 17	5 16	1 45	30 34	8 31	0 54	1 2	26 45		n.a.
F 8	22 53	27 46	4 49	23 50	1 52	23 53	0 11	16 15	0 33	12 52	1 29	22 4	0 52	23 57	0 17	5 16	1 45	30 34	8 31	0 50	1 1	26 47		n.a.
S 9	22 46	28 42	4 59	23 28	1 49	23 57	0 14	16 28	0 32	12 53	1 30	22 5	0 52	23 57	0 17	5 16	1 45	30 33	8 31	0 44	1 0	26 48		n.a.
S 10	22 38	28 16	4 57	23 5	1 45	23 59	0 16	16 40	0 32	12 55	1 30	22 5	0 52	23 58	0 17	5 16	1 45	30 33	8 31	0 39	0 59	26 50		n.a.
M11	22 30	26 28	4 41	22 39	1 40	24 1	0 19	16 52	0 31	12 57	1 30	22 6	0 52	23 58	0 17	5 17	1 45	30 33	8 31	0 33	0 57	26 51		n.a.
T 12	22 22	23 24	4 11	22 12	1 34	24 3	0 21	17 4	0 30	12 58	1 30	22 7	0 52	23 58	0 17	5 17	1 46	30 33	8 31	0 28	0 56	26 52		n.a.
W13	22 13	19 13	3 29	21 43	1 28	24 3	0 23	17 16	0 29	13 0	1 31	22 7	0 52	23 58	0 17	5 17	1 46	30 32	8 31	0 24	0 55	26 54		n.a.
T 14	22 4	14 9	2 37	21 11	1 21	24 3	0 26	17 28	0 29	13 2	1 31	22 8	0 52	23 58	0 17	5 17	1 46	30 32	8 31	0 21	0 53	26 55		n.a.
F 15	21 54	8 24	1 35	20 39	1 14	24 2	0 28	17 40	0 28	13 4	1 31	22 9	0 52	23 58	0 17	5 18	1 46	30 32	8 32	0 20	0 52	26 56		n.a.
S 16	21 44	2 13	0 28	20 4	1 5	24 0	0 30	17 51	0 27	13 6	1 31	22 9	0 52	23 58	0 17	5 18	1 46	30 32	8 32	0 19	0 51	26 58		n.a.
S 17	21 34	4s11	0s43	19 29	0 56	23 57	0 33	18 3	0 26	13 8	1 32	22 10	0 52	23 58	0 17	5 18	1 46	30 32	8 32	0 19	0 50	26 59		n.a.
M18	21 23	10 33	1 52	18 52	0 46	23 54	0 35	18 14	0 26	13 10	1 32	22 11	0 52	23 58	0 17	5 19	1 46	30 31	8 32	0 19	0 48	27 0		n.a.
T 19	21 12	16 32	2 57	18 14	0 36	23 50	0 37	18 25	0 25	13 12	1 32	22 11	0 52	23 58	0 17	5 19	1 46	30 31	8 32	0 19	0 47	27 2		n.a.
W20	21 0	21 48	3 52	17 35	0 24	23 46	0 39	18 36	0 24	13 14	1 32	22 12	0 52	23 58	0 17	5 19	1 46	30 31	8 32	0 18	0 46	27 3		n.a.
T 21	20 48	25 51	4 34	16 56	0 12	23 40	0 41	18 47	0 23	13 17	1 33	22 12	0 52	23 59	0 17	5 20	1 46	30 31	8 32	0 16	0 44	27 4		n.a.
F 22	20 36	28 16	4 58	16 17	0n 0	23 34	0 43	18 58	0 23	13 19	1 33	22 13	0 52	23 59	0 17	5 20	1 46	30 31	8 32	0 14	0 43	27 6		n.a.
S 23	20 23	28 41	5 3	15 37	0 14	23 27	0 46	19 8	0 22	13 21	1 33	22 14	0 52	23 59	0 17	5 21	1 46	30 30	8 32	0 10	0 42	27 7		n.a.
S 24	20 10	27 1	4 47	14 59	0 28	23 19	0 48	19 19	0 21	13 24	1 33	22 14	0 52	23 59	0 17	5 21	1 46	30 30	8 32	0 6	0 41	27 8		n.a.
M25	19 56	23 31	4 12	14 21	0 42	23 11	0 50	19 29	0 20	13 26	1 34	22 15	0 52	23 59	0 17	5 21	1 46	30 30	8 32	0 2	0 39	27 10		n.a.
T 26	19 43	18 36	3 22	13 44	0 57	23 2	0 52	19 39	0 19	13 28	1 34	22 15	0 52	23 59	0 17	5 22	1 46	30 30	8 32	0s 1	0 38	27 11		n.a.
W27	19 28	12 48	2 20	13 9	1 12	22 52	0 53	19 49	0 18	13 31	1 34	22 16	0 52	23 59	0 17	5 22	1 46	30 30	8 33	0 3	0 37	27 12		n.a.
T 28	19 14	6 33	1 12	12 36	1 28	22 42	0 55	19 59	0 18	13 33	1 34	22 16	0 52	23 59	0 17	5 23	1 46	30 29	8 33	0 4	0 36	27 13		n.a.
F 29	18 59	0 13	0 2	12 6	1 43	22 31	0 57	20 9	0 17	13 36	1 34	22 17	0 52	23 59	0 17	5 23	1 46	30 29	8 33	0 5	0 34	27 15		n.a.
S 30	18 44	5n56	1n 7	11 38	1 59	22 19	0 59	20 18	0 16	13 38	1 35	22 17	0 52	23 59	0 17	5 24	1 47	30 29	8 33	0 4	0 33	27 16		n.a.
S 31	18s28	11n41	2n10	11s14	2n14	22s 7	1s 1	20s27	0n15	13n41	1n35	22s18	0n52	23s59	0s17	5n24	1n47	30s29	8s33	0s 4	0n32	27n17		n.a.

Julian Day Number = 1651660.5, Delta T = 03h30m40s
Ecliptic obliquity = 23°43'15, Nutation = - 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°42'19, Lahiri = - 6°35'19 Julian Calendar 1 Jan. 191 BCE == Greg. Calendar 29 Dec. 192 BCE

The year -190 astronomical counting style corresponds to year 191 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 191 BCE
geocentric

FEBRUARY 191 BCE (-190) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 29 2	9♒ 3'15	6♉52	25♒24	27♉38	2♐10	28°R11	17♐56	27♐46	20°R34	21♉ 8	29°R51	1♈16	12♊ 0	n.a.	M 1
T 2	8 32 59	10° 3'19	18°50	25°36	28°53	2°51	28♌ 4	18° 2	27°49	20♍33	21° 9	29♓50	1°12	12° 6	n.a.	T 2
W 3	8 36 55	11° 3'22	0♊42	25°R38	0♒ 8	3°32	27°57	18° 7	27°52	20°32	21°11	29°48	1° 9	12°13	n.a.	W 3
T 4	8 40 52	12° 3'22	12°33	25°32	1°22	4°13	27°50	18°12	27°55	20°31	21°13	29°44	1° 6	12°20	n.a.	T 4
F 5	8 44 48	13° 3'20	24°27	25°16	2°37	4°54	27°43	18°17	27°57	20°29	21°15	29°37	1° 3	12°27	n.a.	F 5
S 6	8 48 45	14° 3'16	6♋28	24°52	3°52	5°34	27°35	18°22	28° 0	20°28	21°16	29°30	1° 0	12°33	n.a.	S 6
S 7	8 52 41	15° 3'09	18°38	24°20	5° 6	6°15	27°28	18°27	28° 3	20°27	21°18	29°21	0°57	12°40	n.a.	S 7
M 8	8 56 38	16° 3'01	0♌59	23°42	6°21	6°56	27°20	18°32	28° 5	20°26	21°19	29°13	0°53	12°47	n.a.	M 8
T 9	9 0 35	17° 2'50	13°32	22°57	7°35	7°37	27°13	18°36	28° 8	20°24	21°21	29° 5	0°50	12°53	n.a.	T 9
W10	9 4 31	18° 2'37	26°17	22° 7	8°50	8°18	27° 5	18°41	28°11	20°23	21°23	29° 0	0°47	13° 0	n.a.	W10
T 11	9 8 28	19° 2'22	9♍15	21°13	10° 5	8°59	26°58	18°46	28°13	20°22	21°24	28°56	0°44	13° 7	n.a.	T 11
F 12	9 12 24	20° 2'05	22°25	20°17	11°19	9°40	26°50	18°50	28°16	20°20	21°26	28°54	0°41	13°14	n.a.	F 12
S 13	9 16 21	21° 1'46	5♎46	19°19	12°34	10°21	26°42	18°55	28°18	20°19	21°28	28°D54	0°37	13°20	n.a.	S 13
S 14	9 20 17	22° 1'25	19°19	18°22	13°48	11° 1	26°35	18°59	28°21	20°18	21°29	28°55	0°34	13°27	n.a.	S 14
M15	9 24 14	23° 1'02	3♏ 3	17°26	15° 3	11°42	26°27	19° 4	28°23	20°16	21°31	28°57	0°31	13°34	n.a.	M15
T 16	9 28 10	24° 0'38	16°59	16°32	16°17	12°23	26°19	19° 8	28°25	20°15	21°32	28°58	0°28	13°40	n.a.	T 16
W17	9 32 7	25° 0'12	1♐ 5	15°42	17°32	13° 4	26°11	19°12	28°28	20°13	21°34	28°R58	0°25	13°47	n.a.	W17
T 18	9 36 4	25°59'44	15°21	14°56	18°46	13°45	26° 4	19°16	28°30	20°12	21°35	28°57	0°22	13°54	n.a.	T 18
F 19	9 40 0	26°59'14	29°44	14°14	20° 1	14°26	25°56	19°20	28°32	20°11	21°37	28°54	0°18	14° 1	n.a.	F 19
S 20	9 43 57	27°58'42	14♑10	13°38	21°15	15° 7	25°48	19°24	28°35	20° 9	21°38	28°50	0°15	14° 7	n.a.	S 20
S 21	9 47 53	28°58'09	28°34	13° 8	22°30	15°48	25°40	19°28	28°37	20° 8	21°40	28°45	0°12	14°14	n.a.	S 21
M22	9 51 50	29°57'33	12♒52	12°43	23°44	16°28	25°33	19°32	28°39	20° 6	21°41	28°41	0° 9	14°21	n.a.	M22
T 23	9 55 46	0♓56'55	26°56	12°24	24°59	17° 9	25°25	19°35	28°41	20° 5	21°43	28°37	0° 6	14°28	n.a.	T 23
W24	9 59 43	1°56'15	10♓44	12°12	26°13	17°50	25°17	19°39	28°43	20° 3	21°44	28°35	0° 3	14°34	n.a.	W24
T 25	10 3 39	2°55'33	24°11	12° 5	27°28	18°31	25° 9	19°43	28°45	20° 1	21°46	28°D34	29♓59	14°41	n.a.	T 25
F 26	10 7 36	3°54'48	7♈18	12°D 4	28°42	19°12	25° 2	19°46	28°47	20° 0	21°47	28°34	29°56	14°48	n.a.	F 26
S 27	10 11 33	4°54'02	20° 4	12° 9	29°56	19°53	24°54	19°49	28°49	19°58	21°48	28°35	29°53	14°54	n.a.	S 27
S 28	10 15 29	5♓53'13	2♉31	12♒19	1♓11	20♐33	24♌47	19♐53	28♐51	19♍57	21♉50	28♓37	29♓50	15♊ 1	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	18s12	16n53	3n 6	10s53	2n28	21s54	1s 2	20s37	0n14	13n43	1n35	22s18	0n52	23s59	0s17	5n25	1n47	30s29	8s33	0s 4	0n30	27n18		n.a.
T 2	17 56	21 21	3 53	10 35	2 42	21 40	1 4	20 46	0 13	13 46	1 35	22 19	0 52	23 59	0 17	5 25	1 47	30 29	8 33	0 4	0 29	27 20		n.a.
W 3	17 40	24 55	4 29	10 22	2 56	21 25	1 5	20 55	0 12	13 49	1 35	22 19	0 52	24 0	0 17	5 26	1 47	30 28	8 33	0 5	0 28	27 21		n.a.
T 4	17 23	27 25	4 54	10 13	3 8	21 10	1 7	21 3	0 11	13 51	1 35	22 20	0 52	24 0	0 17	5 26	1 47	30 28	8 34	0 7	0 27	27 22		n.a.
F 5	17 6	28 42	5 6	10 8	3 19	20 55	1 8	21 12	0 10	13 54	1 36	22 20	0 52	24 0	0 17	5 27	1 47	30 28	8 34	0 9	0 25	27 23		n.a.
S 6	16 48	28 38	5 5	10 7	3 28	20 39	1 10	21 20	0 9	13 57	1 36	22 21	0 52	24 0	0 17	5 27	1 47	30 28	8 34	0 12	0 24	27 24		n.a.
S 7	16 31	27 12	4 50	10 10	3 36	20 22	1 11	21 28	0 8	14 0	1 36	22 21	0 52	24 0	0 17	5 28	1 47	30 28	8 34	0 16	0 23	27 26		n.a.
M 8	16 13	24 26	4 22	10 17	3 42	20 4	1 12	21 36	0 7	14 2	1 36	22 22	0 52	24 0	0 17	5 28	1 47	30 28	8 34	0 19	0 21	27 27		n.a.
T 9	15 55	20 28	3 41	10 28	3 46	19 46	1 14	21 44	0 6	14 5	1 36	22 22	0 52	24 0	0 17	5 29	1 47	30 28	8 34	0 22	0 20	27 28		n.a.
W10	15 36	15 31	2 47	10 42	3 49	19 28	1 15	21 52	0 5	14 8	1 36	22 22	0 52	24 0	0 17	5 29	1 47	30 27	8 34	0 24	0 19	27 29		n.a.
T 11	15 17	9 48	1 45	10 59	3 49	19 9	1 16	21 59	0 4	14 10	1 36	22 23	0 52	24 0	0 17	5 30	1 47	30 27	8 35	0 26	0 18	27 30		n.a.
F 12	14 58	3 35	0 35	11 19	3 47	18 49	1 17	22 6	0 3	14 13	1 36	22 23	0 52	24 0	0 17	5 30	1 47	30 27	8 35	0 27	0 16	27 31		n.a.
S 13	14 39	2s53	0s37	11 40	3 43	18 29	1 18	22 13	0 2	14 16	1 37	22 24	0 52	24 0	0 18	5 31	1 47	30 27	8 35	0 27	0 15	27 33		n.a.
S 14	14 20	9 19	1 49	12 3	3 37	18 8	1 19	22 20	0 1	14 19	1 37	22 24	0 52	24 0	0 18	5 32	1 47	30 27	8 35	0 26	0 14	27 34		n.a.
M15	14 0	15 25	2 55	12 28	3 30	17 47	1 20	22 27	0 0	14 22	1 37	22 24	0 52	24 0	0 18	5 32	1 47	30 27	8 35	0 25	0 13	27 35		n.a.
T 16	13 40	20 48	3 52	12 52	3 21	17 25	1 21	22 34	0s 1	14 24	1 37	22 25	0 52	24 0	0 18	5 33	1 47	30 27	8 35	0 25	0 11	27 36		n.a.
W17	13 20	25 7	4 36	13 17	3 10	17 3	1 21	22 40	0 2	14 27	1 37	22 25	0 52	24 0	0 18	5 33	1 47	30 27	8 36	0 25	0 10	27 37		n.a.
T 18	13 0	27 55	5 3	13 42	2 59	16 40	1 22	22 46	0 3	14 30	1 37	22 25	0 52	24 0	0 18	5 34	1 47	30 27	8 36	0 26	0 9	27 38		n.a.
F 19	12 40	28 55	5 12	14 6	2 46	16 17	1 23	22 52	0 4	14 32	1 37	22 26	0 52	24 0	0 18	5 35	1 47	30 27	8 36	0 27	0 7	27 39		n.a.
S 20	12 19	27 56	5 1	14 29	2 33	15 54	1 23	22 58	0 5	14 35	1 37	22 26	0 52	24 0	0 18	5 35	1 47	30 27	8 36	0 28	0 6	27 40		n.a.
S 21	11 58	25 6	4 31	14 52	2 19	15 30	1 24	23 4	0 7	14 38	1 37	22 26	0 52	24 0	0 18	5 36	1 47	30 27	8 36	0 30	0 5	27 41		n.a.
M22	11 37	20 44	3 44	15 12	2 4	15 5	1 24	23 9	0 8	14 41	1 37	22 27	0 52	24 1	0 18	5 36	1 47	30 26	8 37	0 32	0 4	27 42		n.a.
T 23	11 16	15 15	2 45	15 32	1 50	14 40	1 25	23 14	0 9	14 43	1 37	22 27	0 52	24 1	0 18	5 37	1 47	30 26	8 37	0 33	0 2	27 43		n.a.
W24	10 55	9 7	1 36	15 49	1 35	14 15	1 25	23 19	0 10	14 46	1 37	22 27	0 52	24 1	0 18	5 38	1 47	30 26	8 37	0 34	0 1	27 45		n.a.
T 25	10 33	2 42	0 24	16 5	1 20	13 50	1 25	23 24	0 11	14 49	1 37	22 27	0 52	24 1	0 18	5 38	1 47	30 26	8 37	0 35	0s 0	27 46		n.a.
F 26	10 11	3n40	0n48	16 20	1 5	13 24	1 25	23 29	0 12	14 51	1 37	22 28	0 52	24 1	0 18	5 39	1 48	30 26	8 37	0 35	0 2	27 47		n.a.
S 27	9 50	9 42	1 55	16 32	0 51	12 57	1 25	23 33	0 14	14 54	1 37	22 28	0 52	24 1	0 18	5 40	1 48	30 26	8 38	0 34	0 3	27 48		n.a.
S 28	9s28	15n14	2n56	16s43	0n37	12s31	1s26	23s38	0s15	14n56	1n37	22s28	0n52	24s 1	0s18	5n40	1n48	30s26	8s38	0s34	0s 4	27n49		n.a.

Julian Day Number = 1651691.5, Delta T = 03h30m39s
Ecliptic obliquity = 23°43'15, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°42'15, Lahiri = - 6°35'14 Julian Calendar 1 Feb. 191 BCE == Greg. Calendar 29 Jan. 191 BCE

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ASTRODIENST EPHEMERIS for the year 191 BCE
geocentric

MARCH 191 BCE (-190) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 19 26	6♓52'21	14♉43	12♒35	2♓25	21♐14	24°R39	19♐56	28♐53	19°R55	21♑51	28♓38	29♓47	15♊ 8	n.a.	M 1
T 2	10 23 22	7°51'27	26°44	12°55	3°40	21°55	24♌32	19°59	28°55	19♍54	21°52	28°39	29°43	15°15	n.a.	T 2
W 3	10 27 19	8°50'31	8♊38	13°20	4°54	22°36	24°24	20° 2	28°56	19°52	21°54	28°R40	29°40	15°21	n.a.	W 3
T 4	10 31 15	9°49'33	20°30	13°50	6° 8	23°16	24°17	20° 5	28°58	19°50	21°55	28°39	29°37	15°28	n.a.	T 4
F 5	10 35 12	10°48'32	2♋26	14°24	7°23	23°57	24°10	20° 8	29° 0	19°49	21°56	28°38	29°34	15°35	n.a.	F 5
S 6	10 39 8	11°47'28	14°29	15° 2	8°37	24°38	24° 3	20°11	29° 1	19°47	21°58	28°36	29°31	15°41	n.a.	S 6
S 7	10 43 5	12°46'23	26°43	15°43	9°51	25°18	23°56	20°13	29° 3	19°46	21°59	28°34	29°28	15°48	n.a.	S 7
M 8	10 47 1	13°45'15	9♌11	16°29	11° 5	25°59	23°49	20°16	29° 4	19°44	22° 0	28°32	29°24	15°55	n.a.	M 8
T 9	10 50 58	14°44'04	21°55	17°18	12°20	26°40	23°42	20°18	29° 6	19°42	22° 1	28°30	29°21	16° 2	n.a.	T 9
W10	10 54 55	15°42'52	4♍56	18°10	13°34	27°20	23°35	20°21	29° 7	19°41	22° 2	28°28	29°18	16° 8	n.a.	W10
T 11	10 58 51	16°41'37	18°14	19° 5	14°48	28° 1	23°28	20°23	29° 9	19°39	22° 4	28°27	29°15	16°15	n.a.	T 11
F 12	11 2 48	17°40'20	1♎48	20° 3	16° 2	28°42	23°22	20°25	29°10	19°37	22° 5	28°D27	29°12	16°22	n.a.	F 12
S 13	11 6 44	18°39'01	15°36	21° 4	17°17	29°22	23°15	20°27	29°11	19°36	22° 6	28°28	29° 9	16°28	n.a.	S 13
S 14	11 10 41	19°37'40	29°35	22° 8	18°31	0♑ 3	23° 9	20°29	29°13	19°34	22° 7	28°28	29° 5	16°35	n.a.	S 14
M15	11 14 37	20°36'18	13♏42	23°14	19°45	0°43	23° 3	20°31	29°14	19°32	22° 8	28°29	29° 2	16°42	n.a.	M15
T 16	11 18 34	21°34'53	27°54	24°23	20°59	1°24	22°57	20°33	29°15	19°31	22° 9	28°30	28°59	16°49	n.a.	T 16
W17	11 22 30	22°33'27	12♐ 8	25°34	22°13	2° 5	22°51	20°35	29°16	19°29	22°10	28°30	28°56	16°55	n.a.	W17
T 18	11 26 27	23°32'00	26°22	26°47	23°27	2°45	22°45	20°37	29°17	19°28	22°11	28°R30	28°53	17° 2	n.a.	T 18
F 19	11 30 24	24°30'30	10♑33	28° 3	24°41	3°25	22°39	20°38	29°18	19°26	22°12	28°30	28°49	17° 9	n.a.	F 19
S 20	11 34 20	25°28'59	24°39	29°21	25°56	4° 6	22°34	20°40	29°19	19°24	22°13	28°30	28°46	17°16	n.a.	S 20
S 21	11 38 17	26°27'26	8♒37	0♓41	27°10	4°46	22°28	20°41	29°20	19°23	22°14	28°29	28°43	17°22	n.a.	S 21
M22	11 42 13	27°25'52	22°25	2° 3	28°24	5°27	22°23	20°42	29°21	19°21	22°15	28°29	28°40	17°29	n.a.	M22
T 23	11 46 10	28°24'15	6♓ 2	3°26	29°38	6° 7	22°18	20°43	29°21	19°19	22°16	28°D29	28°37	17°36	n.a.	T 23
W24	11 50 6	29°22'37	19°25	4°52	0♈52	6°47	22°13	20°45	29°22	19°18	22°17	28°29	28°34	17°42	n.a.	W24
T 25	11 54 3	0♈20'57	2♈33	6°20	2° 6	7°28	22° 8	20°46	29°23	19°16	22°18	28°R29	28°30	17°49	n.a.	T 25
F 26	11 57 59	1°19'15	15°25	7°50	3°20	8° 8	22° 3	20°46	29°24	19°15	22°18	28°29	28°27	17°56	n.a.	F 26
S 27	12 1 56	2°17'30	28° 2	9°21	4°34	8°48	21°58	20°47	29°24	19°13	22°19	28°29	28°24	18° 3	n.a.	S 27
S 28	12 5 52	3°15'44	10♉25	10°54	5°48	9°28	21°54	20°48	29°25	19°11	22°20	28°28	28°21	18° 9	n.a.	S 28
M29	12 9 49	4°13'56	22°35	12°29	7° 2	10° 8	21°50	20°48	29°25	19°10	22°21	28°28	28°18	18°16	n.a.	M29
T 30	12 13 46	5°12'06	4♊36	14° 6	8°16	10°48	21°46	20°49	29°26	19° 8	22°21	28°27	28°14	18°23	n.a.	T 30
W31	12 17 42	6♈10'14	16♊31	15♓45	9♈30	11♑28	21♌42	20♐49	29♐26	19♍ 7	22♑22	28♓26	28♓11	18♊29	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	9s 5	20n 3	3n47	16s52	0n23	12s 4	1s26	23s42	0s16	14n59	1n37	22s28	0n52	24s 1	0s18	5n41	1n48	30s26	8s38	0s33	0s 5	27n50			n.a.
T 2	8 43	23 59	4 28	16 59	0 10	11 36	1 25	23 46	0 17	15 1	1 37	22 29	0 52	24 1	0 18	5 42	1 48	30 26	8 38	0 32	0 7	27 51			n.a.
W 3	8 21	26 52	4 56	17 4	0s 3	11 9	1 25	23 49	0 19	15 4	1 37	22 29	0 52	24 1	0 18	5 42	1 48	30 26	8 39	0 32	0 8	27 52			n.a.
T 4	7 58	28 34	5 12	17 7	0 16	10 41	1 25	23 53	0 20	15 6	1 37	22 29	0 52	24 1	0 18	5 43	1 48	30 26	8 39	0 32	0 9	27 53			n.a.
F 5	7 36	28 56	5 14	17 9	0 28	10 13	1 25	23 56	0 21	15 9	1 37	22 29	0 52	24 1	0 18	5 44	1 48	30 26	8 39	0 33	0 10	27 54			n.a.
S 6	7 13	27 57	5 3	17 8	0 39	9 44	1 25	23 59	0 23	15 11	1 37	22 29	0 52	24 1	0 18	5 44	1 48	30 26	8 39	0 34	0 12	27 55			n.a.
S 7	6 51	25 36	4 38	17 6	0 50	9 16	1 24	24 2	0 24	15 13	1 37	22 30	0 52	24 1	0 18	5 45	1 48	30 26	8 39	0 35	0 13	27 55			n.a.
M 8	6 28	22 1	4 0	17 3	1 0	8 47	1 24	24 5	0 25	15 16	1 37	22 30	0 52	24 1	0 18	5 46	1 48	30 26	8 40	0 36	0 14	27 56			n.a.
T 9	6 5	17 20	3 8	16 57	1 10	8 18	1 23	24 7	0 27	15 18	1 37	22 30	0 52	24 1	0 18	5 46	1 48	30 26	8 40	0 36	0 16	27 57			n.a.
W10	5 42	11 46	2 6	16 50	1 20	7 48	1 23	24 10	0 28	15 20	1 37	22 30	0 52	24 1	0 18	5 47	1 48	30 26	8 40	0 37	0 17	27 58			n.a.
T 11	5 19	5 34	0 56	16 40	1 28	7 19	1 22	24 12	0 29	15 22	1 37	22 30	0 52	24 1	0 18	5 48	1 48	30 26	8 40	0 37	0 18	27 59			n.a.
F 12	4 56	1s 0	0s19	16 30	1 37	6 49	1 21	24 14	0 31	15 24	1 37	22 30	0 52	24 1	0 18	5 48	1 48	30 26	8 41	0 37	0 19	28 0			n.a.
S 13	4 32	7 39	1 33	16 17	1 44	6 19	1 21	24 15	0 32	15 26	1 36	22 31	0 52	24 1	0 18	5 49	1 48	30 26	8 41	0 37	0 21	28 1			n.a.
S 14	4 9	14 0	2 44	16 3	1 51	5 49	1 20	24 17	0 34	15 29	1 36	22 31	0 52	24 1	0 18	5 50	1 48	30 27	8 41	0 37	0 22	28 2			n.a.
M15	3 46	19 42	3 45	15 47	1 58	5 19	1 19	24 18	0 35	15 31	1 36	22 31	0 52	24 1	0 18	5 50	1 48	30 27	8 41	0 37	0 23	28 3			n.a.
T 16	3 23	24 21	4 33	15 30	2 4	4 49	1 18	24 19	0 36	15 32	1 36	22 31	0 52	24 1	0 18	5 51	1 48	30 27	8 42	0 36	0 25	28 4			n.a.
W17	2 59	27 32	5 4	15 10	2 9	4 18	1 17	24 20	0 38	15 34	1 36	22 31	0 52	24 1	0 18	5 52	1 48	30 27	8 42	0 36	0 26	28 5			n.a.
T 18	2 36	28 57	5 16	14 50	2 14	3 47	1 16	24 21	0 39	15 36	1 36	22 31	0 52	24 1	0 18	5 52	1 48	30 27	8 42	0 36	0 27	28 6			n.a.
F 19	2 12	28 26	5 10	14 27	2 19	3 17	1 15	24 21	0 41	15 38	1 36	22 31	0 52	24 1	0 18	5 53	1 48	30 27	8 42	0 36	0 28	28 6			n.a.
S 20	1 49	26 6	4 44	14 3	2 22	2 46	1 14	24 22	0 42	15 40	1 36	22 31	0 52	24 1	0 18	5 53	1 48	30 27	8 43	0 36	0 30	28 7			n.a.
S 21	1 25	22 13	4 2	13 38	2 25	2 15	1 13	24 22	0 44	15 41	1 36	22 31	0 52	24 1	0 18	5 54	1 48	30 27	8 43	0 36	0 31	28 8			n.a.
M22	1 2	17 8	3 7	13 10	2 28	1 44	1 11	24 22	0 45	15 43	1 35	22 32	0 52	24 1	0 18	5 55	1 48	30 27	8 43	0 37	0 32	28 9			n.a.
T 23	0 39	11 17	2 1	12 42	2 30	1 13	1 10	24 22	0 47	15 45	1 35	22 32	0 52	24 2	0 18	5 55	1 48	30 27	8 43	0 37	0 33	28 10			n.a.
W24	0 15	5 0	0 50	12 11	2 32	0 42	1 9	24 21	0 49	15 46	1 35	22 32	0 52	24 2	0 18	5 56	1 48	30 27	8 44	0 37	0 35	28 11			n.a.
T 25	0n 8	1n22	0n22	11 39	2 33	0 11	1 7	24 20	0 50	15 48	1 35	22 32	0 52	24 2	0 18	5 57	1 48	30 28	8 44	0 37	0 36	28 11			n.a.
F 26	0 32	7 33	1 32	11 6	2 33	0n20	1 6	24 20	0 52	15 49	1 35	22 32	0 52	24 2	0 18	5 57	1 48	30 28	8 44	0 37	0 37	28 12			n.a.
S 27	0 55	13 20	2 36	10 31	2 33	0 51	1 4	24 19	0 53	15 50	1 35	22 32	0 52	24 2	0 18	5 58	1 48	30 28	8 45	0 37	0 39	28 13			n.a.
S 28	1 19	18 28	3 32	9 55	2 33	1 22	1 3	24 17	0 55	15 52	1 35	22 32	0 52	24 2	0 18	5 59	1 48	30 28	8 45	0 37	0 40	28 14			n.a.
M29	1 42	22 46	4 17	9 17	2 31	1 53	1 1	24 16	0 57	15 53	1 34	22 32	0 52	24 2	0 19	5 59	1 48	30 28	8 45	0 37	0 41	28 15			n.a.
T 30	2 5	26 3	4 50	8 37	2 30	2 24	0 59	24 15	0 58	15 54	1 34	22 32	0 52	24 2	0 19	6 0	1 48	30 28	8 45	0 38	0 42	28 15			n.a.
W31	2n29	28n10	5n10	7s56	2s27	2n55	0s58	24s13	1s 0	15n55	1n34	22s32	0n52	24s 2	0s19	6n 0	1n48	30s28	8s46	0s38	0s44	28n16			n.a.

Julian Day Number = 1651719.5, Delta T = 03h30m38s
Ecliptic obliquity = 23°43'15, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°42'11, Lahiri = - 6°35'11 Julian Calendar 1 March 191 BCE == Greg. Calendar 26 Feb. 191 BCE

The year -190 astronomical counting style corresponds to year 191 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 191 BCE
geocentric

APRIL 191 BCE (-190) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 21 39	7♈ 8'20	28♊24	17♓26	10♈44	12♉ 8	21°R38	20♐50	29♐26	19°R 5	22♉23	28°R26	28♓ 8	18♊36	n.a.	T 1
F 2	12 25 35	8° 6'24	10♋19	19° 8	11°58	12°48	21♌35	20°50	29°27	19♍ 4	22°24	28°D25	28° 5	18°43	n.a.	F 2
S 3	12 29 32	9° 4'26	22°21	20°53	13°12	13°28	21°31	20°50	29°27	19° 2	22°24	28♓26	28° 2	18°50	n.a.	S 3
S 4	12 33 28	10° 2'26	4♌35	22°39	14°26	14° 8	21°28	20°R50	29°27	19° 1	22°25	28°26	27°59	18°56	n.a.	S 4
M 5	12 37 25	11° 0'24	17° 5	24°27	15°39	14°47	21°25	20°50	29°27	18°59	22°25	28°28	27°55	19° 3	n.a.	M 5
T 6	12 41 21	11°58'19	29°54	26°16	16°53	15°27	21°22	20°50	29°27	18°58	22°26	28°29	27°52	19°10	n.a.	T 6
W 7	12 45 18	12°56'13	13♍ 4	28° 8	18° 7	16° 7	21°19	20°49	29°R27	18°56	22°26	28°30	27°49	19°17	n.a.	W 7
T 8	12 49 15	13°54'06	26°37	0♈ 1	19°21	16°46	21°17	20°49	29°27	18°55	22°27	28°R30	27°46	19°23	n.a.	T 8
F 9	12 53 11	14°51'56	10♎31	1°57	20°35	17°26	21°14	20°49	29°27	18°53	22°27	28°30	27°43	19°30	n.a.	F 9
S 10	12 57 8	15°49'45	24°44	3°54	21°49	18° 5	21°12	20°48	29°27	18°52	22°28	28°29	27°40	19°37	n.a.	S 10
S 11	13 1 4	16°47'32	9♏11	5°53	23° 2	18°44	21°10	20°47	29°27	18°50	22°28	28°27	27°36	19°43	n.a.	S 11
M12	13 5 1	17°45'18	23°46	7°53	24°16	19°24	21° 8	20°47	29°27	18°49	22°29	28°24	27°33	19°50	n.a.	M12
T 13	13 8 57	18°43'03	8♐23	9°55	25°30	20° 3	21° 7	20°46	29°27	18°48	22°29	28°22	27°30	19°57	n.a.	T 13
W14	13 12 54	19°40'46	22°56	11°59	26°44	20°42	21° 5	20°45	29°26	18°46	22°29	28°20	27°27	20° 4	n.a.	W14
T 15	13 16 50	20°38'28	7♑19	14° 5	27°57	21°21	21° 4	20°44	29°26	18°45	22°30	28°18	27°24	20°10	n.a.	T 15
F 16	13 20 47	21°36'09	21°30	16°11	29°11	22° 0	21° 3	20°43	29°26	18°44	22°30	28°D18	27°20	20°17	n.a.	F 16
S 17	13 24 44	22°33'49	5♒26	18°20	0♑25	22°39	21° 2	20°41	29°25	18°42	22°30	28°18	27°17	20°24	n.a.	S 17
S 18	13 28 40	23°31'28	19° 8	20°29	1°39	23°18	21° 1	20°40	29°25	18°41	22°31	28°19	27°14	20°30	n.a.	S 18
M19	13 32 37	24°29'06	2♓34	22°39	2°52	23°57	21° 1	20°39	29°24	18°40	22°31	28°21	27°11	20°37	n.a.	M19
T 20	13 36 33	25°26'42	15°46	24°49	4° 6	24°36	21° 0	20°37	29°24	18°38	22°31	28°22	27° 8	20°44	n.a.	T 20
W21	13 40 30	26°24'17	28°45	27° 1	5°20	25°14	21° 0	20°36	29°23	18°37	22°31	28°R23	27° 5	20°51	n.a.	W21
T 22	13 44 26	27°21'51	11♈32	29°12	6°33	25°53	21°D 0	20°34	29°22	18°36	22°31	28°22	27° 1	20°57	n.a.	T 22
F 23	13 48 23	28°19'24	24° 6	1♉23	7°47	26°31	21° 0	20°32	29°22	18°35	22°31	28°20	26°58	21° 4	n.a.	F 23
S 24	13 52 19	29°16'56	6♉30	3°34	9° 1	27°10	21° 1	20°30	29°21	18°34	22°32	28°16	26°55	21°11	n.a.	S 24
S 25	13 56 16	0♉14'27	18°44	5°44	10°14	27°48	21° 1	20°28	29°20	18°32	22°32	28°11	26°52	21°18	n.a.	S 25
M26	14 0 13	1°11'56	0♊48	7°54	11°28	28°26	21° 2	20°26	29°19	18°31	22°32	28° 5	26°49	21°24	n.a.	M26
T 27	14 4 9	2° 9'24	12°46	10° 2	12°42	29° 4	21° 3	20°24	29°18	18°30	22°R32	28° 0	26°46	21°31	n.a.	T 27
W28	14 8 6	3° 6'51	24°40	12° 9	13°55	29°42	21° 4	20°22	29°17	18°29	22°32	27°54	26°42	21°38	n.a.	W28
T 29	14 12 2	4° 4'16	6♋32	14°14	15° 9	0♒20	21° 5	20°20	29°16	18°28	22°32	27°50	26°39	21°44	n.a.	T 29
F 30	14 15 59	5♉ 1'40	18♋26	16♉17	16♉22	0♒57	21♌ 7	20♐17	29♐15	18♍27	22♉32	27♓47	26♓36	21♊51	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	2n52	28n59	5n16	7s14	2s25	3n26	0s56	24s11	1s 2	15n56	1n34	22s32	0n52	24s 2	0s19	6n 1	1n48	30s29	8s46	0s38	0s45	28n17		n.a.
F 2	3 15	28 27	5 10	6 30	2 21	3 57	0 54	24 9	1 3	15 57	1 34	22 32	0 52	24 2	0 19	6 2	1 48	30 29	8 46	0 38	0 46	28 18		n.a.
S 3	3 38	26 36	4 49	5 45	2 17	4 28	0 52	24 7	1 5	15 58	1 33	22 32	0 52	24 2	0 19	6 2	1 48	30 29	8 47	0 38	0 48	28 18		n.a.
S 4	4 1	23 28	4 16	4 59	2 13	4 59	0 51	24 4	1 7	15 59	1 33	22 32	0 52	24 2	0 19	6 3	1 48	30 29	8 47	0 38	0 49	28 19		n.a.
M 5	4 24	19 13	3 29	4 11	2 8	5 29	0 49	24 1	1 8	16 0	1 33	22 32	0 52	24 2	0 19	6 3	1 48	30 29	8 47	0 37	0 50	28 20		n.a.
T 6	4 47	14 0	2 32	3 22	2 2	6 0	0 47	23 59	1 10	16 1	1 33	22 32	0 52	24 2	0 19	6 4	1 48	30 29	8 47	0 37	0 51	28 20		n.a.
W 7	5 10	8 1	1 24	2 31	1 56	6 30	0 45	23 56	1 12	16 1	1 33	22 32	0 52	24 2	0 19	6 5	1 48	30 30	8 48	0 36	0 53	28 21		n.a.
T 8	5 33	1 31	0 10	1 40	1 50	7 0	0 43	23 53	1 14	16 2	1 33	22 32	0 52	24 2	0 19	6 5	1 48	30 30	8 48	0 36	0 54	28 22		n.a.
F 9	5 55	5s13	1s 6	0 47	1 43	7 30	0 41	23 49	1 16	16 3	1 32	22 32	0 52	24 2	0 19	6 6	1 48	30 30	8 48	0 36	0 55	28 23		n.a.
S 10	6 18	11 51	2 20	0n 7	1 35	8 0	0 38	23 46	1 17	16 3	1 32	22 32	0 52	24 2	0 19	6 6	1 48	30 30	8 49	0 37	0 56	28 23		n.a.
S 11	6 40	17 58	3 26	1 2	1 27	8 30	0 36	23 42	1 19	16 4	1 32	22 32	0 52	24 2	0 19	6 7	1 48	30 30	8 49	0 38	0 58	28 24		n.a.
M12	7 3	23 7	4 19	1 58	1 19	8 59	0 34	23 38	1 21	16 4	1 32	22 32	0 52	24 2	0 19	6 7	1 48	30 31	8 49	0 38	0 59	28 25		n.a.
T 13	7 25	26 49	4 56	2 55	1 10	9 29	0 32	23 34	1 23	16 4	1 32	22 32	0 52	24 2	0 19	6 8	1 48	30 31	8 49	0 40	1 0	28 25		n.a.
W14	7 47	28 44	5 13	3 52	1 0	9 58	0 30	23 30	1 25	16 5	1 31	22 32	0 52	24 2	0 19	6 8	1 47	30 31	8 50	0 40	1 2	28 26		n.a.
T 15	8 9	28 41	5 11	4 50	0 51	10 27	0 28	23 26	1 27	16 5	1 31	22 32	0 52	24 2	0 19	6 9	1 47	30 31	8 50	0 41	1 3	28 27		n.a.
F 16	8 31	26 44	4 49	5 49	0 41	10 55	0 25	23 21	1 29	16 5	1 31	22 31	0 52	24 2	0 19	6 9	1 47	30 32	8 50	0 41	1 4	28 27		n.a.
S 17	8 53	23 11	4 11	6 48	0 31	11 24	0 23	23 17	1 31	16 5	1 31	22 31	0 52	24 2	0 19	6 10	1 47	30 32	8 51	0 41	1 5	28 28		n.a.
S 18	9 14	18 24	3 19	7 47	0 20	11 52	0 21	23 12	1 33	16 5	1 30	22 31	0 52	24 2	0 19	6 10	1 47	30 32	8 51	0 41	1 7	28 28		n.a.
M19	9 36	12 48	2 17	8 45	0 10	12 19	0 18	23 7	1 35	16 5	1 30	22 31	0 52	24 2	0 19	6 11	1 47	30 32	8 51	0 40	1 8	28 29		n.a.
T 20	9 57	6 44	1 9	9 44	0n 1	12 47	0 16	23 2	1 37	16 5	1 30	22 31	0 52	24 2	0 19	6 11	1 47	30 33	8 52	0 39	1 9	28 30		n.a.
W21	10 18	0 28	0n 2	10 42	0 11	13 14	0 14	22 57	1 39	16 5	1 30	22 31	0 52	24 2	0 19	6 12	1 47	30 33	8 52	0 39	1 11	28 30		n.a.
T 22	10 39	5n42	1 11	11 39	0 22	13 41	0 11	22 52	1 41	16 5	1 30	22 31	0 52	24 2	0 19	6 12	1 47	30 33	8 52	0 39	1 12	28 31		n.a.
F 23	11 0	11 34	2 16	12 36	0 32	14 8	0 9	22 46	1 43	16 4	1 29	22 31	0 52	24 2	0 19	6 13	1 47	30 33	8 52	0 40	1 13	28 31		n.a.
S 24	11 21	16 53	3 13	13 31	0 42	14 34	0 7	22 41	1 45	16 4	1 29	22 31	0 52	24 2	0 19	6 13	1 47	30 34	8 53	0 42	1 14	28 32		n.a.
S 25	11 41	21 27	4 1	14 25	0 52	15 0	0 4	22 35	1 47	16 4	1 29	22 30	0 52	24 2	0 19	6 13	1 47	30 34	8 53	0 44	1 16	28 32		n.a.
M26	12 2	25 4	4 36	15 17	1 2	15 25	0 2	22 29	1 49	16 3	1 29	22 30	0 52	24 2	0 19	6 14	1 47	30 34	8 53	0 46	1 17	28 33		n.a.
T 27	12 22	27 33	5 0	16 7	1 11	15 50	0n 1	22 24	1 51	16 3	1 28	22 30	0 52	24 2	0 19	6 14	1 47	30 34	8 54	0 48	1 18	28 34		n.a.
W28	12 42	28 47	5 10	16 55	1 19	16 15	0 3	22 18	1 53	16 2	1 28	22 30	0 52	24 2	0 19	6 15	1 47	30 35	8 54	0 51	1 19	28 34		n.a.
T 29	13 1	28 40	5 7	17 41	1 28	16 40	0 6	22 11	1 55	16 1	1 28	22 30	0 52	24 2	0 19	6 15	1 47	30 35	8 54	0 52	1 21	28 35		n.a.
F 30	13n21	27n14	4n51	18n25	1n35	17n 3	0n 8	22s 5	1s57	16n 1	1n28	22s30	0n52	24s 2	0s19	6n15	1n47	30s35	8s54	0s54	1s22	28n35		n.a.

Julian Day Number = 1651750.5, Delta T = 03h30m37s
Ecliptic obliquity = 23°43'15, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°42'07, Lahiri = - 6°35'06 Julian Calendar 1 Apr. 191 BCE == Greg. Calendar 29 March 191 BCE

The year -190 astronomical counting style corresponds to year 191 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 191 BCE
geocentric

MAY 191 BCE (-190) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 19 55	5♉59'03	0♌26	18♉19	17♉36	1♒35	21♌ 8	20°R15	29°R14	18°R26	22°R31	27°R45	26♓33	21♊58	n.a.	S 1
S 2	14 23 52	6°56'25	12°38	20°18	18°49	2°12	21°10	20♐12	29♐13	18♍25	22♑31	27°D45	26°30	22° 5	n.a.	S 2
M 3	14 27 48	7°53'45	25° 5	22°15	20° 3	2°49	21°12	20°10	29°12	18°24	22°31	27♓46	26°26	22°11	n.a.	M 3
T 4	14 31 45	8°51'04	7♍52	24° 9	21°16	3°27	21°14	20° 7	29°11	18°23	22°31	27°48	26°23	22°18	n.a.	T 4
W 5	14 35 42	9°48'22	21° 4	26° 2	22°30	4° 4	21°17	20° 4	29° 9	18°22	22°31	27°R49	26°20	22°25	n.a.	W 5
T 6	14 39 38	10°45'38	4♎42	27°51	23°43	4°40	21°19	20° 1	29° 8	18°22	22°31	27°49	26°17	22°32	n.a.	T 6
F 7	14 43 35	11°42'54	18°46	29°38	24°57	5°17	21°22	19°59	29° 7	18°21	22°30	27°47	26°14	22°38	n.a.	F 7
S 8	14 47 31	12°40'09	3♏15	1♊23	26°10	5°54	21°25	19°56	29° 5	18°20	22°30	27°43	26°11	22°45	n.a.	S 8
S 9	14 51 28	13°37'23	18° 3	3° 5	27°24	6°30	21°28	19°52	29° 4	18°19	22°30	27°38	26° 7	22°52	n.a.	S 9
M10	14 55 24	14°34'36	3♐ 3	4°44	28°37	7° 7	21°31	19°49	29° 2	18°18	22°30	27°31	26° 4	22°58	n.a.	M10
T 11	14 59 21	15°31'49	18° 5	6°21	29°51	7°43	21°34	19°46	29° 1	18°18	22°29	27°24	26° 1	23° 5	n.a.	T 11
W12	15 3 17	16°29'01	3♑ 0	7°54	1♊ 4	8°19	21°38	19°43	28°59	18°17	22°29	27°18	25°58	23°12	n.a.	W12
T 13	15 7 14	17°26'13	17°40	9°26	2°18	8°54	21°41	19°40	28°58	18°16	22°28	27°13	25°55	23°19	n.a.	T 13
F 14	15 11 11	18°23'24	2♒ 0	10°54	3°31	9°30	21°45	19°36	28°56	18°16	22°28	27°10	25°51	23°25	n.a.	F 14
S 15	15 15 7	19°20'35	15°58	12°20	4°44	10° 6	21°49	19°33	28°54	18°15	22°28	27°D 9	25°48	23°32	n.a.	S 15
S 16	15 19 4	20°17'46	29°33	13°43	5°58	10°41	21°53	19°29	28°53	18°14	22°27	27° 9	25°45	23°39	n.a.	S 16
M17	15 23 0	21°14'56	12♓48	15° 3	7°11	11°16	21°58	19°26	28°51	18°14	22°27	27°10	25°42	23°45	n.a.	M17
T 18	15 26 57	22°12'06	25°45	16°20	8°24	11°51	22° 2	19°22	28°49	18°13	22°26	27°R10	25°39	23°52	n.a.	T 18
W19	15 30 53	23° 9'16	8♈27	17°34	9°38	12°26	22° 7	19°18	28°48	18°13	22°26	27°10	25°36	23°59	n.a.	W19
T 20	15 34 50	24° 6'26	20°56	18°46	10°51	13° 0	22°11	19°15	28°46	18°12	22°25	27° 7	25°32	24° 6	n.a.	T 20
F 21	15 38 47	25° 3'36	3♉15	19°54	12° 4	13°34	22°16	19°11	28°44	18°12	22°25	27° 2	25°29	24°12	n.a.	F 21
S 22	15 42 43	26° 0'45	15°25	20°59	13°18	14° 8	22°21	19° 7	28°42	18°12	22°24	26°54	25°26	24°19	n.a.	S 22
S 23	15 46 40	26°57'54	27°29	22° 1	14°31	14°42	22°27	19° 3	28°40	18°11	22°23	26°45	25°23	24°26	n.a.	S 23
M24	15 50 36	27°55'03	9♊27	23° 0	15°44	15°16	22°32	18°59	28°38	18°11	22°23	26°34	25°20	24°33	n.a.	M24
T 25	15 54 33	28°52'11	21°21	23°55	16°58	15°49	22°38	18°55	28°36	18°11	22°22	26°22	25°17	24°39	n.a.	T 25
W26	15 58 29	29°49'19	3♋13	24°47	18°11	16°22	22°43	18°51	28°34	18°10	22°21	26°11	25°13	24°46	n.a.	W26
T 27	16 2 26	0♊46'27	15° 4	25°36	19°24	16°55	22°49	18°47	28°32	18°10	22°21	26° 2	25°10	24°53	n.a.	T 27
F 28	16 6 22	1°43'35	26°58	26°21	20°37	17°28	22°55	18°43	28°30	18°10	22°20	25°54	25° 7	24°59	n.a.	F 28
S 29	16 10 19	2°40'42	8♌58	27° 2	21°51	18° 0	23° 1	18°39	28°28	18°10	22°19	25°49	25° 4	25° 6	n.a.	S 29
S 30	16 14 16	3°37'48	21° 7	27°39	23° 4	18°32	23° 8	18°35	28°26	18°10	22°18	25°47	25° 1	25°13	n.a.	S 30
M31	16 18 12	4♊34'55	3♍31	28♊12	24♊17	19♒ 4	23♌14	18♐31	28♐24	18♍ 9	22♑18	25°D46	24♓57	25♊20	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13n40	24n33	4n22	19n 7	1n42	17n27	0n11	21s59	1s59	16n 0	1n28	22s30	0n52	24s 2	0s19	6n16	1n47	30s36	8s55	0s54	1s23	28n36		n.a.
S 2	13 59	20 44	3 40	19 46	1 48	17 50	0 13	21 52	2 2	15 59	1 27	22 29	0 52	24 2	0 19	6 16	1 47	30 36	8 55	0 54	1 25	28 36		n.a.
M 3	14 18	15 57	2 48	20 23	1 54	18 13	0 15	21 46	2 4	15 58	1 27	22 29	0 52	24 2	0 19	6 16	1 47	30 36	8 55	0 54	1 26	28 37		n.a.
T 4	14 37	10 21	1 46	20 57	1 59	18 35	0 18	21 39	2 6	15 57	1 27	22 29	0 52	24 2	0 19	6 17	1 47	30 37	8 56	0 53	1 27	28 37		n.a.
W 5	14 55	4 8	0 37	21 29	2 3	18 56	0 20	21 33	2 8	15 56	1 27	22 29	0 52	24 2	0 19	6 17	1 47	30 37	8 56	0 53	1 28	28 38		n.a.
T 6	15 14	2s27	0s37	21 58	2 6	19 17	0 23	21 26	2 11	15 55	1 26	22 29	0 52	24 2	0 19	6 17	1 47	30 37	8 56	0 53	1 30	28 38		n.a.
F 7	15 32	9 9	1 51	22 25	2 9	19 38	0 25	21 19	2 13	15 54	1 26	22 29	0 52	24 2	0 19	6 18	1 47	30 38	8 57	0 54	1 31	28 38		n.a.
S 8	15 49	15 33	2 59	22 49	2 11	19 58	0 27	21 12	2 15	15 53	1 26	22 28	0 52	24 3	0 19	6 18	1 47	30 38	8 57	0 55	1 32	28 39		n.a.
S 9	16 7	21 12	3 57	23 11	2 12	20 18	0 30	21 5	2 17	15 52	1 26	22 28	0 52	24 3	0 19	6 18	1 47	30 38	8 57	0 57	1 34	28 39		n.a.
M10	16 24	25 35	4 40	23 31	2 13	20 37	0 32	20 58	2 20	15 51	1 26	22 28	0 52	24 3	0 19	6 18	1 47	30 39	8 57	1 0	1 35	28 40		n.a.
T 11	16 41	28 13	5 3	23 48	2 13	20 55	0 35	20 50	2 22	15 49	1 25	22 28	0 52	24 3	0 20	6 19	1 47	30 39	8 58	1 3	1 36	28 40		n.a.
W12	16 58	28 47	5 6	24 3	2 12	21 13	0 37	20 43	2 24	15 48	1 25	22 27	0 52	24 3	0 20	6 19	1 46	30 39	8 58	1 5	1 37	28 41		n.a.
T 13	17 14	27 18	4 48	24 16	2 10	21 30	0 39	20 36	2 27	15 47	1 25	22 27	0 52	24 3	0 20	6 19	1 46	30 40	8 58	1 7	1 39	28 41		n.a.
F 14	17 30	24 3	4 12	24 27	2 8	21 47	0 41	20 28	2 29	15 45	1 25	22 27	0 52	24 3	0 20	6 19	1 46	30 40	8 59	1 8	1 40	28 41		n.a.
S 15	17 46	19 27	3 23	24 36	2 4	22 3	0 44	20 21	2 31	15 44	1 24	22 27	0 52	24 3	0 20	6 20	1 46	30 40	8 59	1 9	1 41	28 42		n.a.
S 16	18 2	13 59	2 23	24 42	2 1	22 19	0 46	20 14	2 34	15 42	1 24	22 27	0 52	24 3	0 20	6 20	1 46	30 41	8 59	1 9	1 42	28 42		n.a.
M17	18 17	8 0	1 16	24 47	1 56	22 33	0 48	20 6	2 36	15 41	1 24	22 26	0 52	24 3	0 20	6 20	1 46	30 41	8 59	1 8	1 44	28 42		n.a.
T 18	18 32	1 49	0 8	24 51	1 51	22 48	0 50	19 58	2 39	15 39	1 24	22 26	0 51	24 3	0 20	6 20	1 46	30 41	9 0	1 8	1 45	28 43		n.a.
W19	18 47	4n18	1n 0	24 52	1 45	23 1	0 53	19 51	2 41	15 37	1 24	22 26	0 51	24 3	0 20	6 20	1 46	30 42	9 0	1 8	1 46	28 43		n.a.
T 20	19 1	10 10	2 4	24 52	1 38	23 14	0 55	19 43	2 44	15 35	1 23	22 26	0 51	24 3	0 20	6 20	1 46	30 42	9 0	1 10	1 48	28 44		n.a.
F 21	19 15	15 33	3 0	24 50	1 31	23 27	0 57	19 36	2 46	15 34	1 23	22 25	0 51	24 3	0 20	6 21	1 46	30 42	9 0	1 12	1 49	28 44		n.a.
S 22	19 29	20 17	3 48	24 47	1 23	23 38	0 59	19 28	2 49	15 32	1 23	22 25	0 51	24 3	0 20	6 21	1 46	30 43	9 1	1 15	1 50	28 44		n.a.
S 23	19 43	24 7	4 25	24 43	1 14	23 49	1 1	19 20	2 51	15 30	1 23	22 25	0 51	24 3	0 20	6 21	1 46	30 43	9 1	1 19	1 51	28 45		n.a.
M24	19 56	26 54	4 50	24 37	1 5	23 59	1 3	19 12	2 54	15 28	1 23	22 24	0 51	24 3	0 20	6 21	1 46	30 44	9 1	1 23	1 53	28 45		n.a.
T 25	20 9	28 27	5 2	24 30	0 55	24 9	1 5	19 5	2 56	15 26	1 22	22 24	0 51	24 3	0 20	6 21	1 46	30 44	9 1	1 28	1 54	28 45		n.a.
W26	20 21	28 41	5 0	24 21	0 44	24 18	1 7	18 57	2 59	15 24	1 22	22 24	0 51	24 3	0 20	6 21	1 46	30 44	9 2	1 32	1 55	28 45		n.a.
T 27	20 33	27 36	4 46	24 12	0 33	24 26	1 9	18 49	3 1	15 22	1 22	22 24	0 51	24 3	0 20	6 21	1 46	30 45	9 2	1 36	1 56	28 46		n.a.
F 28	20 45	25 15	4 20	24 2	0 21	24 33	1 10	18 42	3 4	15 19	1 22	22 23	0 51	24 3	0 20	6 21	1 46	30 45	9 2	1 39	1 58	28 46		n.a.
S 29	20 56	21 47	3 42	23 50	0 9	24 40	1 12	18 34	3 7	15 17	1 22	22 23	0 51	24 3	0 20	6 21	1 46	30 45	9 2	1 41	1 59	28 46		n.a.
S 30	21 8	17 21	2 53	23 38	0s 4	24 46	1 14	18 26	3 9	15 15	1 21	22 23	0 51	24 3	0 20	6 21	1 46	30 46	9 3	1 42	2 0	28 46		n.a.
M31	21n18	12n 7	1n55	23n25	0s17	24n51	1n16	18s19	3s12	15n13	1n21	22s22	0n51	24s 3	0s20	6n21	1n46	30s46	9s 3	1s42	2s 2	28n47		n.a.

Julian Day Number = 1651780.5, Delta T = 03h30m36s
Ecliptic obliquity = 23°43'15, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°42'03, Lahiri = - 6°35'02 Julian Calendar 1 May 191 BCE == Greg. Calendar 28 Apr. 191 BCE

The year -190 astronomical counting style corresponds to year 191 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 191 BCE
geocentric

JUNE 191 BCE (-190) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 22 9	5♊32'01	16♍15	28♊41	25♊30	19♒35	23♌20	18°R26	28°R22	18°R 9	22°R17	25♓46	24♓54	25♊26	n.a.	T 1
W 2	16 26 5	6°29'06	29°22	29° 5	26°44	20° 7	23°27	18♐22	28♐20	18♍ 9	22♑16	25°R46	24°51	25°33	n.a.	W 2
T 3	16 30 2	7°26'12	12♎57	29°26	27°57	20°38	23°34	18°18	28°17	18°D 9	22°15	25°45	24°48	25°40	n.a.	T 3
F 4	16 33 58	8°23'17	27° 0	29°41	29°10	21° 8	23°41	18°14	28°15	18° 9	22°14	25°42	24°45	25°47	n.a.	F 4
S 5	16 37 55	9°20'22	11♏33	29°52	0♋23	21°38	23°48	18° 9	28°13	18° 9	22°13	25°36	24°42	25°53	n.a.	S 5
S 6	16 41 51	10°17'28	26°29	29°59	1°36	22° 8	23°55	18° 5	28°11	18° 9	22°12	25°29	24°38	26° 0	n.a.	S 6
M 7	16 45 48	11°14'33	11♐41	0°R 1	2°49	22°38	24° 2	18° 1	28° 8	18°10	22°11	25°19	24°35	26° 7	n.a.	M 7
T 8	16 49 45	12°11'39	26°59	29°58	4° 2	23° 8	24°10	17°56	28° 6	18°10	22°11	25° 9	24°32	26°13	n.a.	T 8
W 9	16 53 41	13° 8'45	12♑11	29°50	5°15	23°37	24°17	17°52	28° 4	18°10	22°10	24°59	24°29	26°20	n.a.	W 9
T 10	16 57 38	14° 5'51	27° 8	29°38	6°28	24° 5	24°25	17°47	28° 2	18°10	22° 9	24°51	24°26	26°27	n.a.	T 10
F 11	17 1 34	15° 2'58	11♒41	29°21	7°41	24°34	24°33	17°43	27°59	18°10	22° 8	24°45	24°23	26°34	n.a.	F 11
S 12	17 5 31	16° 0'06	25°47	29° 0	8°54	25° 2	24°41	17°39	27°57	18°11	22° 7	24°42	24°19	26°40	n.a.	S 12
S 13	17 9 27	16°57'14	9♓26	28°35	10° 7	25°29	24°49	17°34	27°55	18°11	22° 6	24°41	24°16	26°47	n.a.	S 13
M14	17 13 24	17°54'23	22°39	28° 7	11°20	25°56	24°57	17°30	27°52	18°11	22° 5	24°41	24°13	26°54	n.a.	M14
T 15	17 17 21	18°51'32	5♈30	27°34	12°33	26°23	25° 5	17°25	27°50	18°12	22° 3	24°41	24°10	27° 1	n.a.	T 15
W16	17 21 17	19°48'42	18° 3	26°59	13°46	26°49	25°14	17°21	27°47	18°12	22° 2	24°39	24° 7	27° 7	n.a.	W16
T 17	17 25 14	20°45'53	0♉22	26°22	14°59	27°15	25°22	17°16	27°45	18°12	22° 1	24°36	24° 3	27°14	n.a.	T 17
F 18	17 29 10	21°43'05	12°31	25°42	16°12	27°41	25°31	17°12	27°43	18°13	22° 0	24°29	24° 0	27°21	n.a.	F 18
S 19	17 33 7	22°40'18	24°32	25° 2	17°25	28° 6	25°40	17° 8	27°40	18°13	21°59	24°20	23°57	27°27	n.a.	S 19
S 20	17 37 3	23°37'31	6♊29	24°21	18°38	28°30	25°48	17° 3	27°38	18°14	21°58	24° 8	23°54	27°34	n.a.	S 20
M21	17 41 0	24°34'45	18°22	23°40	19°51	28°54	25°57	16°59	27°35	18°14	21°57	23°55	23°51	27°41	n.a.	M21
T 22	17 44 56	25°32'00	0♋14	23° 0	21° 4	29°18	26° 6	16°55	27°33	18°15	21°56	23°40	23°48	27°48	n.a.	T 22
W23	17 48 53	26°29'15	12° 6	22°22	22°17	29°41	26°15	16°50	27°31	18°16	21°54	23°27	23°44	27°54	n.a.	W23
T 24	17 52 50	27°26'31	23°59	21°46	23°30	0♓ 4	26°25	16°46	27°28	18°16	21°53	23°15	23°41	28° 1	n.a.	T 24
F 25	17 56 46	28°23'48	5♌56	21°14	24°42	0°26	26°34	16°42	27°26	18°17	21°52	23° 6	23°38	28° 8	n.a.	F 25
S 26	18 0 43	29°21'05	17°59	20°44	25°55	0°47	26°44	16°37	27°23	18°18	21°51	22°59	23°35	28°15	n.a.	S 26
S 27	18 4 39	0♋18'23	0♍11	20°20	27° 8	1° 8	26°53	16°33	27°21	18°18	21°50	22°55	23°32	28°21	n.a.	S 27
M28	18 8 36	1°15'42	12°35	19°59	28°21	1°29	27° 3	16°29	27°19	18°19	21°48	22°54	23°29	28°28	n.a.	M28
T 29	18 12 32	2°13'01	25°17	19°44	29°33	1°49	27°12	16°25	27°16	18°20	21°47	22°53	23°25	28°35	n.a.	T 29
W30	18 16 29	3♋10'21	8♎20	19♊35	0♌46	2♓ 8	27♌22	16♐21	27♐14	18♍21	21♑46	22♓53	23♓22	28♊41	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n29	6n16	0n50	23n12	0s31	24n56	1n17	18s11	3s14	15n10	1n21	22s22	0n51	24s 3	0s20	6n21	1n45	30s47	9s 3	1s42	2s 3	28n47		n.a.
W 2	21 39	0s 2	0s19	22 58	0 45	25 0	1 19	18 4	3 17	15 8	1 21	22 22	0 51	24 3	0 20	6 21	1 45	30 47	9 3	1 42	2 4	28 47		n.a.
T 3	21 48	6 33	1 30	22 44	1 0	25 3	1 20	17 56	3 20	15 5	1 21	22 21	0 51	24 2	0 20	6 21	1 45	30 47	9 4	1 42	2 5	28 47		n.a.
F 4	21 58	12 58	2 37	22 29	1 15	25 5	1 22	17 49	3 22	15 3	1 20	22 21	0 51	24 2	0 20	6 21	1 45	30 48	9 4	1 44	2 7	28 48		n.a.
S 5	22 7	18 54	3 37	22 14	1 30	25 6	1 23	17 41	3 25	15 0	1 20	22 21	0 50	24 2	0 20	6 21	1 45	30 48	9 4	1 46	2 8	28 48		n.a.
S 6	22 15	23 52	4 24	21 58	1 45	25 7	1 25	17 34	3 28	14 58	1 20	22 21	0 50	24 2	0 20	6 21	1 45	30 48	9 4	1 49	2 9	28 48		n.a.
M 7	22 23	27 17	4 53	21 43	2 0	25 7	1 26	17 27	3 31	14 55	1 20	22 20	0 50	24 2	0 20	6 21	1 45	30 49	9 5	1 53	2 10	28 48		n.a.
T 8	22 31	28 42	5 1	21 27	2 16	25 7	1 27	17 19	3 33	14 52	1 20	22 20	0 50	24 2	0 20	6 21	1 45	30 49	9 5	1 57	2 12	28 48		n.a.
W 9	22 39	27 56	4 48	21 12	2 31	25 5	1 28	17 12	3 36	14 50	1 19	22 20	0 50	24 2	0 20	6 20	1 45	30 50	9 5	2 1	2 13	28 49		n.a.
T 10	22 46	25 9	4 15	20 57	2 46	25 3	1 29	17 5	3 39	14 47	1 19	22 19	0 50	24 2	0 20	6 20	1 45	30 50	9 5	2 4	2 14	28 49		n.a.
F 11	22 52	20 47	3 26	20 42	3 1	25 0	1 31	16 58	3 42	14 44	1 19	22 19	0 50	24 2	0 20	6 20	1 45	30 50	9 5	2 6	2 16	28 49		n.a.
S 12	22 59	15 22	2 26	20 28	3 15	24 56	1 32	16 51	3 45	14 41	1 19	22 19	0 50	24 2	0 20	6 20	1 45	30 51	9 6	2 8	2 17	28 49		n.a.
S 13	23 4	9 21	1 20	20 14	3 29	24 52	1 32	16 44	3 47	14 38	1 19	22 18	0 50	24 2	0 20	6 20	1 45	30 51	9 6	2 8	2 18	28 49		n.a.
M14	23 10	3 7	0 11	20 0	3 42	24 47	1 33	16 37	3 50	14 35	1 19	22 18	0 50	24 2	0 20	6 20	1 45	30 51	9 6	2 8	2 19	28 49		n.a.
T 15	23 15	3n 5	0n57	19 48	3 54	24 41	1 34	16 31	3 53	14 32	1 18	22 18	0 50	24 2	0 20	6 20	1 45	30 52	9 6	2 8	2 21	28 49		n.a.
W16	23 19	9 1	2 0	19 36	4 5	24 34	1 35	16 24	3 56	14 29	1 18	22 17	0 50	24 2	0 20	6 19	1 45	30 52	9 6	2 9	2 22	28 50		n.a.
T 17	23 24	14 29	2 56	19 26	4 15	24 27	1 36	16 18	3 59	14 26	1 18	22 17	0 50	24 2	0 20	6 19	1 45	30 53	9 7	2 10	2 23	28 50		n.a.
F 18	23 28	19 19	3 44	19 16	4 23	24 19	1 36	16 11	4 2	14 23	1 18	22 17	0 49	24 2	0 20	6 19	1 45	30 53	9 7	2 13	2 24	28 50		n.a.
S 19	23 31	23 20	4 20	19 8	4 30	24 10	1 37	16 5	4 4	14 20	1 18	22 16	0 49	24 2	0 20	6 19	1 45	30 53	9 7	2 17	2 26	28 50		n.a.
S 20	23 34	26 20	4 45	19 1	4 35	24 1	1 37	15 59	4 7	14 17	1 18	22 16	0 49	24 2	0 20	6 18	1 44	30 54	9 7	2 21	2 27	28 50		n.a.
M21	23 36	28 9	4 58	18 55	4 39	23 50	1 38	15 53	4 10	14 14	1 17	22 16	0 49	24 2	0 20	6 18	1 44	30 54	9 7	2 27	2 28	28 50		n.a.
T 22	23 39	28 41	4 57	18 51	4 41	23 40	1 38	15 48	4 13	14 10	1 17	22 15	0 49	24 2	0 20	6 18	1 44	30 54	9 8	2 32	2 30	28 50		n.a.
W23	23 40	27 52	4 44	18 49	4 41	23 28	1 38	15 42	4 16	14 7	1 17	22 15	0 49	24 2	0 20	6 18	1 44	30 55	9 8	2 38	2 31	28 50		n.a.
T 24	23 42	25 48	4 18	18 48	4 40	23 16	1 38	15 37	4 19	14 4	1 17	22 15	0 49	24 2	0 20	6 17	1 44	30 55	9 8	2 43	2 32	28 50		n.a.
F 25	23 43	22 34	3 41	18 49	4 37	23 3	1 38	15 31	4 22	14 0	1 17	22 14	0 49	24 2	0 20	6 17	1 44	30 56	9 8	2 46	2 33	28 50		n.a.
S 26	23 43	18 22	2 53	18 51	4 33	22 49	1 38	15 26	4 25	13 57	1 17	22 14	0 49	24 2	0 20	6 17	1 44	30 56	9 8	2 49	2 35	28 50		n.a.
S 27	23 43	13 22	1 57	18 56	4 27	22 35	1 38	15 21	4 28	13 54	1 17	22 14	0 49	24 2	0 20	6 16	1 44	30 56	9 8	2 51	2 36	28 50		n.a.
M28	23 43	7 45	0 54	19 2	4 19	22 20	1 38	15 17	4 31	13 50	1 16	22 13	0 48	24 2	0 20	6 16	1 44	30 57	9 9	2 51	2 37	28 50		n.a.
T 29	23 42	1 42	0s13	19 9	4 10	22 5	1 38	15 12	4 34	13 47	1 16	22 13	0 48	24 2	0 20	6 15	1 44	30 57	9 9	2 51	2 38	28 50		n.a.
W30	23n41	4s35	1s21	19n19	4s 0	21n49	1n38	15s 8	4s37	13n43	1n16	22s13	0n48	24s 2	0s20	6n15	1n44	30s57	9s 9	2s51	2s40	28n50		n.a.

Julian Day Number = 1651811.5, Delta T = 03h30m35s
Ecliptic obliquity = 23°43'15, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'58, Lahiri = - 6°34'58 Julian Calendar 1 June 191 BCE == Greg. Calendar 29 May 191 BCE

The year -190 astronomical counting style corresponds to year 191 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 191 BCE
geocentric

JULY 191 BCE (-190) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 20 25	4♋ 7'41	21♎48	19°D31	1♌59	2♓27	27♌32	16°R17	27°R11	18♍22	21°R45	22°R52	23♓19	28♊48	n.a.	T 1
F 2	18 24 22	5° 5'02	5♏44	19♊34	3°12	2°45	27°42	16♐13	27♐ 9	18°23	21♑43	22♓50	23°16	28°55	n.a.	F 2
S 3	18 28 19	6° 2'24	20° 8	19°43	4°24	3° 2	27°52	16° 8	27° 7	18°24	21°42	22°44	23°13	29° 2	n.a.	S 3
S 4	18 32 15	6°59'47	4♐58	19°58	5°37	3°19	28° 3	16° 4	27° 4	18°25	21°41	22°37	23° 9	29° 8	n.a.	S 4
M 5	18 36 12	7°57'11	20° 7	20°19	6°49	3°36	28°13	16° 1	27° 2	18°26	21°40	22°27	23° 6	29°15	n.a.	M 5
T 6	18 40 8	8°54'36	5♑26	20°48	8° 2	3°51	28°23	15°57	27° 0	18°27	21°38	22°17	23° 3	29°22	n.a.	T 6
W 7	18 44 5	9°52'02	20°43	21°22	9°14	4° 6	28°34	15°53	26°57	18°28	21°37	22° 7	23° 0	29°28	n.a.	W 7
T 8	18 48 1	10°49'29	5♒47	22° 3	10°27	4°20	28°44	15°49	26°55	18°29	21°36	21°59	22°57	29°35	n.a.	T 8
F 9	18 51 58	11°46'58	20°29	22°51	11°39	4°34	28°55	15°45	26°53	18°30	21°34	21°54	22°54	29°42	n.a.	F 9
S 10	18 55 55	12°44'27	4♓44	23°45	12°52	4°47	29° 5	15°42	26°50	18°31	21°33	21°50	22°50	29°49	n.a.	S 10
S 11	18 59 51	13°41'59	18°31	24°45	14° 4	4°59	29°16	15°38	26°48	18°32	21°32	21°D49	22°47	29°55	n.a.	S 11
M12	19 3 48	14°39'31	1♈49	25°51	15°17	5°11	29°27	15°34	26°46	18°33	21°30	21°50	22°44	0♋ 2	n.a.	M12
T 13	19 7 44	15°37'06	14°42	27° 2	16°29	5°21	29°38	15°31	26°44	18°34	21°29	21°R50	22°41	0° 9	n.a.	T 13
W14	19 11 41	16°34'42	27°14	28°20	17°41	5°31	29°49	15°27	26°41	18°36	21°28	21°49	22°38	0°16	n.a.	W14
T 15	19 15 37	17°32'19	9♉30	29°43	18°54	5°40	29°59	15°24	26°39	18°37	21°27	21°47	22°35	0°22	n.a.	T 15
F 16	19 19 34	18°29'59	21°35	1♋10	20° 6	5°49	0♍11	15°21	26°37	18°38	21°25	21°42	22°31	0°29	n.a.	F 16
S 17	19 23 30	19°27'40	3♊32	2°43	21°18	5°56	0°22	15°17	26°35	18°40	21°24	21°35	22°28	0°36	n.a.	S 17
S 18	19 27 27	20°25'22	15°25	4°20	22°30	6° 3	0°34	15°14	26°33	18°41	21°23	21°26	22°25	0°42	n.a.	S 18
M19	19 31 24	21°23'06	27°16	6° 1	23°43	6° 9	0°45	15°11	26°31	18°42	21°21	21°15	22°22	0°49	n.a.	M19
T 20	19 35 20	22°20'52	9♋ 9	7°45	24°55	6°14	0°56	15° 8	26°28	18°44	21°20	21° 4	22°19	0°56	n.a.	T 20
W21	19 39 17	23°18'40	21° 4	9°33	26° 7	6°18	1° 8	15° 5	26°26	18°45	21°19	20°53	22°15	1° 3	n.a.	W21
T 22	19 43 13	24°16'29	3♌ 3	11°24	27°19	6°22	1°19	15° 2	26°24	18°47	21°17	20°43	22°12	1° 9	n.a.	T 22
F 23	19 47 10	25°14'19	15° 7	13°17	28°31	6°24	1°31	14°59	26°22	18°48	21°16	20°36	22° 9	1°16	n.a.	F 23
S 24	19 51 6	26°12'11	27°19	15°11	29°43	6°26	1°43	14°56	26°20	18°50	21°15	20°31	22° 6	1°23	n.a.	S 24
S 25	19 55 3	27°10'04	9♍40	17° 8	0♍55	6°27	1°54	14°54	26°18	18°51	21°13	20°28	22° 3	1°30	n.a.	S 25
M26	19 58 59	28° 7'59	22°12	19° 5	2° 7	6°R27	2° 6	14°51	26°16	18°53	21°12	20°D28	22° 0	1°36	n.a.	M26
T 27	20 2 56	29° 5'55	4♎59	21° 4	3°19	6°26	2°18	14°49	26°15	18°54	21°11	20°28	21°56	1°43	n.a.	T 27
W28	20 6 53	0♌ 3'53	18° 4	23° 2	4°31	6°25	2°30	14°46	26°13	18°56	21° 9	20°29	21°53	1°50	n.a.	W28
T 29	20 10 49	1° 1'52	1♏29	25° 2	5°43	6°22	2°42	14°44	26°11	18°57	21° 8	20°R30	21°50	1°56	n.a.	T 29
F 30	20 14 46	1°59'52	15°17	27° 1	6°55	6°19	2°54	14°41	26° 9	18°59	21° 7	20°29	21°47	2° 3	n.a.	F 30
S 31	20 18 42	2♌57'54	29♏29	28♋59	8♍ 7	6♓14	3♍ 6	14♐39	26♐ 7	19♍ 1	21♑ 5	20♓26	21♓44	2♋10	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23n39	10s51	2s27	19n29	3s49	21n32	1n37	15s 4	4s40	13n39	1n16	22s12	0n48	24s 2	0s20	6n15	1n44	30s58	9s 9	2s52	2s41	28n50			n.a.
F 2	23 37	16 49	3 26	19 42	3 37	21 15	1 37	15 0	4 42	13 36	1 16	22 12	0 48	24 2	0 20	6 14	1 44	30 58	9 9	2 53	2 42	28 50			n.a.
S 3	23 35	22 4	4 14	19 55	3 24	20 57	1 36	14 56	4 45	13 32	1 16	22 12	0 48	24 2	0 20	6 14	1 44	30 58	9 9	2 55	2 44	28 50			n.a.
S 4	23 32	26 5	4 47	20 10	3 11	20 38	1 36	14 52	4 48	13 28	1 16	22 12	0 48	24 1	0 20	6 13	1 44	30 59	9 9	2 58	2 45	28 50			n.a.
M 5	23 29	28 21	5 1	20 26	2 57	20 19	1 35	14 49	4 51	13 25	1 15	22 11	0 48	24 1	0 20	6 13	1 44	30 59	9 9	3 2	2 46	28 50			n.a.
T 6	23 25	28 30	4 53	20 42	2 42	19 59	1 34	14 46	4 54	13 21	1 15	22 11	0 47	24 1	0 20	6 13	1 44	30 59	9 10	3 6	2 47	28 50			n.a.
W 7	23 21	26 28	4 25	21 0	2 27	19 39	1 34	14 43	4 57	13 17	1 15	22 11	0 47	24 1	0 20	6 12	1 44	31 0	9 10	3 10	2 49	28 50			n.a.
T 8	23 16	22 34	3 38	21 17	2 12	19 19	1 33	14 40	5 0	13 13	1 15	22 10	0 47	24 1	0 20	6 12	1 44	31 0	9 10	3 13	2 50	28 50			n.a.
F 9	23 11	17 19	2 38	21 35	1 56	18 57	1 32	14 38	5 3	13 9	1 15	22 10	0 47	24 1	0 20	6 11	1 44	31 0	9 10	3 15	2 51	28 50			n.a.
S 10	23 6	11 16	1 29	21 54	1 41	18 36	1 31	14 36	5 6	13 6	1 15	22 10	0 47	24 1	0 20	6 11	1 44	31 1	9 10	3 16	2 52	28 50			n.a.
S 11	23 0	4 52	0 18	22 12	1 25	18 13	1 29	14 34	5 8	13 2	1 15	22 10	0 47	24 1	0 20	6 10	1 43	31 1	9 10	3 17	2 54	28 50			n.a.
M12	22 54	1n32	0n53	22 29	1 10	17 51	1 28	14 32	5 11	12 58	1 15	22 9	0 47	24 1	0 20	6 10	1 43	31 1	9 10	3 17	2 55	28 49			n.a.
T 13	22 48	7 41	1 59	22 46	0 55	17 28	1 27	14 31	5 14	12 54	1 15	22 9	0 47	24 1	0 20	6 9	1 43	31 2	9 10	3 17	2 56	28 49			n.a.
W14	22 41	13 21	2 57	23 2	0 40	17 4	1 26	14 29	5 17	12 50	1 14	22 9	0 47	24 1	0 20	6 9	1 43	31 2	9 10	3 17	2 58	28 49			n.a.
T 15	22 33	18 23	3 45	23 17	0 26	16 40	1 24	14 28	5 19	12 46	1 14	22 9	0 46	24 1	0 20	6 8	1 43	31 2	9 10	3 18	2 59	28 49			n.a.
F 16	22 26	22 36	4 23	23 31	0 12	16 15	1 23	14 28	5 22	12 42	1 14	22 8	0 46	24 1	0 20	6 8	1 43	31 3	9 11	3 20	3 0	28 49			n.a.
S 17	22 17	25 49	4 49	23 43	0n 1	15 51	1 21	14 27	5 25	12 37	1 14	22 8	0 46	24 1	0 20	6 7	1 43	31 3	9 11	3 22	3 1	28 49			n.a.
S 18	22 9	27 54	5 2	23 53	0 14	15 25	1 19	14 27	5 27	12 33	1 14	22 8	0 46	24 1	0 20	6 6	1 43	31 3	9 11	3 26	3 3	28 49			n.a.
M19	22 0	28 43	5 2	24 1	0 26	14 59	1 18	14 27	5 30	12 29	1 14	22 8	0 46	24 1	0 20	6 6	1 43	31 4	9 11	3 30	3 4	28 48			n.a.
T 20	21 51	28 12	4 49	24 6	0 37	14 33	1 16	14 28	5 32	12 25	1 14	22 7	0 46	24 1	0 20	6 5	1 43	31 4	9 11	3 35	3 5	28 48			n.a.
W21	21 41	26 23	4 23	24 10	0 47	14 7	1 14	14 28	5 35	12 21	1 14	22 7	0 46	24 1	0 20	6 5	1 43	31 4	9 11	3 39	3 6	28 48			n.a.
T 22	21 31	23 22	3 45	24 10	0 57	13 40	1 12	14 29	5 37	12 17	1 14	22 7	0 45	24 1	0 20	6 4	1 43	31 4	9 11	3 43	3 8	28 48			n.a.
F 23	21 20	19 19	2 58	24 8	1 6	13 13	1 10	14 30	5 40	12 12	1 13	22 7	0 45	24 0	0 20	6 3	1 43	31 5	9 11	3 46	3 9	28 48			n.a.
S 24	21 9	14 26	2 1	24 4	1 14	12 45	1 8	14 32	5 42	12 8	1 13	22 7	0 45	24 0	0 20	6 3	1 43	31 5	9 11	3 48	3 10	28 47			n.a.
S 25	20 58	8 56	0 58	23 57	1 21	12 18	1 5	14 34	5 44	12 4	1 13	22 6	0 45	24 0	0 20	6 2	1 43	31 5	9 11	3 49	3 11	28 47			n.a.
M26	20 47	2 59	0s 9	23 47	1 27	11 49	1 3	14 36	5 46	11 59	1 13	22 6	0 45	24 0	0 20	6 1	1 43	31 5	9 11	3 49	3 13	28 47			n.a.
T 27	20 35	3s11	1 17	23 34	1 32	11 21	1 1	14 38	5 48	11 55	1 13	22 6	0 45	24 0	0 20	6 1	1 43	31 6	9 11	3 49	3 14	28 47			n.a.
W28	20 22	9 22	2 23	23 19	1 37	10 52	0 58	14 40	5 50	11 50	1 13	22 6	0 45	24 0	0 20	6 0	1 43	31 6	9 11	3 49	3 15	28 47			n.a.
T 29	20 10	15 17	3 22	23 1	1 40	10 23	0 56	14 43	5 52	11 46	1 13	22 6	0 44	24 0	0 20	5 59	1 43	31 6	9 11	3 48	3 17	28 46			n.a.
F 30	19 57	20 37	4 12	22 41	1 43	9 54	0 53	14 46	5 54	11 42	1 13	22 6	0 44	24 0	0 20	5 59	1 43	31 6	9 11	3 49	3 18	28 46			n.a.
S 31	19n44	24s57	4s48	22n19	1n45	9n25	0n51	14s49	5s56	11n37	1n13	22s 6	0n44	24s 0	0s20	5n58	1n43	31s 7	9s11	3s50	3s19	28n46			n.a.

Julian Day Number = 1651841.5, Delta T = 03h30m34s
Ecliptic obliquity = 23°43'14, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'54, Lahiri = - 6°34'54 Julian Calendar 1 July 191 BCE == Greg. Calendar 28 June 191 BCE

The year -190 astronomical counting style corresponds to year 191 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 191 BCE
geocentric

AUGUST 191 BCE (-190) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 22 39	3♌55'58	14♐ 4	0♌57	9♍18	6°R 9	3♍18	14°R37	26°R 5	19♍ 2	21°R 4	20°R22	21♓41	2♋17	n.a.	S 1
M 2	20 26 35	4°54'03	28°56	2°55	10°30	6♓ 3	3°30	14♐35	26♐ 4	19° 4	21♑ 3	20♓16	21°37	2°23	n.a.	M 2
T 3	20 30 32	5°52'10	13♑59	4°52	11°42	5°57	3°42	14°33	26° 2	19° 6	21° 1	20° 9	21°34	2°30	n.a.	T 3
W 4	20 34 28	6°50'18	29° 4	6°48	12°53	5°49	3°54	14°31	26° 0	19° 8	21° 0	20° 3	21°31	2°37	n.a.	W 4
T 5	20 38 25	7°48'28	14♒ 2	8°43	14° 5	5°41	4° 6	14°29	25°59	19° 9	20°59	19°58	21°28	2°43	n.a.	T 5
F 6	20 42 22	8°46'40	28°42	10°37	15°16	5°32	4°19	14°28	25°57	19°11	20°58	19°54	21°25	2°50	n.a.	F 6
S 7	20 46 18	9°44'54	12♓59	12°30	16°28	5°22	4°31	14°26	25°56	19°13	20°56	19°52	21°21	2°57	n.a.	S 7
S 8	20 50 15	10°43'10	26°50	14°22	17°39	5°11	4°44	14°25	25°54	19°15	20°55	19°D52	21°18	3° 4	n.a.	S 8
M 9	20 54 11	11°41'28	10♈14	16°13	18°50	5° 0	4°56	14°23	25°53	19°17	20°54	19°54	21°15	3°10	n.a.	M 9
T 10	20 58 8	12°39'48	23°12	18° 3	20° 2	4°48	5° 8	14°22	25°51	19°19	20°53	19°55	21°12	3°17	n.a.	T 10
W11	21 2 4	13°38'11	5♉48	19°52	21°13	4°35	5°21	14°21	25°50	19°20	20°51	19°56	21° 9	3°24	n.a.	W11
T 12	21 6 1	14°36'35	18° 6	21°39	22°24	4°22	5°33	14°20	25°49	19°22	20°50	19°R57	21° 6	3°31	n.a.	T 12
F 13	21 9 57	15°35'02	0♊12	23°25	23°35	4° 8	5°46	14°19	25°47	19°24	20°49	19°55	21° 2	3°37	n.a.	F 13
S 14	21 13 54	16°33'32	12° 8	25°11	24°46	3°53	5°59	14°18	25°46	19°26	20°48	19°53	20°59	3°44	n.a.	S 14
S 15	21 17 51	17°32'03	24° 0	26°55	25°58	3°38	6°11	14°17	25°45	19°28	20°47	19°49	20°56	3°51	n.a.	S 15
M16	21 21 47	18°30'37	5♋52	28°38	27° 9	3°23	6°24	14°16	25°44	19°30	20°46	19°44	20°53	3°57	n.a.	M16
T 17	21 25 44	19°29'13	17°47	0♍20	28°20	3° 7	6°37	14°15	25°43	19°32	20°44	19°38	20°50	4° 4	n.a.	T 17
W18	21 29 40	20°27'51	29°47	2° 1	29°30	2°50	6°49	14°15	25°42	19°34	20°43	19°33	20°47	4°11	n.a.	W18
T 19	21 33 37	21°26'31	11♌54	3°41	0♎41	2°33	7° 2	14°14	25°41	19°36	20°42	19°28	20°43	4°18	n.a.	T 19
F 20	21 37 33	22°25'13	24°10	5°20	1°52	2°16	7°15	14°14	25°40	19°38	20°41	19°25	20°40	4°24	n.a.	F 20
S 21	21 41 30	23°23'58	6♍36	6°57	3° 3	1°58	7°28	14°14	25°39	19°40	20°40	19°23	20°37	4°31	n.a.	S 21
S 22	21 45 26	24°22'44	19°13	8°34	4°14	1°40	7°41	14°14	25°38	19°42	20°39	19°D22	20°34	4°38	n.a.	S 22
M23	21 49 23	25°21'32	2♎ 2	10°10	5°24	1°22	7°54	14°D14	25°37	19°44	20°38	19°23	20°31	4°44	n.a.	M23
T 24	21 53 19	26°20'22	15° 5	11°45	6°35	1° 4	8° 6	14°14	25°36	19°46	20°37	19°24	20°27	4°51	n.a.	T 24
W25	21 57 16	27°19'14	28°21	13°19	7°45	0°46	8°19	14°14	25°35	19°49	20°36	19°26	20°24	4°58	n.a.	W25
T 26	22 1 13	28°18'08	11♏53	14°52	8°56	0°28	8°32	14°14	25°35	19°51	20°35	19°27	20°21	5° 5	n.a.	T 26
F 27	22 5 9	29°17'04	25°41	16°24	10° 6	0°10	8°45	14°14	25°34	19°53	20°34	19°R28	20°18	5°11	n.a.	F 27
S 28	22 9 6	0♍16'02	9♐45	17°55	11°16	29♒52	8°58	14°15	25°33	19°55	20°33	19°27	20°15	5°18	n.a.	S 28
S 29	22 13 2	1°15'01	24° 3	19°25	12°26	29°34	9°11	14°15	25°33	19°57	20°32	19°26	20°12	5°25	n.a.	S 29
M30	22 16 59	2°14'03	8♑34	20°54	13°37	29°16	9°24	14°16	25°32	19°59	20°31	19°25	20° 8	5°31	n.a.	M30
T 31	22 20 55	3♍13'06	23♑12	22♍23	14♎47	28♒58	9♍37	14♐17	25♐32	20♍ 1	20♑30	19♓22	20♓ 5	5♋38	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	19n30	27s49	5s 6	21n55	1n47	8n55	0n48	14s52	5s57	11n33	1n13	22s 6	0n44	24s 0	0s20	5n57	1n43	31s 7	9s11	3s52	3s20	28n45			n.a.
M 2	19 16	28 47	5 4	21 29	1 47	8 25	0 45	14 56	5 59	11 28	1 13	22 5	0 44	24 0	0 20	5 57	1 43	31 7	9 11	3 54	3 22	28 45			n.a.
T 3	19 2	27 39	4 42	21 0	1 47	7 55	0 43	15 0	6 0	11 24	1 13	22 5	0 44	24 0	0 20	5 56	1 43	31 7	9 11	3 57	3 23	28 45			n.a.
W 4	18 47	24 30	4 0	20 31	1 47	7 24	0 40	15 4	6 1	11 19	1 13	22 5	0 44	24 0	0 20	5 55	1 43	31 7	9 11	3 59	3 24	28 45			n.a.
T 5	18 32	19 42	3 2	19 59	1 46	6 54	0 37	15 8	6 2	11 14	1 13	22 5	0 43	24 0	0 20	5 54	1 42	31 8	9 11	4 1	3 25	28 44			n.a.
F 6	18 17	13 49	1 52	19 27	1 44	6 23	0 34	15 12	6 3	11 10	1 12	22 5	0 43	24 0	0 20	5 54	1 42	31 8	9 11	4 3	3 27	28 44			n.a.
S 7	18 1	7 20	0 37	18 53	1 42	5 52	0 31	15 17	6 4	11 5	1 12	22 5	0 43	24 0	0 20	5 53	1 42	31 8	9 11	4 3	3 28	28 44			n.a.
S 8	17 45	0 42	0n38	18 17	1 39	5 21	0 28	15 22	6 5	11 1	1 12	22 5	0 43	24 0	0 20	5 52	1 42	31 8	9 11	4 3	3 29	28 43			n.a.
M 9	17 29	5n45	1 48	17 41	1 36	4 50	0 24	15 26	6 6	10 56	1 12	22 5	0 43	24 0	0 20	5 51	1 42	31 8	9 11	4 3	3 30	28 43			n.a.
T 10	17 12	11 46	2 51	17 4	1 32	4 19	0 21	15 31	6 6	10 51	1 12	22 5	0 43	24 0	0 20	5 51	1 42	31 9	9 11	4 2	3 32	28 43			n.a.
W11	16 56	17 7	3 44	16 25	1 28	3 48	0 18	15 36	6 6	10 47	1 12	22 5	0 43	23 59	0 20	5 50	1 42	31 9	9 11	4 2	3 33	28 42			n.a.
T 12	16 39	21 39	4 25	15 47	1 24	3 16	0 15	15 41	6 6	10 42	1 12	22 5	0 42	23 59	0 20	5 49	1 42	31 9	9 11	4 2	3 34	28 42			n.a.
F 13	16 21	25 12	4 53	15 7	1 19	2 45	0 11	15 47	6 6	10 37	1 12	22 5	0 42	23 59	0 20	5 48	1 42	31 9	9 11	4 2	3 36	28 41			n.a.
S 14	16 3	27 37	5 9	14 27	1 14	2 13	0 8	15 52	6 6	10 32	1 12	22 5	0 42	23 59	0 20	5 48	1 42	31 9	9 11	4 3	3 37	28 41			n.a.
S 15	15 46	28 45	5 11	13 46	1 9	1 42	0 4	15 57	6 6	10 28	1 12	22 5	0 42	23 59	0 20	5 47	1 42	31 9	9 11	4 5	3 38	28 41			n.a.
M16	15 27	28 34	4 59	13 5	1 3	1 10	0 1	16 3	6 5	10 23	1 12	22 5	0 42	23 59	0 20	5 46	1 42	31 9	9 11	4 7	3 39	28 40			n.a.
T 17	15 9	27 4	4 35	12 23	0 58	0 38	0s 3	16 8	6 5	10 18	1 12	22 5	0 42	23 59	0 20	5 45	1 42	31 10	9 11	4 9	3 41	28 40			n.a.
W18	14 50	24 19	3 59	11 41	0 52	0 6	0 6	16 13	6 4	10 13	1 12	22 5	0 42	23 59	0 20	5 44	1 42	31 10	9 11	4 11	3 42	28 39			n.a.
T 19	14 31	20 28	3 11	10 59	0 45	0s26	0 10	16 19	6 3	10 8	1 12	22 6	0 41	23 59	0 20	5 44	1 42	31 10	9 11	4 13	3 43	28 39			n.a.
F 20	14 12	15 43	2 14	10 16	0 39	0 57	0 13	16 24	6 1	10 4	1 12	22 6	0 41	23 59	0 20	5 43	1 42	31 10	9 11	4 14	3 44	28 39			n.a.
S 21	13 53	10 16	1 10	9 34	0 33	1 29	0 17	16 29	6 0	9 59	1 12	22 6	0 41	23 59	0 20	5 42	1 42	31 10	9 10	4 15	3 46	28 38			n.a.
S 22	13 33	4 20	0 1	8 51	0 26	2 1	0 21	16 34	5 59	9 54	1 12	22 6	0 41	23 59	0 20	5 41	1 42	31 10	9 10	4 15	3 47	28 38			n.a.
M23	13 13	1s53	1s 9	8 8	0 19	2 33	0 25	16 39	5 57	9 49	1 12	22 6	0 41	23 59	0 20	5 40	1 42	31 10	9 10	4 15	3 48	28 37			n.a.
T 24	12 53	8 6	2 17	7 25	0 12	3 5	0 28	16 44	5 55	9 44	1 12	22 6	0 41	23 59	0 20	5 39	1 42	31 10	9 10	4 15	3 49	28 37			n.a.
W25	12 33	14 6	3 18	6 42	0 5	3 36	0 32	16 49	5 53	9 39	1 12	22 6	0 41	23 59	0 20	5 39	1 42	31 10	9 10	4 14	3 51	28 36			n.a.
T 26	12 12	19 32	4 10	6 0	0s 2	4 8	0 36	16 53	5 51	9 34	1 12	22 7	0 40	23 59	0 20	5 38	1 42	31 11	9 10	4 13	3 52	28 36			n.a.
F 27	11 51	24 4	4 49	5 17	0 10	4 39	0 40	16 58	5 48	9 29	1 12	22 7	0 40	23 59	0 20	5 37	1 42	31 11	9 10	4 13	3 53	28 35			n.a.
S 28	11 31	27 17	5 11	4 34	0 17	5 11	0 44	17 2	5 46	9 24	1 12	22 7	0 40	23 59	0 20	5 36	1 42	31 11	9 10	4 13	3 54	28 35			n.a.
S 29	11 9	28 49	5 14	3 52	0 24	5 42	0 48	17 6	5 43	9 19	1 12	22 7	0 40	23 59	0 20	5 35	1 42	31 11	9 10	4 14	3 56	28 34			n.a.
M30	10 48	28 24	4 58	3 10	0 32	6 13	0 52	17 9	5 40	9 14	1 12	22 7	0 40	23 59	0 20	5 34	1 42	31 11	9 10	4 14	3 57	28 34			n.a.
T 31	10n27	26s 0	4s22	2n28	0s39	6s45	0s56	17s13	5s37	9n 9	1n12	22s 8	0n40	23s59	0s20	5n33	1n42	31s11	9s10	4s15	3s58	28n33			n.a.

Julian Day Number = 1651872.5, Delta T = 03h30m33s
Ecliptic obliquity = 23°43'14, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'50, Lahiri = - 6°34'50 Julian Calendar 1 Aug. 191 BCE == Greg. Calendar 29 July 191 BCE

The year -190 astronomical counting style corresponds to year 191 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 191 BCE
geocentric

SEPTEMBER 191 BCE (-190) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 24 52	4♍12'11	7♒53	23♍50	15♎57	28°R41	9♍50	14♐17	25°R32	20♍ 4	20°R29	19°R20	20♓ 2	5♋45	n.a.	W 1
T 2	22 28 48	5°11'18	22°28	25°16	17° 6	28♒24	10° 3	14°18	25♐31	20° 6	20♑28	19♓19	19°59	5°52	n.a.	T 2
F 3	22 32 45	6°10'27	6♓52	26°42	18°16	28° 7	10°16	14°19	25°31	20° 8	20°27	19°18	19°56	5°58	n.a.	F 3
S 4	22 36 42	7° 9'39	20°59	28° 6	19°26	27°51	10°29	14°20	25°31	20°10	20°27	19°D18	19°53	6° 5	n.a.	S 4
S 5	22 40 38	8° 8'52	4♈45	29°29	20°36	27°35	10°42	14°22	25°30	20°12	20°26	19°18	19°49	6°12	n.a.	S 5
M 6	22 44 35	9° 8'08	18° 9	0♎52	21°45	27°19	10°55	14°23	25°30	20°15	20°25	19°19	19°46	6°19	n.a.	M 6
T 7	22 48 31	10° 7'26	1♉10	2°13	22°55	27° 4	11° 8	14°24	25°30	20°17	20°24	19°20	19°43	6°25	n.a.	T 7
W 8	22 52 28	11° 6'46	13°49	3°33	24° 4	26°50	11°21	14°26	25°30	20°19	20°23	19°21	19°40	6°32	n.a.	W 8
T 9	22 56 24	12° 6'09	26°11	4°51	25°13	26°36	11°34	14°28	25°D30	20°21	20°23	19°21	19°37	6°39	n.a.	T 9
F 10	23 0 21	13° 5'35	8♊19	6° 9	26°22	26°23	11°47	14°29	25°30	20°23	20°22	19°R21	19°33	6°45	n.a.	F 10
S 11	23 4 17	14° 5'02	20°16	7°25	27°31	26°10	12° 1	14°31	25°30	20°26	20°21	19°21	19°30	6°52	n.a.	S 11
S 12	23 8 14	15° 4'33	2♋ 9	8°40	28°40	25°58	12°14	14°33	25°30	20°28	20°21	19°21	19°27	6°59	n.a.	S 12
M13	23 12 11	16° 4'05	14° 2	9°53	29°49	25°46	12°27	14°35	25°31	20°30	20°20	19°21	19°24	7° 6	n.a.	M13
T 14	23 16 7	17° 3'40	25°58	11° 5	0♏58	25°36	12°40	14°37	25°31	20°32	20°19	19°21	19°21	7°12	n.a.	T 14
W15	23 20 4	18° 3'17	8♌ 2	12°15	2° 7	25°26	12°53	14°39	25°31	20°35	20°19	19°20	19°18	7°19	n.a.	W15
T 16	23 24 0	19° 2'57	20°17	13°23	3°15	25°17	13° 6	14°41	25°31	20°37	20°18	19°D20	19°14	7°26	n.a.	T 16
F 17	23 27 57	20° 2'39	2♍45	14°28	4°24	25° 8	13°19	14°44	25°32	20°39	20°18	19°20	19°11	7°32	n.a.	F 17
S 18	23 31 53	21° 2'22	15°27	15°32	5°32	25° 0	13°32	14°46	25°32	20°41	20°17	19°R20	19° 8	7°39	n.a.	S 18
S 19	23 35 50	22° 2'08	28°25	16°33	6°40	24°54	13°45	14°49	25°33	20°44	20°17	19°20	19° 5	7°46	n.a.	S 19
M20	23 39 46	23° 1'56	11♎38	17°31	7°48	24°47	13°58	14°51	25°33	20°46	20°16	19°20	19° 2	7°53	n.a.	M20
T 21	23 43 43	24° 1'46	25° 4	18°27	8°56	24°42	14°11	14°54	25°34	20°48	20°16	19°20	18°58	7°59	n.a.	T 21
W22	23 47 39	25° 1'38	8♏44	19°18	10° 4	24°38	14°24	14°57	25°35	20°50	20°15	19°19	18°55	8° 6	n.a.	W22
T 23	23 51 36	26° 1'32	22°34	20° 7	11°12	24°34	14°37	15° 0	25°35	20°53	20°15	19°18	18°52	8°13	n.a.	T 23
F 24	23 55 33	27° 1'28	6♐33	20°51	12°19	24°31	14°50	15° 3	25°36	20°55	20°15	19°18	18°49	8°19	n.a.	F 24
S 25	23 59 29	28° 1'25	20°39	21°30	13°27	24°29	15° 3	15° 6	25°37	20°57	20°14	19°17	18°46	8°26	n.a.	S 25
S 26	0 3 26	29° 1'25	4♑50	22° 5	14°34	24°28	15°16	15° 9	25°38	20°59	20°14	19°D17	18°43	8°33	n.a.	S 26
M27	0 7 22	0♎ 1'26	19° 4	22°34	15°41	24°D27	15°28	15°13	25°39	21° 1	20°14	19°18	18°39	8°40	n.a.	M27
T 28	0 11 19	1° 1'28	3♒19	22°57	16°48	24°28	15°41	15°16	25°40	21° 4	20°13	19°18	18°36	8°46	n.a.	T 28
W29	0 15 15	2° 1'32	17°30	23°13	17°55	24°29	15°54	15°19	25°41	21° 6	20°13	19°19	18°33	8°53	n.a.	W29
T 30	0 19 12	3♎ 1'38	1♓37	23♎22	19♏ 1	24♒31	16♍ 7	15♐23	25♐42	21♍ 8	20♑13	19♓20	18♓30	9♋ 0	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	10n 5	21s53	3s29	1n46	0s47	7s15	1s 0	17s16	5s34	9n 5	1n12	22s 8	0n40	23s59	0s20	5n32	1n42	31s11	9s 9	4s16	4s 0	28n33		n.a.
T 2	9 43	16 26	2 23	1 5	0 54	7 46	1 3	17 19	5 30	9 0	1 12	22 8	0 39	23 59	0 20	5 32	1 42	31 11	9 9	4 17	4 1	28 32		n.a.
F 3	9 21	10 9	1 8	0 23	1 1	8 17	1 7	17 22	5 27	8 55	1 12	22 8	0 39	23 59	0 20	5 31	1 42	31 11	9 9	4 17	4 2	28 31		n.a.
S 4	8 59	3 28	0n 9	0s17	1 9	8 47	1 11	17 24	5 23	8 50	1 12	22 9	0 39	23 59	0 20	5 30	1 42	31 11	9 9	4 17	4 3	28 31		n.a.
S 5	8 37	3n12	1 25	0 57	1 16	9 18	1 15	17 27	5 20	8 45	1 12	22 9	0 39	23 59	0 20	5 29	1 42	31 11	9 9	4 17	4 5	28 30		n.a.
M 6	8 14	9 33	2 33	1 37	1 24	9 48	1 19	17 29	5 16	8 40	1 12	22 9	0 39	23 59	0 20	5 28	1 42	31 11	9 9	4 17	4 6	28 30		n.a.
T 7	7 52	15 19	3 32	2 17	1 31	10 18	1 23	17 30	5 12	8 35	1 12	22 9	0 39	23 59	0 20	5 27	1 42	31 11	9 9	4 16	4 7	28 29		n.a.
W 8	7 29	20 16	4 18	2 55	1 38	10 47	1 27	17 32	5 8	8 30	1 12	22 10	0 38	23 59	0 20	5 26	1 42	31 11	9 9	4 16	4 8	28 29		n.a.
T 9	7 6	24 14	4 51	3 33	1 45	11 17	1 31	17 33	5 4	8 25	1 12	22 10	0 38	23 59	0 20	5 25	1 42	31 11	9 8	4 16	4 10	28 28		n.a.
F 10	6 43	27 4	5 11	4 11	1 52	11 46	1 35	17 33	5 0	8 19	1 12	22 10	0 38	23 59	0 20	5 25	1 42	31 11	9 8	4 16	4 11	28 27		n.a.
S 11	6 20	28 37	5 17	4 48	1 59	12 15	1 39	17 34	4 56	8 14	1 12	22 11	0 38	23 59	0 20	5 24	1 42	31 11	9 8	4 16	4 12	28 27		n.a.
S 12	5 57	28 51	5 9	5 24	2 6	12 44	1 43	17 34	4 51	8 9	1 12	22 11	0 38	23 59	0 20	5 23	1 42	31 11	9 8	4 16	4 13	28 26		n.a.
M13	5 33	27 45	4 48	5 59	2 12	13 12	1 47	17 34	4 47	8 4	1 12	22 12	0 38	23 59	0 20	5 22	1 42	31 11	9 8	4 16	4 15	28 25		n.a.
T 14	5 10	25 22	4 15	6 33	2 18	13 40	1 51	17 34	4 43	7 59	1 12	22 12	0 38	23 59	0 20	5 21	1 42	31 11	9 8	4 16	4 16	28 25		n.a.
W15	4 47	21 50	3 29	7 6	2 25	14 8	1 54	17 33	4 38	7 54	1 12	22 12	0 38	23 59	0 20	5 20	1 42	31 11	9 8	4 16	4 17	28 24		n.a.
T 16	4 23	17 20	2 34	7 39	2 30	14 36	1 58	17 32	4 34	7 49	1 12	22 13	0 37	23 59	0 20	5 19	1 42	31 11	9 7	4 16	4 18	28 23		n.a.
F 17	3 59	12 1	1 31	8 10	2 36	15 3	2 2	17 31	4 29	7 44	1 12	22 13	0 37	23 59	0 20	5 18	1 42	31 11	9 7	4 16	4 20	28 23		n.a.
S 18	3 36	6 8	0 22	8 39	2 41	15 30	2 6	17 29	4 25	7 39	1 12	22 14	0 37	23 59	0 20	5 17	1 42	31 11	9 7	4 16	4 21	28 22		n.a.
S 19	3 12	0s 8	0s50	9 8	2 46	15 56	2 9	17 27	4 20	7 34	1 12	22 14	0 37	23 59	0 20	5 17	1 42	31 10	9 7	4 16	4 22	28 21		n.a.
M20	2 48	6 30	2 0	9 34	2 50	16 22	2 13	17 25	4 15	7 29	1 12	22 14	0 37	23 59	0 20	5 16	1 42	31 10	9 7	4 16	4 23	28 21		n.a.
T 21	2 24	12 41	3 5	10 0	2 54	16 48	2 17	17 22	4 11	7 24	1 12	22 15	0 37	23 59	0 20	5 15	1 42	31 10	9 7	4 16	4 25	28 20		n.a.
W22	2 0	18 22	4 1	10 23	2 58	17 13	2 20	17 20	4 6	7 19	1 12	22 15	0 37	23 59	0 20	5 14	1 42	31 10	9 7	4 17	4 26	28 19		n.a.
T 23	1 36	23 11	4 43	10 44	3 1	17 38	2 24	17 17	4 2	7 14	1 12	22 16	0 36	23 59	0 20	5 13	1 42	31 10	9 6	4 17	4 27	28 19		n.a.
F 24	1 12	26 43	5 9	11 3	3 3	18 3	2 27	17 13	3 57	7 9	1 12	22 16	0 36	23 59	0 20	5 12	1 42	31 10	9 6	4 17	4 29	28 18		n.a.
S 25	0 48	28 39	5 16	11 20	3 5	18 27	2 31	17 10	3 53	7 4	1 12	22 17	0 36	23 59	0 20	5 11	1 42	31 10	9 6	4 17	4 30	28 17		n.a.
S 26	0 24	28 43	5 5	11 34	3 6	18 51	2 34	17 6	3 48	6 59	1 12	22 17	0 36	23 59	0 20	5 10	1 42	31 10	9 6	4 17	4 31	28 16		n.a.
M27	0s 1	26 53	4 35	11 45	3 6	19 14	2 38	17 2	3 43	6 54	1 12	22 18	0 36	23 59	0 20	5 9	1 42	31 10	9 6	4 17	4 32	28 16		n.a.
T 28	0 25	23 20	3 48	11 53	3 5	19 37	2 41	16 57	3 39	6 49	1 12	22 18	0 36	23 59	0 20	5 9	1 42	31 10	9 6	4 17	4 34	28 15		n.a.
W29	0 49	18 25	2 47	11 57	3 3	19 59	2 44	16 53	3 34	6 44	1 13	22 19	0 36	23 59	0 20	5 8	1 42	31 9	9 5	4 16	4 35	28 14		n.a.
T 30	1s13	12s32	1s37	11s57	2s59	20s21	2s47	16s48	3s30	6n39	1n13	22s19	0n35	23s59	0s20	5n 7	1n42	31s 9	9s 5	4s16	4s36	28n13		n.a.

Julian Day Number = 1651903.5, Delta T = 03h30m32s
Ecliptic obliquity = 23°43'15, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'46, Lahiri = - 6°34'45 Julian Calendar 1 Sept. 191 BCE == Greg. Calendar 29 Aug. 191 BCE

The year -190 astronomical counting style corresponds to year 191 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 191 BCE
geocentric

OCTOBER 191 BCE (-190) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 23 8	4♎ 1'46	15♓34	23°R23	20♏ 8	24♒34	16♍20	15♐27	25♐43	21♍10	20°R13	19°R21	18♓27	9♋ 6	n.a.	F 1
S 2	0 27 5	5° 1'55	29°19	23♎15	21°14	24°37	16°32	15°30	25°44	21°12	20♑12	19♓21	18°24	9°13	n.a.	S 2
S 3	0 31 2	6° 2'07	12♈50	22°59	22°20	24°41	16°45	15°34	25°45	21°15	20°12	19°20	18°20	9°20	n.a.	S 3
M 4	0 34 58	7° 2'20	26° 4	22°33	23°26	24°46	16°58	15°38	25°47	21°17	20°12	19°18	18°17	9°27	n.a.	M 4
T 5	0 38 55	8° 2'35	8♉59	21°57	24°32	24°52	17°10	15°42	25°48	21°19	20°12	19°15	18°14	9°33	n.a.	T 5
W 6	0 42 51	9° 2'53	21°38	21°12	25°37	24°59	17°23	15°46	25°49	21°21	20°12	19°12	18°11	9°40	n.a.	W 6
T 7	0 46 48	10° 3'12	4♊ 0	20°17	26°42	25° 6	17°36	15°50	25°51	21°23	20°12	19° 9	18° 8	9°47	n.a.	T 7
F 8	0 50 44	11° 3'33	16° 8	19°14	27°47	25°14	17°48	15°54	25°52	21°25	20°D12	19° 6	18° 4	9°53	n.a.	F 8
S 9	0 54 41	12° 3'57	28° 7	18° 4	28°52	25°22	18° 1	15°58	25°54	21°28	20°12	19° 4	18° 1	10° 0	n.a.	S 9
S 10	0 58 37	13° 4'22	10♋ 0	16°48	29°56	25°32	18°13	16° 3	25°55	21°30	20°12	19°D 3	17°58	10° 7	n.a.	S 10
M11	1 2 34	14° 4'50	21°52	15°29	1♐ 1	25°42	18°26	16° 7	25°57	21°32	20°12	19° 4	17°55	10°14	n.a.	M11
T 12	1 6 31	15° 5'20	3♌48	14°10	2° 5	25°52	18°38	16°12	25°58	21°34	20°12	19° 5	17°52	10°20	n.a.	T 12
W13	1 10 27	16° 5'51	15°52	12°51	3° 8	26° 4	18°50	16°16	26° 0	21°36	20°12	19° 6	17°49	10°27	n.a.	W13
T 14	1 14 24	17° 6'24	28°10	11°37	4°12	26°16	19° 3	16°21	26° 2	21°38	20°13	19° 8	17°45	10°34	n.a.	T 14
F 15	1 18 20	18° 7'00	10♍45	10°30	5°15	26°28	19°15	16°26	26° 4	21°40	20°13	19° 9	17°42	10°40	n.a.	F 15
S 16	1 22 17	19° 7'36	23°39	9°31	6°18	26°41	19°27	16°30	26° 5	21°42	20°13	19°R10	17°39	10°47	n.a.	S 16
S 17	1 26 13	20° 8'15	6♎55	8°42	7°21	26°55	19°39	16°35	26° 7	21°44	20°13	19° 8	17°36	10°54	n.a.	S 17
M18	1 30 10	21° 8'55	20°31	8° 4	8°23	27°10	19°51	16°40	26° 9	21°46	20°13	19° 5	17°33	11° 1	n.a.	M18
T 19	1 34 6	22° 9'37	4♏25	7°38	9°25	27°25	20° 3	16°45	26°11	21°48	20°14	19° 1	17°30	11° 7	n.a.	T 19
W20	1 38 3	23°10'21	18°34	7°24	10°27	27°40	20°15	16°50	26°13	21°50	20°14	18°56	17°26	11°14	n.a.	W20
T 21	1 42 0	24°11'06	2♐52	7°D21	11°28	27°56	20°27	16°55	26°15	21°52	20°14	18°50	17°23	11°21	n.a.	T 21
F 22	1 45 56	25°11'52	17°15	7°29	12°29	28°13	20°39	17° 0	26°17	21°54	20°15	18°45	17°20	11°27	n.a.	F 22
S 23	1 49 53	26°12'39	1♑37	7°47	13°30	28°30	20°51	17° 6	26°20	21°56	20°15	18°41	17°17	11°34	n.a.	S 23
S 24	1 53 49	27°13'28	15°54	8°14	14°30	28°48	21° 3	17°11	26°22	21°58	20°16	18°39	17°14	11°41	n.a.	S 24
M25	1 57 46	28°14'18	0♒ 3	8°50	15°30	29° 6	21°14	17°16	26°24	22° 0	20°16	18°D38	17°10	11°48	n.a.	M25
T 26	2 1 42	29°15'08	14° 3	9°34	16°29	29°25	21°26	17°22	26°26	22° 2	20°17	18°39	17° 7	11°54	n.a.	T 26
W27	2 5 39	0♏16'00	27°54	10°23	17°28	29°44	21°38	17°27	26°29	22° 4	20°17	18°40	17° 4	12° 1	n.a.	W27
T 28	2 9 35	1°16'52	11♓34	11°19	18°26	0♓ 4	21°49	17°33	26°31	22° 6	20°18	18°42	17° 1	12° 8	n.a.	T 28
F 29	2 13 32	2°17'46	25° 4	12°20	19°24	0°24	22° 0	17°39	26°33	22° 7	20°18	18°R42	16°58	12°14	n.a.	F 29
S 30	2 17 29	3°18'40	8♈23	13°26	20°22	0°45	22°12	17°44	26°36	22° 9	20°19	18°40	16°55	12°21	n.a.	S 30
S 31	2 21 25	4♏19'36	21♈30	14♎35	21♐19	1♓ 6	22♍23	17♐50	26♐38	22♍11	20♑19	18♓36	16♓51	12♋28	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	1s37	6s 5	0s21	11s53	2s55	20s43	2s50	16s43	3s25	6n34	1n13	22s20	0n35	23s59	0s20	5n 6	1n42	31s 9	9s 5	4s16	4s37	28n12		n.a.
S 2	2 1	0n34	0n55	11 44	2 49	21 4	2 53	16 37	3 21	6 29	1 13	22 20	0 35	23 59	0 20	5 5	1 42	31 9	9 5	4 16	4 39	28 12		n.a.
S 3	2 25	7 3	2 6	11 31	2 41	21 24	2 56	16 32	3 17	6 24	1 13	22 21	0 35	23 59	0 20	5 4	1 42	31 9	9 5	4 16	4 40	28 11		n.a.
M 4	2 50	13 6	3 9	11 13	2 31	21 44	2 59	16 26	3 12	6 19	1 13	22 21	0 35	23 59	0 20	5 3	1 42	31 9	9 4	4 17	4 41	28 10		n.a.
T 5	3 14	18 27	4 0	10 49	2 20	22 3	3 2	16 20	3 8	6 14	1 13	22 22	0 35	23 59	0 20	5 3	1 42	31 9	9 4	4 18	4 42	28 9		n.a.
W 6	3 38	22 52	4 39	10 20	2 7	22 22	3 4	16 14	3 4	6 10	1 13	22 23	0 35	23 59	0 20	5 2	1 42	31 8	9 4	4 19	4 44	28 8		n.a.
T 7	4 2	26 10	5 4	9 45	1 53	22 40	3 7	16 7	3 0	6 5	1 13	22 23	0 35	23 59	0 20	5 1	1 42	31 8	9 4	4 21	4 45	28 8		n.a.
F 8	4 26	28 12	5 14	9 6	1 36	22 58	3 9	16 1	2 55	6 0	1 13	22 24	0 34	23 59	0 20	5 0	1 42	31 8	9 4	4 22	4 46	28 7		n.a.
S 9	4 49	28 53	5 10	8 22	1 18	23 15	3 12	15 54	2 51	5 55	1 13	22 24	0 34	23 59	0 20	4 59	1 42	31 8	9 4	4 22	4 47	28 6		n.a.
S 10	5 13	28 13	4 54	7 35	0 59	23 32	3 14	15 47	2 47	5 50	1 13	22 25	0 34	23 59	0 20	4 58	1 42	31 8	9 3	4 23	4 49	28 5		n.a.
M11	5 37	26 16	4 24	6 46	0 39	23 48	3 16	15 40	2 43	5 45	1 13	22 25	0 34	23 59	0 20	4 58	1 42	31 7	9 3	4 23	4 50	28 4		n.a.
T 12	6 1	23 9	3 44	5 56	0 18	24 3	3 18	15 32	2 39	5 40	1 14	22 26	0 34	23 59	0 20	4 57	1 42	31 7	9 3	4 22	4 51	28 3		n.a.
W13	6 24	19 0	2 52	5 6	0n 3	24 18	3 20	15 25	2 35	5 36	1 14	22 27	0 34	23 59	0 20	4 56	1 42	31 7	9 3	4 22	4 52	28 2		n.a.
T 14	6 48	14 0	1 53	4 18	0 23	24 32	3 22	15 17	2 32	5 31	1 14	22 27	0 34	23 59	0 20	4 55	1 42	31 7	9 3	4 21	4 54	28 1		n.a.
F 15	7 11	8 20	0 46	3 33	0 42	24 46	3 24	15 9	2 28	5 26	1 14	22 28	0 34	23 59	0 20	4 54	1 42	31 7	9 3	4 20	4 55	28 1		n.a.
S 16	7 34	2 10	0s25	2 53	1 0	24 59	3 25	15 1	2 24	5 21	1 14	22 28	0 33	23 59	0 20	4 54	1 42	31 6	9 2	4 20	4 56	28 0		n.a.
S 17	7 58	4s14	1 36	2 19	1 17	25 11	3 27	14 53	2 20	5 17	1 14	22 29	0 33	23 59	0 20	4 53	1 42	31 6	9 2	4 21	4 57	27 59		n.a.
M18	8 21	10 37	2 43	1 50	1 32	25 23	3 28	14 44	2 17	5 12	1 14	22 30	0 33	24 0	0 20	4 52	1 43	31 6	9 2	4 22	4 59	27 58		n.a.
T 19	8 44	16 37	3 42	1 28	1 44	25 34	3 29	14 36	2 13	5 7	1 14	22 30	0 33	24 0	0 20	4 51	1 43	31 6	9 2	4 24	5 0	27 57		n.a.
W20	9 6	21 51	4 28	1 12	1 55	25 45	3 30	14 27	2 10	5 2	1 14	22 31	0 33	24 0	0 20	4 51	1 43	31 6	9 2	4 26	5 1	27 56		n.a.
T 21	9 29	25 51	4 59	1 3	2 5	25 54	3 31	14 18	2 6	4 58	1 14	22 31	0 33	24 0	0 20	4 50	1 43	31 5	9 1	4 28	5 2	27 55		n.a.
F 22	9 52	28 15	5 10	0 59	2 12	26 4	3 32	14 9	2 3	4 53	1 15	22 32	0 33	24 0	0 20	4 49	1 43	31 5	9 1	4 30	5 4	27 54		n.a.
S 23	10 14	28 45	5 3	1 1	2 17	26 12	3 33	14 0	1 59	4 49	1 15	22 33	0 33	24 0	0 20	4 48	1 43	31 5	9 1	4 32	5 5	27 53		n.a.
S 24	10 36	27 20	4 36	1 9	2 22	26 20	3 33	13 50	1 56	4 44	1 15	22 33	0 33	24 0	0 20	4 48	1 43	31 5	9 1	4 33	5 6	27 52		n.a.
M25	10 58	24 10	3 53	1 20	2 24	26 27	3 33	13 41	1 53	4 39	1 15	22 34	0 32	24 0	0 20	4 47	1 43	31 4	9 1	4 33	5 7	27 51		n.a.
T 26	11 20	19 37	2 57	1 36	2 25	26 34	3 34	13 31	1 50	4 35	1 15	22 35	0 32	24 0	0 20	4 46	1 43	31 4	9 1	4 32	5 9	27 50		n.a.
W27	11 42	14 4	1 50	1 56	2 26	26 40	3 33	13 21	1 46	4 30	1 15	22 35	0 32	24 0	0 20	4 45	1 43	31 4	9 0	4 32	5 10	27 49		n.a.
T 28	12 3	7 54	0 39	2 19	2 25	26 45	3 33	13 11	1 43	4 26	1 15	22 36	0 32	24 0	0 20	4 45	1 43	31 4	9 0	4 31	5 11	27 48		n.a.
F 29	12 25	1 28	0n34	2 44	2 23	26 50	3 33	13 1	1 40	4 22	1 15	22 37	0 32	24 0	0 20	4 44	1 43	31 3	9 0	4 31	5 12	27 47		n.a.
S 30	12 46	4n57	1 44	3 12	2 21	26 54	3 32	12 51	1 37	4 17	1 16	22 37	0 32	24 0	0 20	4 43	1 43	31 3	9 0	4 32	5 14	27 46		n.a.
S 31	13s 7	11n 4	2n48	3s42	2n17	26s57	3s32	12s41	1s34	4n13	1n16	22s38	0n32	24s 0	0s20	4n43	1n43	31s 3	9s 0	4s34	5s15	27n45		n.a.

Julian Day Number = 1651933.5, Delta T = 03h30m31s
Ecliptic obliquity = 23°43'15, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'42, Lahiri = - 6°34'41 Julian Calendar 1 Oct. 191 BCE == Greg. Calendar 28 Sept. 191 BCE

The year -190 astronomical counting style corresponds to year 191 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 191 BCE
geocentric

NOVEMBER 191 BCE (-190) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 25 22	5♏20'32	4♉26	15♎47	22♐15	1♓27	22♍34	17♐56	26♐41	22♍13	20♑20	18°R29	16♓48	12♋34	n.a.	M 1
T 2	2 29 18	6°21'30	17° 9	17° 3	23°11	1°49	22°45	18° 2	26°43	22°15	20°21	18♓21	16°45	12°41	n.a.	T 2
W 3	2 33 15	7°22'29	29°39	18°21	24° 6	2°11	22°56	18° 7	26°46	22°16	20°21	18°11	16°42	12°48	n.a.	W 3
T 4	2 37 11	8°23'29	11♊57	19°41	25° 1	2°34	23° 7	18°13	26°48	22°18	20°22	18° 2	16°39	12°55	n.a.	T 4
F 5	2 41 8	9°24'31	24° 3	21° 2	25°55	2°57	23°18	18°19	26°51	22°20	20°23	17°53	16°35	13° 1	n.a.	F 5
S 6	2 45 4	10°25'34	6♋ 0	22°26	26°48	3°20	23°29	18°25	26°54	22°21	20°24	17°45	16°32	13° 8	n.a.	S 6
S 7	2 49 1	11°26'37	17°52	23°50	27°41	3°44	23°40	18°32	26°56	22°23	20°24	17°40	16°29	13°15	n.a.	S 7
M 8	2 52 58	12°27'42	29°42	25°16	28°33	4° 8	23°51	18°38	26°59	22°25	20°25	17°36	16°26	13°21	n.a.	M 8
T 9	2 56 54	13°28'48	11♌35	26°43	29°24	4°33	24° 1	18°44	27° 2	22°26	20°26	17°D35	16°23	13°28	n.a.	T 9
W10	3 0 51	14°29'55	23°37	28°10	0♑15	4°58	24°12	18°50	27° 5	22°28	20°27	17°36	16°20	13°35	n.a.	W10
T 11	3 4 47	15°31'03	5♍52	29°38	1° 4	5°23	24°22	18°56	27° 8	22°29	20°28	17°37	16°16	13°42	n.a.	T 11
F 12	3 8 44	16°32'13	18°27	1♏ 7	1°53	5°48	24°32	19° 3	27°10	22°31	20°29	17°R37	16°13	13°48	n.a.	F 12
S 13	3 12 40	17°33'23	1♎24	2°37	2°41	6°14	24°43	19° 9	27°13	22°32	20°30	17°36	16°10	13°55	n.a.	S 13
S 14	3 16 37	18°34'34	14°47	4° 6	3°29	6°40	24°53	19°15	27°16	22°34	20°31	17°33	16° 7	14° 2	n.a.	S 14
M15	3 20 33	19°35'45	28°37	5°37	4°15	7° 6	25° 3	19°22	27°19	22°35	20°32	17°27	16° 4	14° 8	n.a.	M15
T 16	3 24 30	20°36'58	12♏52	7° 7	5° 0	7°33	25°13	19°28	27°22	22°36	20°33	17°19	16° 1	14°15	n.a.	T 16
W17	3 28 27	21°38'11	27°26	8°38	5°45	8° 0	25°22	19°35	27°25	22°38	20°34	17° 9	15°57	14°22	n.a.	W17
T 18	3 32 23	22°39'25	12♐14	10° 9	6°28	8°27	25°32	19°41	27°28	22°39	20°35	16°58	15°54	14°29	n.a.	T 18
F 19	3 36 20	23°40'40	27° 5	11°41	7°10	8°55	25°42	19°48	27°31	22°40	20°36	16°48	15°51	14°35	n.a.	F 19
S 20	3 40 16	24°41'54	11♑52	13°12	7°51	9°23	25°51	19°55	27°34	22°42	20°37	16°39	15°48	14°42	n.a.	S 20
S 21	3 44 13	25°43'09	26°28	14°44	8°31	9°51	26° 1	20° 1	27°38	22°43	20°38	16°34	15°45	14°49	n.a.	S 21
M22	3 48 9	26°44'24	10♒47	16°17	9° 9	10°19	26°10	20° 8	27°41	22°44	20°39	16°30	15°41	14°55	n.a.	M22
T 23	3 52 6	27°45'39	24°48	17°49	9°47	10°48	26°19	20°15	27°44	22°45	20°40	16°D29	15°38	15° 2	n.a.	T 23
W24	3 56 3	28°46'53	8♓31	19°22	10°23	11°17	26°28	20°22	27°47	22°47	20°42	16°29	15°35	15° 9	n.a.	W24
T 25	3 59 59	29°48'08	21°56	20°54	10°57	11°46	26°37	20°28	27°50	22°48	20°43	16°R30	15°32	15°15	n.a.	T 25
F 26	4 3 56	0♐49'22	5♈ 7	22°27	11°30	12°15	26°46	20°35	27°54	22°49	20°44	16°28	15°29	15°22	n.a.	F 26
S 27	4 7 52	1°50'37	18° 4	24° 1	12° 2	12°44	26°54	20°42	27°57	22°50	20°45	16°24	15°26	15°29	n.a.	S 27
S 28	4 11 49	2°51'51	0♉51	25°34	12°32	13°14	27° 3	20°49	28° 0	22°51	20°46	16°18	15°22	15°36	n.a.	S 28
M29	4 15 45	3°53'06	13°27	27° 8	13° 0	13°44	27°12	20°56	28° 3	22°52	20°48	16° 8	15°19	15°42	n.a.	M29
T 30	4 19 42	4♐54'20	25♉53	28♏42	13♑27	14♓14	27♍20	21♐ 3	28♐ 7	22♍53	20♑49	15♓55	15♓16	15♋49	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13 s27	16n37	3n41	4 s14	2n13	27 s 0	3 s31	12 s30	1 s31	4n 8	1n16	22 s38	0n32	24 s 0	0 s20	4n42	1n43	31 s 2	8 s59	4 s36	5 s16	27n44		n.a.
T 2	13 48	21 20	4 22	4 47	2 9	27 2	3 30	12 19	1 28	4 4	1 16	22 39	0 32	24 0	0 20	4 41	1 43	31 2	8 59	4 40	5 17	27 43		n.a.
W 3	14 8	25 2	4 50	5 22	2 4	27 3	3 28	12 9	1 26	4 0	1 16	22 40	0 31	24 0	0 20	4 41	1 43	31 2	8 59	4 43	5 19	27 42		n.a.
T 4	14 28	27 31	5 4	5 57	1 59	27 4	3 27	11 58	1 23	3 56	1 16	22 40	0 31	24 0	0 20	4 40	1 43	31 2	8 59	4 47	5 20	27 41		n.a.
F 5	14 48	28 39	5 4	6 33	1 53	27 4	3 25	11 47	1 20	3 51	1 16	22 41	0 31	24 1	0 20	4 39	1 43	31 1	8 59	4 51	5 21	27 40		n.a.
S 6	15 7	28 25	4 51	7 10	1 47	27 4	3 23	11 36	1 17	3 47	1 17	22 42	0 31	24 1	0 20	4 39	1 43	31 1	8 59	4 54	5 22	27 39		n.a.
S 7	15 27	26 53	4 25	7 47	1 41	27 3	3 21	11 25	1 15	3 43	1 17	22 42	0 31	24 1	0 20	4 38	1 43	31 1	8 58	4 56	5 24	27 38		n.a.
M 8	15 45	24 9	3 48	8 25	1 35	27 1	3 19	11 13	1 12	3 39	1 17	22 43	0 31	24 1	0 20	4 38	1 43	31 0	8 58	4 57	5 25	27 36		n.a.
T 9	16 4	20 24	3 1	9 3	1 28	26 59	3 16	11 2	1 10	3 35	1 17	22 43	0 31	24 1	0 20	4 37	1 43	31 0	8 58	4 58	5 26	27 35		n.a.
W10	16 23	15 46	2 5	9 41	1 22	26 57	3 13	10 50	1 7	3 31	1 17	22 44	0 31	24 1	0 20	4 36	1 44	31 0	8 58	4 57	5 27	27 34		n.a.
T 11	16 41	10 26	1 2	10 19	1 15	26 53	3 10	10 39	1 5	3 27	1 17	22 45	0 31	24 1	0 20	4 36	1 44	31 0	8 58	4 57	5 29	27 33		n.a.
F 12	16 59	4 33	0 s 4	10 57	1 8	26 49	3 7	10 27	1 2	3 23	1 18	22 45	0 31	24 1	0 20	4 35	1 44	30 59	8 58	4 57	5 30	27 32		n.a.
S 13	17 16	1 s40	1 13	11 34	1 1	26 45	3 3	10 15	1 0	3 19	1 18	22 46	0 30	24 1	0 20	4 35	1 44	30 59	8 58	4 57	5 31	27 31		n.a.
S 14	17 33	8 2	2 20	12 12	0 54	26 40	3 0	10 3	0 57	3 15	1 18	22 47	0 30	24 1	0 20	4 34	1 44	30 59	8 57	4 59	5 32	27 30		n.a.
M15	17 50	14 13	3 20	12 49	0 47	26 34	2 55	9 51	0 55	3 11	1 18	22 47	0 30	24 1	0 20	4 34	1 44	30 58	8 57	5 1	5 34	27 29		n.a.
T 16	18 7	19 51	4 10	13 26	0 40	26 28	2 51	9 39	0 53	3 7	1 18	22 48	0 30	24 1	0 20	4 33	1 44	30 58	8 57	5 4	5 35	27 27		n.a.
W17	18 23	24 26	4 45	14 2	0 33	26 22	2 46	9 27	0 51	3 3	1 18	22 48	0 30	24 1	0 20	4 33	1 44	30 58	8 57	5 8	5 36	27 26		n.a.
T 18	18 39	27 30	5 1	14 38	0 25	26 15	2 41	9 14	0 48	3 0	1 19	22 49	0 30	24 1	0 20	4 32	1 44	30 57	8 57	5 12	5 37	27 25		n.a.
F 19	18 55	28 39	4 58	15 13	0 18	26 7	2 36	9 2	0 46	2 56	1 19	22 50	0 30	24 1	0 20	4 32	1 44	30 57	8 57	5 16	5 39	27 24		n.a.
S 20	19 10	27 44	4 34	15 48	0 11	26 0	2 31	8 49	0 44	2 52	1 19	22 50	0 30	24 1	0 20	4 31	1 44	30 57	8 57	5 20	5 40	27 23		n.a.
S 21	19 25	24 55	3 53	16 23	0 5	25 51	2 25	8 37	0 42	2 49	1 19	22 51	0 30	24 1	0 20	4 31	1 44	30 57	8 56	5 22	5 41	27 21		n.a.
M22	19 39	20 34	2 57	16 56	0 s 2	25 42	2 19	8 24	0 40	2 45	1 19	22 51	0 30	24 2	0 20	4 30	1 44	30 56	8 56	5 23	5 42	27 20		n.a.
T 23	19 54	15 10	1 52	17 29	0 9	25 33	2 12	8 11	0 38	2 42	1 20	22 52	0 29	24 2	0 20	4 30	1 44	30 56	8 56	5 24	5 44	27 19		n.a.
W24	20 7	9 8	0 42	18 2	0 16	25 24	2 5	7 58	0 36	2 38	1 20	22 53	0 29	24 2	0 20	4 30	1 44	30 56	8 56	5 24	5 45	27 18		n.a.
T 25	20 21	2 48	0n29	18 33	0 22	25 14	1 58	7 45	0 34	2 35	1 20	22 53	0 29	24 2	0 20	4 29	1 44	30 55	8 56	5 24	5 46	27 17		n.a.
F 26	20 34	3n32	1 37	19 4	0 29	25 3	1 51	7 32	0 32	2 32	1 20	22 54	0 29	24 2	0 20	4 29	1 44	30 55	8 56	5 24	5 47	27 15		n.a.
S 27	20 46	9 37	2 39	19 34	0 35	24 53	1 43	7 19	0 30	2 28	1 20	22 54	0 29	24 2	0 20	4 28	1 44	30 55	8 56	5 26	5 49	27 14		n.a.
S 28	20 59	15 12	3 31	20 3	0 42	24 42	1 35	7 6	0 28	2 25	1 21	22 55	0 29	24 2	0 20	4 28	1 45	30 54	8 56	5 28	5 50	27 13		n.a.
M29	21 10	20 4	4 13	20 31	0 48	24 30	1 26	6 53	0 27	2 22	1 21	22 55	0 29	24 2	0 20	4 28	1 45	30 54	8 55	5 32	5 51	27 12		n.a.
T 30	21 s22	24n 1	4n42	20 s59	0 s54	24 s19	1 s17	6 s39	0 s25	2n19	1n21	22 s56	0n29	24 s 2	0 s20	4n27	1n45	30 s54	8 s55	5 s37	5 s52	27n10		n.a.

Julian Day Number = 1651964.5, Delta T = 03h30m30s
Ecliptic obliquity = 23°43'15, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'38, Lahiri = - 6°34'37 Julian Calendar 1 Nov. 191 BCE == Greg. Calendar 29 Oct. 191 BCE

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ASTRODIENST EPHEMERIS for the year 191 BCE
geocentric

DECEMBER 191 BCE (-190) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 23 38	5♐55'35	8♊11	0♐17	13♑51	14♓44	27♍28	21♐ 9	28♐10	22♍54	20♑50	15°R41	15♓13	15♋56	n.a.	W 1
T 2	4 27 35	6°56'49	20°19	1°51	14°14	15°15	27°36	21°16	28°13	22°55	20°52	15♓26	15°10	16° 2	n.a.	T 2
F 3	4 31 32	7°58'04	2♋20	3°26	14°35	15°45	27°44	21°23	28°17	22°56	20°53	15°12	15° 7	16° 9	n.a.	F 3
S 4	4 35 28	8°59'18	14°15	5° 2	14°54	16°16	27°52	21°30	28°20	22°57	20°54	15° 0	15° 3	16°16	n.a.	S 4
S 5	4 39 25	10° 0'33	26° 5	6°37	15°11	16°47	28° 0	21°37	28°24	22°57	20°56	14°51	15° 0	16°23	n.a.	S 5
M 6	4 43 21	11° 1'47	7♌53	8°13	15°26	17°18	28° 7	21°44	28°27	22°58	20°57	14°44	14°57	16°29	n.a.	M 6
T 7	4 47 18	12° 3'01	19°45	9°50	15°39	17°50	28°15	21°51	28°30	22°59	20°59	14°40	14°54	16°36	n.a.	T 7
W 8	4 51 14	13° 4'16	1♍44	11°27	15°50	18°21	28°22	21°58	28°34	23° 0	21° 0	14°39	14°51	16°43	n.a.	W 8
T 9	4 55 11	14° 5'30	13°55	13° 4	15°58	18°53	28°29	22° 5	28°37	23° 0	21° 2	14°38	14°47	16°49	n.a.	T 9
F 10	4 59 7	15° 6'44	26°24	14°41	16° 4	19°24	28°36	22°12	28°41	23° 1	21° 3	14°38	14°44	16°56	n.a.	F 10
S 11	5 3 4	16° 7'58	9♎16	16°19	16° 8	19°56	28°43	22°20	28°44	23° 2	21° 5	14°37	14°41	17° 3	n.a.	S 11
S 12	5 7 1	17° 9'12	22°36	17°58	16°R 9	20°28	28°50	22°27	28°48	23° 2	21° 6	14°33	14°38	17° 9	n.a.	S 12
M13	5 10 57	18°10'26	6♏25	19°37	16° 7	21° 1	28°56	22°34	28°51	23° 3	21° 8	14°27	14°35	17°16	n.a.	M13
T 14	5 14 54	19°11'40	20°45	21°16	16° 4	21°33	29° 3	22°41	28°55	23° 3	21° 9	14°18	14°32	17°23	n.a.	T 14
W15	5 18 50	20°12'53	5♐30	22°56	15°57	22° 6	29° 9	22°48	28°58	23° 4	21°11	14° 7	14°28	17°30	n.a.	W15
T 16	5 22 47	21°14'06	20°34	24°37	15°49	22°38	29°15	22°55	29° 2	23° 4	21°12	13°55	14°25	17°36	n.a.	T 16
F 17	5 26 43	22°15'18	5♑47	26°18	15°37	23°11	29°21	23° 2	29° 5	23° 5	21°14	13°44	14°22	17°43	n.a.	F 17
S 18	5 30 40	23°16'30	20°58	27°59	15°23	23°44	29°27	23° 9	29° 9	23° 5	21°15	13°34	14°19	17°50	n.a.	S 18
S 19	5 34 37	24°17'40	5♒56	29°41	15° 7	24°17	29°33	23°16	29°12	23° 5	21°17	13°27	14°16	17°56	n.a.	S 19
M20	5 38 33	25°18'50	20°34	1♑23	14°48	24°50	29°38	23°23	29°16	23° 6	21°19	13°23	14°13	18° 3	n.a.	M20
T 21	5 42 30	26°19'59	4♓48	3° 5	14°27	25°23	29°43	23°30	29°19	23° 6	21°20	13°21	14° 9	18°10	n.a.	T 21
W22	5 46 26	27°21'06	18°38	4°48	14° 4	25°57	29°49	23°38	29°23	23° 6	21°22	13°D21	14° 6	18°16	n.a.	W22
T 23	5 50 23	28°22'12	2♈ 3	6°31	13°38	26°30	29°54	23°45	29°26	23° 6	21°24	13°R21	14° 3	18°23	n.a.	T 23
F 24	5 54 19	29°23'17	15° 8	8°15	13°11	27° 4	29°58	23°52	29°30	23° 7	21°25	13°20	14° 0	18°30	n.a.	F 24
S 25	5 58 16	0♑24'21	27°55	9°58	12°41	27°38	0♎ 3	23°59	29°34	23° 7	21°27	13°17	13°57	18°37	n.a.	S 25
S 26	6 2 12	1°25'24	10♉28	11°42	12°10	28°11	0° 8	24° 6	29°37	23° 7	21°29	13°11	13°53	18°43	n.a.	S 26
M27	6 6 9	2°26'25	22°49	13°25	11°37	28°45	0°12	24°13	29°41	23° 7	21°30	13° 2	13°50	18°50	n.a.	M27
T 28	6 10 6	3°27'26	5♊ 2	15° 9	11° 3	29°19	0°16	24°20	29°44	23° 7	21°32	12°51	13°47	18°57	n.a.	T 28
W29	6 14 2	4°28'25	17° 7	16°51	10°27	29°53	0°20	24°27	29°48	23°R 7	21°34	12°38	13°44	19° 3	n.a.	W29
T 30	6 17 59	5°29'23	29° 6	18°34	9°51	0♈27	0°24	24°34	29°51	23° 7	21°35	12°24	13°41	19°10	n.a.	T 30
F 31	6 21 55	6♑30'20	11♋ 1	20♑15	9♑14	1♈ 2	0♎28	24♐41	29♐55	23♍ 7	21♑37	12♓11	13♓38	19♋17	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	21s33	26n49	4n57	21s25	0s59	24s 7	1s 8	6s26	0s23	2n15	1n21	22s57	0n29	24s 2	0s20	4n27	1n45	30s53	8s55	5s43	5s54	27n 9			n.a.
T 2	21 43	28 19	4 58	21 50	1 5	23 55	0 58	6 12	0 21	2 12	1 21	22 57	0 29	24 2	0 20	4 27	1 45	30 53	8 55	5 48	5 55	27 8			n.a.
F 3	21 54	28 28	4 46	22 14	1 10	23 43	0 48	5 59	0 20	2 9	1 22	22 58	0 29	24 2	0 20	4 26	1 45	30 53	8 55	5 54	5 56	27 7			n.a.
S 4	22 3	27 17	4 22	22 38	1 16	23 30	0 38	5 45	0 18	2 6	1 22	22 58	0 29	24 2	0 20	4 26	1 45	30 52	8 55	5 59	5 57	27 5			n.a.
S 5	22 13	24 53	3 46	23 0	1 21	23 18	0 27	5 32	0 16	2 4	1 22	22 59	0 28	24 2	0 20	4 26	1 45	30 52	8 55	6 2	5 59	27 4			n.a.
M 6	22 22	21 25	3 1	23 21	1 26	23 5	0 16	5 18	0 15	2 1	1 22	22 59	0 28	24 2	0 20	4 26	1 45	30 52	8 55	6 5	6 0	27 3			n.a.
T 7	22 30	17 5	2 7	23 40	1 30	22 52	0 4	5 4	0 13	1 58	1 23	23 0	0 28	24 2	0 20	4 25	1 45	30 51	8 55	6 6	6 1	27 1			n.a.
W 8	22 38	12 2	1 8	23 59	1 35	22 39	0n 7	4 50	0 11	1 55	1 23	23 0	0 28	24 2	0 20	4 25	1 45	30 51	8 54	6 7	6 2	27 0			n.a.
T 9	22 46	6 28	0 4	24 16	1 39	22 26	0 20	4 36	0 10	1 53	1 23	23 1	0 28	24 2	0 20	4 25	1 45	30 51	8 54	6 7	6 3	26 59			n.a.
F 10	22 53	0 30	1s 2	24 32	1 43	22 12	0 33	4 22	0 8	1 50	1 23	23 1	0 28	24 2	0 20	4 25	1 45	30 50	8 54	6 7	6 5	26 57			n.a.
S 11	22 59	5s39	2 6	24 46	1 46	21 59	0 46	4 8	0 7	1 47	1 23	23 2	0 28	24 2	0 20	4 25	1 45	30 50	8 54	6 8	6 6	26 56			n.a.
S 12	23 6	11 46	3 6	24 59	1 49	21 45	0 59	3 54	0 5	1 45	1 24	23 2	0 28	24 2	0 20	4 24	1 45	30 50	8 54	6 9	6 7	26 55			n.a.
M13	23 11	17 33	3 57	25 11	1 52	21 32	1 13	3 40	0 4	1 43	1 24	23 3	0 28	24 3	0 20	4 24	1 45	30 49	8 54	6 11	6 8	26 53			n.a.
T 14	23 17	22 34	4 35	25 21	1 55	21 18	1 27	3 26	0 3	1 40	1 24	23 3	0 28	24 3	0 20	4 24	1 46	30 49	8 54	6 15	6 10	26 52			n.a.
W15	23 21	26 20	4 57	25 29	1 58	21 5	1 41	3 11	0 1	1 38	1 24	23 4	0 28	24 3	0 20	4 24	1 46	30 49	8 54	6 19	6 11	26 50			n.a.
T 16	23 26	28 20	4 58	25 36	2 0	20 51	1 56	2 57	0n 0	1 36	1 25	23 4	0 28	24 3	0 20	4 24	1 46	30 48	8 54	6 24	6 12	26 49			n.a.
F 17	23 29	28 14	4 38	25 41	2 1	20 38	2 10	2 43	0 1	1 33	1 25	23 5	0 28	24 3	0 20	4 24	1 46	30 48	8 54	6 28	6 13	26 48			n.a.
S 18	23 33	26 0	3 59	25 45	2 2	20 25	2 26	2 28	0 3	1 31	1 25	23 5	0 27	24 3	0 20	4 24	1 46	30 48	8 54	6 32	6 15	26 46			n.a.
S 19	23 36	21 59	3 4	25 46	2 3	20 11	2 41	2 14	0 4	1 29	1 25	23 5	0 27	24 3	0 20	4 23	1 46	30 47	8 54	6 35	6 16	26 45			n.a.
M20	23 38	16 39	1 57	25 46	2 4	19 58	2 56	2 0	0 5	1 27	1 26	23 6	0 27	24 3	0 20	4 23	1 46	30 47	8 54	6 36	6 17	26 43			n.a.
T 21	23 40	10 33	0 45	25 44	2 3	19 45	3 11	1 45	0 7	1 25	1 26	23 6	0 27	24 3	0 20	4 23	1 46	30 47	8 54	6 37	6 18	26 42			n.a.
W22	23 42	4 7	0n28	25 41	2 3	19 32	3 27	1 31	0 8	1 24	1 26	23 7	0 27	24 3	0 20	4 23	1 46	30 46	8 54	6 37	6 20	26 41			n.a.
T 23	23 43	2n19	1 37	25 35	2 2	19 20	3 42	1 16	0 9	1 22	1 26	23 7	0 27	24 3	0 20	4 23	1 46	30 46	8 54	6 37	6 21	26 39			n.a.
F 24	23 43	8 29	2 40	25 28	2 0	19 7	3 57	1 1	0 10	1 20	1 27	23 8	0 27	24 3	0 20	4 23	1 46	30 46	8 54	6 38	6 22	26 38			n.a.
S 25	23 43	14 9	3 33	25 18	1 58	18 55	4 12	0 47	0 11	1 18	1 27	23 8	0 27	24 3	0 20	4 23	1 46	30 46	8 54	6 39	6 23	26 36			n.a.
S 26	23 43	19 9	4 14	25 7	1 55	18 43	4 27	0 32	0 13	1 17	1 27	23 8	0 27	24 3	0 20	4 23	1 46	30 45	8 53	6 41	6 25	26 35			n.a.
M27	23 42	23 15	4 43	24 53	1 52	18 32	4 42	0 17	0 14	1 15	1 28	23 9	0 27	24 3	0 20	4 23	1 46	30 45	8 53	6 44	6 26	26 33			n.a.
T 28	23 40	26 17	4 59	24 38	1 48	18 21	4 56	0 3	0 15	1 14	1 28	23 9	0 27	24 3	0 20	4 23	1 46	30 45	8 53	6 49	6 27	26 32			n.a.
W29	23 39	28 4	5 0	24 21	1 43	18 10	5 9	0n12	0 16	1 13	1 28	23 9	0 27	24 3	0 20	4 23	1 47	30 44	8 53	6 54	6 28	26 30			n.a.
T 30	23 36	28 32	4 49	24 2	1 37	17 59	5 23	0 27	0 17	1 11	1 28	23 10	0 27	24 3	0 20	4 24	1 47	30 44	8 53	6 59	6 29	26 29			n.a.
F 31	23s33	27n39	4n25	23s41	1s31	17s49	5n35	0n41	0n18	1n10	1n29	23s10	0n27	24s 3	0s20	4n24	1n47	30s44	8s53	7s 4	6s31	26n27			n.a.

Julian Day Number = 1651994.5, Delta T = 03h30m29s
Ecliptic obliquity = 23°43'14, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'34, Lahiri = - 6°34'33 Julian Calendar 1 Dec. 191 BCE == Greg. Calendar 28 Nov. 191 BCE

The year -190 astronomical counting style corresponds to year 191 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 190 BCE
geocentric

JANUARY 190 BCE (-189) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 25 52	7♉31'16	22♋53	21♉55	8°R37	1♈36	0♎31	24♐48	29♐58	23°R 7	21♉39	12°R 0	13♓34	19♋23	n.a.	S 1
S 2	6 29 48	8°32'10	4♌42	23°34	8♉ 0	2°10	0°34	24°55	0♉ 2	23♍ 7	21°40	11♓51	13°31	19°30	n.a.	S 2
M 3	6 33 45	9°33'04	16°33	25°10	7°22	2°45	0°37	25° 2	0° 5	23° 7	21°42	11°45	13°28	19°37	n.a.	M 3
T 4	6 37 42	10°33'56	28°26	26°45	6°46	3°20	0°40	25° 9	0° 9	23° 6	21°44	11°42	13°25	19°44	n.a.	T 4
W 5	6 41 38	11°34'47	10♍26	28°16	6° 9	3°54	0°43	25°16	0°12	23° 6	21°46	11°D41	13°22	19°50	n.a.	W 5
T 6	6 45 35	12°35'37	22°37	29°44	5°34	4°29	0°46	25°23	0°16	23° 6	21°47	11°42	13°19	19°57	n.a.	T 6
F 7	6 49 31	13°36'26	5♎ 4	1♒ 9	5° 0	5° 4	0°48	25°30	0°19	23° 6	21°49	11°42	13°15	20° 4	n.a.	F 7
S 8	6 53 28	14°37'14	17°51	2°28	4°28	5°38	0°50	25°36	0°23	23° 5	21°51	11°R43	13°12	20°10	n.a.	S 8
S 9	6 57 24	15°38'01	1♏ 3	3°42	3°56	6°13	0°52	25°43	0°26	23° 5	21°53	11°41	13° 9	20°17	n.a.	S 9
M10	7 1 21	16°38'47	14°43	4°50	3°27	6°48	0°54	25°50	0°30	23° 4	21°54	11°38	13° 6	20°24	n.a.	M10
T 11	7 5 17	17°39'31	28°53	5°51	3° 0	7°23	0°56	25°57	0°33	23° 4	21°56	11°32	13° 3	20°30	n.a.	T 11
W12	7 9 14	18°40'15	13♐32	6°44	2°34	7°59	0°57	26° 4	0°37	23° 4	21°58	11°25	12°59	20°37	n.a.	W12
T 13	7 13 11	19°40'57	28°33	7°29	2°11	8°34	0°59	26°10	0°40	23° 3	22° 0	11°17	12°56	20°44	n.a.	T 13
F 14	7 17 7	20°41'38	13♑48	8° 5	1°50	9° 9	1° 0	26°17	0°43	23° 3	22° 2	11° 9	12°53	20°51	n.a.	F 14
S 15	7 21 4	21°42'17	29° 7	8°31	1°31	9°44	1° 1	26°24	0°47	23° 2	22° 3	11° 2	12°50	20°57	n.a.	S 15
S 16	7 25 0	22°42'54	14♒19	8°48	1°15	10°20	1° 1	26°30	0°50	23° 1	22° 5	10°57	12°47	21° 4	n.a.	S 16
M17	7 28 57	23°43'30	29°13	8°R54	1° 1	10°55	1° 2	26°37	0°53	23° 1	22° 7	10°54	12°44	21°11	n.a.	M17
T 18	7 32 53	24°44'04	13♓43	8°49	0°50	11°31	1° 2	26°43	0°57	23° 0	22° 9	10°D54	12°40	21°17	n.a.	T 18
W19	7 36 50	25°44'35	27°46	8°35	0°41	12° 6	1°R 2	26°50	1° 0	22°59	22°10	10°55	12°37	21°24	n.a.	W19
T 20	7 40 46	26°45'05	11♈22	8°10	0°34	12°42	1° 2	26°56	1° 3	22°59	22°12	10°56	12°34	21°31	n.a.	T 20
F 21	7 44 43	27°45'33	24°32	7°36	0°30	13°17	1° 2	27° 3	1° 7	22°58	22°14	10°R57	12°31	21°37	n.a.	F 21
S 22	7 48 40	28°45'59	7♉20	6°53	0°D29	13°53	1° 2	27° 9	1°10	22°57	22°16	10°56	12°28	21°44	n.a.	S 22
S 23	7 52 36	29°46'22	19°49	6° 3	0°30	14°29	1° 1	27°16	1°13	22°56	22°17	10°54	12°25	21°51	n.a.	S 23
M24	7 56 33	0♒46'44	2♊ 5	5° 7	0°33	15° 5	1° 0	27°22	1°16	22°56	22°19	10°50	12°21	21°57	n.a.	M24
T 25	8 0 29	1°47'04	14° 9	4° 6	0°39	15°40	0°59	27°28	1°19	22°55	22°21	10°45	12°18	22° 4	n.a.	T 25
W26	8 4 26	2°47'22	26° 7	3° 3	0°47	16°16	0°58	27°35	1°23	22°54	22°23	10°38	12°15	22°11	n.a.	W26
T 27	8 8 22	3°47'37	8♋ 0	1°58	0°57	16°52	0°57	27°41	1°26	22°53	22°24	10°31	12°12	22°18	n.a.	T 27
F 28	8 12 19	4°47'51	19°51	0°53	1° 9	17°28	0°55	27°47	1°29	22°52	22°26	10°24	12° 9	22°24	n.a.	F 28
S 29	8 16 15	5°48'03	1♌41	29♑51	1°23	18° 4	0°53	27°53	1°32	22°51	22°28	10°18	12° 5	22°31	n.a.	S 29
S 30	8 20 12	6°48'12	13°33	28°51	1°40	18°40	0°51	27°59	1°35	22°50	22°30	10°13	12° 2	22°38	n.a.	S 30
M31	8 24 9	7♒48'20	25♌28	27♑55	1♑58	19♈16	0♎49	28♐ 5	1♑38	22♍49	22♑31	10♓10	11♓59	22♋44	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s30	25n31	3n49	23s18	1s24	17s40	5n47	0n56	0n19	1n 9	1n29	23s11	0n26	24s 3	0s20	4n24	1n47	30s43	8s53	7s 8	6s32	26n26		n.a.
S 2	23 27	22 17	3 4	22 54	1 16	17 31	5 58	1 11	0 20	1 8	1 29	23 11	0 26	24 3	0 20	4 24	1 47	30 43	8 53	7 12	6 33	26 24		n.a.
M 3	23 22	18 7	2 10	22 28	1 8	17 22	6 9	1 26	0 21	1 7	1 29	23 11	0 26	24 3	0 20	4 24	1 47	30 43	8 53	7 14	6 34	26 23		n.a.
T 4	23 18	13 15	1 10	22 0	0 58	17 14	6 19	1 41	0 22	1 6	1 30	23 12	0 26	24 3	0 20	4 24	1 47	30 43	8 53	7 15	6 36	26 21		n.a.
W 5	23 13	7 51	0 7	21 32	0 48	17 7	6 28	1 55	0 23	1 5	1 30	23 12	0 26	24 3	0 20	4 24	1 47	30 42	8 53	7 16	6 37	26 20		n.a.
T 6	23 7	2 4	0s58	21 2	0 37	17 0	6 36	2 10	0 24	1 4	1 30	23 12	0 26	24 3	0 20	4 24	1 47	30 42	8 53	7 16	6 38	26 18		n.a.
F 7	23 1	3s54	2 2	20 32	0 25	16 54	6 44	2 25	0 25	1 3	1 30	23 12	0 26	24 3	0 20	4 25	1 47	30 42	8 54	7 15	6 39	26 17		n.a.
S 8	22 54	9 52	3 1	20 2	0 12	16 49	6 50	2 40	0 26	1 3	1 31	23 13	0 26	24 3	0 20	4 25	1 47	30 41	8 54	7 15	6 41	26 15		n.a.
S 9	22 48	15 36	3 53	19 31	0n 2	16 44	6 56	2 55	0 27	1 2	1 31	23 13	0 26	24 3	0 20	4 25	1 47	30 41	8 54	7 16	6 42	26 14		n.a.
M10	22 40	20 47	4 33	19 1	0 17	16 40	7 1	3 9	0 28	1 2	1 31	23 13	0 26	24 3	0 20	4 25	1 47	30 41	8 54	7 17	6 43	26 12		n.a.
T 11	22 32	25 0	4 59	18 31	0 32	16 36	7 5	3 24	0 29	1 1	1 32	23 14	0 26	24 3	0 20	4 25	1 47	30 41	8 54	7 19	6 44	26 10		n.a.
W12	22 24	27 45	5 6	18 2	0 48	16 34	7 8	3 39	0 30	1 1	1 32	23 14	0 26	24 3	0 20	4 26	1 47	30 40	8 54	7 22	6 45	26 9		n.a.
T 13	22 15	28 35	4 53	17 35	1 4	16 32	7 11	3 54	0 30	1 1	1 32	23 14	0 26	24 3	0 20	4 26	1 48	30 40	8 54	7 25	6 47	26 7		n.a.
F 14	22 6	27 17	4 18	17 10	1 21	16 30	7 12	4 9	0 31	1 1	1 32	23 14	0 26	24 3	0 20	4 26	1 48	30 40	8 54	7 28	6 48	26 6		n.a.
S 15	21 57	23 55	3 25	16 46	1 38	16 29	7 14	4 24	0 32	1 0	1 33	23 15	0 26	24 3	0 20	4 26	1 48	30 40	8 54	7 31	6 49	26 4		n.a.
S 16	21 47	18 56	2 18	16 26	1 55	16 29	7 14	4 38	0 33	1 0	1 33	23 15	0 26	24 3	0 20	4 27	1 48	30 39	8 54	7 33	6 50	26 2		n.a.
M17	21 37	12 52	1 3	16 8	2 11	16 29	7 14	4 53	0 34	1 0	1 33	23 15	0 26	24 3	0 20	4 27	1 48	30 39	8 54	7 34	6 52	26 1		n.a.
T 18	21 26	6 14	0n15	15 54	2 27	16 30	7 13	5 8	0 35	1 1	1 33	23 15	0 25	24 3	0 20	4 27	1 48	30 39	8 54	7 34	6 53	25 59		n.a.
W19	21 15	0n29	1 30	15 43	2 43	16 32	7 11	5 23	0 35	1 1	1 34	23 16	0 25	24 3	0 20	4 28	1 48	30 39	8 54	7 34	6 54	25 58		n.a.
T 20	21 3	6 57	2 37	15 35	2 57	16 34	7 9	5 38	0 36	1 1	1 34	23 16	0 25	24 3	0 20	4 28	1 48	30 38	8 54	7 33	6 55	25 56		n.a.
F 21	20 51	12 55	3 34	15 31	3 11	16 37	7 7	5 52	0 37	1 1	1 34	23 16	0 25	24 3	0 20	4 28	1 48	30 38	8 54	7 33	6 57	25 54		n.a.
S 22	20 39	18 11	4 18	15 30	3 22	16 40	7 4	6 7	0 38	1 2	1 35	23 16	0 25	24 3	0 20	4 29	1 48	30 38	8 54	7 33	6 58	25 53		n.a.
S 23	20 26	22 32	4 49	15 33	3 32	16 43	7 0	6 22	0 38	1 2	1 35	23 16	0 25	24 3	0 20	4 29	1 48	30 38	8 54	7 34	6 59	25 51		n.a.
M24	20 13	25 49	5 6	15 39	3 40	16 47	6 56	6 36	0 39	1 3	1 35	23 16	0 25	24 3	0 20	4 30	1 48	30 37	8 54	7 35	7 0	25 49		n.a.
T 25	20 0	27 53	5 9	15 48	3 46	16 51	6 52	6 51	0 40	1 3	1 35	23 17	0 25	24 3	0 20	4 30	1 48	30 37	8 55	7 37	7 1	25 48		n.a.
W26	19 46	28 38	4 59	15 59	3 50	16 56	6 47	7 6	0 40	1 4	1 36	23 17	0 25	24 3	0 20	4 30	1 48	30 37	8 55	7 40	7 3	25 46		n.a.
T 27	19 32	28 3	4 35	16 12	3 51	17 1	6 42	7 20	0 41	1 5	1 36	23 17	0 25	24 3	0 20	4 31	1 48	30 37	8 55	7 43	7 4	25 44		n.a.
F 28	19 17	26 11	4 0	16 27	3 50	17 6	6 37	7 35	0 42	1 6	1 36	23 17	0 25	24 3	0 20	4 31	1 48	30 37	8 55	7 45	7 5	25 43		n.a.
S 29	19 3	23 10	3 14	16 43	3 47	17 11	6 32	7 49	0 42	1 7	1 36	23 17	0 25	24 3	0 20	4 32	1 48	30 36	8 55	7 48	7 6	25 41		n.a.
S 30	18 47	19 11	2 20	17 1	3 42	17 17	6 26	8 4	0 43	1 8	1 37	23 17	0 25	24 3	0 20	4 32	1 48	30 36	8 55	7 49	7 8	25 39		n.a.
M31	18s32	14n25	1n19	17s18	3n35	17s22	6n20	8n18	0n44	1n 9	1n37	23s18	0n25	24s 3	0s20	4n32	1n49	30s36	8s55	7s51	7s 9	25n37		n.a.

Julian Day Number = 1652025.5, Delta T = 03h30m28s
Ecliptic obliquity = 23°43'14, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'29, Lahiri = - 6°34'29 Julian Calendar 1 Jan. 190 BCE == Greg. Calendar 29 Dec. 191 BCE

The year -189 astronomical counting style corresponds to year 190 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 190 BCE
geocentric

FEBRUARY 190 BCE (-189) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 28 5	8♒48'26	7♍29	27°R 5	2♑19	19♈52	0°R47	28♐11	1♑41	22°R48	22♑33	10°D 9	11♓56	22♋51	n.a.	T 1
W 2	8 32 2	9°48'30	19°37	26♑21	2°41	20°28	0♎45	28°17	1°44	22♍47	22°35	10♓10	11°53	22°58	n.a.	W 2
T 3	8 35 58	10°48'32	1♎56	25°42	3° 5	21° 4	0°42	28°23	1°47	22°46	22°36	10°11	11°50	23° 4	n.a.	T 3
F 4	8 39 55	11°48'33	14°28	25°11	3°31	21°40	0°39	28°29	1°50	22°45	22°38	10°13	11°46	23°11	n.a.	F 4
S 5	8 43 51	12°48'32	27°18	24°46	3°58	22°17	0°36	28°34	1°53	22°43	22°40	10°14	11°43	23°18	n.a.	S 5
S 6	8 47 48	13°48'29	10♏27	24°29	4°27	22°53	0°33	28°40	1°56	22°42	22°41	10°R15	11°40	23°24	n.a.	S 6
M 7	8 51 44	14°48'24	24° 0	24°18	4°58	23°29	0°30	28°46	1°59	22°41	22°43	10°15	11°37	23°31	n.a.	M 7
T 8	8 55 41	15°48'18	7♐58	24°D13	5°30	24° 5	0°26	28°51	2° 1	22°40	22°45	10°13	11°34	23°38	n.a.	T 8
W 9	8 59 38	16°48'10	22°20	24°15	6° 3	24°42	0°22	28°57	2° 4	22°39	22°46	10°11	11°31	23°45	n.a.	W 9
T 10	9 3 34	17°48'00	7♑ 4	24°23	6°38	25°18	0°18	29° 2	2° 7	22°37	22°48	10° 8	11°27	23°51	n.a.	T 10
F 11	9 7 31	18°47'48	22° 4	24°36	7°14	25°54	0°14	29° 8	2°10	22°36	22°50	10° 5	11°24	23°58	n.a.	F 11
S 12	9 11 27	19°47'35	7♒11	24°55	7°52	26°31	0°10	29°13	2°12	22°35	22°51	10° 2	11°21	24° 5	n.a.	S 12
S 13	9 15 24	20°47'19	22°17	25°19	8°30	27° 7	0° 6	29°19	2°15	22°34	22°53	10° 1	11°18	24°11	n.a.	S 13
M14	9 19 20	21°47'01	7♓12	25°48	9°10	27°44	0° 1	29°24	2°18	22°32	22°55	10°D 0	11°15	24°18	n.a.	M14
T 15	9 23 17	22°46'41	21°49	26°21	9°51	28°20	29♍56	29°29	2°20	22°31	22°56	10° 0	11°11	24°25	n.a.	T 15
W16	9 27 13	23°46'19	6♈ 1	26°59	10°33	28°57	29°52	29°34	2°23	22°29	22°58	10° 1	11° 8	24°31	n.a.	W16
T 17	9 31 10	24°45'54	19°47	27°40	11°16	29°33	29°47	29°39	2°25	22°28	22°59	10° 3	11° 5	24°38	n.a.	T 17
F 18	9 35 7	25°45'27	3♉ 6	28°25	12° 0	0♉10	29°41	29°44	2°28	22°27	23° 1	10° 4	11° 2	24°45	n.a.	F 18
S 19	9 39 3	26°44'57	16° 1	29°14	12°45	0°46	29°36	29°49	2°30	22°25	23° 2	10° 4	10°59	24°51	n.a.	S 19
S 20	9 43 0	27°44'25	28°34	0♒ 6	13°30	1°23	29°31	29°54	2°32	22°24	23° 4	10°R 5	10°56	24°58	n.a.	S 20
M21	9 46 56	28°43'51	10♊51	1° 1	14°17	1°59	29°25	29°59	2°35	22°22	23° 5	10° 4	10°52	25° 5	n.a.	M21
T 22	9 50 53	29°43'15	22°54	1°59	15° 4	2°36	29°19	0♑ 3	2°37	22°21	23° 7	10° 4	10°49	25°11	n.a.	T 22
W23	9 54 49	0♓42'36	4♋49	3° 0	15°53	3°13	29°14	0° 8	2°39	22°19	23° 8	10° 2	10°46	25°18	n.a.	W23
T 24	9 58 46	1°41'54	16°39	4° 3	16°42	3°49	29° 8	0°13	2°42	22°18	23°10	10° 1	10°43	25°25	n.a.	T 24
F 25	10 2 42	2°41'11	28°29	5° 9	17°31	4°26	29° 2	0°17	2°44	22°16	23°11	10° 0	10°40	25°32	n.a.	F 25
S 26	10 6 39	3°40'25	10♌21	6°17	18°22	5° 3	28°55	0°21	2°46	22°15	23°13	9°59	10°37	25°38	n.a.	S 26
S 27	10 10 36	4°39'36	22°17	7°27	19°13	5°39	28°49	0°26	2°48	22°13	23°14	9°59	10°33	25°45	n.a.	S 27
M28	10 14 32	5♓38'46	4♍21	8♒40	20♑ 5	6♉16	28♍43	0♑30	2♑50	22♍12	23♑15	9°D58	10♓30	25♋52	n.a.	M28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s16	9n 5	0n15	17s36	3n27	17s28	6n14	8n32	0n44	1n10	1n37	23s18	0n25	24s 3	0s20	4n33	1n49	30s36	8s55	7s51	7s10	25n36		n.a.
W 2	18 0	3 22	0s52	17 54	3 17	17 34	6 7	8 47	0 45	1 11	1 37	23 18	0 25	24 3	0 20	4 33	1 49	30 36	8 55	7 51	7 11	25 34		n.a.
T 3	17 44	2s33	1 57	18 12	3 7	17 40	6 1	9 1	0 46	1 13	1 38	23 18	0 25	24 3	0 20	4 34	1 49	30 36	8 56	7 50	7 12	25 32		n.a.
F 4	17 27	8 29	2 57	18 29	2 55	17 46	5 54	9 15	0 46	1 14	1 38	23 18	0 25	24 3	0 20	4 34	1 49	30 35	8 56	7 50	7 14	25 30		n.a.
S 5	17 10	14 12	3 50	18 46	2 43	17 52	5 47	9 30	0 47	1 15	1 38	23 18	0 25	24 3	0 20	4 35	1 49	30 35	8 56	7 49	7 15	25 29		n.a.
S 6	16 53	19 27	4 33	19 1	2 30	17 58	5 40	9 44	0 47	1 17	1 38	23 18	0 24	24 3	0 20	4 35	1 49	30 35	8 56	7 49	7 16	25 27		n.a.
M 7	16 35	23 52	5 2	19 16	2 16	18 4	5 33	9 58	0 48	1 18	1 39	23 18	0 24	24 3	0 20	4 36	1 49	30 35	8 56	7 49	7 17	25 25		n.a.
T 8	16 17	27 4	5 14	19 30	2 3	18 10	5 26	10 12	0 49	1 20	1 39	23 19	0 24	24 3	0 20	4 36	1 49	30 35	8 56	7 49	7 19	25 23		n.a.
W 9	15 59	28 37	5 7	19 43	1 49	18 16	5 19	10 26	0 49	1 22	1 39	23 19	0 24	24 3	0 20	4 37	1 49	30 35	8 56	7 50	7 20	25 22		n.a.
T 10	15 41	28 12	4 41	19 55	1 36	18 22	5 12	10 40	0 50	1 24	1 39	23 19	0 24	24 3	0 20	4 38	1 49	30 34	8 57	7 51	7 21	25 20		n.a.
F 11	15 22	25 44	3 54	20 6	1 22	18 27	5 5	10 54	0 50	1 25	1 40	23 19	0 24	24 2	0 20	4 38	1 49	30 34	8 57	7 53	7 22	25 18		n.a.
S 12	15 3	21 27	2 51	20 16	1 9	18 32	4 57	11 8	0 51	1 27	1 40	23 19	0 24	24 2	0 20	4 39	1 49	30 34	8 57	7 54	7 23	25 16		n.a.
S 13	14 44	15 46	1 36	20 24	0 56	18 37	4 50	11 22	0 51	1 29	1 40	23 19	0 24	24 2	0 20	4 39	1 49	30 34	8 57	7 54	7 25	25 14		n.a.
M14	14 25	9 12	0 15	20 31	0 43	18 42	4 43	11 35	0 52	1 31	1 40	23 19	0 24	24 2	0 20	4 40	1 49	30 34	8 57	7 54	7 26	25 13		n.a.
T 15	14 5	2 18	1n 5	20 37	0 31	18 47	4 35	11 49	0 52	1 33	1 40	23 19	0 24	24 2	0 20	4 40	1 49	30 34	8 57	7 54	7 27	25 11		n.a.
W16	13 45	4n32	2 19	20 42	0 19	18 51	4 28	12 3	0 53	1 35	1 41	23 19	0 24	24 2	0 20	4 41	1 49	30 34	8 58	7 54	7 28	25 9		n.a.
T 17	13 25	10 57	3 23	20 45	0 7	18 55	4 20	12 16	0 53	1 38	1 41	23 19	0 24	24 2	0 20	4 42	1 49	30 34	8 58	7 54	7 30	25 7		n.a.
F 18	13 5	16 39	4 13	20 47	0s 4	18 58	4 13	12 30	0 54	1 40	1 41	23 19	0 24	24 2	0 20	4 42	1 49	30 33	8 58	7 53	7 31	25 5		n.a.
S 19	12 45	21 26	4 49	20 48	0 15	19 2	4 5	12 43	0 54	1 42	1 41	23 19	0 24	24 2	0 20	4 43	1 49	30 33	8 58	7 53	7 32	25 4		n.a.
S 20	12 24	25 7	5 10	20 47	0 26	19 5	3 58	12 57	0 55	1 45	1 41	23 19	0 24	24 2	0 21	4 43	1 49	30 33	8 58	7 53	7 33	25 2		n.a.
M21	12 3	27 33	5 17	20 45	0 36	19 7	3 51	13 10	0 55	1 47	1 42	23 19	0 24	24 2	0 21	4 44	1 49	30 33	8 58	7 53	7 34	25 0		n.a.
T 22	11 42	28 40	5 9	20 41	0 46	19 10	3 43	13 23	0 56	1 49	1 42	23 19	0 24	24 2	0 21	4 45	1 49	30 33	8 59	7 53	7 36	24 58		n.a.
W23	11 21	28 25	4 48	20 36	0 55	19 11	3 36	13 36	0 56	1 52	1 42	23 20	0 24	24 2	0 21	4 45	1 49	30 33	8 59	7 54	7 37	24 56		n.a.
T 24	11 0	26 52	4 14	20 30	1 4	19 13	3 29	13 49	0 56	1 54	1 42	23 20	0 24	24 2	0 21	4 46	1 50	30 33	8 59	7 54	7 38	24 54		n.a.
F 25	10 38	24 8	3 30	20 22	1 12	19 14	3 21	14 2	0 57	1 57	1 42	23 20	0 24	24 2	0 21	4 46	1 50	30 33	8 59	7 54	7 39	24 52		n.a.
S 26	10 17	20 22	2 37	20 13	1 20	19 15	3 14	14 15	0 57	2 0	1 42	23 20	0 24	24 2	0 21	4 47	1 50	30 33	8 59	7 55	7 41	24 50		n.a.
S 27	9 55	15 46	1 37	20 2	1 27	19 15	3 7	14 28	0 58	2 2	1 42	23 20	0 24	24 2	0 21	4 48	1 50	30 33	9 0	7 55	7 42	24 49		n.a.
M28	9s33	10n31	0n31	19s49	1s34	19s14	2n59	14n41	0n58	2n 5	1n43	23s20	0n23	24s 2	0s21	4n48	1n50	30s33	9s 0	7s55	7s43	24n47		n.a.

Julian Day Number = 1652056.5, Delta T = 03h30m27s
Ecliptic obliquity = 23°43'14, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'25, Lahiri = - 6°34'25 Julian Calendar 1 Feb. 190 BCE == Greg. Calendar 29 Jan. 190 BCE

The year -189 astronomical counting style corresponds to year 190 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 190 BCE
geocentric

MARCH 190 BCE (-189) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 18 29	6♓37'53	16♍33	9♒54	20♑57	6♉53	28°R36	0♑34	2♑52	22°R10	23♑17	9♓58	10♓27	25♋58	n.a.	T 1
W 2	10 22 25	7°36'58	28°56	11°11	21°51	7°29	28♍29	0°38	2°54	22♍ 9	23°18	9°59	10°24	26° 5	n.a.	W 2
T 3	10 26 22	8°36'01	11♎31	12°29	22°44	8° 6	28°23	0°42	2°56	22° 7	23°19	9°59	10°21	26°12	n.a.	T 3
F 4	10 30 18	9°35'02	24°18	13°49	23°38	8°43	28°16	0°46	2°58	22° 5	23°21	9°R59	10°17	26°18	n.a.	F 4
S 5	10 34 15	10°34'02	7♏21	15°11	24°33	9°20	28° 9	0°50	3° 0	22° 4	23°22	9°59	10°14	26°25	n.a.	S 5
S 6	10 38 11	11°32'59	20°39	16°35	25°29	9°56	28° 2	0°54	3° 2	22° 2	23°23	9°59	10°11	26°32	n.a.	S 6
M 7	10 42 8	12°31'55	4♐13	18° 1	26°24	10°33	27°55	0°58	3° 3	22° 1	23°25	9°59	10° 8	26°38	n.a.	M 7
T 8	10 46 4	13°30'49	18° 6	19°28	27°21	11°10	27°48	1° 1	3° 5	21°59	23°26	9°D59	10° 5	26°45	n.a.	T 8
W 9	10 50 1	14°29'41	2♑14	20°57	28°18	11°47	27°40	1° 5	3° 7	21°57	23°27	9°59	10° 2	26°52	n.a.	W 9
T 10	10 53 58	15°28'31	16°39	22°28	29°15	12°24	27°33	1° 8	3° 8	21°56	23°28	9°59	9°58	26°58	n.a.	T 10
F 11	10 57 54	16°27'20	1♒15	24° 0	0♒13	13° 0	27°26	1°12	3°10	21°54	23°29	10° 0	9°55	27° 5	n.a.	F 11
S 12	11 1 51	17°26'06	15°58	25°34	1°11	13°37	27°18	1°15	3°11	21°53	23°31	10° 0	9°52	27°12	n.a.	S 12
S 13	11 5 47	18°24'51	0♓43	27° 9	2° 9	14°14	27°11	1°18	3°13	21°51	23°32	10° 1	9°49	27°18	n.a.	S 13
M14	11 9 44	19°23'33	15°22	28°46	3° 8	14°51	27° 3	1°21	3°14	21°49	23°33	10°R 1	9°46	27°25	n.a.	M14
T 15	11 13 40	20°22'14	29°48	0♓25	4° 7	15°28	26°56	1°24	3°16	21°48	23°34	10° 0	9°43	27°32	n.a.	T 15
W16	11 17 37	21°20'52	13♈57	2° 5	5° 7	16° 5	26°48	1°27	3°17	21°46	23°35	9°59	9°39	27°38	n.a.	W16
T 17	11 21 33	22°19'28	27°44	3°46	6° 7	16°42	26°40	1°30	3°18	21°44	23°36	9°58	9°36	27°45	n.a.	T 17
F 18	11 25 30	23°18'03	11♉ 7	5°30	7° 7	17°19	26°33	1°33	3°20	21°43	23°37	9°56	9°33	27°52	n.a.	F 18
S 19	11 29 27	24°16'34	24° 7	7°15	8° 8	17°55	26°25	1°36	3°21	21°41	23°38	9°54	9°30	27°59	n.a.	S 19
S 20	11 33 23	25°15'04	6♊45	9° 1	9° 9	18°32	26°17	1°38	3°22	21°39	23°39	9°53	9°27	28° 5	n.a.	S 20
M21	11 37 20	26°13'32	19° 5	10°49	10°10	19° 9	26°10	1°41	3°23	21°38	23°40	9°52	9°23	28°12	n.a.	M21
T 22	11 41 16	27°11'57	1♋10	12°39	11°12	19°46	26° 2	1°43	3°24	21°36	23°41	9°D52	9°20	28°19	n.a.	T 22
W23	11 45 13	28°10'20	13° 5	14°30	12°13	20°23	25°54	1°45	3°25	21°35	23°42	9°53	9°17	28°25	n.a.	W23
T 24	11 49 9	29° 8'41	24°56	16°23	13°15	21° 0	25°47	1°48	3°26	21°33	23°43	9°54	9°14	28°32	n.a.	T 24
F 25	11 53 6	0♈ 7'00	6♌46	18°18	14°18	21°37	25°39	1°50	3°27	21°31	23°44	9°55	9°11	28°39	n.a.	F 25
S 26	11 57 2	1° 5'16	18°40	20°14	15°20	22°14	25°31	1°52	3°28	21°30	23°45	9°57	9° 8	28°45	n.a.	S 26
S 27	12 0 59	2° 3'31	0♍42	22°12	16°23	22°51	25°24	1°54	3°29	21°28	23°46	9°58	9° 4	28°52	n.a.	S 27
M28	12 4 55	3° 1'43	12°54	24°12	17°26	23°28	25°16	1°56	3°30	21°26	23°46	9°R58	9° 1	28°59	n.a.	M28
T 29	12 8 52	3°59'53	25°20	26°13	18°30	24° 5	25° 9	1°57	3°30	21°25	23°47	9°57	8°58	29° 5	n.a.	T 29
W30	12 12 49	4°58'02	8♎ 1	28°15	19°33	24°42	25° 1	1°59	3°31	21°23	23°48	9°55	8°55	29°12	n.a.	W30
T 31	12 16 45	5♈56'09	20♎56	0♈19	20♒37	25♉19	24♍54	2♑ 1	3♑32	21♍22	23♑49	9♓52	8♓52	29♋19	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	9s11	4n48	0s36	19s36	1s41	19s14	2n52	14n53	0n58	2n 8	1n43	23s20	0n23	24s 2	0s21	4n49	1n50	30s33	9s 0	7s55	7s44	24n45			n.a.
W 2	8 49	1s 9	1 43	19 20	1 47	19 12	2 45	15 6	0 59	2 11	1 43	23 20	0 23	24 2	0 21	4 50	1 50	30 33	9 0	7 55	7 45	24 43			n.a.
T 3	8 26	7 9	2 46	19 3	1 53	19 11	2 38	15 18	0 59	2 13	1 43	23 20	0 23	24 2	0 21	4 50	1 50	30 33	9 1	7 55	7 47	24 41			n.a.
F 4	8 4	12 58	3 42	18 45	1 58	19 9	2 31	15 31	1 0	2 16	1 43	23 20	0 23	24 2	0 21	4 51	1 50	30 33	9 1	7 55	7 48	24 39			n.a.
S 5	7 42	18 20	4 27	18 25	2 2	19 6	2 24	15 43	1 0	2 19	1 43	23 20	0 23	24 2	0 21	4 52	1 50	30 33	9 1	7 55	7 49	24 37			n.a.
S 6	7 19	22 56	5 0	18 3	2 7	19 3	2 17	15 55	1 0	2 22	1 43	23 20	0 23	24 2	0 21	4 52	1 50	30 33	9 1	7 55	7 50	24 35			n.a.
M 7	6 56	26 24	5 16	17 40	2 10	18 59	2 10	16 7	1 1	2 25	1 43	23 20	0 23	24 2	0 21	4 53	1 50	30 33	9 1	7 55	7 51	24 33			n.a.
T 8	6 33	28 24	5 14	17 16	2 14	18 55	2 4	16 19	1 1	2 28	1 43	23 20	0 23	24 2	0 21	4 54	1 50	30 33	9 2	7 55	7 53	24 31			n.a.
W 9	6 10	28 36	4 54	16 50	2 16	18 50	1 57	16 31	1 1	2 31	1 44	23 20	0 23	24 2	0 21	4 54	1 50	30 33	9 2	7 55	7 54	24 29			n.a.
T 10	5 47	26 53	4 15	16 22	2 19	18 45	1 50	16 43	1 2	2 34	1 44	23 20	0 23	24 2	0 21	4 55	1 50	30 33	9 2	7 55	7 55	24 27			n.a.
F 11	5 24	23 21	3 19	15 53	2 20	18 39	1 44	16 55	1 2	2 37	1 44	23 20	0 23	24 2	0 21	4 56	1 50	30 33	9 2	7 55	7 56	24 25			n.a.
S 12	5 1	18 18	2 9	15 22	2 22	18 33	1 37	17 6	1 2	2 40	1 44	23 20	0 23	24 2	0 21	4 56	1 50	30 33	9 3	7 54	7 58	24 23			n.a.
S 13	4 38	12 9	0 51	14 50	2 22	18 26	1 31	17 18	1 3	2 43	1 44	23 20	0 23	24 2	0 21	4 57	1 50	30 33	9 3	7 54	7 59	24 21			n.a.
M14	4 15	5 23	0n30	14 16	2 23	18 19	1 25	17 29	1 3	2 46	1 44	23 20	0 23	24 2	0 21	4 58	1 50	30 33	9 3	7 54	8 0	24 19			n.a.
T 15	3 52	1n34	1 48	13 40	2 22	18 11	1 18	17 40	1 3	2 49	1 44	23 20	0 23	24 2	0 21	4 58	1 50	30 33	9 3	7 54	8 1	24 17			n.a.
W16	3 28	8 17	2 57	13 3	2 22	18 3	1 12	17 51	1 4	2 52	1 44	23 20	0 23	24 2	0 21	4 59	1 50	30 33	9 4	7 55	8 2	24 15			n.a.
T 17	3 5	14 26	3 55	12 25	2 20	17 54	1 6	18 2	1 4	2 55	1 44	23 20	0 23	24 2	0 21	5 0	1 50	30 33	9 4	7 55	8 4	24 13			n.a.
F 18	2 41	19 43	4 37	11 45	2 18	17 44	1 0	18 13	1 4	2 59	1 44	23 20	0 23	24 2	0 21	5 0	1 50	30 33	9 4	7 56	8 5	24 11			n.a.
S 19	2 18	23 56	5 4	11 3	2 16	17 34	0 54	18 24	1 4	3 2	1 44	23 20	0 23	24 2	0 21	5 1	1 50	30 33	9 4	7 57	8 6	24 9			n.a.
S 20	1 55	26 52	5 16	10 20	2 13	17 24	0 48	18 35	1 5	3 5	1 44	23 20	0 23	24 2	0 21	5 2	1 50	30 33	9 5	7 57	8 7	24 7			n.a.
M21	1 31	28 27	5 12	9 36	2 10	17 13	0 43	18 45	1 5	3 8	1 44	23 20	0 23	24 2	0 21	5 2	1 50	30 33	9 5	7 58	8 8	24 5			n.a.
T 22	1 8	28 38	4 55	8 49	2 6	17 2	0 37	18 56	1 5	3 11	1 44	23 20	0 23	24 2	0 21	5 3	1 50	30 33	9 5	7 58	8 10	24 3			n.a.
W23	0 44	27 27	4 25	8 2	2 2	16 50	0 31	19 6	1 6	3 14	1 44	23 20	0 23	24 2	0 21	5 4	1 50	30 33	9 6	7 57	8 11	24 1			n.a.
T 24	0 21	25 4	3 44	7 13	1 57	16 37	0 26	19 16	1 6	3 17	1 44	23 20	0 22	24 2	0 21	5 4	1 50	30 34	9 6	7 57	8 12	23 59			n.a.
F 25	0n 3	21 35	2 53	6 23	1 51	16 24	0 20	19 27	1 6	3 20	1 44	23 20	0 22	24 2	0 21	5 5	1 50	30 34	9 6	7 56	8 13	23 57			n.a.
S 26	0 26	17 13	1 55	5 31	1 45	16 11	0 15	19 37	1 6	3 23	1 44	23 20	0 22	24 2	0 21	5 5	1 50	30 34	9 6	7 56	8 14	23 55			n.a.
S 27	0 50	12 9	0 51	4 38	1 38	15 57	0 10	19 46	1 7	3 26	1 44	23 20	0 22	24 2	0 21	5 6	1 50	30 34	9 7	7 55	8 16	23 53			n.a.
M28	1 13	6 33	0s16	3 44	1 31	15 43	0 5	19 56	1 7	3 29	1 44	23 20	0 22	24 2	0 21	5 7	1 50	30 34	9 7	7 55	8 17	23 51			n.a.
T 29	1 36	0 36	1 24	2 48	1 24	15 28	0s 0	20 6	1 7	3 32	1 44	23 20	0 22	24 2	0 21	5 7	1 50	30 34	9 7	7 55	8 18	23 49			n.a.
W30	2 0	5s29	2 28	1 52	1 16	15 13	0 5	20 15	1 7	3 35	1 44	23 20	0 22	24 2	0 21	5 8	1 50	30 34	9 7	7 56	8 19	23 47			n.a.
T 31	2n23	11s26	3s26	0s54	1s 7	14s57	0s10	20n24	1n 7	3n38	1n43	23s20	0n22	24s 2	0s21	5n 9	1n50	30s34	9s 8	7s57	8s20	23n44			n.a.

Julian Day Number = 1652084.5, Delta T = 03h30m27s
Ecliptic obliquity = 23°43'15, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'21, Lahiri = - 6°34'21 Julian Calendar 1 March 190 BCE == Greg. Calendar 26 Feb. 190 BCE

The year -189 astronomical counting style corresponds to year 190 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 190 BCE
geocentric

APRIL 190 BCE (-189) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 20 42	6♈54'13	4♏ 6	2♈24	21♒41	25♉56	24°R46	2♑ 2	3♑32	21°R20	23♑49	9°R48	8♓48	29♋25	n.a.	F 1
S 2	12 24 38	7°52'17	17°31	4°31	22°45	26°33	24♍39	2° 3	3°33	21♍19	23°50	9♓44	8°45	29°32	n.a.	S 2
S 3	12 28 35	8°50'19	1♐ 8	6°38	23°50	27°10	24°32	2° 5	3°33	21°17	23°51	9°40	8°42	29°39	n.a.	S 3
M 4	12 32 31	9°48'19	14°56	8°46	24°54	27°47	24°25	2° 6	3°34	21°15	23°51	9°37	8°39	29°45	n.a.	M 4
T 5	12 36 28	10°46'18	28°53	10°56	25°59	28°24	24°17	2° 7	3°34	21°14	23°52	9°35	8°36	29°52	n.a.	T 5
W 6	12 40 24	11°44'16	12♑59	13° 5	27° 4	29° 1	24°10	2° 8	3°34	21°12	23°53	9°D34	8°33	29°59	n.a.	W 6
T 7	12 44 21	12°42'12	27°11	15°15	28° 9	29°38	24° 3	2° 9	3°35	21°11	23°53	9°35	8°29	0♌ 5	n.a.	T 7
F 8	12 48 18	13°40'07	11♒27	17°25	29°15	0♊15	23°57	2°10	3°35	21° 9	23°54	9°36	8°26	0°12	n.a.	F 8
S 9	12 52 14	14°38'01	25°46	19°35	0♓20	0°52	23°50	2°10	3°35	21° 8	23°54	9°38	8°23	0°19	n.a.	S 9
S 10	12 56 11	15°35'53	10♓ 4	21°44	1°26	1°29	23°43	2°11	3°35	21° 6	23°55	9°R38	8°20	0°25	n.a.	S 10
M11	13 0 7	16°33'43	24°17	23°53	2°32	2° 6	23°36	2°12	3°35	21° 5	23°55	9°37	8°17	0°32	n.a.	M11
T 12	13 4 4	17°31'32	8♈22	26° 0	3°38	2°43	23°30	2°12	3°R35	21° 4	23°56	9°35	8°14	0°39	n.a.	T 12
W13	13 8 0	18°29'20	22°14	28° 6	4°44	3°21	23°23	2°12	3°35	21° 2	23°56	9°30	8°10	0°45	n.a.	W13
T 14	13 11 57	19°27'06	5♉50	0♉10	5°50	3°58	23°17	2°13	3°35	21° 1	23°56	9°25	8° 7	0°52	n.a.	T 14
F 15	13 15 53	20°24'51	19° 7	2°12	6°57	4°35	23°11	2°13	3°35	20°59	23°57	9°18	8° 4	0°59	n.a.	F 15
S 16	13 19 50	21°22'34	2♊ 3	4°13	8° 4	5°12	23° 5	2°R13	3°35	20°58	23°57	9°11	8° 1	1° 5	n.a.	S 16
S 17	13 23 47	22°20'15	14°41	6°10	9°10	5°49	22°59	2°13	3°35	20°57	23°58	9° 5	7°58	1°12	n.a.	S 17
M18	13 27 43	23°17'55	27° 1	8° 6	10°17	6°26	22°53	2°12	3°34	20°55	23°58	9° 0	7°54	1°19	n.a.	M18
T 19	13 31 40	24°15'33	9♋ 7	9°59	11°24	7° 3	22°48	2°12	3°34	20°54	23°58	8°57	7°51	1°26	n.a.	T 19
W20	13 35 36	25°13'10	21° 3	11°49	12°31	7°40	22°42	2°12	3°34	20°53	23°58	8°D55	7°48	1°32	n.a.	W20
T 21	13 39 33	26°10'45	2♌53	13°36	13°38	8°17	22°37	2°11	3°33	20°51	23°59	8°55	7°45	1°39	n.a.	T 21
F 22	13 43 29	27° 8'18	14°44	15°20	14°46	8°55	22°31	2°11	3°33	20°50	23°59	8°56	7°42	1°46	n.a.	F 22
S 23	13 47 26	28° 5'50	26°40	17° 1	15°53	9°32	22°26	2°10	3°32	20°49	23°59	8°58	7°39	1°52	n.a.	S 23
S 24	13 51 22	29° 3'20	8♍45	18°39	17° 1	10° 9	22°21	2° 9	3°32	20°48	23°59	8°R58	7°35	1°59	n.a.	S 24
M25	13 55 19	0♉ 0'49	21° 5	20°14	18° 8	10°46	22°16	2° 8	3°31	20°47	23°59	8°58	7°32	2° 6	n.a.	M25
T 26	13 59 16	0°58'17	3♎42	21°46	19°16	11°23	22°12	2° 8	3°30	20°45	23°59	8°55	7°29	2°12	n.a.	T 26
W27	14 3 12	1°55'43	16°38	23°15	20°24	12° 0	22° 7	2° 7	3°30	20°44	23°59	8°50	7°26	2°19	n.a.	W27
T 28	14 7 9	2°53'08	29°54	24°40	21°32	12°37	22° 3	2° 5	3°29	20°43	23°59	8°43	7°23	2°26	n.a.	T 28
F 29	14 11 5	3°50'32	13♏29	26° 2	22°40	13°15	21°59	2° 4	3°28	20°42	23°R59	8°34	7°19	2°32	n.a.	F 29
S 30	14 15 2	4♉47'54	27♏20	27♉21	23♓48	13♊52	21♍54	2♑ 3	3♑27	20♍41	23♑59	8♓25	7♓16	2♌39	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	2n46	17s 1	4s14	0n 5	0s58	14s40	0s15	20n34	1n 8	3n41	1n43	23s20	0n22	24s 2	0s22	5n 9	1n50	30s35	9s 8	7s59	8s22	23n42		n.a.
S 2	3 9	21 53	4 50	1 4	0 49	14 24	0 19	20 43	1 8	3 44	1 43	23 20	0 22	24 2	0 22	5 10	1 50	30 35	9 8	8 1	8 23	23 40		n.a.
S 3	3 33	25 40	5 9	2 4	0 39	14 7	0 24	20 52	1 8	3 46	1 43	23 20	0 22	24 2	0 22	5 10	1 50	30 35	9 9	8 2	8 24	23 38		n.a.
M 4	3 56	28 1	5 11	3 4	0 29	13 49	0 28	21 0	1 8	3 49	1 43	23 20	0 22	24 2	0 22	5 11	1 50	30 35	9 9	8 3	8 25	23 36		n.a.
T 5	4 19	28 38	4 55	4 5	0 19	13 31	0 33	21 9	1 8	3 52	1 43	23 20	0 22	24 2	0 22	5 12	1 50	30 35	9 9	8 4	8 27	23 34		n.a.
W 6	4 42	27 25	4 21	5 6	0 9	13 12	0 37	21 17	1 9	3 55	1 43	23 20	0 22	24 2	0 22	5 12	1 50	30 35	9 10	8 4	8 28	23 32		n.a.
T 7	5 4	24 25	3 31	6 6	0n 2	12 54	0 41	21 26	1 9	3 57	1 43	23 20	0 22	24 2	0 22	5 13	1 50	30 36	9 10	8 4	8 29	23 30		n.a.
F 8	5 27	19 55	2 28	7 7	0 13	12 34	0 45	21 34	1 9	4 0	1 43	23 20	0 22	24 2	0 22	5 13	1 50	30 36	9 10	8 3	8 30	23 27		n.a.
S 9	5 50	14 15	1 15	8 6	0 23	12 15	0 49	21 42	1 9	4 3	1 42	23 20	0 22	24 2	0 22	5 14	1 50	30 36	9 10	8 3	8 31	23 25		n.a.
S 10	6 13	7 51	0n 2	9 5	0 34	11 55	0 53	21 50	1 9	4 5	1 42	23 20	0 22	24 2	0 22	5 15	1 50	30 36	9 11	8 3	8 33	23 23		n.a.
M11	6 35	1 5	1 19	10 3	0 44	11 34	0 56	21 58	1 10	4 8	1 42	23 20	0 22	24 2	0 22	5 15	1 50	30 36	9 11	8 3	8 34	23 21		n.a.
T 12	6 57	5n39	2 30	11 0	0 55	11 13	1 0	22 5	1 10	4 10	1 42	23 21	0 22	24 2	0 22	5 16	1 50	30 37	9 11	8 4	8 35	23 19		n.a.
W13	7 20	12 0	3 31	11 55	1 5	10 52	1 4	22 13	1 10	4 12	1 42	23 21	0 22	24 2	0 22	5 16	1 50	30 37	9 12	8 6	8 36	23 17		n.a.
T 14	7 42	17 40	4 18	12 49	1 14	10 31	1 7	22 20	1 10	4 15	1 42	23 21	0 22	24 2	0 22	5 17	1 50	30 37	9 12	8 8	8 37	23 14		n.a.
F 15	8 4	22 21	4 50	13 41	1 23	10 9	1 10	22 27	1 10	4 17	1 41	23 21	0 21	24 2	0 22	5 17	1 50	30 37	9 12	8 11	8 39	23 12		n.a.
S 16	8 26	25 49	5 7	14 31	1 32	9 47	1 14	22 34	1 10	4 19	1 41	23 21	0 21	24 2	0 22	5 18	1 50	30 37	9 13	8 13	8 40	23 10		n.a.
S 17	8 48	27 55	5 8	15 18	1 40	9 24	1 17	22 41	1 11	4 22	1 41	23 21	0 21	24 2	0 22	5 18	1 50	30 38	9 13	8 16	8 41	23 8		n.a.
M18	9 9	28 35	4 54	16 4	1 48	9 2	1 20	22 48	1 11	4 24	1 41	23 21	0 21	24 2	0 22	5 19	1 50	30 38	9 13	8 17	8 42	23 6		n.a.
T 19	9 31	27 51	4 28	16 47	1 55	8 38	1 22	22 54	1 11	4 26	1 41	23 21	0 21	24 2	0 22	5 19	1 49	30 38	9 13	8 19	8 43	23 3		n.a.
W20	9 52	25 50	3 50	17 28	2 1	8 15	1 25	23 1	1 11	4 28	1 40	23 21	0 21	24 2	0 22	5 20	1 49	30 38	9 14	8 19	8 45	23 1		n.a.
T 21	10 13	22 42	3 2	18 7	2 6	7 51	1 28	23 7	1 11	4 30	1 40	23 21	0 21	24 2	0 22	5 20	1 49	30 39	9 14	8 19	8 46	22 59		n.a.
F 22	10 34	18 38	2 7	18 43	2 11	7 27	1 31	23 13	1 11	4 32	1 40	23 21	0 21	24 2	0 22	5 21	1 49	30 39	9 14	8 19	8 47	22 57		n.a.
S 23	10 55	13 48	1 6	19 17	2 15	7 3	1 33	23 19	1 11	4 34	1 40	23 21	0 21	24 2	0 22	5 21	1 49	30 39	9 15	8 18	8 48	22 55		n.a.
S 24	11 16	8 24	0 1	19 48	2 19	6 39	1 35	23 25	1 11	4 35	1 40	23 21	0 21	24 2	0 22	5 22	1 49	30 39	9 15	8 18	8 49	22 52		n.a.
M25	11 36	2 35	1s 5	20 17	2 21	6 14	1 38	23 30	1 12	4 37	1 39	23 21	0 21	24 3	0 22	5 22	1 49	30 40	9 15	8 18	8 51	22 50		n.a.
T 26	11 57	3s27	2 9	20 43	2 23	5 49	1 40	23 36	1 12	4 39	1 39	23 21	0 21	24 3	0 22	5 23	1 49	30 40	9 16	8 19	8 52	22 48		n.a.
W27	12 17	9 30	3 8	21 7	2 24	5 24	1 42	23 41	1 12	4 40	1 39	23 21	0 21	24 3	0 22	5 23	1 49	30 40	9 16	8 21	8 53	22 46		n.a.
T 28	12 37	15 17	3 58	21 29	2 24	4 59	1 44	23 46	1 12	4 42	1 39	23 21	0 21	24 3	0 22	5 23	1 49	30 41	9 16	8 24	8 54	22 43		n.a.
F 29	12 57	20 27	4 37	21 49	2 23	4 33	1 46	23 51	1 12	4 43	1 38	23 22	0 21	24 3	0 22	5 24	1 49	30 41	9 16	8 27	8 55	22 41		n.a.
S 30	13n16	24s38	4s59	22n 6	2n22	4s 8	1s47	23n55	1n12	4n45	1n38	23s22	0n21	24s 3	0s22	5n24	1n49	30s41	9s17	8s30	8s56	22n39		n.a.

Julian Day Number = 1652115.5, Delta T = 03h30m26s
Ecliptic obliquity = 23°43'15, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'17, Lahiri = - 6°34'17 Julian Calendar 1 Apr. 190 BCE == Greg. Calendar 29 March 190 BCE

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ASTRODIENST EPHEMERIS for the year 190 BCE
geocentric

MAY 190 BCE (-189) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 18 58	5♉45'16	11♐22	28♉36	24♓57	14♊29	21°R51	2°R 1	3°R26	20°R40	23°R59	8°R17	7♓13	2♌46	n.a.	S 1
M 2	14 22 55	6°42'38	25°33	29°48	26° 5	15° 6	21♍47	2♑ 0	3♑25	20♍39	23♑59	8♓10	7°10	2°52	n.a.	M 2
T 3	14 26 51	7°39'58	9♑46	0♊57	27°13	15°43	21°43	1°58	3°24	20°38	23°59	8° 4	7° 7	2°59	n.a.	T 3
W 4	14 30 48	8°37'18	24° 0	2° 2	28°22	16°21	21°40	1°57	3°23	20°37	23°59	8° 1	7° 4	3° 6	n.a.	W 4
T 5	14 34 45	9°34'37	8♒11	3° 3	29°31	16°58	21°37	1°55	3°22	20°36	23°59	8°D 1	7° 0	3°12	n.a.	T 5
F 6	14 38 41	10°31'56	22°18	4° 1	0♈39	17°35	21°34	1°53	3°21	20°35	23°59	8° 1	6°57	3°19	n.a.	F 6
S 7	14 42 38	11°29'14	6♓19	4°55	1°48	18°12	21°31	1°51	3°20	20°34	23°58	8°R 1	6°54	3°26	n.a.	S 7
S 8	14 46 34	12°26'31	20°15	5°45	2°57	18°49	21°28	1°49	3°19	20°33	23°58	8° 1	6°51	3°32	n.a.	S 8
M 9	14 50 31	13°23'47	4♈ 3	6°31	4° 6	19°27	21°25	1°47	3°18	20°32	23°58	7°58	6°48	3°39	n.a.	M 9
T 10	14 54 27	14°21'04	17°42	7°14	5°15	20° 4	21°23	1°45	3°16	20°31	23°58	7°53	6°45	3°46	n.a.	T 10
W11	14 58 24	15°18'19	1♉11	7°52	6°24	20°41	21°21	1°43	3°15	20°31	23°57	7°45	6°41	3°52	n.a.	W11
T 12	15 2 20	16°15'34	14°27	8°26	7°34	21°18	21°19	1°40	3°14	20°30	23°57	7°35	6°38	3°59	n.a.	T 12
F 13	15 6 17	17°12'48	27°29	8°56	8°43	21°56	21°17	1°38	3°12	20°29	23°57	7°24	6°35	4° 6	n.a.	F 13
S 14	15 10 14	18°10'02	10♊15	9°21	9°52	22°33	21°15	1°35	3°11	20°28	23°56	7°12	6°32	4°12	n.a.	S 14
S 15	15 14 10	19° 7'15	22°45	9°42	11° 2	23°10	21°14	1°33	3° 9	20°28	23°56	7° 1	6°29	4°19	n.a.	S 15
M16	15 18 7	20° 4'27	5♋ 1	9°59	12°11	23°48	21°13	1°30	3° 8	20°27	23°56	6°52	6°25	4°26	n.a.	M16
T 17	15 22 3	21° 1'39	17° 4	10°11	13°21	24°25	21°11	1°27	3° 6	20°27	23°55	6°45	6°22	4°32	n.a.	T 17
W18	15 26 0	21°58'50	28°59	10°18	14°31	25° 2	21°10	1°24	3° 5	20°26	23°55	6°40	6°19	4°39	n.a.	W18
T 19	15 29 56	22°56'00	10♌48	10°R21	15°40	25°40	21°10	1°21	3° 3	20°25	23°54	6°38	6°16	4°46	n.a.	T 19
F 20	15 33 53	23°53'09	22°38	10°20	16°50	26°17	21° 9	1°18	3° 1	20°25	23°54	6°D38	6°13	4°52	n.a.	F 20
S 21	15 37 49	24°50'18	4♍33	10°14	18° 0	26°54	21° 9	1°15	3° 0	20°24	23°53	6°R38	6°10	4°59	n.a.	S 21
S 22	15 41 46	25°47'26	16°39	10° 3	19°10	27°32	21° 9	1°12	2°58	20°24	23°53	6°37	6° 6	5° 6	n.a.	S 22
M23	15 45 43	26°44'33	29° 2	9°48	20°20	28° 9	21°D 9	1° 9	2°56	20°23	23°52	6°36	6° 3	5°12	n.a.	M23
T 24	15 49 39	27°41'40	11♎45	9°30	21°30	28°46	21° 9	1° 6	2°54	20°23	23°51	6°32	6° 0	5°19	n.a.	T 24
W25	15 53 36	28°38'46	24°51	9° 7	22°40	29°24	21° 9	1° 2	2°53	20°23	23°51	6°26	5°57	5°26	n.a.	W25
T 26	15 57 32	29°35'52	8♏22	8°42	23°50	0♋ 1	21° 9	0°59	2°51	20°22	23°50	6°17	5°54	5°32	n.a.	T 26
F 27	16 1 29	0♊32'57	22°16	8°13	25° 1	0°38	21°10	0°56	2°49	20°22	23°49	6° 6	5°51	5°39	n.a.	F 27
S 28	16 5 25	1°30'03	6♐31	7°42	26°11	1°16	21°11	0°52	2°47	20°22	23°49	5°55	5°47	5°46	n.a.	S 28
S 29	16 9 22	2°27'08	20°59	7° 8	27°21	1°53	21°12	0°48	2°45	20°21	23°48	5°44	5°44	5°52	n.a.	S 29
M30	16 13 19	3°24'14	5♑35	6°34	28°32	2°31	21°13	0°45	2°43	20°21	23°47	5°34	5°41	5°59	n.a.	M30
T 31	16 17 15	4♊21'19	20♑12	5♊58	29♈42	3♋ 8	21♍15	0♑41	2♑41	20♍21	23♑47	5♓27	5♓38	6♌ 6	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	13n36	27s26	5s 4	22n21	2n20	3s42	1s49	24n 0	1n12	4n46	1n38	23s22	0n21	24s 3	0s22	5n25	1n49	30s41	9s17	8s34	8s58	22n37			n.a.
M 2	13 55	28 30	4 51	22 34	2 17	3 16	1 50	24 4	1 12	4 47	1 38	23 22	0 21	24 3	0 22	5 25	1 49	30 42	9 17	8 36	8 59	22 34			n.a.
T 3	14 14	27 40	4 20	22 45	2 13	2 49	1 52	24 9	1 12	4 49	1 37	23 22	0 21	24 3	0 22	5 25	1 49	30 42	9 18	8 38	9 0	22 32			n.a.
W 4	14 33	25 3	3 33	22 54	2 8	2 23	1 53	24 13	1 12	4 50	1 37	23 22	0 20	24 3	0 22	5 26	1 49	30 42	9 18	8 39	9 1	22 30			n.a.
T 5	14 51	20 53	2 32	23 1	2 2	1 57	1 54	24 17	1 12	4 51	1 37	23 22	0 20	24 3	0 22	5 26	1 49	30 43	9 18	8 40	9 2	22 27			n.a.
F 6	15 9	15 33	1 23	23 6	1 56	1 30	1 56	24 20	1 13	4 52	1 37	23 22	0 20	24 3	0 22	5 26	1 49	30 43	9 19	8 40	9 4	22 25			n.a.
S 7	15 27	9 26	0 9	23 9	1 49	1 3	1 57	24 24	1 13	4 53	1 36	23 22	0 20	24 3	0 22	5 27	1 49	30 43	9 19	8 40	9 5	22 23			n.a.
S 8	15 45	2 55	1n 5	23 10	1 41	0 36	1 58	24 27	1 13	4 53	1 36	23 22	0 20	24 3	0 22	5 27	1 49	30 44	9 19	8 40	9 6	22 20			n.a.
M 9	16 3	3n40	2 14	23 10	1 32	0 9	1 58	24 30	1 13	4 54	1 36	23 22	0 20	24 3	0 22	5 27	1 49	30 44	9 19	8 41	9 7	22 18			n.a.
T 10	16 20	10 1	3 15	23 7	1 22	0n18	1 59	24 33	1 13	4 55	1 36	23 22	0 20	24 3	0 22	5 28	1 49	30 44	9 20	8 43	9 8	22 16			n.a.
W11	16 37	15 49	4 3	23 3	1 12	0 45	2 0	24 36	1 13	4 56	1 35	23 23	0 20	24 3	0 23	5 28	1 49	30 45	9 20	8 46	9 10	22 13			n.a.
T 12	16 54	20 47	4 38	22 58	1 0	1 12	2 0	24 39	1 13	4 56	1 35	23 23	0 20	24 3	0 23	5 28	1 49	30 45	9 20	8 49	9 11	22 11			n.a.
F 13	17 10	24 39	4 57	22 51	0 49	1 39	2 1	24 41	1 13	4 57	1 35	23 23	0 20	24 3	0 23	5 28	1 49	30 45	9 21	8 54	9 12	22 9			n.a.
S 14	17 26	27 13	5 1	22 42	0 36	2 6	2 1	24 43	1 13	4 57	1 34	23 23	0 20	24 3	0 23	5 29	1 49	30 46	9 21	8 58	9 13	22 6			n.a.
S 15	17 42	28 21	4 51	22 32	0 23	2 33	2 1	24 46	1 13	4 57	1 34	23 23	0 20	24 4	0 23	5 29	1 48	30 46	9 21	9 2	9 14	22 4			n.a.
M16	17 58	28 4	4 27	22 21	0 9	3 1	2 1	24 47	1 13	4 58	1 34	23 23	0 20	24 4	0 23	5 29	1 48	30 46	9 21	9 6	9 16	22 2			n.a.
T 17	18 13	26 26	3 51	22 8	0s 6	3 28	2 2	24 49	1 13	4 58	1 34	23 23	0 20	24 4	0 23	5 29	1 48	30 47	9 22	9 8	9 17	21 59			n.a.
W18	18 29	23 38	3 6	21 54	0 21	3 55	2 2	24 51	1 13	4 58	1 33	23 23	0 20	24 4	0 23	5 29	1 48	30 47	9 22	9 10	9 18	21 57			n.a.
T 19	18 43	19 51	2 13	21 39	0 37	4 23	2 1	24 52	1 13	4 58	1 33	23 23	0 20	24 4	0 23	5 30	1 48	30 48	9 22	9 11	9 19	21 55			n.a.
F 20	18 58	15 17	1 14	21 23	0 53	4 50	2 1	24 53	1 13	4 58	1 33	23 23	0 19	24 4	0 23	5 30	1 48	30 48	9 23	9 11	9 20	21 52			n.a.
S 21	19 12	10 7	0 11	21 6	1 9	5 17	2 1	24 54	1 13	4 58	1 32	23 23	0 19	24 4	0 23	5 30	1 48	30 48	9 23	9 11	9 21	21 50			n.a.
S 22	19 26	4 31	0s53	20 49	1 25	5 44	2 1	24 55	1 13	4 58	1 32	23 24	0 19	24 4	0 23	5 30	1 48	30 49	9 23	9 11	9 23	21 47			n.a.
M23	19 39	1s23	1 56	20 30	1 42	6 11	2 0	24 56	1 13	4 57	1 32	23 24	0 19	24 4	0 23	5 30	1 48	30 49	9 23	9 12	9 24	21 45			n.a.
T 24	19 53	7 22	2 54	20 11	1 58	6 38	2 0	24 56	1 13	4 57	1 32	23 24	0 19	24 4	0 23	5 30	1 48	30 49	9 24	9 13	9 25	21 43			n.a.
W25	20 6	13 13	3 46	19 52	2 15	7 5	1 59	24 57	1 13	4 57	1 31	23 24	0 19	24 4	0 23	5 30	1 48	30 50	9 24	9 15	9 26	21 40			n.a.
T 26	20 18	18 39	4 26	19 32	2 31	7 32	1 58	24 57	1 13	4 56	1 31	23 24	0 19	24 4	0 23	5 31	1 48	30 50	9 24	9 19	9 27	21 38			n.a.
F 27	20 30	23 15	4 52	19 12	2 46	7 58	1 58	24 57	1 13	4 56	1 31	23 24	0 19	24 4	0 23	5 31	1 48	30 51	9 24	9 23	9 29	21 35			n.a.
S 28	20 42	26 35	5 0	18 52	3 1	8 25	1 57	24 56	1 13	4 55	1 30	23 24	0 19	24 4	0 23	5 31	1 48	30 51	9 25	9 27	9 30	21 33			n.a.
S 29	20 54	28 14	4 50	18 33	3 15	8 51	1 56	24 56	1 13	4 54	1 30	23 24	0 19	24 4	0 23	5 31	1 48	30 51	9 25	9 31	9 31	21 31			n.a.
M30	21 5	27 57	4 21	18 14	3 28	9 18	1 55	24 55	1 13	4 54	1 30	23 24	0 19	24 4	0 23	5 31	1 48	30 52	9 25	9 35	9 32	21 28			n.a.
T 31	21n16	25s43	3s34	17n56	3s40	9n44	1s54	24n54	1n13	4n53	1n30	23s24	0n19	24s 4	0s23	5n31	1n48	30s52	9s25	9s37	9s33	21n26			n.a.

Julian Day Number = 1652145.5, Delta T = 03h30m25s
Ecliptic obliquity = 23°43'14, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'13, Lahiri = - 6°34'12 Julian Calendar 1 May 190 BCE == Greg. Calendar 28 Apr. 190 BCE

The year -189 astronomical counting style corresponds to year 190 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 190 BCE
geocentric

JUNE 190 BCE (-189) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 21 12	5♊18'25	4♒42	5°R22	0♉53	3♋46	21♍16	0°R37	2°R39	20°R21	23°R46	5°R23	5♓35	6♌12	n.a.	W 1
T 2	16 25 8	6°15'31	19° 3	4♊46	2° 4	4°23	21°18	0♑34	2♑37	20♍21	23♑45	5♓21	5°31	6°19	n.a.	T 2
F 3	16 29 5	7°12'37	3♓12	4°11	3°14	5° 0	21°20	0°30	2°35	20°21	23°44	5°21	5°28	6°26	n.a.	F 3
S 4	16 33 1	8° 9'43	17° 7	3°38	4°25	5°38	21°22	0°26	2°33	20°21	23°43	5°21	5°25	6°32	n.a.	S 4
S 5	16 36 58	9° 6'50	0♈50	3° 6	5°36	6°15	21°24	0°22	2°31	20°20	23°43	5°20	5°22	6°39	n.a.	S 5
M 6	16 40 54	10° 3'57	14°20	2°38	6°47	6°53	21°27	0°18	2°28	20°D20	23°42	5°17	5°19	6°46	n.a.	M 6
T 7	16 44 51	11° 1'05	27°38	2°12	7°58	7°30	21°29	0°14	2°26	20°20	23°41	5°11	5°16	6°52	n.a.	T 7
W 8	16 48 48	11°58'13	10♉45	1°50	9° 9	8° 8	21°32	0°10	2°24	20°21	23°40	5° 2	5°12	6°59	n.a.	W 8
T 9	16 52 44	12°55'22	23°40	1°32	10°20	8°46	21°35	0° 6	2°22	20°21	23°39	4°51	5° 9	7° 6	n.a.	T 9
F 10	16 56 41	13°52'30	6♊23	1°19	11°31	9°23	21°38	0° 2	2°20	20°21	23°38	4°39	5° 6	7°12	n.a.	F 10
S 11	17 0 37	14°49'40	18°53	1°10	12°42	10° 1	21°41	29♐57	2°17	20°21	23°37	4°26	5° 3	7°19	n.a.	S 11
S 12	17 4 34	15°46'49	1♋12	1°D 6	13°53	10°38	21°45	29°53	2°15	20°21	23°36	4°13	5° 0	7°26	n.a.	S 12
M13	17 8 30	16°43'59	13°20	1° 7	15° 4	11°16	21°49	29°49	2°13	20°21	23°35	4° 3	4°57	7°32	n.a.	M13
T 14	17 12 27	17°41'09	25°17	1°14	16°16	11°53	21°52	29°45	2°11	20°22	23°34	3°55	4°53	7°39	n.a.	T 14
W15	17 16 24	18°38'20	7♌ 8	1°26	17°27	12°31	21°56	29°40	2° 8	20°22	23°33	3°50	4°50	7°46	n.a.	W15
T 16	17 20 20	19°35'30	18°56	1°43	18°38	13° 9	22° 0	29°36	2° 6	20°22	23°32	3°47	4°47	7°52	n.a.	T 16
F 17	17 24 17	20°32'41	0♍44	2° 6	19°50	13°46	22° 5	29°32	2° 4	20°23	23°31	3°D46	4°44	7°59	n.a.	F 17
S 18	17 28 13	21°29'52	12°38	2°34	21° 1	14°24	22° 9	29°27	2° 1	20°23	23°30	3°46	4°41	8° 6	n.a.	S 18
S 19	17 32 10	22°27'03	24°43	3° 7	22°13	15° 2	22°14	29°23	1°59	20°23	23°29	3°R46	4°37	8°12	n.a.	S 19
M20	17 36 6	23°24'15	7♎ 5	3°47	23°25	15°39	22°19	29°19	1°57	20°24	23°28	3°45	4°34	8°19	n.a.	M20
T 21	17 40 3	24°21'27	19°48	4°31	24°36	16°17	22°23	29°14	1°54	20°24	23°27	3°42	4°31	8°26	n.a.	T 21
W22	17 43 59	25°18'40	2♏56	5°21	25°48	16°55	22°28	29°10	1°52	20°25	23°25	3°38	4°28	8°32	n.a.	W22
T 23	17 47 56	26°15'52	16°32	6°16	27° 0	17°33	22°34	29° 5	1°49	20°25	23°24	3°30	4°25	8°39	n.a.	T 23
F 24	17 51 53	27°13'06	0♐36	7°17	28°11	18°10	22°39	29° 1	1°47	20°26	23°23	3°22	4°22	8°46	n.a.	F 24
S 25	17 55 49	28°10'20	15° 4	8°22	29°23	18°48	22°45	28°56	1°45	20°27	23°22	3°12	4°18	8°52	n.a.	S 25
S 26	17 59 46	29° 7'35	29°51	9°33	0♊35	19°26	22°50	28°52	1°42	20°27	23°21	3° 2	4°15	8°59	n.a.	S 26
M27	18 3 42	0♋ 4'51	14♑48	10°49	1°47	20° 4	22°56	28°48	1°40	20°28	23°20	2°54	4°12	9° 5	n.a.	M27
T 28	18 7 39	1° 2'08	29°47	12° 9	2°59	20°42	23° 2	28°43	1°37	20°29	23°18	2°48	4° 9	9°12	n.a.	T 28
W29	18 11 35	1°59'25	14♒39	13°34	4°11	21°19	23° 8	28°39	1°35	20°29	23°17	2°45	4° 6	9°19	n.a.	W29
T 30	18 15 32	2♋56'44	29♒17	15♊ 4	5♊23	21♋57	23♍14	28♐34	1♑33	20♍30	23♑16	2°D44	4♓ 3	9♌25	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21n26	21s48	2s34	17n39	3s51	10n10	1s52	24n53	1n13	4n52	1n29	23s25	0n19	24s 5	0s23	5n31	1n48	30s53	9s26	9s39	9s34	21n23		n.a.
T 2	21 36	16 38	1 25	17 23	4 1	10 35	1 51	24 52	1 13	4 51	1 29	23 25	0 19	24 5	0 23	5 31	1 48	30 53	9 26	9 39	9 36	21 21		n.a.
F 3	21 46	10 38	0 11	17 9	4 9	11 1	1 50	24 51	1 13	4 50	1 29	23 25	0 18	24 5	0 23	5 31	1 48	30 53	9 26	9 40	9 37	21 18		n.a.
S 4	21 56	4 12	1n 2	16 56	4 16	11 26	1 49	24 49	1 13	4 49	1 28	23 25	0 18	24 5	0 23	5 31	1 47	30 54	9 26	9 40	9 38	21 16		n.a.
S 5	22 5	2n19	2 10	16 45	4 22	11 52	1 47	24 48	1 13	4 48	1 28	23 25	0 18	24 5	0 23	5 31	1 47	30 54	9 27	9 40	9 39	21 13		n.a.
M 6	22 13	8 38	3 10	16 36	4 25	12 17	1 46	24 46	1 13	4 46	1 28	23 25	0 18	24 5	0 23	5 31	1 47	30 54	9 27	9 41	9 40	21 11		n.a.
T 7	22 22	14 28	3 59	16 28	4 28	12 41	1 44	24 43	1 13	4 45	1 27	23 25	0 18	24 5	0 23	5 31	1 47	30 55	9 27	9 43	9 42	21 9		n.a.
W 8	22 29	19 33	4 34	16 23	4 29	13 6	1 42	24 41	1 13	4 44	1 27	23 25	0 18	24 5	0 23	5 31	1 47	30 55	9 27	9 47	9 43	21 6		n.a.
T 9	22 37	23 39	4 55	16 20	4 28	13 30	1 41	24 39	1 13	4 42	1 27	23 25	0 18	24 5	0 23	5 30	1 47	30 56	9 28	9 51	9 44	21 4		n.a.
F 10	22 44	26 33	5 0	16 20	4 26	13 54	1 39	24 36	1 13	4 41	1 27	23 25	0 18	24 5	0 23	5 30	1 47	30 56	9 28	9 55	9 45	21 1		n.a.
S 11	22 51	28 5	4 51	16 21	4 23	14 17	1 37	24 33	1 13	4 39	1 26	23 25	0 18	24 5	0 23	5 30	1 47	30 56	9 28	10 0	9 46	20 59		n.a.
S 12	22 57	28 11	4 28	16 25	4 18	14 41	1 35	24 30	1 13	4 37	1 26	23 25	0 18	24 5	0 23	5 30	1 47	30 57	9 28	10 4	9 47	20 56		n.a.
M13	23 3	26 55	3 54	16 31	4 12	15 4	1 33	24 27	1 13	4 36	1 26	23 26	0 18	24 5	0 23	5 30	1 47	30 57	9 29	10 8	9 49	20 54		n.a.
T 14	23 9	24 25	3 9	16 39	4 5	15 26	1 31	24 24	1 13	4 34	1 25	23 26	0 18	24 5	0 23	5 30	1 47	30 58	9 29	10 11	9 50	20 51		n.a.
W15	23 14	20 54	2 16	16 49	3 57	15 49	1 29	24 20	1 13	4 32	1 25	23 26	0 18	24 5	0 23	5 30	1 47	30 58	9 29	10 13	9 51	20 49		n.a.
T 16	23 18	16 33	1 18	17 1	3 48	16 11	1 27	24 16	1 13	4 30	1 25	23 26	0 17	24 5	0 23	5 30	1 47	30 58	9 29	10 14	9 52	20 46		n.a.
F 17	23 23	11 36	0 16	17 15	3 38	16 32	1 25	24 12	1 13	4 28	1 25	23 26	0 17	24 5	0 23	5 29	1 47	30 59	9 29	10 15	9 53	20 44		n.a.
S 18	23 27	6 10	0s47	17 31	3 28	16 53	1 23	24 8	1 13	4 26	1 24	23 26	0 17	24 5	0 23	5 29	1 47	30 59	9 30	10 15	9 54	20 41		n.a.
S 19	23 30	0 27	1 49	17 49	3 17	17 14	1 21	24 4	1 13	4 24	1 24	23 26	0 17	24 6	0 23	5 29	1 47	31 0	9 30	10 15	9 56	20 38		n.a.
M20	23 33	5s24	2 48	18 8	3 5	17 35	1 19	24 0	1 13	4 22	1 24	23 26	0 17	24 6	0 23	5 29	1 47	31 0	9 30	10 15	9 57	20 36		n.a.
T 21	23 36	11 12	3 39	18 28	2 52	17 55	1 16	23 55	1 13	4 20	1 24	23 26	0 17	24 6	0 23	5 28	1 47	31 0	9 30	10 16	9 58	20 33		n.a.
W22	23 38	16 43	4 21	18 50	2 39	18 14	1 14	23 50	1 13	4 18	1 23	23 26	0 17	24 6	0 23	5 28	1 47	31 1	9 30	10 18	9 59	20 31		n.a.
T 23	23 40	21 36	4 50	19 12	2 26	18 33	1 12	23 45	1 13	4 15	1 23	23 26	0 17	24 6	0 23	5 28	1 46	31 1	9 30	10 20	10 0	20 28		n.a.
F 24	23 41	25 27	5 3	19 36	2 13	18 52	1 9	23 40	1 12	4 13	1 23	23 26	0 17	24 6	0 23	5 28	1 46	31 2	9 31	10 23	10 1	20 26		n.a.
S 25	23 42	27 47	4 57	20 0	1 59	19 10	1 7	23 35	1 12	4 10	1 22	23 26	0 17	24 6	0 23	5 27	1 46	31 2	9 31	10 27	10 3	20 23		n.a.
S 26	23 43	28 14	4 31	20 25	1 45	19 28	1 4	23 29	1 12	4 8	1 22	23 26	0 17	24 6	0 23	5 27	1 46	31 2	9 31	10 30	10 4	20 21		n.a.
M27	23 43	26 38	3 47	20 50	1 31	19 45	1 2	23 24	1 12	4 5	1 22	23 26	0 16	24 6	0 23	5 27	1 46	31 3	9 31	10 33	10 5	20 18		n.a.
T 28	23 43	23 9	2 46	21 14	1 17	20 2	0 59	23 18	1 12	4 3	1 22	23 26	0 16	24 6	0 23	5 26	1 46	31 3	9 31	10 36	10 6	20 15		n.a.
W29	23 42	18 9	1 35	21 39	1 3	20 18	0 57	23 12	1 12	4 0	1 21	23 27	0 16	24 6	0 23	5 26	1 46	31 3	9 31	10 37	10 7	20 13		n.a.
T 30	23n41	12s 9	0s18	22n 3	0s49	20n34	0s54	23n 5	1n12	3n57	1n21	23s27	0n16	24s 6	0s23	5n26	1n46	31s 4	9s32	10s37	10s 8	20n10		n.a.

Julian Day Number = 1652176.5, Delta T = 03h30m24s
Ecliptic obliquity = 23°43'13, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'09, Lahiri = - 6°34'08 Julian Calendar 1 June 190 BCE == Greg. Calendar 29 May 190 BCE

The year -189 astronomical counting style corresponds to year 190 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 190 BCE
geocentric

JULY 190 BCE (-189) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 19 28	3♋54'04	13♓37	16♊38	6♊36	22♋35	23♍21	28°R30	1°R30	20♍31	23°R15	2♓44	3♓59	9♌32	n.a.	F 1
S 2	18 23 25	4°51'25	27°37	18°16	7°48	23°13	23°27	28♐26	1♑28	20°32	23♑14	2°45	3°56	9°39	n.a.	S 2
S 3	18 27 22	5°48'47	11♈17	19°58	9° 0	23°51	23°34	28°21	1°25	20°32	23°12	2°R45	3°53	9°45	n.a.	S 3
M 4	18 31 18	6°46'11	24°39	21°44	10°13	24°29	23°41	28°17	1°23	20°33	23°11	2°43	3°50	9°52	n.a.	M 4
T 5	18 35 15	7°43'36	7♉45	23°33	11°25	25° 7	23°48	28°12	1°21	20°34	23°10	2°40	3°47	9°59	n.a.	T 5
W 6	18 39 11	8°41'03	20°35	25°24	12°37	25°45	23°55	28° 8	1°18	20°35	23° 8	2°34	3°43	10° 5	n.a.	W 6
T 7	18 43 8	9°38'31	3♊13	27°19	13°50	26°23	24° 2	28° 4	1°16	20°36	23° 7	2°26	3°40	10°12	n.a.	T 7
F 8	18 47 4	10°36'00	15°39	29°16	15° 2	27° 1	24° 9	27°59	1°13	20°37	23° 6	2°17	3°37	10°19	n.a.	F 8
S 9	18 51 1	11°33'31	27°54	1♋15	16°15	27°39	24°17	27°55	1°11	20°38	23° 5	2° 7	3°34	10°25	n.a.	S 9
S 10	18 54 58	12°31'03	10♋ 1	3°15	17°28	28°17	24°24	27°51	1° 9	20°39	23° 3	1°58	3°31	10°32	n.a.	S 10
M11	18 58 54	13°28'36	21°59	5°16	18°40	28°55	24°32	27°47	1° 6	20°40	23° 2	1°51	3°28	10°39	n.a.	M11
T 12	19 2 51	14°26'10	3♌51	7°19	19°53	29°33	24°40	27°43	1° 4	20°41	23° 1	1°45	3°24	10°45	n.a.	T 12
W13	19 6 47	15°23'45	15°39	9°21	21° 6	0♌11	24°48	27°38	1° 2	20°43	22°59	1°42	3°21	10°52	n.a.	W13
T 14	19 10 44	16°21'22	27°26	11°24	22°19	0°49	24°56	27°34	0°59	20°44	22°58	1°D40	3°18	10°59	n.a.	T 14
F 15	19 14 40	17°19'00	9♍14	13°27	23°32	1°27	25° 4	27°30	0°57	20°45	22°57	1°40	3°15	11° 5	n.a.	F 15
S 16	19 18 37	18°16'38	21° 8	15°30	24°45	2° 5	25°12	27°26	0°55	20°46	22°55	1°41	3°12	11°12	n.a.	S 16
S 17	19 22 33	19°14'18	3♎13	17°32	25°58	2°44	25°21	27°22	0°53	20°47	22°54	1°43	3° 9	11°19	n.a.	S 17
M18	19 26 30	20°12'00	15°33	19°34	27°11	3°22	25°29	27°18	0°50	20°49	22°53	1°R44	3° 5	11°25	n.a.	M18
T 19	19 30 26	21° 9'42	28°13	21°35	28°24	4° 0	25°38	27°15	0°48	20°50	22°51	1°44	3° 2	11°32	n.a.	T 19
W20	19 34 23	22° 7'26	11♏17	23°34	29°37	4°38	25°47	27°11	0°46	20°51	22°50	1°42	2°59	11°39	n.a.	W20
T 21	19 38 20	23° 5'11	24°50	25°33	0♋50	5°16	25°55	27° 7	0°44	20°53	22°49	1°39	2°56	11°45	n.a.	T 21
F 22	19 42 16	24° 2'57	8♐51	27°31	2° 3	5°55	26° 4	27° 3	0°42	20°54	22°47	1°34	2°53	11°52	n.a.	F 22
S 23	19 46 13	25° 0'44	23°19	29°27	3°17	6°33	26°14	27° 0	0°40	20°56	22°46	1°29	2°49	11°59	n.a.	S 23
S 24	19 50 9	25°58'33	8♑11	1♌22	4°30	7°11	26°23	26°56	0°38	20°57	22°45	1°24	2°46	12° 5	n.a.	S 24
M25	19 54 6	26°56'24	23°17	3°16	5°43	7°50	26°32	26°52	0°35	20°59	22°43	1°19	2°43	12°12	n.a.	M25
T 26	19 58 2	27°54'16	8♒30	5° 9	6°57	8°28	26°42	26°49	0°33	21° 0	22°42	1°16	2°40	12°19	n.a.	T 26
W27	20 1 59	28°52'10	23°38	7° 0	8°10	9° 6	26°51	26°46	0°31	21° 2	22°41	1°15	2°37	12°25	n.a.	W27
T 28	20 5 56	29°50'05	8♓33	8°50	9°24	9°45	27° 1	26°42	0°29	21° 3	22°40	1°D15	2°34	12°32	n.a.	T 28
F 29	20 9 52	0♌48'02	23° 9	10°39	10°37	10°23	27°10	26°39	0°27	21° 5	22°38	1°16	2°30	12°39	n.a.	F 29
S 30	20 13 49	1°46'02	7♈21	12°26	11°51	11° 2	27°20	26°36	0°25	21° 6	22°37	1°17	2°27	12°45	n.a.	S 30
S 31	20 17 45	2♌44'03	21♈ 9	14♌12	13♋ 4	11♌40	27♍30	26♐33	0♑23	21♍ 8	22♑36	1♓18	2♓24	12♌52	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23n40	5s38	0n58	22n27	0s36	20n49	0s51	22n59	1n12	3n54	1n21	23s27	0n16	24s 6	0s23	5n25	1n46	31s 4	9s32	10s37	10s10	20n 8		n.a.
S 2	23 38	1n 1	2 9	22 49	0 23	21 4	0 49	22 53	1 12	3 52	1 21	23 27	0 16	24 6	0 23	5 25	1 46	31 5	9 32	10 37	10 11	20 5		n.a.
S 3	23 35	7 27	3 11	23 10	0 10	21 18	0 46	22 46	1 12	3 49	1 20	23 27	0 16	24 6	0 23	5 25	1 46	31 5	9 32	10 37	10 12	20 3		n.a.
M 4	23 33	13 24	4 2	23 30	0n 3	21 31	0 44	22 39	1 12	3 46	1 20	23 27	0 16	24 6	0 23	5 24	1 46	31 5	9 32	10 37	10 13	20 0		n.a.
T 5	23 30	18 38	4 38	23 48	0 15	21 44	0 41	22 32	1 11	3 43	1 20	23 27	0 16	24 6	0 23	5 24	1 46	31 6	9 32	10 39	10 14	19 57		n.a.
W 6	23 26	22 55	4 59	24 4	0 26	21 57	0 38	22 25	1 11	3 40	1 20	23 27	0 16	24 6	0 23	5 23	1 46	31 6	9 32	10 41	10 15	19 55		n.a.
T 7	23 22	26 3	5 6	24 18	0 37	22 8	0 35	22 17	1 11	3 37	1 19	23 27	0 16	24 6	0 23	5 23	1 46	31 6	9 33	10 44	10 17	19 52		n.a.
F 8	23 17	27 52	4 58	24 30	0 47	22 20	0 33	22 10	1 11	3 33	1 19	23 27	0 15	24 6	0 23	5 23	1 46	31 7	9 33	10 47	10 18	19 49		n.a.
S 9	23 13	28 18	4 36	24 39	0 56	22 30	0 30	22 2	1 11	3 30	1 19	23 27	0 15	24 6	0 23	5 22	1 46	31 7	9 33	10 51	10 19	19 47		n.a.
S 10	23 7	27 21	4 2	24 45	1 5	22 40	0 27	21 54	1 11	3 27	1 19	23 27	0 15	24 6	0 23	5 22	1 46	31 7	9 33	10 54	10 20	19 44		n.a.
M11	23 2	25 9	3 17	24 49	1 12	22 49	0 25	21 46	1 11	3 24	1 18	23 27	0 15	24 6	0 23	5 21	1 46	31 8	9 33	10 56	10 21	19 42		n.a.
T 12	22 56	21 51	2 25	24 50	1 19	22 58	0 22	21 38	1 11	3 20	1 18	23 27	0 15	24 6	0 23	5 21	1 45	31 8	9 33	10 59	10 22	19 39		n.a.
W13	22 49	17 42	1 26	24 48	1 25	23 6	0 19	21 30	1 11	3 17	1 18	23 27	0 15	24 6	0 23	5 20	1 45	31 8	9 33	11 0	10 24	19 36		n.a.
T 14	22 42	12 52	0 23	24 44	1 31	23 13	0 16	21 21	1 10	3 14	1 18	23 27	0 15	24 6	0 23	5 20	1 45	31 9	9 33	11 0	10 25	19 34		n.a.
F 15	22 35	7 34	0s41	24 37	1 35	23 20	0 14	21 13	1 10	3 10	1 18	23 27	0 15	24 6	0 23	5 19	1 45	31 9	9 33	11 0	10 26	19 31		n.a.
S 16	22 27	1 58	1 44	24 27	1 39	23 26	0 11	21 4	1 10	3 6	1 17	23 27	0 15	24 6	0 23	5 19	1 45	31 9	9 33	11 0	10 27	19 28		n.a.
S 17	22 19	3s47	2 43	24 15	1 42	23 31	0 8	20 55	1 10	3 3	1 17	23 27	0 15	24 6	0 23	5 18	1 45	31 10	9 34	10 59	10 28	19 26		n.a.
M18	22 11	9 30	3 36	24 0	1 45	23 36	0 6	20 46	1 10	2 59	1 17	23 27	0 14	24 6	0 23	5 17	1 45	31 10	9 34	10 59	10 29	19 23		n.a.
T 19	22 2	15 0	4 20	23 43	1 46	23 40	0 3	20 37	1 10	2 56	1 17	23 27	0 14	24 6	0 23	5 17	1 45	31 10	9 34	10 59	10 31	19 20		n.a.
W20	21 53	20 0	4 52	23 24	1 47	23 43	0 0	20 27	1 10	2 52	1 16	23 27	0 14	24 6	0 23	5 16	1 45	31 11	9 34	11 0	10 32	19 18		n.a.
T 21	21 43	24 11	5 9	23 2	1 47	23 45	0n 2	20 18	1 9	2 48	1 16	23 27	0 14	24 7	0 23	5 16	1 45	31 11	9 34	11 1	10 33	19 15		n.a.
F 22	21 33	27 7	5 9	22 39	1 47	23 47	0 5	20 8	1 9	2 44	1 16	23 27	0 14	24 7	0 23	5 15	1 45	31 11	9 34	11 2	10 34	19 12		n.a.
S 23	21 23	28 22	4 49	22 14	1 46	23 48	0 8	19 58	1 9	2 40	1 16	23 27	0 14	24 7	0 23	5 15	1 45	31 11	9 34	11 4	10 35	19 10		n.a.
S 24	21 12	27 37	4 10	21 47	1 44	23 49	0 10	19 48	1 9	2 37	1 16	23 27	0 14	24 7	0 23	5 14	1 45	31 12	9 34	11 6	10 36	19 7		n.a.
M25	21 1	24 51	3 13	21 19	1 42	23 49	0 13	19 38	1 9	2 33	1 15	23 27	0 14	24 7	0 23	5 13	1 45	31 12	9 34	11 8	10 38	19 4		n.a.
T 26	20 49	20 18	2 1	20 49	1 40	23 48	0 15	19 28	1 9	2 29	1 15	23 27	0 14	24 7	0 23	5 13	1 45	31 12	9 34	11 9	10 39	19 2		n.a.
W27	20 38	14 27	0 42	20 18	1 37	23 46	0 18	19 17	1 9	2 25	1 15	23 27	0 14	24 7	0 23	5 12	1 45	31 13	9 34	11 10	10 40	18 59		n.a.
T 28	20 25	7 50	0n40	19 46	1 33	23 43	0 21	19 7	1 8	2 21	1 15	23 27	0 13	24 7	0 23	5 11	1 45	31 13	9 34	11 10	10 41	18 56		n.a.
F 29	20 13	0 57	1 57	19 12	1 30	23 40	0 23	18 56	1 8	2 17	1 15	23 27	0 13	24 7	0 23	5 11	1 45	31 13	9 34	11 9	10 42	18 53		n.a.
S 30	20 0	5n47	3 5	18 38	1 25	23 37	0 25	18 45	1 8	2 12	1 14	23 27	0 13	24 7	0 23	5 10	1 45	31 13	9 34	11 9	10 43	18 51		n.a.
S 31	19n47	12n 3	4n 0	18n 3	1n21	23n32	0n28	18n34	1n 8	2n 8	1n14	23s27	0n13	24s 7	0s23	5n 9	1n45	31s14	9s34	11s 8	10s44	18n48		n.a.

Julian Day Number = 1652206.5, Delta T = 03h30m23s
Ecliptic obliquity = 23°43'13, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'05, Lahiri = - 6°34'04 Julian Calendar 1 July 190 BCE == Greg. Calendar 28 June 190 BCE

The year -189 astronomical counting style corresponds to year 190 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 190 BCE
geocentric

AUGUST 190 BCE (-189) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 21 42	3♌42'06	4♉33	15♌57	14♋18	12♌19	27♍40	26°R29	0°R22	21♍ 9	22°R34	1°R19	2♓21	12♌58	n.a.	M 1
T 2	20 25 38	4°40'12	17°35	17°40	15°32	12°57	27°50	26♐26	0♑20	21°11	22♑33	1♓18	2°18	13° 5	n.a.	T 2
W 3	20 29 35	5°38'19	0♊18	19°23	16°46	13°36	28° 0	26°24	0°18	21°13	22°32	1°16	2°15	13°12	n.a.	W 3
T 4	20 33 31	6°36'29	12°45	21° 4	17°59	14°15	28°11	26°21	0°16	21°14	22°30	1°13	2°11	13°18	n.a.	T 4
F 5	20 37 28	7°34'41	24°59	22°43	19°13	14°53	28°21	26°18	0°14	21°16	22°29	1°10	2° 8	13°25	n.a.	F 5
S 6	20 41 25	8°32'55	7♋ 3	24°22	20°27	15°32	28°31	26°15	0°13	21°18	22°28	1° 6	2° 5	13°32	n.a.	S 6
S 7	20 45 21	9°31'10	19° 0	25°59	21°41	16°10	28°42	26°13	0°11	21°20	22°27	1° 2	2° 2	13°38	n.a.	S 7
M 8	20 49 18	10°29'28	0♌51	27°36	22°55	16°49	28°53	26°10	0° 9	21°22	22°25	0°59	1°59	13°45	n.a.	M 8
T 9	20 53 14	11°27'48	12°39	29°11	24° 9	17°28	29° 3	26° 7	0° 8	21°23	22°24	0°57	1°55	13°52	n.a.	T 9
W10	20 57 11	12°26'09	24°26	0♍45	25°23	18° 7	29°14	26° 5	0° 6	21°25	22°23	0°56	1°52	13°58	n.a.	W10
T 11	21 1 7	13°24'32	6♍15	2°17	26°37	18°45	29°25	26° 3	0° 5	21°27	22°22	0°D56	1°49	14° 5	n.a.	T 11
F 12	21 5 4	14°22'58	18° 7	3°49	27°52	19°24	29°36	26° 1	0° 3	21°29	22°20	0°57	1°46	14°12	n.a.	F 12
S 13	21 9 0	15°21'25	0♎ 6	5°19	29° 6	20° 3	29°47	25°58	0° 2	21°31	22°19	0°58	1°43	14°18	n.a.	S 13
S 14	21 12 57	16°19'53	12°15	6°49	0♌20	20°42	29°58	25°56	0° 0	21°33	22°18	1° 0	1°40	14°25	n.a.	S 14
M15	21 16 53	17°18'24	24°37	8°17	1°34	21°21	0♎ 9	25°54	29♐59	21°35	22°17	1° 1	1°36	14°32	n.a.	M15
T 16	21 20 50	18°16'56	7♏17	9°43	2°49	22° 0	0°20	25°53	29°57	21°36	22°16	1° 2	1°33	14°38	n.a.	T 16
W17	21 24 47	19°15'30	20°18	11° 9	4° 3	22°39	0°32	25°51	29°56	21°38	22°15	1°R 2	1°30	14°45	n.a.	W17
T 18	21 28 43	20°14'06	3♐43	12°34	5°17	23°18	0°43	25°49	29°55	21°40	22°13	1° 1	1°27	14°52	n.a.	T 18
F 19	21 32 40	21°12'44	17°34	13°57	6°32	23°57	0°55	25°48	29°54	21°42	22°12	1° 1	1°24	14°58	n.a.	F 19
S 20	21 36 36	22°11'23	1♑51	15°19	7°46	24°36	1° 6	25°46	29°52	21°44	22°11	1° 0	1°21	15° 5	n.a.	S 20
S 21	21 40 33	23°10'05	16°32	16°39	9° 1	25°15	1°18	25°45	29°51	21°46	22°10	0°59	1°17	15°12	n.a.	S 21
M22	21 44 29	24° 8'48	1♒31	17°59	10°15	25°54	1°29	25°43	29°50	21°48	22° 9	0°58	1°14	15°18	n.a.	M22
T 23	21 48 26	25° 7'33	16°41	19°17	11°30	26°33	1°41	25°42	29°49	21°50	22° 8	0°58	1°11	15°25	n.a.	T 23
W24	21 52 22	26° 6'20	1♓53	20°33	12°44	27°12	1°53	25°41	29°48	21°52	22° 7	0°D57	1° 8	15°32	n.a.	W24
T 25	21 56 19	27° 5'09	16°57	21°48	13°59	27°51	2° 5	25°40	29°47	21°55	22° 6	0°58	1° 5	15°38	n.a.	T 25
F 26	22 0 16	28° 4'00	1♈45	23° 1	15°14	28°30	2°17	25°39	29°46	21°57	22° 5	0°58	1° 1	15°45	n.a.	F 26
S 27	22 4 12	29° 2'54	16°10	24°13	16°28	29°10	2°29	25°38	29°45	21°59	22° 4	0°58	0°58	15°51	n.a.	S 27
S 28	22 8 9	0♍ 1'50	0♉ 9	25°23	17°43	29°49	2°41	25°38	29°45	22° 1	22° 3	0°58	0°55	15°58	n.a.	S 28
M29	22 12 5	1° 0'48	13°40	26°31	18°58	0♍28	2°53	25°37	29°44	22° 3	22° 2	0°R58	0°52	16° 5	n.a.	M29
T 30	22 16 2	1°59'49	26°46	27°36	20°13	1° 7	3° 5	25°36	29°43	22° 5	22° 1	0°D58	0°49	16°11	n.a.	T 30
W31	22 19 58	2♍58'52	9♊29	28♍40	21♌27	1♍47	3♎17	25♐36	29♐42	22♍ 7	22♑ 0	0♓58	0♓46	16♌18	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	19n33	17n35	4n41	17n27	1n16	23n27	0n30	18n23	1n 8	2n 4	1n14	23s27	0n13	24s 7	0s23	5n 9	1n45	31s14	9s34	11s 8	10s46	18n45		n.a.
T 2	19 19	22 9	5 5	16 50	1 10	23 21	0 33	18 12	1 8	2 0	1 14	23 27	0 13	24 7	0 23	5 8	1 45	31 14	9 34	11 8	10 47	18 43		n.a.
W 3	19 5	25 34	5 14	16 13	1 5	23 14	0 35	18 1	1 7	1 56	1 14	23 27	0 13	24 7	0 23	5 7	1 45	31 14	9 34	11 9	10 48	18 40		n.a.
T 4	18 50	27 41	5 8	15 34	0 59	23 7	0 37	17 49	1 7	1 51	1 13	23 27	0 13	24 7	0 23	5 7	1 45	31 15	9 34	11 10	10 49	18 37		n.a.
F 5	18 35	28 25	4 48	14 56	0 53	22 59	0 40	17 38	1 7	1 47	1 13	23 27	0 13	24 7	0 23	5 6	1 44	31 15	9 34	11 11	10 50	18 34		n.a.
S 6	18 20	27 46	4 15	14 17	0 46	22 50	0 42	17 26	1 7	1 43	1 13	23 27	0 13	24 7	0 23	5 5	1 44	31 15	9 34	11 13	10 51	18 32		n.a.
S 7	18 5	25 50	3 31	13 38	0 40	22 40	0 44	17 14	1 7	1 38	1 13	23 28	0 12	24 7	0 23	5 4	1 44	31 15	9 34	11 14	10 52	18 29		n.a.
M 8	17 49	22 47	2 39	12 58	0 33	22 30	0 46	17 2	1 6	1 34	1 13	23 28	0 12	24 7	0 23	5 4	1 44	31 15	9 34	11 15	10 54	18 26		n.a.
T 9	17 33	18 48	1 39	12 18	0 26	22 19	0 48	16 50	1 6	1 29	1 13	23 28	0 12	24 7	0 23	5 3	1 44	31 16	9 34	11 16	10 55	18 23		n.a.
W10	17 16	14 6	0 36	11 38	0 19	22 8	0 50	16 38	1 6	1 25	1 12	23 28	0 12	24 7	0 23	5 2	1 44	31 16	9 34	11 16	10 56	18 21		n.a.
T 11	17 0	8 52	0s29	10 58	0 12	21 56	0 52	16 25	1 6	1 20	1 12	23 28	0 12	24 7	0 23	5 1	1 44	31 16	9 34	11 16	10 57	18 18		n.a.
F 12	16 42	3 19	1 34	10 17	0 4	21 43	0 54	16 13	1 6	1 16	1 12	23 28	0 12	24 7	0 23	5 1	1 44	31 16	9 34	11 16	10 58	18 15		n.a.
S 13	16 25	2s24	2 35	9 37	0s 3	21 30	0 56	16 0	1 5	1 11	1 12	23 28	0 12	24 7	0 23	5 0	1 44	31 16	9 34	11 15	10 59	18 12		n.a.
S 14	16 8	8 6	3 29	8 57	0 11	21 15	0 58	15 47	1 5	1 6	1 12	23 28	0 12	24 7	0 23	4 59	1 44	31 16	9 34	11 15	11 1	18 10		n.a.
M15	15 50	13 36	4 16	8 16	0 19	21 1	1 0	15 35	1 5	1 2	1 12	23 28	0 12	24 7	0 23	4 58	1 44	31 17	9 34	11 15	11 2	18 7		n.a.
T 16	15 32	18 40	4 51	7 36	0 27	20 45	1 1	15 22	1 5	0 57	1 11	23 28	0 11	24 7	0 23	4 57	1 44	31 17	9 34	11 14	11 3	18 4		n.a.
W17	15 13	23 1	5 12	6 56	0 35	20 29	1 3	15 9	1 5	0 52	1 11	23 28	0 11	24 7	0 23	4 57	1 44	31 17	9 34	11 14	11 4	18 1		n.a.
T 18	14 55	26 19	5 17	6 16	0 43	20 13	1 5	14 55	1 4	0 48	1 11	23 28	0 11	24 7	0 23	4 56	1 44	31 17	9 34	11 14	11 5	17 58		n.a.
F 19	14 36	28 11	5 4	5 37	0 51	19 56	1 6	14 42	1 4	0 43	1 11	23 28	0 11	24 7	0 23	4 55	1 44	31 17	9 34	11 15	11 6	17 56		n.a.
S 20	14 17	28 15	4 33	4 57	0 59	19 38	1 8	14 29	1 4	0 38	1 11	23 28	0 11	24 6	0 23	4 54	1 44	31 17	9 34	11 15	11 7	17 53		n.a.
S 21	13 57	26 22	3 43	4 18	1 7	19 20	1 9	14 15	1 4	0 33	1 11	23 28	0 11	24 6	0 23	4 53	1 44	31 17	9 33	11 15	11 9	17 50		n.a.
M22	13 38	22 36	2 36	3 40	1 15	19 1	1 11	14 2	1 3	0 29	1 11	23 28	0 11	24 6	0 23	4 53	1 44	31 18	9 33	11 15	11 10	17 47		n.a.
T 23	13 18	17 16	1 19	3 1	1 23	18 41	1 12	13 48	1 3	0 24	1 10	23 28	0 11	24 6	0 23	4 52	1 44	31 18	9 33	11 16	11 11	17 44		n.a.
W24	12 58	10 51	0n 5	2 24	1 31	18 21	1 13	13 34	1 3	0 19	1 10	23 28	0 11	24 6	0 23	4 51	1 44	31 18	9 33	11 16	11 12	17 42		n.a.
T 25	12 38	3 52	1 28	1 47	1 39	18 1	1 15	13 20	1 3	0 14	1 10	23 28	0 11	24 6	0 23	4 50	1 44	31 18	9 33	11 16	11 13	17 39		n.a.
F 26	12 17	3n11	2 43	1 10	1 47	17 40	1 16	13 6	1 2	0 9	1 10	23 28	0 10	24 6	0 23	4 49	1 44	31 18	9 33	11 16	11 14	17 36		n.a.
S 27	11 56	9 54	3 46	0 34	1 55	17 18	1 17	12 52	1 2	0 4	1 10	23 29	0 10	24 6	0 23	4 48	1 44	31 18	9 33	11 15	11 15	17 33		n.a.
S 28	11 36	15 54	4 33	0s 1	2 3	16 56	1 18	12 38	1 2	0s 1	1 10	23 29	0 10	24 6	0 23	4 48	1 44	31 18	9 33	11 15	11 17	17 30		n.a.
M29	11 14	20 57	5 4	0 35	2 10	16 34	1 19	12 24	1 2	0 6	1 10	23 29	0 10	24 6	0 23	4 47	1 44	31 18	9 33	11 15	11 18	17 27		n.a.
T 30	10 53	24 48	5 17	1 8	2 18	16 11	1 20	12 9	1 1	0 11	1 9	23 29	0 10	24 6	0 23	4 46	1 44	31 18	9 33	11 15	11 19	17 25		n.a.
W31	10n32	27n19	5n14	1s41	2s25	15n47	1n21	11n55	1n 1	0s16	1n 9	23s29	0n10	24s 6	0s23	4n45	1n44	31s18	9s33	11s15	11s20	17n22		n.a.

Julian Day Number = 1652237.5, Delta T = 03h30m22s
Ecliptic obliquity = 23°43'13, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°41'00, Lahiri = - 6°34'00 Julian Calendar 1 Aug. 190 BCE == Greg. Calendar 29 July 190 BCE

The year -189 astronomical counting style corresponds to year 190 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 190 BCE
geocentric

SEPTEMBER 190 BCE (-189) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 23 55	3♍57'58	21♊53	29♍41	22♌42	2♍26	3♎29	25°R36	29°R42	22♍ 9	21°R59	0♓58	0♓42	16♌25	n.a.	T 1
F 2	22 27 51	4°57'06	4♋ 2	0♎40	23°57	3° 5	3°42	25♐35	29♐41	22°12	21♑58	0°59	0°39	16°31	n.a.	F 2
S 3	22 31 48	5°56'17	16° 0	1°36	25°12	3°45	3°54	25°35	29°41	22°14	21°57	0°59	0°36	16°38	n.a.	S 3
S 4	22 35 45	6°55'30	27°51	2°29	26°27	4°24	4° 6	25°D35	29°40	22°16	21°56	1° 0	0°33	16°45	n.a.	S 4
M 5	22 39 41	7°54'45	9♌38	3°19	27°42	5° 4	4°19	25°35	29°40	22°18	21°55	1° 0	0°30	16°51	n.a.	M 5
T 6	22 43 38	8°54'02	21°26	4° 6	28°57	5°43	4°31	25°35	29°39	22°20	21°55	1° 1	0°27	16°58	n.a.	T 6
W 7	22 47 34	9°53'22	3♍16	4°48	0♍12	6°23	4°44	25°36	29°39	22°22	21°54	1°R 1	0°23	17° 5	n.a.	W 7
T 8	22 51 31	10°52'43	15°10	5°26	1°27	7° 3	4°56	25°36	29°39	22°25	21°53	1° 1	0°20	17°11	n.a.	T 8
F 9	22 55 27	11°52'07	27°11	6° 0	2°42	7°42	5° 9	25°36	29°39	22°27	21°52	1° 0	0°17	17°18	n.a.	F 9
S 10	22 59 24	12°51'33	9♎21	6°28	3°57	8°22	5°22	25°37	29°38	22°29	21°51	0°58	0°14	17°25	n.a.	S 10
S 11	23 3 20	13°51'01	21°41	6°51	5°12	9° 2	5°34	25°38	29°38	22°31	21°51	0°57	0°11	17°31	n.a.	S 11
M12	23 7 17	14°50'31	4♏14	7° 9	6°27	9°41	5°47	25°38	29°38	22°33	21°50	0°55	0° 7	17°38	n.a.	M12
T 13	23 11 13	15°50'03	17° 1	7°19	7°43	10°21	6° 0	25°39	29°D38	22°36	21°49	0°53	0° 4	17°44	n.a.	T 13
W14	23 15 10	16°49'37	0♐ 4	7°R23	8°58	11° 1	6°13	25°40	29°38	22°38	21°49	0°51	0° 1	17°51	n.a.	W14
T 15	23 19 7	17°49'13	13°26	7°19	10°13	11°41	6°26	25°41	29°38	22°40	21°48	0°D51	29♒58	17°58	n.a.	T 15
F 16	23 23 3	18°48'50	27° 7	7° 7	11°28	12°21	6°38	25°43	29°38	22°42	21°47	0°51	29°55	18° 4	n.a.	F 16
S 17	23 27 0	19°48'30	11♑10	6°47	12°43	13° 0	6°51	25°44	29°39	22°45	21°47	0°52	29°52	18°11	n.a.	S 17
S 18	23 30 56	20°48'11	25°32	6°19	13°59	13°40	7° 4	25°45	29°39	22°47	21°46	0°53	29°48	18°18	n.a.	S 18
M19	23 34 53	21°47'54	10♒11	5°41	15°14	14°20	7°17	25°47	29°39	22°49	21°46	0°54	29°45	18°24	n.a.	M19
T 20	23 38 49	22°47'39	25° 4	4°55	16°29	15° 0	7°30	25°48	29°39	22°51	21°45	0°R55	29°42	18°31	n.a.	T 20
W21	23 42 46	23°47'25	10♓ 2	4° 1	17°44	15°40	7°43	25°50	29°40	22°54	21°45	0°55	29°39	18°38	n.a.	W21
T 22	23 46 42	24°47'14	24°59	3° 0	19° 0	16°20	7°56	25°52	29°40	22°56	21°44	0°54	29°36	18°44	n.a.	T 22
F 23	23 50 39	25°47'04	9♈46	1°52	20°15	17° 0	8° 9	25°53	29°41	22°58	21°44	0°51	29°32	18°51	n.a.	F 23
S 24	23 54 36	26°46'57	24°15	0°40	21°30	17°40	8°22	25°55	29°41	23° 0	21°43	0°47	29°29	18°58	n.a.	S 24
S 25	23 58 32	27°46'52	8♉20	29♍25	22°46	18°21	8°35	25°57	29°42	23° 3	21°43	0°43	29°26	19° 4	n.a.	S 25
M26	0 2 29	28°46'49	22° 0	28° 9	24° 1	19° 1	8°49	26° 0	29°42	23° 5	21°43	0°39	29°23	19°11	n.a.	M26
T 27	0 6 25	29°46'49	5♊12	26°54	25°16	19°41	9° 2	26° 2	29°43	23° 7	21°42	0°36	29°20	19°18	n.a.	T 27
W28	0 10 22	0♎46'51	18° 0	25°43	26°32	20°21	9°15	26° 4	29°44	23° 9	21°42	0°34	29°17	19°24	n.a.	W28
T 29	0 14 18	1°46'55	0♋25	24°38	27°47	21° 2	9°28	26° 7	29°45	23°12	21°42	0°D33	29°13	19°31	n.a.	T 29
F 30	0 18 15	2♎47'02	12♋34	23♍41	29♍ 3	21♍42	9♎41	26♐ 9	29♐45	23♍14	21♑41	0♓34	29♒10	19♌38	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	10n10	28n25	4n57	2s12	2s32	15n23	1n22	11n40	1n 1	0s21	1n 9	23s29	0n10	24s 6	0s23	4n44	1n44	31s18	9s32	11s15	11s21	17n19		n.a.
F 2	9 48	28 6	4 27	2 42	2 39	14 59	1 22	11 26	1 1	0 26	1 9	23 29	0 10	24 6	0 23	4 43	1 44	31 18	9 32	11 15	11 22	17 16		n.a.
S 3	9 26	26 28	3 45	3 10	2 46	14 34	1 23	11 11	1 0	0 31	1 9	23 29	0 10	24 6	0 23	4 42	1 44	31 18	9 32	11 15	11 23	17 13		n.a.
S 4	9 4	23 41	2 54	3 38	2 52	14 9	1 24	10 56	1 0	0 36	1 9	23 29	0 10	24 6	0 23	4 41	1 44	31 19	9 32	11 15	11 24	17 10		n.a.
M 5	8 42	19 54	1 56	4 3	2 58	13 44	1 24	10 41	1 0	0 41	1 9	23 29	0 9	24 6	0 23	4 41	1 44	31 19	9 32	11 15	11 26	17 8		n.a.
T 6	8 20	15 22	0 53	4 27	3 4	13 18	1 25	10 26	1 0	0 46	1 9	23 29	0 9	24 6	0 23	4 40	1 44	31 19	9 32	11 14	11 27	17 5		n.a.
W 7	7 57	10 14	0s12	4 49	3 9	12 51	1 25	10 11	0 59	0 51	1 9	23 30	0 9	24 6	0 23	4 39	1 44	31 19	9 32	11 14	11 28	17 2		n.a.
T 8	7 34	4 43	1 18	5 8	3 13	12 25	1 25	9 56	0 59	0 56	1 8	23 30	0 9	24 6	0 23	4 38	1 44	31 19	9 32	11 15	11 29	16 59		n.a.
F 9	7 11	1s 0	2 20	5 25	3 17	11 58	1 26	9 41	0 59	1 2	1 8	23 30	0 9	24 6	0 23	4 37	1 44	31 19	9 31	11 15	11 30	16 56		n.a.
S 10	6 49	6 45	3 17	5 40	3 21	11 30	1 26	9 26	0 58	1 7	1 8	23 30	0 9	24 6	0 23	4 36	1 44	31 19	9 31	11 15	11 31	16 53		n.a.
S 11	6 25	12 20	4 5	5 51	3 23	11 3	1 26	9 10	0 58	1 12	1 8	23 30	0 9	24 6	0 23	4 35	1 44	31 19	9 31	11 16	11 32	16 50		n.a.
M12	6 2	17 30	4 43	6 0	3 25	10 35	1 26	8 55	0 58	1 17	1 8	23 30	0 9	24 6	0 23	4 34	1 44	31 19	9 31	11 17	11 34	16 47		n.a.
T 13	5 39	22 1	5 7	6 5	3 26	10 6	1 26	8 40	0 58	1 22	1 8	23 30	0 9	24 6	0 23	4 33	1 44	31 19	9 31	11 17	11 35	16 45		n.a.
W14	5 16	25 33	5 16	6 6	3 25	9 38	1 26	8 24	0 57	1 27	1 8	23 30	0 9	24 6	0 23	4 33	1 44	31 18	9 31	11 18	11 36	16 42		n.a.
T 15	4 52	27 47	5 9	6 3	3 24	9 9	1 26	8 8	0 57	1 33	1 8	23 31	0 8	24 6	0 23	4 32	1 44	31 18	9 31	11 18	11 37	16 39		n.a.
F 16	4 29	28 25	4 44	5 55	3 21	8 40	1 26	7 53	0 57	1 38	1 8	23 31	0 8	24 6	0 23	4 31	1 44	31 18	9 30	11 18	11 38	16 36		n.a.
S 17	4 5	27 15	4 1	5 43	3 16	8 10	1 25	7 37	0 56	1 43	1 8	23 31	0 8	24 6	0 23	4 30	1 44	31 18	9 30	11 18	11 39	16 33		n.a.
S 18	3 41	24 17	3 3	5 26	3 10	7 41	1 25	7 21	0 56	1 48	1 8	23 31	0 8	24 6	0 23	4 29	1 44	31 18	9 30	11 17	11 40	16 30		n.a.
M19	3 17	19 42	1 52	5 4	3 2	7 11	1 25	7 5	0 56	1 54	1 7	23 31	0 8	24 6	0 23	4 28	1 44	31 18	9 30	11 17	11 41	16 27		n.a.
T 20	2 54	13 49	0 32	4 37	2 52	6 41	1 24	6 49	0 55	1 59	1 7	23 31	0 8	24 6	0 23	4 27	1 44	31 18	9 30	11 17	11 43	16 24		n.a.
W21	2 30	7 7	0n50	4 4	2 41	6 11	1 24	6 33	0 55	2 4	1 7	23 31	0 8	24 6	0 23	4 26	1 44	31 18	9 30	11 17	11 44	16 21		n.a.
T 22	2 6	0 3	2 9	3 27	2 27	5 41	1 23	6 17	0 55	2 9	1 7	23 32	0 8	24 6	0 23	4 25	1 44	31 18	9 29	11 17	11 45	16 18		n.a.
F 23	1 42	6n56	3 18	2 46	2 12	5 10	1 23	6 1	0 54	2 15	1 7	23 32	0 8	24 6	0 23	4 25	1 44	31 18	9 29	11 18	11 46	16 15		n.a.
S 24	1 18	13 25	4 13	2 1	1 55	4 39	1 22	5 45	0 54	2 20	1 7	23 32	0 8	24 6	0 23	4 24	1 44	31 18	9 29	11 19	11 47	16 13		n.a.
S 25	0 54	19 1	4 50	1 14	1 36	4 9	1 21	5 29	0 54	2 25	1 7	23 32	0 7	24 6	0 23	4 23	1 44	31 18	9 29	11 21	11 48	16 10		n.a.
M26	0 29	23 28	5 10	0 25	1 17	3 38	1 20	5 13	0 53	2 30	1 7	23 32	0 7	24 6	0 23	4 22	1 44	31 18	9 29	11 22	11 49	16 7		n.a.
T 27	0 5	26 32	5 13	0n23	0 56	3 7	1 19	4 57	0 53	2 36	1 7	23 32	0 7	24 6	0 23	4 21	1 44	31 17	9 29	11 23	11 50	16 4		n.a.
W28	0s19	28 8	4 59	1 11	0 36	2 36	1 18	4 40	0 53	2 41	1 7	23 32	0 7	24 6	0 23	4 20	1 44	31 17	9 28	11 24	11 52	16 1		n.a.
T 29	0 43	28 15	4 32	1 55	0 15	2 4	1 17	4 24	0 52	2 46	1 7	23 33	0 7	24 6	0 23	4 19	1 44	31 17	9 28	11 24	11 53	15 58		n.a.
F 30	1s 7	26n59	3n53	2n37	0n 5	1n33	1n16	4n 7	0n52	2s52	1n 7	23s33	0n 7	24s 6	0s23	4n18	1n44	31s17	9s28	11s24	11s54	15n55		n.a.

Julian Day Number = 1652268.5, Delta T = 03h30m21s
Ecliptic obliquity = 23°43'14, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°40'56, Lahiri = - 6°33'56 Julian Calendar 1 Sept. 190 BCE == Greg. Calendar 29 Aug. 190 BCE

The year -189 astronomical counting style corresponds to year 190 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 190 BCE
geocentric

OCTOBER 190 BCE (-189) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 22 11	3♎47'10	24♋30	22°R54	0♎18	22♍22	9♎54	26♐12	29♐46	23♍16	21°R41	0♓35	29♒ 7	19♌44	n.a.	S 1
S 2	0 26 8	4°47'21	6♌19	22♍17	1°33	23° 3	10° 8	26°14	29°47	23°18	21♑41	0°37	29° 4	19°51	n.a.	S 2
M 3	0 30 5	5°47'34	18° 6	21°52	2°49	23°43	10°21	26°17	29°48	23°20	21°41	0°38	29° 1	19°57	n.a.	M 3
T 4	0 34 1	6°47'49	29°55	21°38	4° 4	24°24	10°34	26°20	29°49	23°23	21°41	0°R39	28°58	20° 4	n.a.	T 4
W 5	0 37 58	7°48'06	11♍49	21°D36	5°20	25° 4	10°47	26°23	29°50	23°25	21°41	0°38	28°54	20°11	n.a.	W 5
T 6	0 41 54	8°48'25	23°52	21°45	6°35	25°45	11° 1	26°26	29°52	23°27	21°40	0°36	28°51	20°17	n.a.	T 6
F 7	0 45 51	9°48'45	6♎ 6	22° 4	7°51	26°25	11°14	26°29	29°53	23°29	21°40	0°31	28°48	20°24	n.a.	F 7
S 8	0 49 47	10°49'08	18°31	22°34	9° 6	27° 6	11°27	26°33	29°54	23°31	21°40	0°25	28°45	20°31	n.a.	S 8
S 9	0 53 44	11°49'32	1♏10	23°12	10°22	27°46	11°40	26°36	29°55	23°34	21°D40	0°18	28°42	20°37	n.a.	S 9
M10	0 57 40	12°49'59	14° 1	23°58	11°37	28°27	11°54	26°39	29°57	23°36	21°40	0°10	28°38	20°44	n.a.	M10
T 11	1 1 37	13°50'27	27° 5	24°51	12°53	29° 8	12° 7	26°43	29°58	23°38	21°40	0° 3	28°35	20°51	n.a.	T 11
W12	1 5 33	14°50'56	10♐22	25°50	14° 8	29°49	12°20	26°46	29°59	23°40	21°40	29♒56	28°32	20°57	n.a.	W12
T 13	1 9 30	15°51'27	23°51	26°55	15°24	0♎29	12°33	26°50	0♑ 1	23°42	21°40	29°52	28°29	21° 4	n.a.	T 13
F 14	1 13 27	16°51'59	7♑32	28° 5	16°39	1°10	12°47	26°54	0° 3	23°44	21°41	29°50	28°26	21°11	n.a.	F 14
S 15	1 17 23	17°52'33	21°26	29°19	17°55	1°51	13° 0	26°58	0° 4	23°46	21°41	29°D49	28°23	21°17	n.a.	S 15
S 16	1 21 20	18°53'08	5♒32	0♎36	19°10	2°32	13°13	27° 2	0° 6	23°48	21°41	29°50	28°19	21°24	n.a.	S 16
M17	1 25 16	19°53'45	19°50	1°57	20°26	3°13	13°26	27° 6	0° 7	23°50	21°41	29°51	28°16	21°31	n.a.	M17
T 18	1 29 13	20°54'22	4♓17	3°19	21°41	3°54	13°40	27°10	0° 9	23°52	21°41	29°R52	28°13	21°37	n.a.	T 18
W19	1 33 9	21°55'01	18°51	4°44	22°57	4°35	13°53	27°14	0°11	23°55	21°41	29°50	28°10	21°44	n.a.	W19
T 20	1 37 6	22°55'41	3♈25	6°11	24°12	5°16	14° 6	27°18	0°13	23°57	21°42	29°46	28° 7	21°50	n.a.	T 20
F 21	1 41 2	23°56'23	17°55	7°39	25°28	5°57	14°19	27°23	0°15	23°59	21°42	29°40	28° 4	21°57	n.a.	F 21
S 22	1 44 59	24°57'06	2♉13	9° 8	26°43	6°38	14°32	27°27	0°16	24° 1	21°42	29°31	28° 0	22° 4	n.a.	S 22
S 23	1 48 56	25°57'50	16°13	10°38	27°59	7°19	14°46	27°32	0°18	24° 3	21°43	29°21	27°57	22°10	n.a.	S 23
M24	1 52 52	26°58'36	29°51	12°10	29°14	8° 0	14°59	27°36	0°20	24° 4	21°43	29°12	27°54	22°17	n.a.	M24
T 25	1 56 49	27°59'24	13♊ 5	13°41	0♏30	8°41	15°12	27°41	0°22	24° 6	21°44	29° 3	27°51	22°24	n.a.	T 25
W26	2 0 45	29° 0'14	25°55	15°14	1°45	9°23	15°25	27°45	0°24	24° 8	21°44	28°55	27°48	22°30	n.a.	W26
T 27	2 4 42	0♏ 1'05	8♋24	16°46	3° 1	10° 4	15°38	27°50	0°27	24°10	21°44	28°51	27°44	22°37	n.a.	T 27
F 28	2 8 38	1° 1'57	20°34	18°19	4°16	10°45	15°51	27°55	0°29	24°12	21°45	28°48	27°41	22°44	n.a.	F 28
S 29	2 12 35	2° 2'51	2♌32	19°52	5°32	11°27	16° 4	28° 0	0°31	24°14	21°45	28°D47	27°38	22°50	n.a.	S 29
S 30	2 16 32	3° 3'46	14°21	21°26	6°47	12° 8	16°17	28° 5	0°33	24°16	21°46	28°48	27°35	22°57	n.a.	S 30
M31	2 20 28	4♏ 4'43	26♌ 8	23♎ 0	8♏ 3	12♎50	16♎30	28♐10	0♑35	24♍18	21♑47	28°R48	27♒32	23♌ 4	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	1s31	24n30	3n 5	3n13	0n24	1n 2	1n15	3n51	0n52	2s57	1n 7	23s33	0n 7	24s 6	0s23	4n17	1n44	31s17	9s28	11s24	11s55	15n52		n.a.
S 2	1 55	21 0	2 9	3 44	0 42	0 30	1 14	3 34	0 51	3 2	1 7	23 33	0 7	24 6	0 23	4 17	1 44	31 17	9 28	11 23	11 56	15 49		n.a.
M 3	2 20	16 40	1 8	4 9	0 58	0s 1	1 13	3 18	0 51	3 7	1 7	23 33	0 7	24 6	0 23	4 16	1 44	31 17	9 27	11 22	11 57	15 46		n.a.
T 4	2 44	11 42	0 4	4 28	1 13	0 33	1 12	3 1	0 50	3 13	1 7	23 34	0 7	24 6	0 23	4 15	1 44	31 16	9 27	11 22	11 58	15 43		n.a.
W 5	3 8	6 17	1s 1	4 41	1 26	1 4	1 10	2 45	0 50	3 18	1 6	23 34	0 7	24 6	0 23	4 14	1 44	31 16	9 27	11 22	11 59	15 40		n.a.
T 6	3 32	0 35	2 3	4 48	1 37	1 36	1 9	2 28	0 50	3 23	1 6	23 34	0 6	24 6	0 23	4 13	1 44	31 16	9 27	11 23	12 1	15 37		n.a.
F 7	3 56	5s12	3 1	4 49	1 47	2 7	1 7	2 12	0 49	3 29	1 6	23 34	0 6	24 6	0 23	4 12	1 44	31 16	9 27	11 25	12 2	15 34		n.a.
S 8	4 20	10 53	3 51	4 45	1 55	2 39	1 6	1 55	0 49	3 34	1 6	23 34	0 6	24 6	0 23	4 11	1 44	31 16	9 27	11 27	12 3	15 31		n.a.
S 9	4 44	16 13	4 30	4 35	2 2	3 10	1 4	1 38	0 49	3 39	1 6	23 34	0 6	24 6	0 23	4 11	1 44	31 16	9 26	11 30	12 4	15 28		n.a.
M10	5 8	20 56	4 57	4 22	2 7	3 41	1 3	1 21	0 48	3 44	1 6	23 35	0 6	24 6	0 23	4 10	1 44	31 15	9 26	11 33	12 5	15 25		n.a.
T 11	5 31	24 44	5 8	4 4	2 10	4 12	1 1	1 5	0 48	3 50	1 6	23 35	0 6	24 6	0 23	4 9	1 44	31 15	9 26	11 35	12 6	15 22		n.a.
W12	5 55	27 16	5 4	3 42	2 13	4 44	0 59	0 48	0 47	3 55	1 6	23 35	0 6	24 6	0 23	4 8	1 44	31 15	9 26	11 38	12 7	15 19		n.a.
T 13	6 19	28 16	4 42	3 17	2 14	5 15	0 58	0 31	0 47	4 0	1 6	23 35	0 6	24 6	0 23	4 7	1 44	31 15	9 26	11 39	12 8	15 16		n.a.
F 14	6 42	27 34	4 5	2 49	2 15	5 46	0 56	0 14	0 47	4 5	1 6	23 35	0 6	24 6	0 23	4 6	1 44	31 15	9 25	11 40	12 9	15 13		n.a.
S 15	7 6	25 9	3 12	2 19	2 14	6 16	0 54	0s 2	0 46	4 11	1 6	23 35	0 6	24 6	0 23	4 6	1 44	31 14	9 25	11 40	12 11	15 10		n.a.
S 16	7 29	21 10	2 7	1 47	2 13	6 47	0 52	0 19	0 46	4 16	1 6	23 36	0 6	24 6	0 23	4 5	1 44	31 14	9 25	11 40	12 12	15 7		n.a.
M17	7 52	15 53	0 54	1 13	2 10	7 18	0 50	0 36	0 45	4 21	1 6	23 36	0 5	24 6	0 23	4 4	1 44	31 14	9 25	11 39	12 13	15 4		n.a.
T 18	8 15	9 41	0n24	0 37	2 8	7 48	0 48	0 53	0 45	4 26	1 6	23 36	0 5	24 6	0 23	4 3	1 44	31 14	9 25	11 39	12 14	15 1		n.a.
W19	8 38	2 56	1 40	0s 0	2 4	8 18	0 46	1 10	0 45	4 31	1 6	23 36	0 5	24 6	0 23	4 2	1 44	31 14	9 24	11 40	12 15	14 58		n.a.
T 20	9 1	3n58	2 50	0 39	2 0	8 48	0 44	1 26	0 44	4 37	1 6	23 36	0 5	24 6	0 23	4 2	1 44	31 13	9 24	11 41	12 16	14 55		n.a.
F 21	9 24	10 37	3 49	1 18	1 56	9 18	0 42	1 43	0 44	4 42	1 6	23 37	0 5	24 6	0 23	4 1	1 44	31 13	9 24	11 43	12 17	14 52		n.a.
S 22	9 46	16 37	4 32	1 58	1 51	9 48	0 40	2 0	0 43	4 47	1 6	23 37	0 5	24 6	0 23	4 0	1 44	31 13	9 24	11 46	12 18	14 49		n.a.
S 23	10 9	21 37	4 57	2 38	1 46	10 17	0 38	2 17	0 43	4 52	1 6	23 37	0 5	24 6	0 23	3 59	1 45	31 13	9 24	11 50	12 19	14 46		n.a.
M24	10 31	25 19	5 5	3 19	1 41	10 46	0 36	2 34	0 42	4 57	1 6	23 37	0 5	24 6	0 23	3 59	1 45	31 12	9 23	11 53	12 21	14 43		n.a.
T 25	10 53	27 32	4 56	4 0	1 35	11 15	0 34	2 51	0 42	5 2	1 6	23 37	0 5	24 6	0 23	3 58	1 45	31 12	9 23	11 57	12 22	14 40		n.a.
W26	11 15	28 11	4 32	4 42	1 29	11 44	0 32	3 7	0 41	5 7	1 6	23 37	0 5	24 6	0 23	3 57	1 45	31 12	9 23	11 59	12 23	14 37		n.a.
T 27	11 37	27 22	3 56	5 23	1 23	12 12	0 30	3 24	0 41	5 13	1 6	23 38	0 5	24 6	0 23	3 56	1 45	31 12	9 23	12 1	12 24	14 34		n.a.
F 28	11 58	25 15	3 10	6 5	1 17	12 40	0 27	3 41	0 41	5 18	1 6	23 38	0 5	24 6	0 23	3 56	1 45	31 11	9 23	12 2	12 25	14 31		n.a.
S 29	12 19	22 2	2 16	6 46	1 11	13 8	0 25	3 58	0 40	5 23	1 6	23 38	0 4	24 6	0 23	3 55	1 45	31 11	9 23	12 2	12 26	14 28		n.a.
S 30	12 41	17 56	1 16	7 28	1 4	13 35	0 23	4 15	0 40	5 28	1 6	23 38	0 4	24 6	0 23	3 54	1 45	31 11	9 22	12 2	12 27	14 25		n.a.
M31	13s 2	13n11	0n14	8s 9	0n58	14s 2	0n20	4s31	0n39	5s33	1n 6	23s38	0n 4	24s 6	0s22	3n54	1n45	31s10	9s22	12s 2	12s28	14n22		n.a.

Julian Day Number = 1652298.5, Delta T = 03h30m20s
Ecliptic obliquity = 23°43'14, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°40'52, Lahiri = - 6°33'52 Julian Calendar 1 Oct. 190 BCE == Greg. Calendar 28 Sept. 190 BCE

The year -189 astronomical counting style corresponds to year 190 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 190 BCE
geocentric

NOVEMBER 190 BCE (-189) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 24 25	5♏ 5'42	7♍58	24♎33	9♏18	13♎31	16♎43	28♐15	0♑38	24♍20	21♑47	28°R48	27♒29	23♌10	n.a.	T 1
W 2	2 28 21	6° 6'41	19°56	26° 7	10°34	14°13	16°56	28°20	0°40	24°21	21°48	28♒46	27°25	23°17	n.a.	W 2
T 3	2 32 18	7° 7'42	2♎ 6	27°41	11°49	14°54	17° 9	28°26	0°43	24°23	21°48	28°41	27°22	23°23	n.a.	T 3
F 4	2 36 14	8° 8'44	14°31	29°15	13° 5	15°36	17°22	28°31	0°45	24°25	21°49	28°33	27°19	23°30	n.a.	F 4
S 5	2 40 11	9° 9'47	27°13	0♏48	14°20	16°17	17°35	28°36	0°47	24°27	21°50	28°23	27°16	23°37	n.a.	S 5
S 6	2 44 7	10°10'52	10♏12	2°22	15°36	16°59	17°47	28°42	0°50	24°28	21°50	28°11	27°13	23°43	n.a.	S 6
M 7	2 48 4	11°11'57	23°27	3°56	16°51	17°41	18° 0	28°47	0°53	24°30	21°51	27°58	27° 9	23°50	n.a.	M 7
T 8	2 52 1	12°13'04	6♐56	5°30	18° 7	18°22	18°13	28°53	0°55	24°32	21°52	27°45	27° 6	23°57	n.a.	T 8
W 9	2 55 57	13°14'11	20°36	7° 4	19°22	19° 4	18°26	28°59	0°58	24°33	21°53	27°35	27° 3	24° 3	n.a.	W 9
T 10	2 59 54	14°15'19	4♑25	8°38	20°38	19°46	18°38	29° 4	1° 0	24°35	21°54	27°27	27° 0	24°10	n.a.	T 10
F 11	3 3 50	15°16'27	18°20	10°12	21°53	20°28	18°51	29°10	1° 3	24°37	21°54	27°21	26°57	24°17	n.a.	F 11
S 12	3 7 47	16°17'36	2♒19	11°46	23° 9	21°10	19° 3	29°16	1° 6	24°38	21°55	27°19	26°54	24°23	n.a.	S 12
S 13	3 11 43	17°18'45	16°21	13°20	24°24	21°52	19°16	29°22	1° 9	24°40	21°56	27°D18	26°50	24°30	n.a.	S 13
M14	3 15 40	18°19'55	0♓27	14°54	25°40	22°34	19°28	29°28	1°11	24°41	21°57	27°R18	26°47	24°37	n.a.	M14
T 15	3 19 36	19°21'04	14°34	16°29	26°55	23°16	19°41	29°34	1°14	24°43	21°58	27°18	26°44	24°43	n.a.	T 15
W16	3 23 33	20°22'15	28°42	18° 3	28°11	23°58	19°53	29°40	1°17	24°44	21°59	27°15	26°41	24°50	n.a.	W16
T 17	3 27 30	21°23'25	12♈49	19°37	29°26	24°40	20° 5	29°46	1°20	24°46	22° 0	27° 9	26°38	24°57	n.a.	T 17
F 18	3 31 26	22°24'36	26°51	21°12	0♐41	25°22	20°18	29°52	1°23	24°47	22° 1	27° 0	26°35	25° 3	n.a.	F 18
S 19	3 35 23	23°25'47	10♉45	22°47	1°57	26° 4	20°30	29°58	1°26	24°48	22° 2	26°49	26°31	25°10	n.a.	S 19
S 20	3 39 19	24°26'59	24°26	24°21	3°12	26°46	20°42	0♑ 4	1°29	24°50	22° 3	26°36	26°28	25°16	n.a.	S 20
M21	3 43 16	25°28'11	7♊50	25°56	4°28	27°28	20°54	0°11	1°32	24°51	22° 4	26°22	26°25	25°23	n.a.	M21
T 22	3 47 12	26°29'24	20°56	27°32	5°43	28°10	21° 6	0°17	1°35	24°52	22° 5	26°10	26°22	25°30	n.a.	T 22
W23	3 51 9	27°30'38	3♋42	29° 7	6°58	28°53	21°18	0°23	1°38	24°54	22° 6	25°59	26°19	25°36	n.a.	W23
T 24	3 55 5	28°31'51	16° 9	0♐43	8°14	29°35	21°30	0°30	1°41	24°55	22° 8	25°51	26°15	25°43	n.a.	T 24
F 25	3 59 2	29°33'05	28°19	2°19	9°29	0♏17	21°42	0°36	1°44	24°56	22° 9	25°46	26°12	25°50	n.a.	F 25
S 26	4 2 59	0♐34'20	10♌17	3°55	10°44	1° 0	21°54	0°43	1°47	24°57	22°10	25°44	26° 9	25°56	n.a.	S 26
S 27	4 6 55	1°35'35	22° 7	5°31	12° 0	1°42	22° 5	0°49	1°50	24°58	22°11	25°43	26° 6	26° 3	n.a.	S 27
M28	4 10 52	2°36'50	3♍54	7° 8	13°15	2°25	22°17	0°56	1°54	24°59	22°12	25°43	26° 3	26°10	n.a.	M28
T 29	4 14 48	3°38'06	15°44	8°44	14°30	3° 7	22°28	1° 2	1°57	25° 1	22°14	25°43	26° 0	26°16	n.a.	T 29
W30	4 18 45	4♐39'22	27♍43	10♐22	15♐46	3♏50	22♎40	1♑ 9	2♑ 0	25♍ 2	22♑15	25♒41	25♒56	26♌23	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13 s22	7n56	0 s49	8 s50	0n51	14 s29	0n18	4 s48	0n39	5 s38	1n 6	23 s38	0n 4	24 s 6	0 s22	3n53	1n45	31 s10	9 s22	12 s 2	12 s29	14n19		n.a.
W 2	13 43	2 21	1 50	9 31	0 44	14 55	0 16	5 5	0 38	5 43	1 6	23 38	0 4	24 6	0 22	3 52	1 45	31 10	9 22	12 3	12 31	14 16		n.a.
T 3	14 3	3 s24	2 47	10 11	0 37	15 21	0 13	5 22	0 38	5 48	1 6	23 39	0 4	24 6	0 22	3 51	1 45	31 10	9 22	12 4	12 32	14 13		n.a.
F 4	14 23	9 8	3 38	10 51	0 31	15 46	0 11	5 38	0 37	5 53	1 6	23 39	0 4	24 6	0 22	3 51	1 45	31 9	9 21	12 7	12 33	14 10		n.a.
S 5	14 43	14 37	4 18	11 31	0 24	16 11	0 9	5 55	0 37	5 58	1 6	23 39	0 4	24 6	0 22	3 50	1 45	31 9	9 21	12 11	12 34	14 7		n.a.
S 6	15 3	19 34	4 47	12 10	0 17	16 36	0 6	6 11	0 36	6 3	1 6	23 39	0 4	24 6	0 22	3 50	1 45	31 9	9 21	12 15	12 35	14 4		n.a.
M 7	15 22	23 41	5 0	12 49	0 10	17 0	0 4	6 28	0 36	6 7	1 6	23 39	0 4	24 5	0 22	3 49	1 45	31 8	9 21	12 19	12 36	14 1		n.a.
T 8	15 41	26 36	4 57	13 27	0 4	17 24	0 2	6 45	0 35	6 12	1 6	23 39	0 4	24 5	0 22	3 48	1 45	31 8	9 21	12 24	12 37	13 58		n.a.
W 9	16 0	28 0	4 38	14 5	0 s 3	17 47	0 s 1	7 1	0 35	6 17	1 6	23 39	0 4	24 5	0 22	3 48	1 45	31 8	9 21	12 27	12 38	13 55		n.a.
T 10	16 18	27 40	4 1	14 42	0 10	18 10	0 3	7 17	0 34	6 22	1 6	23 40	0 3	24 5	0 22	3 47	1 45	31 7	9 20	12 30	12 39	13 52		n.a.
F 11	16 36	25 36	3 11	15 18	0 16	18 33	0 6	7 34	0 34	6 27	1 6	23 40	0 3	24 5	0 22	3 46	1 45	31 7	9 20	12 32	12 40	13 49		n.a.
S 12	16 54	21 57	2 8	15 54	0 23	18 54	0 8	7 50	0 33	6 32	1 6	23 40	0 3	24 5	0 22	3 46	1 45	31 7	9 20	12 33	12 42	13 46		n.a.
S 13	17 12	17 2	0 58	16 29	0 29	19 16	0 10	8 7	0 33	6 36	1 6	23 40	0 3	24 5	0 22	3 45	1 45	31 7	9 20	12 33	12 43	13 42		n.a.
M14	17 29	11 11	0n17	17 4	0 35	19 36	0 13	8 23	0 32	6 41	1 6	23 40	0 3	24 5	0 22	3 45	1 45	31 6	9 20	12 33	12 44	13 39		n.a.
T 15	17 46	4 46	1 30	17 37	0 42	19 57	0 15	8 39	0 32	6 46	1 6	23 40	0 3	24 5	0 22	3 44	1 46	31 6	9 20	12 33	12 45	13 36		n.a.
W16	18 3	1n53	2 38	18 10	0 48	20 16	0 18	8 55	0 31	6 50	1 6	23 40	0 3	24 5	0 22	3 44	1 46	31 6	9 19	12 34	12 46	13 33		n.a.
T 17	18 19	8 25	3 36	18 42	0 54	20 35	0 20	9 11	0 31	6 55	1 7	23 40	0 3	24 5	0 22	3 43	1 46	31 5	9 19	12 36	12 47	13 30		n.a.
F 18	18 35	14 30	4 20	19 14	0 59	20 54	0 22	9 27	0 30	7 0	1 7	23 40	0 3	24 5	0 22	3 43	1 46	31 5	9 19	12 39	12 48	13 27		n.a.
S 19	18 51	19 47	4 48	19 44	1 5	21 12	0 25	9 43	0 29	7 4	1 7	23 40	0 3	24 5	0 22	3 42	1 46	31 5	9 19	12 43	12 49	13 24		n.a.
S 20	19 6	23 56	5 0	20 13	1 11	21 29	0 27	9 59	0 29	7 9	1 7	23 41	0 3	24 5	0 22	3 42	1 46	31 4	9 19	12 48	12 50	13 21		n.a.
M21	19 21	26 42	4 54	20 42	1 16	21 46	0 29	10 15	0 28	7 13	1 7	23 41	0 3	24 5	0 22	3 41	1 46	31 4	9 19	12 52	12 51	13 18		n.a.
T 22	19 36	27 57	4 33	21 9	1 21	22 2	0 32	10 31	0 28	7 18	1 7	23 41	0 3	24 5	0 22	3 41	1 46	31 4	9 19	12 57	12 52	13 15		n.a.
W23	19 50	27 38	3 58	21 36	1 26	22 17	0 34	10 47	0 27	7 22	1 7	23 41	0 2	24 5	0 22	3 40	1 46	31 3	9 18	13 0	12 54	13 12		n.a.
T 24	20 4	25 55	3 13	22 1	1 31	22 32	0 36	11 2	0 27	7 27	1 7	23 41	0 2	24 5	0 22	3 40	1 46	31 3	9 18	13 3	12 55	13 9		n.a.
F 25	20 17	23 1	2 20	22 25	1 35	22 46	0 38	11 18	0 26	7 31	1 7	23 41	0 2	24 5	0 22	3 39	1 46	31 3	9 18	13 5	12 56	13 5		n.a.
S 26	20 31	19 10	1 21	22 48	1 40	22 59	0 40	11 33	0 25	7 36	1 7	23 41	0 2	24 5	0 22	3 39	1 46	31 2	9 18	13 5	12 57	13 2		n.a.
S 27	20 43	14 36	0 19	23 10	1 44	23 12	0 43	11 49	0 25	7 40	1 7	23 41	0 2	24 5	0 22	3 39	1 46	31 2	9 18	13 6	12 58	12 59		n.a.
M28	20 56	9 31	0 s43	23 31	1 47	23 24	0 45	12 4	0 24	7 44	1 7	23 41	0 2	24 5	0 22	3 38	1 46	31 2	9 18	13 6	12 59	12 56		n.a.
T 29	21 8	4 5	1 44	23 51	1 51	23 35	0 47	12 20	0 24	7 48	1 7	23 41	0 2	24 5	0 22	3 38	1 46	31 1	9 18	13 6	13 0	12 53		n.a.
W30	21 s19	1 s32	2 s41	24 s 9	1 s54	23 s46	0 s49	12 s35	0n23	7 s53	1n 7	23 s41	0n 2	24 s 5	0 s22	3n37	1n46	31 s 1	9 s17	13 s 7	13 s 1	12n50		n.a.

Julian Day Number = 1652329.5, Delta T = 03h30m19s
Ecliptic obliquity = 23°43'13, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°40'48, Lahiri = - 6°33'47 Julian Calendar 1 Nov. 190 BCE == Greg. Calendar 29 Oct. 190 BCE

The year -189 astronomical counting style corresponds to year 190 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 190 BCE
geocentric

DECEMBER 190 BCE (-189) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 22 41	5♐40'38	9♎56	11♐59	17♐ 1	4♏32	22♎51	1♑16	2♑ 3	25♍ 3	22♑16	25°R36	25♒53	26♌30	n.a.	T 1
F 2	4 26 38	6°41'55	22°27	13°37	18°16	5°15	23° 3	1°22	2° 6	25° 4	22°17	25♒29	25°50	26°36	n.a.	F 2
S 3	4 30 35	7°43'12	5♏19	15°15	19°32	5°57	23°14	1°29	2°10	25° 5	22°19	25°19	25°47	26°43	n.a.	S 3
S 4	4 34 31	8°44'29	18°32	16°53	20°47	6°40	23°25	1°36	2°13	25° 6	22°20	25° 7	25°44	26°49	n.a.	S 4
M 5	4 38 28	9°45'46	2♐ 8	18°31	22° 2	7°23	23°36	1°42	2°16	25° 6	22°21	24°55	25°41	26°56	n.a.	M 5
T 6	4 42 24	10°47'03	16° 1	20° 9	23°18	8° 6	23°47	1°49	2°20	25° 7	22°23	24°42	25°37	27° 3	n.a.	T 6
W 7	4 46 21	11°48'19	0♑ 9	21°48	24°33	8°48	23°58	1°56	2°23	25° 8	22°24	24°31	25°34	27° 9	n.a.	W 7
T 8	4 50 17	12°49'36	14°25	23°27	25°48	9°31	24° 9	2° 3	2°26	25° 9	22°26	24°23	25°31	27°16	n.a.	T 8
F 9	4 54 14	13°50'51	28°45	25° 5	27° 3	10°14	24°20	2°10	2°30	25°10	22°27	24°18	25°28	27°23	n.a.	F 9
S 10	4 58 10	14°52'07	13♒ 3	26°44	28°19	10°57	24°31	2°17	2°33	25°10	22°29	24°16	25°25	27°29	n.a.	S 10
S 11	5 2 7	15°53'21	27°17	28°22	29°34	11°40	24°41	2°24	2°37	25°11	22°30	24°D15	25°21	27°36	n.a.	S 11
M12	5 6 4	16°54'35	11♓25	0♑ 0	0♑49	12°23	24°52	2°31	2°40	25°12	22°31	24°R16	25°18	27°43	n.a.	M12
T 13	5 10 0	17°55'48	25°26	1°38	2° 4	13° 6	25° 2	2°38	2°43	25°12	22°33	24°16	25°15	27°49	n.a.	T 13
W14	5 13 57	18°57'00	9♈19	3°15	3°19	13°49	25°12	2°45	2°47	25°13	22°34	24°14	25°12	27°56	n.a.	W14
T 15	5 17 53	19°58'11	23° 5	4°51	4°34	14°32	25°23	2°52	2°50	25°14	22°36	24° 9	25° 9	28° 3	n.a.	T 15
F 16	5 21 50	20°59'22	6♉41	6°26	5°50	15°15	25°33	2°59	2°54	25°14	22°37	24° 2	25° 6	28° 9	n.a.	F 16
S 17	5 25 46	22° 0'32	20° 8	7°59	7° 5	15°58	25°43	3° 6	2°57	25°15	22°39	23°53	25° 2	28°16	n.a.	S 17
S 18	5 29 43	23° 1'41	3♊24	9°31	8°20	16°41	25°53	3°13	3° 1	25°15	22°41	23°42	24°59	28°23	n.a.	S 18
M19	5 33 40	24° 2'49	16°26	11° 1	9°35	17°24	26° 2	3°20	3° 4	25°16	22°42	23°31	24°56	28°29	n.a.	M19
T 20	5 37 36	25° 3'57	29°14	12°28	10°50	18° 8	26°12	3°27	3° 8	25°16	22°44	23°20	24°53	28°36	n.a.	T 20
W21	5 41 33	26° 5'04	11♋47	13°52	12° 5	18°51	26°22	3°34	3°11	25°16	22°45	23°11	24°50	28°42	n.a.	W21
T 22	5 45 29	27° 6'10	24° 6	15°12	13°20	19°34	26°31	3°41	3°15	25°17	22°47	23° 5	24°47	28°49	n.a.	T 22
F 23	5 49 26	28° 7'15	6♌12	16°28	14°35	20°17	26°41	3°48	3°18	25°17	22°49	23° 1	24°43	28°56	n.a.	F 23
S 24	5 53 22	29° 8'20	18° 8	17°39	15°50	21° 1	26°50	3°56	3°22	25°17	22°50	22°D59	24°40	29° 2	n.a.	S 24
S 25	5 57 19	0♑ 9'24	29°58	18°44	17° 5	21°44	26°59	4° 3	3°25	25°17	22°52	22°59	24°37	29° 9	n.a.	S 25
M26	6 1 15	1°10'27	11♍44	19°42	18°20	22°28	27° 8	4°10	3°29	25°18	22°53	23° 0	24°34	29°16	n.a.	M26
T 27	6 5 12	2°11'29	23°34	20°33	19°35	23°11	27°17	4°17	3°33	25°18	22°55	23° 1	24°31	29°22	n.a.	T 27
W28	6 9 9	3°12'31	5♎32	21°16	20°50	23°55	27°26	4°24	3°36	25°18	22°57	23°R 2	24°27	29°29	n.a.	W28
T 29	6 13 5	4°13'32	17°44	21°49	22° 5	24°38	27°35	4°31	3°40	25°18	22°58	23° 1	24°24	29°36	n.a.	T 29
F 30	6 17 2	5°14'32	0♏14	22°13	23°20	25°22	27°43	4°38	3°43	25°18	23° 0	22°57	24°21	29°42	n.a.	F 30
S 31	6 20 58	6♑15'31	13♏ 6	22♑26	24♑35	26♏ 5	27♎52	4♑46	3♑47	25°R18	23♑ 2	22♒52	24♒18	29♌49	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	21 s30	7 s13	3 s32	24 s25	1 s57	23 s56	0 s51	12 s50	0n23	7 s57	1n 7	23 s41	0n 2	24 s 5	0 s22	3n37	1n46	31 s 0	9 s17	13 s 8	13 s 2	12n47			n.a.
F 2	21 41	12 45	4 13	24 41	2 0	24 5	0 53	13 5	0 22	8 1	1 7	23 41	0 2	24 5	0 22	3 37	1 47	31 0	9 17	13 11	13 3	12 44			n.a.
S 3	21 51	17 53	4 43	24 54	2 2	24 13	0 55	13 20	0 21	8 5	1 8	23 41	0 2	24 4	0 22	3 36	1 47	31 0	9 17	13 14	13 4	12 41			n.a.
S 4	22 1	22 20	4 59	25 7	2 4	24 21	0 57	13 34	0 21	8 9	1 8	23 41	0 2	24 4	0 22	3 36	1 47	30 59	9 17	13 18	13 6	12 37			n.a.
M 5	22 11	25 42	4 59	25 18	2 5	24 28	0 59	13 49	0 20	8 13	1 8	23 41	0 2	24 4	0 22	3 36	1 47	30 59	9 17	13 22	13 7	12 34			n.a.
T 6	22 19	27 38	4 41	25 27	2 6	24 34	1 1	14 4	0 19	8 17	1 8	23 41	0 1	24 4	0 22	3 35	1 47	30 59	9 17	13 26	13 8	12 31			n.a.
W 7	22 28	27 49	4 6	25 34	2 7	24 39	1 3	14 18	0 19	8 21	1 8	23 41	0 1	24 4	0 22	3 35	1 47	30 58	9 17	13 30	13 9	12 28			n.a.
T 8	22 36	26 9	3 15	25 40	2 7	24 44	1 5	14 33	0 18	8 25	1 8	23 41	0 1	24 4	0 22	3 35	1 47	30 58	9 17	13 33	13 10	12 25			n.a.
F 9	22 44	22 47	2 11	25 44	2 6	24 48	1 6	14 47	0 18	8 29	1 8	23 41	0 1	24 4	0 22	3 35	1 47	30 58	9 16	13 35	13 11	12 22			n.a.
S 10	22 51	18 2	0 59	25 46	2 6	24 51	1 8	15 1	0 17	8 33	1 8	23 41	0 1	24 4	0 22	3 34	1 47	30 57	9 16	13 35	13 12	12 19			n.a.
S 11	22 58	12 18	0n16	25 47	2 4	24 53	1 10	15 15	0 16	8 37	1 8	23 41	0 1	24 4	0 22	3 34	1 47	30 57	9 16	13 35	13 13	12 15			n.a.
M12	23 4	5 59	1 30	25 45	2 2	24 54	1 11	15 29	0 16	8 41	1 8	23 41	0 1	24 4	0 22	3 34	1 47	30 57	9 16	13 35	13 14	12 12			n.a.
T 13	23 10	0n35	2 38	25 42	1 59	24 55	1 13	15 43	0 15	8 44	1 8	23 41	0 1	24 4	0 22	3 34	1 47	30 56	9 16	13 35	13 15	12 9			n.a.
W14	23 15	7 2	3 36	25 37	1 56	24 55	1 14	15 57	0 14	8 48	1 9	23 41	0 1	24 4	0 22	3 34	1 47	30 56	9 16	13 36	13 16	12 6			n.a.
T 15	23 20	13 6	4 21	25 30	1 52	24 54	1 16	16 10	0 14	8 52	1 9	23 41	0 1	24 4	0 22	3 33	1 47	30 56	9 16	13 37	13 17	12 3			n.a.
F 16	23 25	18 28	4 50	25 21	1 47	24 53	1 17	16 24	0 13	8 55	1 9	23 40	0 1	24 4	0 22	3 33	1 47	30 55	9 16	13 40	13 19	12 0			n.a.
S 17	23 29	22 50	5 3	25 10	1 42	24 50	1 19	16 37	0 12	8 59	1 9	23 40	0 1	24 4	0 22	3 33	1 48	30 55	9 16	13 43	13 20	11 57			n.a.
S 18	23 32	25 58	4 59	24 58	1 35	24 47	1 20	16 50	0 12	9 3	1 9	23 40	0 1	24 3	0 22	3 33	1 48	30 55	9 16	13 47	13 21	11 53			n.a.
M19	23 35	27 40	4 40	24 43	1 28	24 43	1 21	17 3	0 11	9 6	1 9	23 40	0 0	24 3	0 22	3 33	1 48	30 54	9 16	13 50	13 22	11 50			n.a.
T 20	23 38	27 50	4 7	24 27	1 20	24 38	1 22	17 16	0 10	9 10	1 9	23 40	0 0	24 3	0 22	3 33	1 48	30 54	9 16	13 54	13 23	11 47			n.a.
W21	23 40	26 33	3 22	24 10	1 11	24 33	1 24	17 29	0 9	9 13	1 9	23 40	0 0	24 3	0 22	3 33	1 48	30 54	9 16	13 57	13 24	11 44			n.a.
T 22	23 41	23 59	2 29	23 51	1 1	24 27	1 25	17 41	0 9	9 16	1 9	23 40	0 0	24 3	0 22	3 33	1 48	30 53	9 16	13 59	13 25	11 41			n.a.
F 23	23 42	20 22	1 29	23 31	0 50	24 20	1 26	17 54	0 8	9 20	1 9	23 40	0 0	24 3	0 22	3 33	1 48	30 53	9 15	14 0	13 26	11 38			n.a.
S 24	23 43	15 59	0 26	23 10	0 38	24 12	1 27	18 6	0 7	9 23	1 10	23 40	0 0	24 3	0 22	3 33	1 48	30 53	9 15	14 1	13 27	11 35			n.a.
S 25	23 43	11 2	0 s38	22 48	0 25	24 4	1 28	18 18	0 7	9 26	1 10	23 39	0 0	24 3	0 22	3 33	1 48	30 52	9 15	14 1	13 28	11 31			n.a.
M26	23 43	5 43	1 39	22 26	0 11	23 54	1 28	18 30	0 6	9 29	1 10	23 39	0 s 0	24 3	0 22	3 33	1 48	30 52	9 15	14 1	13 29	11 28			n.a.
T 27	23 42	0 11	2 37	22 3	0n 4	23 45	1 29	18 42	0 5	9 32	1 10	23 39	0 0	24 3	0 22	3 33	1 48	30 52	9 15	14 0	13 30	11 25			n.a.
W28	23 41	5 s25	3 29	21 41	0 20	23 34	1 30	18 54	0 4	9 35	1 10	23 39	0 0	24 3	0 22	3 33	1 48	30 51	9 15	14 0	13 31	11 22			n.a.
T 29	23 39	10 55	4 12	21 19	0 37	23 22	1 31	19 5	0 4	9 38	1 10	23 39	0 0	24 3	0 22	3 33	1 48	30 51	9 15	14 0	13 32	11 19			n.a.
F 30	23 37	16 7	4 45	20 58	0 54	23 10	1 31	19 17	0 3	9 41	1 10	23 39	0 0	24 2	0 22	3 33	1 48	30 51	9 15	14 1	13 34	11 15			n.a.
S 31	23 s34	20 s46	5 s 4	20 s39	1n12	22 s58	1 s32	19 s28	0n 2	9 s44	1n10	23 s38	0 s 0	24 s 2	0 s22	3n33	1n48	30 s50	9 s15	14 s 3	13 s35	11n12			n.a.

Julian Day Number = 1652359.5, Delta T = 03h30m18s
Ecliptic obliquity = 23°43'13, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°40'44, Lahiri = - 6°33'43 Julian Calendar 1 Dec. 190 BCE == Greg. Calendar 28 Nov. 190 BCE

The year -189 astronomical counting style corresponds to year 190 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 189 BCE
geocentric

JANUARY 189 BCE (-188) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 24 55	7♑16'29	26♏24	22°R29	25♑49	26♏49	28♎ 0	4♑53	3♑50	25°R18	23♑ 4	22°R46	24♒15	29♌56	n.a.	S 1
M 2	6 28 51	8°17'27	10♐ 7	22♑20	27° 4	27°32	28° 8	5° 0	3°54	25♍18	23° 5	22♒38	24°12	0♍ 2	n.a.	M 2
T 3	6 32 48	9°18'23	24°15	21°59	28°19	28°16	28°16	5° 7	3°57	25°18	23° 7	22°30	24° 8	0° 9	n.a.	T 3
W 4	6 36 44	10°19'19	8♑42	21°28	29°34	29° 0	28°24	5°14	4° 1	25°18	23° 9	22°24	24° 5	0°16	n.a.	W 4
T 5	6 40 41	11°20'13	23°23	20°47	0♒49	29°44	28°32	5°21	4° 4	25°18	23°10	22°19	24° 2	0°22	n.a.	T 5
F 6	6 44 38	12°21'06	8♒10	19°57	2° 3	0♐27	28°39	5°28	4° 8	25°17	23°12	22°16	23°59	0°29	n.a.	F 6
S 7	6 48 34	13°21'57	22°55	18°58	3°18	1°11	28°47	5°36	4°11	25°17	23°14	22°D15	23°56	0°35	n.a.	S 7
S 8	6 52 31	14°22'46	7♓32	17°54	4°33	1°55	28°54	5°43	4°15	25°17	23°16	22°16	23°53	0°42	n.a.	S 8
M 9	6 56 27	15°23'34	21°57	16°45	5°48	2°39	29° 2	5°50	4°18	25°17	23°17	22°18	23°49	0°49	n.a.	M 9
T 10	7 0 24	16°24'20	6♈ 7	15°34	7° 2	3°23	29° 9	5°57	4°22	25°16	23°19	22°19	23°46	0°55	n.a.	T 10
W11	7 4 20	17°25'04	20° 0	14°23	8°17	4° 7	29°16	6° 4	4°25	25°16	23°21	22°R19	23°43	1° 2	n.a.	W11
T 12	7 8 17	18°25'46	3♉38	13°13	9°31	4°51	29°22	6°11	4°29	25°16	23°23	22°18	23°40	1° 9	n.a.	T 12
F 13	7 12 13	19°26'27	16°59	12° 6	10°46	5°35	29°29	6°18	4°32	25°15	23°24	22°15	23°37	1°15	n.a.	F 13
S 14	7 16 10	20°27'06	0♊ 6	11° 4	12° 1	6°19	29°36	6°25	4°36	25°15	23°26	22°11	23°33	1°22	n.a.	S 14
S 15	7 20 7	21°27'43	12°59	10° 8	13°15	7° 3	29°42	6°32	4°39	25°14	23°28	22° 6	23°30	1°29	n.a.	S 15
M16	7 24 3	22°28'19	25°39	9°19	14°30	7°47	29°48	6°39	4°42	25°14	23°30	22° 1	23°27	1°35	n.a.	M16
T 17	7 28 0	23°28'52	8♋ 7	8°37	15°44	8°31	29°54	6°46	4°46	25°13	23°31	21°56	23°24	1°42	n.a.	T 17
W18	7 31 56	24°29'24	20°25	8° 3	16°58	9°15	0♏ 0	6°53	4°49	25°13	23°33	21°52	23°21	1°49	n.a.	W18
T 19	7 35 53	25°29'55	2♌32	7°37	18°13	9°59	0° 6	7° 0	4°53	25°12	23°35	21°49	23°18	1°55	n.a.	T 19
F 20	7 39 49	26°30'23	14°30	7°18	19°27	10°43	0°11	7° 7	4°56	25°11	23°37	21°48	23°14	2° 2	n.a.	F 20
S 21	7 43 46	27°30'50	26°22	7° 6	20°41	11°27	0°17	7°14	4°59	25°11	23°38	21°D47	23°11	2° 9	n.a.	S 21
S 22	7 47 43	28°31'15	8♍10	7°D 2	21°56	12°12	0°22	7°20	5° 3	25°10	23°40	21°48	23° 8	2°15	n.a.	S 22
M23	7 51 39	29°31'39	19°57	7° 5	23°10	12°56	0°27	7°27	5° 6	25° 9	23°42	21°50	23° 5	2°22	n.a.	M23
T 24	7 55 36	0♒32'01	1♎48	7°14	24°24	13°40	0°32	7°34	5° 9	25° 9	23°44	21°52	23° 2	2°28	n.a.	T 24
W25	7 59 32	1°32'21	13°46	7°30	25°38	14°24	0°37	7°41	5°12	25° 8	23°45	21°53	22°59	2°35	n.a.	W25
T 26	8 3 29	2°32'40	25°55	7°51	26°52	15° 9	0°41	7°47	5°16	25° 7	23°47	21°54	22°55	2°42	n.a.	T 26
F 27	8 7 25	3°32'57	8♏22	8°17	28° 6	15°53	0°46	7°54	5°19	25° 6	23°49	21°R54	22°52	2°48	n.a.	F 27
S 28	8 11 22	4°33'13	21°10	8°49	29°20	16°37	0°50	8° 1	5°22	25° 5	23°51	21°53	22°49	2°55	n.a.	S 28
S 29	8 15 18	5°33'27	4♐22	9°25	0♓34	17°22	0°54	8° 8	5°25	25° 4	23°52	21°52	22°46	3° 2	n.a.	S 29
M30	8 19 15	6°33'40	18° 2	10° 5	1°48	18° 6	0°58	8°14	5°28	25° 3	23°54	21°50	22°43	3° 8	n.a.	M30
T 31	8 23 12	7♒33'51	2♑ 9	10♑49	3♓ 2	18♐51	1♏ 2	8♑21	5♑32	25♍ 2	23♑56	21♒48	22♒39	3♍15	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	23s31	24s33	5s 8	20s20	1n30	22s44	1s32	19s39	0n 2	9s47	1n11	23s38	0s 1	24s 2	0s22	3n33	1n49	30s50	9s15	14s 5	13s36	11n 9			n.a.
M 2	23 27	27 5	4 55	20 4	1 48	22 30	1 32	19 50	0 1	9 50	1 11	23 38	0 1	24 2	0 22	3 33	1 49	30 50	9 15	14 8	13 37	11 6			n.a.
T 3	23 23	27 58	4 23	19 49	2 6	22 15	1 33	20 0	0 0	9 53	1 11	23 38	0 1	24 2	0 22	3 33	1 49	30 49	9 15	14 10	13 38	11 3			n.a.
W 4	23 19	26 59	3 34	19 37	2 24	22 0	1 33	20 11	0s 1	9 56	1 11	23 38	0 1	24 2	0 22	3 33	1 49	30 49	9 15	14 13	13 39	11 0			n.a.
T 5	23 14	24 8	2 30	19 27	2 40	21 44	1 33	20 21	0 1	9 58	1 11	23 37	0 1	24 2	0 22	3 33	1 49	30 49	9 15	14 14	13 40	10 56			n.a.
F 6	23 8	19 40	1 16	19 20	2 55	21 27	1 33	20 31	0 2	10 1	1 11	23 37	0 1	24 2	0 23	3 33	1 49	30 48	9 15	14 15	13 41	10 53			n.a.
S 7	23 2	13 59	0n 4	19 14	3 9	21 10	1 33	20 41	0 3	10 3	1 11	23 37	0 1	24 2	0 23	3 33	1 49	30 48	9 15	14 15	13 42	10 50			n.a.
S 8	22 56	7 34	1 22	19 11	3 21	20 52	1 33	20 51	0 4	10 6	1 12	23 37	0 1	24 2	0 23	3 34	1 49	30 48	9 15	14 15	13 43	10 47			n.a.
M 9	22 49	0 52	2 35	19 11	3 30	20 33	1 33	21 1	0 5	10 8	1 12	23 37	0 1	24 1	0 23	3 34	1 49	30 47	9 15	14 15	13 44	10 44			n.a.
T 10	22 42	5n46	3 36	19 12	3 38	20 14	1 33	21 10	0 5	10 11	1 12	23 36	0 1	24 1	0 23	3 34	1 49	30 47	9 15	14 14	13 45	10 40			n.a.
W11	22 34	11 59	4 24	19 15	3 43	19 54	1 33	21 19	0 6	10 13	1 12	23 36	0 1	24 1	0 23	3 34	1 49	30 47	9 15	14 14	13 46	10 37			n.a.
T 12	22 26	17 30	4 56	19 19	3 45	19 34	1 33	21 28	0 7	10 15	1 12	23 36	0 1	24 1	0 23	3 34	1 49	30 47	9 15	14 14	13 47	10 34			n.a.
F 13	22 18	22 4	5 11	19 25	3 46	19 13	1 32	21 37	0 8	10 18	1 12	23 36	0 1	24 1	0 23	3 35	1 49	30 46	9 15	14 15	13 48	10 31			n.a.
S 14	22 9	25 26	5 9	19 32	3 44	18 52	1 32	21 45	0 9	10 20	1 12	23 35	0 1	24 1	0 23	3 35	1 49	30 46	9 15	14 17	13 49	10 28			n.a.
S 15	21 59	27 27	4 52	19 41	3 40	18 30	1 31	21 54	0 9	10 22	1 13	23 35	0 2	24 1	0 23	3 35	1 49	30 46	9 15	14 18	13 51	10 24			n.a.
M16	21 49	27 59	4 21	19 50	3 34	18 7	1 31	22 2	0 10	10 24	1 13	23 35	0 2	24 1	0 23	3 35	1 49	30 45	9 16	14 20	13 52	10 21			n.a.
T 17	21 39	27 5	3 37	20 0	3 27	17 44	1 30	22 10	0 11	10 26	1 13	23 34	0 2	24 1	0 23	3 36	1 50	30 45	9 16	14 22	13 53	10 18			n.a.
W18	21 28	24 51	2 44	20 10	3 18	17 21	1 29	22 18	0 12	10 28	1 13	23 34	0 2	24 0	0 23	3 36	1 50	30 45	9 16	14 23	13 54	10 15			n.a.
T 19	21 17	21 31	1 44	20 21	3 9	16 57	1 28	22 25	0 13	10 30	1 13	23 34	0 2	24 0	0 23	3 36	1 50	30 45	9 16	14 24	13 55	10 12			n.a.
F 20	21 6	17 19	0 40	20 33	2 59	16 33	1 28	22 32	0 14	10 32	1 13	23 34	0 2	24 0	0 23	3 36	1 50	30 44	9 16	14 24	13 56	10 8			n.a.
S 21	20 54	12 29	0s25	20 44	2 48	16 8	1 27	22 39	0 14	10 33	1 14	23 33	0 2	24 0	0 23	3 37	1 50	30 44	9 16	14 24	13 57	10 5			n.a.
S 22	20 42	7 14	1 29	20 56	2 36	15 43	1 26	22 46	0 15	10 35	1 14	23 33	0 2	24 0	0 23	3 37	1 50	30 44	9 16	14 24	13 58	10 2			n.a.
M23	20 29	1 44	2 29	21 8	2 24	15 17	1 25	22 53	0 16	10 37	1 14	23 33	0 2	24 0	0 23	3 37	1 50	30 44	9 16	14 24	13 59	9 59			n.a.
T 24	20 16	3s50	3 23	21 19	2 12	14 51	1 23	22 59	0 17	10 38	1 14	23 32	0 2	24 0	0 23	3 38	1 50	30 43	9 16	14 23	14 0	9 55			n.a.
W25	20 3	9 18	4 9	21 30	2 0	14 25	1 22	23 5	0 18	10 40	1 14	23 32	0 2	24 0	0 23	3 38	1 50	30 43	9 16	14 23	14 1	9 52			n.a.
T 26	19 49	14 32	4 45	21 41	1 48	13 58	1 21	23 11	0 19	10 41	1 14	23 32	0 2	24 0	0 23	3 39	1 50	30 43	9 16	14 22	14 2	9 49			n.a.
F 27	19 35	19 18	5 8	21 52	1 36	13 31	1 20	23 17	0 19	10 43	1 15	23 31	0 2	23 59	0 23	3 39	1 50	30 43	9 16	14 22	14 3	9 46			n.a.
S 28	19 21	23 20	5 16	22 2	1 24	13 3	1 18	23 23	0 20	10 44	1 15	23 31	0 3	23 59	0 23	3 39	1 50	30 42	9 16	14 23	14 4	9 43			n.a.
S 29	19 6	26 19	5 9	22 11	1 12	12 36	1 17	23 28	0 21	10 45	1 15	23 31	0 3	23 59	0 23	3 40	1 50	30 42	9 17	14 23	14 5	9 39			n.a.
M30	18 51	27 53	4 44	22 20	1 0	12 7	1 15	23 33	0 22	10 47	1 15	23 30	0 3	23 59	0 23	3 40	1 50	30 42	9 17	14 24	14 6	9 36			n.a.
T 31	18s36	27s44	4s 2	22s28	0n48	11s39	1s14	23s38	0s23	10s48	1n15	23s30	0s 3	23s59	0s23	3n41	1n50	30s42	9s17	14s24	14s 7	9n33			n.a.

Julian Day Number = 1652390.5, Delta T = 03h30m17s
Ecliptic obliquity = 23°43'12, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°40'40, Lahiri = - 6°33'39 Julian Calendar 1 Jan. 189 BCE == Greg. Calendar 29 Dec. 190 BCE

The year -188 astronomical counting style corresponds to year 189 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 189 BCE
geocentric

FEBRUARY 189 BCE (-188) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	8 27 8	8♒34'00	16♉40	11♉37	4♓16	19♐35	1♏ 6	8♉27	5♉35	25°R 2	23♉57	21°R46	22♒36	3♍22	n.a.	W 1
T 2	8 31 5	9°34'07	1♒31	12°28	5°30	20°20	1° 9	8°34	5°38	25♍ 0	23°59	21♒45	22°33	3°28	n.a.	T 2
F 3	8 35 1	10°34'12	16°35	13°22	6°44	21° 4	1°12	8°40	5°41	24°59	24° 1	21°D45	22°30	3°35	n.a.	F 3
S 4	8 38 58	11°34'16	1♓41	14°20	7°58	21°49	1°15	8°47	5°44	24°58	24° 3	21°45	22°27	3°42	n.a.	S 4
S 5	8 42 54	12°34'17	16°42	15°20	9°11	22°33	1°18	8°53	5°47	24°57	24° 4	21°45	22°24	3°48	n.a.	S 5
M 6	8 46 51	13°34'16	1♈29	16°22	10°25	23°18	1°21	8°59	5°50	24°56	24° 6	21°46	22°20	3°55	n.a.	M 6
T 7	8 50 47	14°34'12	15°57	17°27	11°39	24° 3	1°23	9° 6	5°53	24°55	24° 8	21°47	22°17	4° 2	n.a.	T 7
W 8	8 54 44	15°34'06	0♉ 3	18°35	12°52	24°47	1°26	9°12	5°56	24°54	24° 9	21°47	22°14	4° 8	n.a.	W 8
T 9	8 58 40	16°33'58	13°45	19°44	14° 6	25°32	1°28	9°18	5°59	24°53	24°11	21°R47	22°11	4°15	n.a.	T 9
F 10	9 2 37	17°33'48	27° 4	20°56	15°19	26°16	1°30	9°24	6° 1	24°52	24°13	21°47	22° 8	4°22	n.a.	F 10
S 11	9 6 34	18°33'35	10♊ 2	22° 9	16°33	27° 1	1°31	9°30	6° 4	24°50	24°14	21°47	22° 5	4°28	n.a.	S 11
S 12	9 10 30	19°33'20	22°42	23°24	17°46	27°46	1°33	9°36	6° 7	24°49	24°16	21°47	22° 1	4°35	n.a.	S 12
M13	9 14 27	20°33'03	5♋ 7	24°41	18°59	28°30	1°34	9°42	6°10	24°48	24°17	21°46	21°58	4°41	n.a.	M13
T 14	9 18 23	21°32'43	17°20	26° 0	20°13	29°15	1°36	9°48	6°13	24°46	24°19	21°D46	21°55	4°48	n.a.	T 14
W15	9 22 20	22°32'21	29°23	27°21	21°26	29°59	1°37	9°54	6°15	24°45	24°21	21°46	21°52	4°55	n.a.	W15
T 16	9 26 16	23°31'57	11♌19	28°43	22°39	0♉45	1°37	10° 0	6°18	24°44	24°22	21°46	21°49	5° 1	n.a.	T 16
F 17	9 30 13	24°31'31	23°11	0♒ 6	23°52	1°29	1°38	10° 6	6°21	24°43	24°24	21°R47	21°45	5° 8	n.a.	F 17
S 18	9 34 9	25°31'02	4♍59	1°31	25° 5	2°14	1°39	10°12	6°23	24°41	24°25	21°46	21°42	5°15	n.a.	S 18
S 19	9 38 6	26°30'32	16°47	2°58	26°18	2°59	1°39	10°17	6°26	24°40	24°27	21°46	21°39	5°21	n.a.	S 19
M20	9 42 3	27°29'59	28°37	4°26	27°31	3°44	1°R39	10°23	6°28	24°38	24°28	21°45	21°36	5°28	n.a.	M20
T 21	9 45 59	28°29'24	10♎32	5°55	28°44	4°29	1°39	10°28	6°31	24°37	24°30	21°45	21°33	5°35	n.a.	T 21
W22	9 49 56	29°28'47	22°33	7°26	29°57	5°13	1°39	10°34	6°33	24°36	24°31	21°44	21°30	5°41	n.a.	W22
T 23	9 53 52	0♓28'09	4♏45	8°58	1♈10	5°58	1°38	10°39	6°36	24°34	24°33	21°43	21°26	5°48	n.a.	T 23
F 24	9 57 49	1°27'28	17°12	10°32	2°22	6°43	1°37	10°45	6°38	24°33	24°34	21°42	21°23	5°55	n.a.	F 24
S 25	10 1 45	2°26'46	29°56	12° 7	3°35	7°28	1°37	10°50	6°40	24°31	24°36	21°D41	21°20	6° 1	n.a.	S 25
S 26	10 5 42	3°26'02	13♐ 2	13°43	4°47	8°13	1°36	10°55	6°43	24°30	24°37	21°42	21°17	6° 8	n.a.	S 26
M27	10 9 38	4°25'16	26°32	15°21	6° 0	8°58	1°34	11° 1	6°45	24°28	24°39	21°42	21°14	6°15	n.a.	M27
T 28	10 13 35	5°24'28	10♑28	17° 0	7°12	9°43	1°33	11° 6	6°47	24°27	24°40	21°43	21°11	6°21	n.a.	T 28
W29	10 17 32	6♓23'39	24♑50	18♒41	8♈25	10♑28	1♏31	11♑11	6♑50	24♍25	24♑41	21♒44	21♒ 7	6♍28	n.a.	W29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	18s20	25s41	3s 2	22s35	0n37	11s10	1s12	23s42	0s24	10s49	1n15	23s30	0s 3	23s59	0s23	3n41	1n50	30s42	9s17	14s25	14s 8	9n30		n.a.
T 2	18 4	21 50	1 50	22 42	0 26	10 41	1 10	23 46	0 25	10 50	1 16	23 29	0 3	23 59	0 23	3 42	1 50	30 41	9 17	14 25	14 9	9 26		n.a.
F 3	17 48	16 30	0 29	22 47	0 15	10 12	1 8	23 50	0 26	10 51	1 16	23 29	0 3	23 59	0 23	3 42	1 51	30 41	9 17	14 25	14 11	9 23		n.a.
S 4	17 31	10 9	0n55	22 51	0 5	9 42	1 6	23 54	0 26	10 52	1 16	23 29	0 3	23 59	0 23	3 42	1 51	30 41	9 17	14 25	14 12	9 20		n.a.
S 5	17 14	3 15	2 14	22 55	0s 5	9 13	1 4	23 58	0 27	10 53	1 16	23 28	0 3	23 58	0 23	3 43	1 51	30 41	9 17	14 25	14 13	9 17		n.a.
M 6	16 57	3n42	3 23	22 57	0 15	8 43	1 2	24 1	0 28	10 53	1 16	23 28	0 3	23 58	0 23	3 43	1 51	30 41	9 17	14 25	14 14	9 13		n.a.
T 7	16 39	10 18	4 18	22 58	0 24	8 12	1 0	24 4	0 29	10 54	1 16	23 28	0 3	23 58	0 23	3 44	1 51	30 40	9 18	14 25	14 15	9 10		n.a.
W 8	16 21	16 13	4 55	22 58	0 33	7 42	0 58	24 7	0 30	10 55	1 17	23 27	0 3	23 58	0 23	3 44	1 51	30 40	9 18	14 25	14 16	9 7		n.a.
T 9	16 3	21 8	5 15	22 56	0 42	7 11	0 56	24 10	0 31	10 55	1 17	23 27	0 4	23 58	0 23	3 45	1 51	30 40	9 18	14 25	14 17	9 4		n.a.
F 10	15 45	24 51	5 16	22 54	0 50	6 41	0 54	24 12	0 32	10 56	1 17	23 27	0 4	23 58	0 23	3 45	1 51	30 40	9 18	14 25	14 18	9 1		n.a.
S 11	15 26	27 11	5 2	22 50	0 58	6 10	0 52	24 14	0 33	10 56	1 17	23 26	0 4	23 58	0 23	3 46	1 51	30 40	9 18	14 25	14 19	8 57		n.a.
S 12	15 8	28 3	4 33	22 45	1 6	5 39	0 49	24 16	0 34	10 57	1 17	23 26	0 4	23 58	0 23	3 47	1 51	30 40	9 18	14 25	14 20	8 54		n.a.
M13	14 49	27 28	3 51	22 38	1 13	5 7	0 47	24 17	0 35	10 57	1 17	23 25	0 4	23 58	0 23	3 47	1 51	30 39	9 18	14 25	14 21	8 51		n.a.
T 14	14 29	25 33	3 0	22 30	1 20	4 36	0 44	24 19	0 36	10 57	1 18	23 25	0 4	23 57	0 23	3 48	1 51	30 39	9 19	14 25	14 22	8 48		n.a.
W15	14 10	22 30	2 1	22 21	1 27	4 5	0 42	24 20	0 37	10 57	1 18	23 25	0 4	23 57	0 23	3 48	1 51	30 39	9 19	14 25	14 23	8 44		n.a.
T 16	13 50	18 31	0 58	22 10	1 33	3 33	0 39	24 21	0 37	10 58	1 18	23 24	0 4	23 57	0 23	3 49	1 51	30 39	9 19	14 25	14 24	8 41		n.a.
F 17	13 30	13 50	0s 8	21 58	1 38	3 1	0 37	24 21	0 38	10 58	1 18	23 24	0 4	23 57	0 23	3 49	1 51	30 39	9 19	14 25	14 25	8 38		n.a.
S 18	13 10	8 40	1 13	21 44	1 44	2 30	0 34	24 21	0 39	10 58	1 18	23 24	0 4	23 57	0 23	3 50	1 51	30 39	9 19	14 25	14 26	8 35		n.a.
S 19	12 50	3 13	2 15	21 29	1 49	1 58	0 31	24 21	0 40	10 58	1 18	23 23	0 4	23 57	0 23	3 51	1 51	30 39	9 20	14 25	14 27	8 31		n.a.
M20	12 29	2s21	3 11	21 13	1 53	1 26	0 29	24 21	0 41	10 58	1 19	23 23	0 4	23 57	0 23	3 51	1 51	30 39	9 20	14 25	14 28	8 28		n.a.
T 21	12 8	7 52	3 59	20 54	1 57	0 54	0 26	24 21	0 42	10 57	1 19	23 23	0 4	23 57	0 23	3 52	1 51	30 38	9 20	14 25	14 29	8 25		n.a.
W22	11 47	13 9	4 37	20 35	2 1	0 22	0 23	24 20	0 43	10 57	1 19	23 22	0 5	23 57	0 23	3 52	1 51	30 38	9 20	14 26	14 30	8 21		n.a.
T 23	11 26	18 1	5 4	20 13	2 4	0n 9	0 20	24 19	0 44	10 57	1 19	23 22	0 5	23 56	0 23	3 53	1 51	30 38	9 20	14 26	14 31	8 18		n.a.
F 24	11 5	22 13	5 16	19 50	2 7	0 41	0 17	24 18	0 45	10 56	1 19	23 21	0 5	23 56	0 23	3 54	1 51	30 38	9 20	14 26	14 32	8 15		n.a.
S 25	10 43	25 29	5 14	19 26	2 9	1 13	0 14	24 16	0 46	10 56	1 19	23 21	0 5	23 56	0 23	3 54	1 51	30 38	9 21	14 26	14 33	8 12		n.a.
S 26	10 22	27 31	4 56	19 0	2 11	1 45	0 12	24 15	0 47	10 55	1 19	23 21	0 5	23 56	0 23	3 55	1 51	30 38	9 21	14 26	14 34	8 8		n.a.
M27	10 0	28 1	4 21	18 32	2 13	2 17	0 9	24 13	0 48	10 55	1 20	23 20	0 5	23 56	0 23	3 55	1 51	30 38	9 21	14 26	14 35	8 5		n.a.
T 28	9 38	26 47	3 29	18 3	2 14	2 49	0 5	24 10	0 49	10 54	1 20	23 20	0 5	23 56	0 23	3 56	1 51	30 38	9 21	14 26	14 36	8 2		n.a.
W29	9s16	23s46	2s24	17s32	2s14	3n20	0s 2	24s 8	0s50	10s54	1n20	23s20	0s 5	23s56	0s23	3n57	1n52	30s38	9s22	14s25	14s37	7n59		n.a.

Julian Day Number = 1652421.5, Delta T = 03h30m16s
Ecliptic obliquity = 23°43'12, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°40'35, Lahiri = - 6°33'35 Julian Calendar 1 Feb. 189 BCE == Greg. Calendar 29 Jan. 189 BCE

The year -188 astronomical counting style corresponds to year 189 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 189 BCE
geocentric

MARCH 189 BCE (-188) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 21 28	7♓22'47	9♒35	20♒23	9♈37	11♑13	1°R30	11♑16	6♑52	24°R24	24♑43	21♒45	21♒ 4	6♍35	n.a.	T 1
F 2	10 25 25	8°21'53	24°38	22° 6	10°49	11°57	1♏28	11°21	6°54	24♍22	24°44	21°R45	21° 1	6°41	n.a.	F 2
S 3	10 29 21	9°20'58	9♓50	23°51	12° 1	12°42	1°25	11°26	6°56	24°20	24°46	21°45	20°58	6°48	n.a.	S 3
S 4	10 33 18	10°20'00	25° 2	25°37	13°14	13°27	1°23	11°31	6°58	24°19	24°47	21°43	20°55	6°54	n.a.	S 4
M 5	10 37 14	11°18'59	10♈ 5	27°25	14°26	14°12	1°21	11°35	7° 0	24°17	24°48	21°41	20°51	7° 1	n.a.	M 5
T 6	10 41 11	12°17'57	24°49	29°14	15°38	14°57	1°18	11°40	7° 2	24°16	24°49	21°38	20°48	7° 8	n.a.	T 6
W 7	10 45 7	13°16'52	9♉ 9	1♓ 4	16°49	15°42	1°15	11°45	7° 4	24°14	24°51	21°36	20°45	7°14	n.a.	W 7
T 8	10 49 4	14°15'45	23° 2	2°56	18° 1	16°27	1°12	11°49	7° 6	24°12	24°52	21°33	20°42	7°21	n.a.	T 8
F 9	10 53 0	15°14'36	6♊27	4°49	19°13	17°12	1° 9	11°54	7° 7	24°11	24°53	21°32	20°39	7°28	n.a.	F 9
S 10	10 56 57	16°13'24	19°26	6°44	20°25	17°57	1° 5	11°58	7° 9	24° 9	24°54	21°D32	20°36	7°34	n.a.	S 10
S 11	11 0 54	17°12'10	2♋ 3	8°40	21°36	18°42	1° 2	12° 2	7°11	24° 8	24°56	21°33	20°32	7°41	n.a.	S 11
M12	11 4 50	18°10'54	14°22	10°38	22°48	19°27	0°58	12° 6	7°13	24° 6	24°57	21°34	20°29	7°48	n.a.	M12
T 13	11 8 47	19° 9'35	26°27	12°37	23°59	20°12	0°54	12°11	7°14	24° 4	24°58	21°36	20°26	7°54	n.a.	T 13
W14	11 12 43	20° 8'14	8♌22	14°37	25°10	20°57	0°50	12°15	7°16	24° 3	24°59	21°37	20°23	8° 1	n.a.	W14
T 15	11 16 40	21° 6'50	20°12	16°39	26°22	21°42	0°46	12°19	7°17	24° 1	25° 0	21°R38	20°20	8° 8	n.a.	T 15
F 16	11 20 36	22° 5'25	1♍59	18°42	27°33	22°27	0°41	12°23	7°19	23°59	25° 1	21°38	20°16	8°14	n.a.	F 16
S 17	11 24 33	23° 3'57	13°47	20°46	28°44	23°11	0°37	12°26	7°20	23°58	25° 2	21°36	20°13	8°21	n.a.	S 17
S 18	11 28 29	24° 2'27	25°38	22°51	29°55	23°56	0°32	12°30	7°22	23°56	25° 3	21°32	20°10	8°28	n.a.	S 18
M19	11 32 26	25° 0'55	7♎33	24°57	1♉ 6	24°41	0°27	12°34	7°23	23°55	25° 4	21°27	20° 7	8°34	n.a.	M19
T 20	11 36 23	25°59'22	19°36	27° 4	2°16	25°26	0°22	12°37	7°24	23°53	25° 5	21°21	20° 4	8°41	n.a.	T 20
W21	11 40 19	26°57'46	1♏47	29°12	3°27	26°11	0°17	12°41	7°26	23°51	25° 6	21°15	20° 1	8°48	n.a.	W21
T 22	11 44 16	27°56'09	14° 8	1♈19	4°38	26°56	0°12	12°44	7°27	23°50	25° 7	21° 9	19°57	8°54	n.a.	T 22
F 23	11 48 12	28°54'30	26°41	3°27	5°48	27°41	0° 6	12°48	7°28	23°48	25° 8	21° 4	19°54	9° 1	n.a.	F 23
S 24	11 52 9	29°52'49	9♐29	5°35	6°59	28°26	0° 1	12°51	7°29	23°46	25° 9	21° 0	19°51	9° 7	n.a.	S 24
S 25	11 56 5	0♈51'07	22°34	7°42	8° 9	29°11	29♎55	12°54	7°30	23°45	25°10	20°58	19°48	9°14	n.a.	S 25
M26	12 0 2	1°49'23	5♑58	9°48	9°19	29°56	29°49	12°57	7°31	23°43	25°11	20°D58	19°45	9°21	n.a.	M26
T 27	12 3 58	2°47'37	19°43	11°54	10°29	0♒40	29°43	13° 0	7°32	23°41	25°12	20°59	19°42	9°27	n.a.	T 27
W28	12 7 55	3°45'50	3♒51	13°58	11°39	1°25	29°37	13° 3	7°33	23°40	25°13	21° 0	19°38	9°34	n.a.	W28
T 29	12 11 52	4°44'02	18°20	16° 0	12°49	2°10	29°31	13° 6	7°34	23°38	25°13	21°R 1	19°35	9°41	n.a.	T 29
F 30	12 15 48	5°42'11	3♓ 8	18° 0	13°59	2°55	29°25	13° 9	7°35	23°37	25°14	21° 0	19°32	9°47	n.a.	F 30
S 31	12 19 45	6♈40'19	18♓ 9	19♈58	15♉ 9	3♒40	29♎18	13♑11	7♑36	23♍35	25♑15	20♒58	19♒29	9♍54	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	8s54	19s 8	1s 7	16s59	2s14	3n52	0n 1	24s 5	0s51	10s53	1n20	23s19	0s 5	23s56	0s23	3n57	1n52	30s38	9s22	14s25	14s39	7n55			n.a.
F 2	8 32	13 13	0n16	16 25	2 14	4 23	0 4	24 2	0 52	10 52	1 20	23 19	0 5	23 56	0 24	3 58	1 52	30 38	9 22	14 25	14 40	7 52			n.a.
S 3	8 9	6 27	1 38	15 49	2 13	4 55	0 7	23 59	0 53	10 51	1 20	23 19	0 5	23 56	0 24	3 59	1 52	30 38	9 22	14 25	14 41	7 49			n.a.
S 4	7 47	0n39	2 54	15 12	2 12	5 26	0 10	23 55	0 54	10 50	1 21	23 18	0 5	23 56	0 24	3 59	1 52	30 38	9 22	14 26	14 42	7 46			n.a.
M 5	7 24	7 39	3 56	14 32	2 10	5 57	0 13	23 51	0 55	10 49	1 21	23 18	0 6	23 56	0 24	4 0	1 52	30 38	9 23	14 27	14 43	7 42			n.a.
T 6	7 2	14 4	4 42	13 52	2 7	6 28	0 16	23 47	0 56	10 48	1 21	23 18	0 6	23 55	0 24	4 1	1 52	30 38	9 23	14 27	14 44	7 39			n.a.
W 7	6 39	19 34	5 8	13 9	2 4	6 59	0 20	23 43	0 57	10 47	1 21	23 17	0 6	23 55	0 24	4 1	1 52	30 38	9 23	14 28	14 45	7 36			n.a.
T 8	6 16	23 49	5 15	12 25	2 1	7 30	0 23	23 39	0 57	10 46	1 21	23 17	0 6	23 55	0 24	4 2	1 52	30 38	9 23	14 29	14 46	7 32			n.a.
F 9	5 53	26 38	5 5	11 40	1 57	8 1	0 26	23 34	0 58	10 44	1 21	23 17	0 6	23 55	0 24	4 3	1 52	30 38	9 24	14 29	14 47	7 29			n.a.
S 10	5 30	27 56	4 39	10 53	1 52	8 31	0 29	23 29	0 59	10 43	1 21	23 16	0 6	23 55	0 24	4 3	1 52	30 38	9 24	14 30	14 48	7 26			n.a.
S 11	5 7	27 42	4 0	10 4	1 47	9 1	0 33	23 24	1 0	10 42	1 21	23 16	0 6	23 55	0 24	4 4	1 52	30 38	9 24	14 29	14 49	7 23			n.a.
M12	4 44	26 6	3 11	9 14	1 42	9 31	0 36	23 18	1 1	10 40	1 22	23 16	0 6	23 55	0 24	4 5	1 52	30 38	9 24	14 29	14 50	7 19			n.a.
T 13	4 20	23 18	2 14	8 22	1 35	10 1	0 39	23 13	1 2	10 39	1 22	23 16	0 6	23 55	0 24	4 5	1 52	30 38	9 25	14 28	14 51	7 16			n.a.
W14	3 57	19 33	1 12	7 29	1 29	10 31	0 43	23 7	1 3	10 37	1 22	23 15	0 6	23 55	0 24	4 6	1 52	30 38	9 25	14 28	14 52	7 13			n.a.
T 15	3 34	15 3	0 8	6 35	1 22	11 0	0 46	23 0	1 4	10 36	1 22	23 15	0 6	23 55	0 24	4 7	1 52	30 38	9 25	14 28	14 53	7 10			n.a.
F 16	3 10	10 1	0s56	5 39	1 14	11 29	0 49	22 54	1 5	10 34	1 22	23 15	0 7	23 55	0 24	4 7	1 52	30 38	9 25	14 28	14 54	7 6			n.a.
S 17	2 47	4 38	1 58	4 42	1 6	11 58	0 52	22 47	1 6	10 32	1 22	23 14	0 7	23 55	0 24	4 8	1 52	30 38	9 26	14 28	14 55	7 3			n.a.
S 18	2 24	0s55	2 55	3 44	0 57	12 26	0 56	22 40	1 7	10 31	1 22	23 14	0 7	23 55	0 24	4 9	1 52	30 38	9 26	14 30	14 56	7 0			n.a.
M19	2 0	6 28	3 45	2 45	0 48	12 55	0 59	22 33	1 8	10 29	1 22	23 14	0 7	23 55	0 24	4 9	1 52	30 38	9 26	14 31	14 57	6 56			n.a.
T 20	1 37	11 50	4 25	1 46	0 38	13 22	1 2	22 26	1 9	10 27	1 22	23 14	0 7	23 55	0 24	4 10	1 52	30 38	9 26	14 33	14 58	6 53			n.a.
W21	1 13	16 48	4 53	0 45	0 28	13 50	1 5	22 18	1 10	10 25	1 22	23 13	0 7	23 55	0 24	4 11	1 52	30 38	9 27	14 35	14 59	6 50			n.a.
T 22	0 50	21 10	5 8	0n15	0 18	14 17	1 9	22 11	1 11	10 23	1 23	23 13	0 7	23 54	0 24	4 11	1 52	30 38	9 27	14 37	15 0	6 47			n.a.
F 23	0 26	24 39	5 9	1 16	0 7	14 44	1 12	22 3	1 12	10 21	1 23	23 13	0 7	23 54	0 24	4 12	1 52	30 38	9 27	14 39	15 1	6 43			n.a.
S 24	0 3	26 59	4 55	2 17	0n 3	15 11	1 15	21 55	1 13	10 19	1 23	23 13	0 7	23 54	0 24	4 13	1 52	30 38	9 28	14 40	15 2	6 40			n.a.
S 25	0n21	27 55	4 25	3 18	0 14	15 37	1 18	21 46	1 14	10 17	1 23	23 12	0 7	23 54	0 24	4 13	1 52	30 38	9 28	14 40	15 3	6 37			n.a.
M26	0 44	27 15	3 40	4 19	0 25	16 3	1 21	21 37	1 15	10 15	1 23	23 12	0 7	23 54	0 24	4 14	1 52	30 39	9 28	14 41	15 4	6 33			n.a.
T 27	1 7	24 55	2 42	5 19	0 36	16 28	1 24	21 29	1 16	10 13	1 23	23 12	0 8	23 54	0 24	4 14	1 52	30 39	9 28	14 40	15 5	6 30			n.a.
W28	1 31	21 0	1 32	6 17	0 47	16 54	1 27	21 20	1 17	10 11	1 23	23 12	0 8	23 54	0 24	4 15	1 52	30 39	9 29	14 40	15 6	6 27			n.a.
T 29	1 54	15 45	0 15	7 15	0 58	17 18	1 31	21 10	1 18	10 8	1 23	23 12	0 8	23 54	0 24	4 16	1 52	30 39	9 29	14 40	15 7	6 23			n.a.
F 30	2 17	9 28	1n 5	8 12	1 8	17 42	1 34	21 1	1 19	10 6	1 23	23 12	0 8	23 54	0 24	4 16	1 52	30 39	9 29	14 40	15 8	6 20			n.a.
S 31	2n41	2s34	2n21	9n 6	1n19	18n 6	1n37	20s51	1s20	10s 4	1n23	23s11	0s 8	23s54	0s24	4n17	1n52	30s39	9s29	14s41	15s 9	6n17			n.a.

Julian Day Number = 1652450.5, Delta T = 03h30m15s
Ecliptic obliquity = 23°43'13, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°40'31, Lahiri = - 6°33'31 Julian Calendar 1 March 189 BCE == Greg. Calendar 27 Feb. 189 BCE

The year -188 astronomical counting style corresponds to year 189 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 189 BCE
geocentric

APRIL 189 BCE (-188) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 23 41	7♈38'26	3♈15	21♈54	16♉18	4♒25	29°R12	13♏14	7♏37	23°R33	25♏16	20°R53	19♒26	10♍ 1	n.a.	S 1
M 2	12 27 38	8°36'30	18°17	23°47	17°28	5° 9	29♎ 5	13°16	7°37	23♍32	25°16	20♒47	19°22	10° 7	n.a.	M 2
T 3	12 31 34	9°34'33	3♉ 5	25°36	18°37	5°54	28°58	13°19	7°38	23°30	25°17	20°39	19°19	10°14	n.a.	T 3
W 4	12 35 31	10°32'34	17°32	27°23	19°46	6°39	28°52	13°21	7°38	23°29	25°18	20°32	19°16	10°21	n.a.	W 4
T 5	12 39 27	11°30'33	1♊32	29° 6	20°55	7°23	28°45	13°23	7°39	23°27	25°18	20°25	19°13	10°27	n.a.	T 5
F 6	12 43 24	12°28'31	15° 4	0♋46	22° 5	8° 8	28°38	13°25	7°40	23°26	25°19	20°20	19°10	10°34	n.a.	F 6
S 7	12 47 20	13°26'26	28° 8	2°23	23°13	8°53	28°31	13°27	7°40	23°24	25°20	20°17	19° 7	10°41	n.a.	S 7
S 8	12 51 17	14°24'20	10♌47	3°56	24°22	9°37	28°23	13°29	7°40	23°23	25°20	20°D16	19° 3	10°47	n.a.	S 8
M 9	12 55 14	15°22'11	23° 6	5°25	25°31	10°22	28°16	13°31	7°41	23°21	25°21	20°16	19° 0	10°54	n.a.	M 9
T 10	12 59 10	16°20'01	5♎ 9	6°50	26°39	11° 6	28° 9	13°32	7°41	23°20	25°21	20°17	18°57	11° 1	n.a.	T 10
W11	13 3 7	17°17'49	17° 2	8°11	27°48	11°51	28° 2	13°34	7°41	23°18	25°22	20°R17	18°54	11° 7	n.a.	W11
T 12	13 7 3	18°15'35	28°50	9°28	28°56	12°35	27°54	13°36	7°41	23°17	25°22	20°17	18°51	11°14	n.a.	T 12
F 13	13 11 0	19°13'19	10♍37	10°42	0♊ 4	13°20	27°47	13°37	7°42	23°15	25°23	20°15	18°48	11°21	n.a.	F 13
S 14	13 14 56	20°11'01	22°27	11°51	1°12	14° 4	27°39	13°38	7°42	23°14	25°23	20°10	18°44	11°27	n.a.	S 14
S 15	13 18 53	21° 8'42	4♎23	12°56	2°20	14°49	27°32	13°40	7°R42	23°12	25°23	20° 3	18°41	11°34	n.a.	S 15
M16	13 22 49	22° 6'22	16°28	13°57	3°27	15°33	27°24	13°41	7°42	23°11	25°24	19°54	18°38	11°41	n.a.	M16
T 17	13 26 46	23° 4'00	28°42	14°54	4°35	16°17	27°17	13°42	7°42	23°10	25°24	19°43	18°35	11°47	n.a.	T 17
W18	13 30 43	24° 1'37	11♏ 7	15°46	5°42	17° 2	27° 9	13°43	7°42	23° 8	25°24	19°32	18°32	11°54	n.a.	W18
T 19	13 34 39	24°59'12	23°43	16°34	6°49	17°46	27° 1	13°43	7°41	23° 7	25°25	19°21	18°28	12° 1	n.a.	T 19
F 20	13 38 36	25°56'46	6♐31	17°18	7°56	18°30	26°54	13°44	7°41	23° 6	25°25	19°11	18°25	12° 7	n.a.	F 20
S 21	13 42 32	26°54'19	19°31	17°57	9° 3	19°14	26°46	13°45	7°41	23° 4	25°25	19° 4	18°22	12°14	n.a.	S 21
S 22	13 46 29	27°51'52	2♑44	18°31	10°10	19°58	26°39	13°45	7°41	23° 3	25°25	18°59	18°19	12°21	n.a.	S 22
M23	13 50 25	28°49'23	16°11	19° 1	11°16	20°43	26°31	13°46	7°40	23° 2	25°26	18°56	18°16	12°27	n.a.	M23
T 24	13 54 22	29°46'53	29°53	19°26	12°22	21°27	26°23	13°46	7°40	23° 1	25°26	18°D56	18°13	12°34	n.a.	T 24
W25	13 58 18	0♉44'22	13♒51	19°47	13°29	22°11	26°16	13°46	7°39	22°59	25°26	18°R56	18° 9	12°40	n.a.	W25
T 26	14 2 15	1°41'51	28° 5	20° 3	14°34	22°55	26° 8	13°47	7°39	22°58	25°26	18°56	18° 6	12°47	n.a.	T 26
F 27	14 6 12	2°39'18	12♓34	20°14	15°40	23°39	26° 1	13°R47	7°38	22°57	25°26	18°54	18° 3	12°54	n.a.	F 27
S 28	14 10 8	3°36'45	27°15	20°20	16°46	24°22	25°53	13°47	7°38	22°56	25°26	18°50	18° 0	13° 0	n.a.	S 28
S 29	14 14 5	4°34'10	12♈ 2	20°R22	17°51	25° 6	25°46	13°47	7°37	22°55	25°R26	18°43	17°57	13° 7	n.a.	S 29
M30	14 18 1	5♉31'35	26♈48	20♉19	18♊56	25♒50	25♎38	13♏46	7♏36	22♍54	25♏26	18♒34	17♒53	13♍14	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n 4	4n29	3n28	10n 0	1n28	18n30	1n40	20s41	1s21	10s 1	1n23	23s11	0s 8	23s54	0s24	4n18	1n52	30s39	9s30	14s42	15s10	6n14		n.a.
M 2	3 27	11 15	4 20	10 51	1 38	18 53	1 42	20 31	1 22	9 59	1 23	23 11	0 8	23 54	0 24	4 18	1 52	30 39	9 30	14 44	15 11	6 10		n.a.
T 3	3 50	17 16	4 53	11 40	1 47	19 15	1 45	20 21	1 23	9 57	1 23	23 11	0 8	23 54	0 24	4 19	1 52	30 40	9 30	14 46	15 12	6 7		n.a.
W 4	4 13	22 10	5 7	12 27	1 55	19 37	1 48	20 11	1 24	9 54	1 23	23 11	0 8	23 54	0 24	4 20	1 52	30 40	9 31	14 49	15 13	6 4		n.a.
T 5	4 36	25 38	5 2	13 12	2 3	19 59	1 51	20 0	1 25	9 52	1 23	23 11	0 8	23 54	0 24	4 20	1 52	30 40	9 31	14 51	15 14	6 0		n.a.
F 6	4 59	27 30	4 40	13 54	2 10	20 20	1 54	19 49	1 26	9 49	1 23	23 11	0 8	23 54	0 24	4 21	1 52	30 40	9 31	14 53	15 15	5 57		n.a.
S 7	5 22	27 46	4 3	14 34	2 16	20 40	1 56	19 38	1 26	9 47	1 23	23 10	0 9	23 54	0 24	4 21	1 52	30 40	9 32	14 54	15 16	5 54		n.a.
S 8	5 45	26 32	3 16	15 12	2 22	21 0	1 59	19 27	1 27	9 44	1 23	23 10	0 9	23 54	0 25	4 22	1 52	30 40	9 32	14 54	15 17	5 51		n.a.
M 9	6 7	24 2	2 21	15 47	2 27	21 20	2 1	19 16	1 28	9 41	1 23	23 10	0 9	23 54	0 25	4 22	1 52	30 41	9 32	14 54	15 18	5 47		n.a.
T 10	6 30	20 30	1 20	16 19	2 31	21 39	2 4	19 4	1 29	9 39	1 23	23 10	0 9	23 54	0 25	4 23	1 52	30 41	9 32	14 54	15 19	5 44		n.a.
W11	6 52	16 11	0 17	16 49	2 34	21 57	2 6	18 53	1 30	9 36	1 23	23 10	0 9	23 54	0 25	4 24	1 52	30 41	9 33	14 54	15 20	5 41		n.a.
T 12	7 14	11 18	0s46	17 17	2 36	22 15	2 9	18 41	1 31	9 34	1 23	23 10	0 9	23 54	0 25	4 24	1 52	30 41	9 33	14 54	15 21	5 37		n.a.
F 13	7 37	6 2	1 47	17 42	2 38	22 32	2 11	18 29	1 32	9 31	1 23	23 10	0 9	23 54	0 25	4 25	1 52	30 41	9 33	14 54	15 22	5 34		n.a.
S 14	7 59	0 32	2 43	18 4	2 38	22 49	2 13	18 17	1 33	9 28	1 23	23 10	0 9	23 54	0 25	4 25	1 52	30 42	9 34	14 56	15 23	5 31		n.a.
S 15	8 21	5s 1	3 33	18 24	2 38	23 5	2 16	18 5	1 34	9 26	1 23	23 10	0 9	23 54	0 25	4 26	1 52	30 42	9 34	14 58	15 24	5 27		n.a.
M16	8 42	10 26	4 14	18 42	2 37	23 21	2 18	17 52	1 35	9 23	1 23	23 10	0 9	23 54	0 25	4 26	1 52	30 42	9 34	15 1	15 25	5 24		n.a.
T 17	9 4	15 32	4 43	18 57	2 34	23 36	2 20	17 40	1 36	9 20	1 23	23 10	0 10	23 54	0 25	4 27	1 52	30 42	9 35	15 4	15 26	5 21		n.a.
W18	9 26	20 5	5 0	19 10	2 31	23 50	2 22	17 27	1 37	9 18	1 23	23 10	0 10	23 54	0 25	4 27	1 51	30 43	9 35	15 8	15 27	5 18		n.a.
T 19	9 47	23 47	5 2	19 20	2 27	24 4	2 24	17 14	1 38	9 15	1 23	23 10	0 10	23 54	0 25	4 28	1 51	30 43	9 35	15 12	15 28	5 14		n.a.
F 20	10 8	26 24	4 49	19 28	2 22	24 17	2 25	17 1	1 39	9 12	1 23	23 10	0 10	23 54	0 25	4 28	1 51	30 43	9 36	15 15	15 29	5 11		n.a.
S 21	10 29	27 39	4 22	19 33	2 16	24 29	2 27	16 48	1 39	9 10	1 23	23 10	0 10	23 54	0 25	4 29	1 51	30 43	9 36	15 17	15 30	5 8		n.a.
S 22	10 50	27 21	3 40	19 36	2 9	24 41	2 29	16 35	1 40	9 7	1 22	23 10	0 10	23 55	0 25	4 29	1 51	30 44	9 36	15 19	15 31	5 4		n.a.
M23	11 11	25 27	2 45	19 37	2 1	24 52	2 30	16 21	1 41	9 4	1 22	23 10	0 10	23 55	0 25	4 30	1 51	30 44	9 36	15 19	15 32	5 1		n.a.
T 24	11 32	22 2	1 39	19 35	1 52	25 3	2 32	16 8	1 42	9 1	1 22	23 10	0 10	23 55	0 25	4 30	1 51	30 44	9 37	15 19	15 33	4 58		n.a.
W25	11 52	17 18	0 27	19 31	1 42	25 13	2 33	15 54	1 43	8 59	1 22	23 10	0 10	23 55	0 25	4 31	1 51	30 44	9 37	15 19	15 34	4 54		n.a.
T 26	12 12	11 31	0n48	19 25	1 31	25 22	2 34	15 40	1 44	8 56	1 22	23 10	0 10	23 55	0 25	4 31	1 51	30 45	9 37	15 19	15 35	4 51		n.a.
F 27	12 32	5 3	2 2	19 17	1 19	25 31	2 35	15 26	1 45	8 53	1 22	23 10	0 11	23 55	0 25	4 32	1 51	30 45	9 38	15 20	15 36	4 48		n.a.
S 28	12 52	1n46	3 8	19 6	1 6	25 39	2 37	15 12	1 46	8 51	1 22	23 11	0 11	23 55	0 25	4 32	1 51	30 45	9 38	15 21	15 37	4 44		n.a.
S 29	13 12	8 31	4 2	18 54	0 53	25 46	2 37	14 58	1 46	8 48	1 22	23 11	0 11	23 55	0 25	4 33	1 51	30 46	9 38	15 23	15 38	4 41		n.a.
M30	13n31	14n47	4n40	18n39	0n38	25n53	2n38	14s44	1s47	8s46	1n22	23s11	0s11	23s55	0s25	4n33	1n51	30s46	9s39	15s26	15s39	4n38		n.a.

Julian Day Number = 1652481.5, Delta T = 03h30m14s
Ecliptic obliquity = 23°43'13, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°40'27, Lahiri = - 6°33'27 Julian Calendar 1 Apr. 189 BCE == Greg. Calendar 29 March 189 BCE

The year -188 astronomical counting style corresponds to year 189 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 189 BCE
geocentric

MAY 189 BCE (-188) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 21 58	6♉28'59	11♉24	20°R12	20♊ 1	26♒34	25°R31	13°R46	7°R36	22°R52	25°R26	18°R23	17♒50	13♍20	n.a.	T 1
W 2	14 25 54	7°26'22	25°44	20♉ 0	21° 6	27°17	25♎23	13♑46	7♑35	22♍51	25♑26	18♒12	17°47	13°27	n.a.	W 2
T 3	14 29 51	8°23'43	9♊41	19°45	22°11	28° 1	25°16	13°45	7°34	22°50	25°26	18° 1	17°44	13°34	n.a.	T 3
F 4	14 33 47	9°21'04	23°13	19°26	23°15	28°44	25° 9	13°44	7°33	22°49	25°26	17°53	17°41	13°40	n.a.	F 4
S 5	14 37 44	10°18'24	6♋18	19° 3	24°19	29°28	25° 2	13°44	7°32	22°48	25°26	17°47	17°38	13°47	n.a.	S 5
S 6	14 41 41	11°15'42	19° 0	18°37	25°23	0♓11	24°55	13°43	7°31	22°47	25°26	17°43	17°34	13°54	n.a.	S 6
M 7	14 45 37	12°13'00	1♌20	18° 9	26°27	0°55	24°47	13°42	7°30	22°46	25°25	17°42	17°31	14° 0	n.a.	M 7
T 8	14 49 34	13°10'16	13°24	17°39	27°30	1°38	24°41	13°41	7°29	22°46	25°25	17°42	17°28	14° 7	n.a.	T 8
W 9	14 53 30	14° 7'31	25°18	17° 7	28°33	2°21	24°34	13°40	7°28	22°45	25°25	17°42	17°25	14°14	n.a.	W 9
T 10	14 57 27	15° 4'45	7♍ 7	16°33	29°36	3° 4	24°27	13°39	7°27	22°44	25°25	17°41	17°22	14°20	n.a.	T 10
F 11	15 1 23	16° 1'58	18°56	16° 0	0♋38	3°47	24°20	13°37	7°26	22°43	25°24	17°38	17°19	14°27	n.a.	F 11
S 12	15 5 20	16°59'11	0♎50	15°26	1°41	4°30	24°14	13°36	7°25	22°42	25°24	17°32	17°15	14°34	n.a.	S 12
S 13	15 9 16	17°56'22	12°52	14°53	2°43	5°13	24° 7	13°34	7°24	22°41	25°24	17°25	17°12	14°40	n.a.	S 13
M14	15 13 13	18°53'33	25° 6	14°21	3°44	5°56	24° 1	13°33	7°22	22°41	25°23	17°14	17° 9	14°47	n.a.	M14
T 15	15 17 10	19°50'43	7♏33	13°51	4°46	6°39	23°55	13°31	7°21	22°40	25°23	17° 2	17° 6	14°54	n.a.	T 15
W16	15 21 6	20°47'52	20°14	13°24	5°47	7°21	23°48	13°30	7°20	22°39	25°23	16°49	17° 3	15° 0	n.a.	W16
T 17	15 25 3	21°45'01	3♐ 9	12°59	6°47	8° 4	23°42	13°28	7°18	22°39	25°22	16°37	16°59	15° 7	n.a.	T 17
F 18	15 28 59	22°42'10	16°17	12°37	7°48	8°47	23°37	13°26	7°17	22°38	25°22	16°26	16°56	15°14	n.a.	F 18
S 19	15 32 56	23°39'18	29°37	12°19	8°48	9°29	23°31	13°24	7°15	22°37	25°21	16°17	16°53	15°20	n.a.	S 19
S 20	15 36 52	24°36'26	13♑ 7	12° 4	9°47	10°11	23°25	13°22	7°14	22°37	25°21	16°11	16°50	15°27	n.a.	S 20
M21	15 40 49	25°33'34	26°47	11°54	10°47	10°54	23°20	13°20	7°12	22°36	25°20	16° 8	16°47	15°34	n.a.	M21
T 22	15 44 46	26°30'41	10♒36	11°48	11°46	11°36	23°14	13°17	7°10	22°36	25°20	16° 7	16°44	15°40	n.a.	T 22
W23	15 48 42	27°27'49	24°35	11°D46	12°44	12°18	23° 9	13°15	7° 9	22°35	25°19	16° 7	16°40	15°47	n.a.	W23
T 24	15 52 39	28°24'56	8♓42	11°49	13°42	13° 0	23° 4	13°12	7° 7	22°35	25°19	16° 7	16°37	15°54	n.a.	T 24
F 25	15 56 35	29°22'04	22°56	11°57	14°40	13°42	22°59	13°10	7° 5	22°34	25°18	16° 5	16°34	16° 0	n.a.	F 25
S 26	16 0 32	0♈19'12	7♈17	12° 9	15°37	14°24	22°54	13° 7	7° 4	22°34	25°17	16° 2	16°31	16° 7	n.a.	S 26
S 27	16 4 28	1°16'19	21°40	12°27	16°34	15° 6	22°49	13° 5	7° 2	22°33	25°17	15°55	16°28	16°14	n.a.	S 27
M28	16 8 25	2°13'27	6♉ 1	12°49	17°31	15°47	22°45	13° 2	7° 0	22°33	25°16	15°46	16°25	16°20	n.a.	M28
T 29	16 12 21	3°10'35	20°15	13°16	18°27	16°29	22°41	12°59	6°58	22°33	25°15	15°36	16°21	16°27	n.a.	T 29
W30	16 16 18	4° 7'43	4♊15	13°47	19°22	17°10	22°36	12°56	6°56	22°33	25°15	15°25	16°18	16°34	n.a.	W30
T 31	16 20 15	5♊ 4'51	17♊58	14♉23	20♋17	17♓52	22♎32	12♑53	6♑55	22♍32	25♑14	15♒14	16♒15	16♍40	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	13n50	20n 9	4n59	18n22	0n23	25n59	2n39	14s30	1s48	8s43	1n21	23s11	0s11	23s55	0s25	4n33	1n51	30s46	9s39	15s30	15s40	4n35			n.a.
W 2	14 9	24 15	4 59	18 4	0 8	26 4	2 40	14 15	1 49	8 40	1 21	23 11	0 11	23 55	0 25	4 34	1 51	30 46	9 39	15 33	15 41	4 31			n.a.
T 3	14 28	26 47	4 40	17 44	0s 9	26 9	2 40	14 1	1 50	8 38	1 21	23 11	0 11	23 55	0 25	4 34	1 51	30 47	9 40	15 36	15 42	4 28			n.a.
F 4	14 47	27 39	4 6	17 23	0 25	26 13	2 41	13 46	1 51	8 35	1 21	23 11	0 11	23 55	0 25	4 35	1 51	30 47	9 40	15 39	15 43	4 25			n.a.
S 5	15 5	26 54	3 20	17 1	0 42	26 17	2 41	13 32	1 51	8 33	1 21	23 12	0 11	23 55	0 25	4 35	1 51	30 47	9 40	15 41	15 44	4 21			n.a.
S 6	15 23	24 46	2 26	16 37	0 59	26 19	2 41	13 17	1 52	8 30	1 21	23 12	0 12	23 55	0 25	4 35	1 51	30 48	9 40	15 42	15 45	4 18			n.a.
M 7	15 41	21 29	1 26	16 13	1 17	26 21	2 41	13 2	1 53	8 28	1 20	23 12	0 12	23 56	0 25	4 36	1 51	30 48	9 41	15 42	15 46	4 15			n.a.
T 8	15 59	17 21	0 23	15 48	1 33	26 23	2 41	12 47	1 54	8 26	1 20	23 12	0 12	23 56	0 25	4 36	1 51	30 48	9 41	15 43	15 47	4 11			n.a.
W 9	16 16	12 36	0s40	15 23	1 50	26 23	2 41	12 32	1 55	8 23	1 20	23 12	0 12	23 56	0 25	4 36	1 51	30 49	9 41	15 43	15 48	4 8			n.a.
T 10	16 33	7 26	1 41	14 58	2 6	26 24	2 40	12 17	1 55	8 21	1 20	23 13	0 12	23 56	0 25	4 37	1 51	30 49	9 42	15 43	15 49	4 5			n.a.
F 11	16 50	2 1	2 37	14 33	2 22	26 23	2 40	12 2	1 56	8 19	1 20	23 13	0 12	23 56	0 25	4 37	1 51	30 49	9 42	15 44	15 50	4 1			n.a.
S 12	17 6	3s29	3 27	14 9	2 37	26 22	2 39	11 47	1 57	8 16	1 19	23 13	0 12	23 56	0 25	4 37	1 51	30 50	9 42	15 45	15 51	3 58			n.a.
S 13	17 23	8 56	4 8	13 46	2 51	26 20	2 39	11 32	1 58	8 14	1 19	23 13	0 12	23 56	0 25	4 37	1 51	30 50	9 43	15 48	15 52	3 55			n.a.
M14	17 39	14 8	4 38	13 24	3 4	26 18	2 38	11 17	1 59	8 12	1 19	23 14	0 12	23 56	0 25	4 38	1 51	30 51	9 43	15 51	15 53	3 51			n.a.
T 15	17 54	18 51	4 56	13 4	3 16	26 15	2 37	11 1	1 59	8 10	1 19	23 14	0 12	23 56	0 26	4 38	1 50	30 51	9 43	15 55	15 54	3 48			n.a.
W16	18 10	22 49	5 0	12 45	3 27	26 11	2 36	10 46	2 0	8 8	1 19	23 14	0 13	23 56	0 26	4 38	1 50	30 51	9 43	15 59	15 55	3 45			n.a.
T 17	18 25	25 44	4 48	12 29	3 36	26 7	2 34	10 30	2 1	8 6	1 18	23 14	0 13	23 56	0 26	4 38	1 50	30 52	9 44	16 2	15 56	3 42			n.a.
F 18	18 40	27 20	4 21	12 14	3 45	26 2	2 33	10 15	2 2	8 4	1 18	23 15	0 13	23 57	0 26	4 39	1 50	30 52	9 44	16 6	15 57	3 38			n.a.
S 19	18 54	27 23	3 39	12 2	3 52	25 56	2 31	9 59	2 2	8 2	1 18	23 15	0 13	23 57	0 26	4 39	1 50	30 52	9 44	16 8	15 57	3 35			n.a.
S 20	19 9	25 48	2 45	11 52	3 57	25 50	2 29	9 44	2 3	8 0	1 18	23 15	0 13	23 57	0 26	4 39	1 50	30 53	9 45	16 10	15 58	3 32			n.a.
M21	19 23	22 41	1 40	11 45	4 2	25 44	2 27	9 28	2 4	7 58	1 18	23 16	0 13	23 57	0 26	4 39	1 50	30 53	9 45	16 11	15 59	3 28			n.a.
T 22	19 36	18 15	0 29	11 40	4 5	25 36	2 25	9 12	2 4	7 56	1 17	23 16	0 13	23 57	0 26	4 39	1 50	30 53	9 45	16 11	16 0	3 25			n.a.
W23	19 49	12 47	0n45	11 38	4 7	25 29	2 23	8 57	2 5	7 54	1 17	23 16	0 13	23 57	0 26	4 39	1 50	30 54	9 45	16 11	16 1	3 22			n.a.
T 24	20 2	6 36	1 57	11 38	4 7	25 20	2 21	8 41	2 6	7 53	1 17	23 17	0 13	23 57	0 26	4 40	1 50	30 54	9 46	16 11	16 2	3 18			n.a.
F 25	20 15	0 3	3 2	11 41	4 6	25 11	2 18	8 25	2 6	7 51	1 17	23 17	0 14	23 57	0 26	4 40	1 50	30 55	9 46	16 12	16 3	3 15			n.a.
S 26	20 27	6n32	3 56	11 47	4 5	25 2	2 15	8 10	2 7	7 50	1 16	23 17	0 14	23 57	0 26	4 40	1 50	30 55	9 46	16 13	16 4	3 12			n.a.
S 27	20 39	12 47	4 35	11 55	4 2	24 52	2 12	7 54	2 8	7 48	1 16	23 18	0 14	23 58	0 26	4 40	1 50	30 55	9 47	16 15	16 5	3 8			n.a.
M28	20 51	18 21	4 57	12 5	3 58	24 42	2 9	7 38	2 8	7 47	1 16	23 18	0 14	23 58	0 26	4 40	1 50	30 56	9 47	16 18	16 6	3 5			n.a.
T 29	21 2	22 50	5 1	12 18	3 53	24 31	2 6	7 22	2 9	7 45	1 16	23 19	0 14	23 58	0 26	4 40	1 50	30 56	9 47	16 21	16 7	3 2			n.a.
W30	21 13	25 55	4 46	12 33	3 47	24 19	2 3	7 7	2 10	7 44	1 15	23 19	0 14	23 58	0 26	4 40	1 50	30 57	9 47	16 24	16 8	2 58			n.a.
T 31	21n24	27n23	4n15	12n50	3s41	24n 8	1n59	6s51	2s10	7s43	1n15	23s19	0s14	23s58	0s26	4n40	1n50	30s57	9s48	16s27	16s 9	2n55			n.a.

Julian Day Number = 1652511.5, Delta T = 03h30m13s
Ecliptic obliquity = 23°43'12, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°40'23, Lahiri = - 6°33'23 Julian Calendar 1 May 189 BCE == Greg. Calendar 28 Apr. 189 BCE

The year -188 astronomical counting style corresponds to year 189 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 189 BCE
geocentric

JUNE 189 BCE (-188) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 24 11	6♊ 1'59	1♋20	15♉ 4	21♋11	18♓33	22°R29	12°R50	6°R53	22°R32	25°R13	15°R 6	16♒12	16♍47	n.a.	F 1
S 2	16 28 8	6°59'06	14°19	15°50	22° 5	19°14	22♎25	12♑47	6♑51	22♍32	25♑12	15♒ 0	16° 9	16°54	n.a.	S 2
S 3	16 32 4	7°56'14	26°57	16°40	22°59	19°55	22°21	12°44	6°49	22°32	25°12	14°56	16° 5	17° 0	n.a.	S 3
M 4	16 36 1	8°53'21	9♌17	17°34	23°51	20°36	22°18	12°41	6°47	22°32	25°11	14°D55	16° 2	17° 7	n.a.	M 4
T 5	16 39 57	9°50'28	21°21	18°33	24°44	21°16	22°15	12°37	6°45	22°32	25°10	14°55	15°59	17°14	n.a.	T 5
W 6	16 43 54	10°47'35	3♍16	19°36	25°35	21°57	22°12	12°34	6°43	22°32	25° 9	14°55	15°56	17°20	n.a.	W 6
T 7	16 47 51	11°44'42	15° 6	20°43	26°26	22°38	22° 9	12°30	6°40	22°D32	25° 8	14°R55	15°53	17°27	n.a.	T 7
F 8	16 51 47	12°41'49	26°57	21°55	27°16	23°18	22° 6	12°27	6°38	22°32	25° 7	14°54	15°50	17°34	n.a.	F 8
S 9	16 55 44	13°38'56	8♎53	23°11	28° 6	23°58	22° 4	12°23	6°36	22°32	25° 6	14°51	15°46	17°40	n.a.	S 9
S 10	16 59 40	14°36'03	21° 0	24°31	28°55	24°38	22° 1	12°20	6°34	22°32	25° 6	14°46	15°43	17°47	n.a.	S 10
M11	17 3 37	15°33'10	3♏20	25°55	29°43	25°18	21°59	12°16	6°32	22°32	25° 5	14°38	15°40	17°54	n.a.	M11
T 12	17 7 33	16°30'17	15°57	27°23	0♌30	25°58	21°57	12°12	6°30	22°32	25° 4	14°29	15°37	18° 0	n.a.	T 12
W13	17 11 30	17°27'25	28°52	28°55	1°16	26°38	21°56	12° 8	6°27	22°32	25° 3	14°20	15°34	18° 7	n.a.	W13
T 14	17 15 26	18°24'33	12♐ 5	0♊31	2° 2	27°17	21°54	12° 5	6°25	22°32	25° 2	14°10	15°31	18°14	n.a.	T 14
F 15	17 19 23	19°21'41	25°35	2°10	2°47	27°57	21°53	12° 1	6°23	22°33	25° 1	14° 2	15°27	18°20	n.a.	F 15
S 16	17 23 20	20°18'50	9♑18	3°53	3°31	28°36	21°51	11°57	6°21	22°33	25° 0	13°56	15°24	18°27	n.a.	S 16
S 17	17 27 16	21°16'00	23°13	5°39	4°13	29°15	21°50	11°53	6°18	22°33	24°59	13°52	15°21	18°34	n.a.	S 17
M18	17 31 13	22°13'10	7♒15	7°29	4°55	29°54	21°49	11°49	6°16	22°33	24°58	13°D50	15°18	18°40	n.a.	M18
T 19	17 35 9	23°10'21	21°22	9°21	5°36	0♈33	21°49	11°45	6°14	22°34	24°56	13°50	15°15	18°47	n.a.	T 19
W20	17 39 6	24° 7'33	5♓32	11°16	6°16	1°12	21°48	11°41	6°11	22°34	24°55	13°51	15°11	18°54	n.a.	W20
T 21	17 43 2	25° 4'45	19°42	13°14	6°55	1°50	21°48	11°36	6° 9	22°35	24°54	13°R52	15° 8	19° 0	n.a.	T 21
F 22	17 46 59	26° 1'59	3♈52	15°14	7°33	2°29	21°D48	11°32	6° 7	22°35	24°53	13°52	15° 5	19° 7	n.a.	F 22
S 23	17 50 55	26°59'13	18° 0	17°16	8° 9	3° 7	21°48	11°28	6° 4	22°36	24°52	13°50	15° 2	19°14	n.a.	S 23
S 24	17 54 52	27°56'29	2♉ 3	19°19	8°44	3°45	21°48	11°24	6° 2	22°36	24°51	13°46	14°59	19°20	n.a.	S 24
M25	17 58 49	28°53'46	16° 0	21°24	9°18	4°23	21°48	11°19	6° 0	22°37	24°50	13°41	14°56	19°27	n.a.	M25
T 26	18 2 45	29°51'04	29°47	23°29	9°51	5° 1	21°49	11°15	5°57	22°37	24°49	13°34	14°52	19°34	n.a.	T 26
W27	18 6 42	0♋48'23	13♊22	25°35	10°22	5°38	21°50	11°11	5°55	22°38	24°47	13°27	14°49	19°40	n.a.	W27
T 28	18 10 38	1°45'43	26°41	27°42	10°52	6°16	21°51	11° 6	5°53	22°39	24°46	13°20	14°46	19°47	n.a.	T 28
F 29	18 14 35	2°43'03	9♋45	29°48	11°21	6°53	21°52	11° 2	5°50	22°39	24°45	13°15	14°43	19°54	n.a.	F 29
S 30	18 18 31	3♋40'25	22♋31	1♋54	11♌48	7♈30	21♎53	10♑58	5♑48	22♍40	24♑44	13♒11	14♒40	20♍ 0	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n34	27n13	3n30	13n 9	3s34	23n55	1n55	6s35	2s11	7s41	1n15	23s20	0s14	23s58	0s26	4n40	1n50	30s57	9s48	16s30	16s10	2n52		n.a.
S 2	21 44	25 31	2 35	13 30	3 25	23 43	1 51	6 19	2 12	7 40	1 15	23 20	0 14	23 58	0 26	4 40	1 50	30 58	9 48	16 32	16 11	2 49		n.a.
S 3	21 53	22 33	1 34	13 52	3 17	23 30	1 47	6 4	2 12	7 39	1 14	23 21	0 14	23 58	0 26	4 40	1 49	30 58	9 48	16 33	16 12	2 45		n.a.
M 4	22 2	18 37	0 30	14 17	3 7	23 16	1 42	5 48	2 13	7 38	1 14	23 21	0 15	23 59	0 26	4 40	1 49	30 59	9 49	16 33	16 13	2 42		n.a.
T 5	22 11	14 0	0s34	14 43	2 57	23 2	1 38	5 32	2 13	7 37	1 14	23 21	0 15	23 59	0 26	4 40	1 49	30 59	9 49	16 33	16 14	2 39		n.a.
W 6	22 20	8 56	1 36	15 10	2 47	22 48	1 33	5 17	2 14	7 36	1 13	23 22	0 15	23 59	0 26	4 40	1 49	30 59	9 49	16 33	16 15	2 35		n.a.
T 7	22 28	3 34	2 34	15 38	2 36	22 33	1 28	5 1	2 15	7 36	1 13	23 22	0 15	23 59	0 26	4 40	1 49	31 0	9 49	16 33	16 16	2 32		n.a.
F 8	22 35	1s54	3 25	16 8	2 24	22 18	1 23	4 45	2 15	7 35	1 13	23 23	0 15	23 59	0 26	4 40	1 49	31 0	9 50	16 33	16 17	2 29		n.a.
S 9	22 42	7 21	4 7	16 39	2 13	22 3	1 17	4 30	2 16	7 34	1 13	23 23	0 15	23 59	0 26	4 40	1 49	31 1	9 50	16 34	16 18	2 25		n.a.
S 10	22 49	12 35	4 39	17 10	2 1	21 47	1 12	4 14	2 16	7 34	1 12	23 24	0 15	23 59	0 26	4 40	1 49	31 1	9 50	16 36	16 19	2 22		n.a.
M11	22 56	17 27	4 59	17 43	1 48	21 31	1 6	3 58	2 17	7 33	1 12	23 24	0 15	23 59	0 26	4 40	1 49	31 1	9 50	16 38	16 20	2 19		n.a.
T 12	23 2	21 39	5 5	18 15	1 36	21 15	1 0	3 43	2 17	7 33	1 12	23 24	0 15	24 0	0 26	4 40	1 49	31 2	9 50	16 41	16 21	2 15		n.a.
W13	23 7	24 56	4 55	18 48	1 23	20 59	0 54	3 27	2 18	7 32	1 11	23 25	0 16	24 0	0 26	4 40	1 49	31 2	9 51	16 43	16 21	2 12		n.a.
T 14	23 12	26 58	4 30	19 21	1 10	20 42	0 47	3 12	2 18	7 32	1 11	23 25	0 16	24 0	0 26	4 39	1 49	31 3	9 51	16 46	16 22	2 9		n.a.
F 15	23 17	27 28	3 49	19 54	0 58	20 25	0 40	2 57	2 19	7 32	1 11	23 26	0 16	24 0	0 26	4 39	1 49	31 3	9 51	16 49	16 23	2 6		n.a.
S 16	23 22	26 17	2 54	20 26	0 45	20 8	0 33	2 41	2 19	7 31	1 11	23 26	0 16	24 0	0 26	4 39	1 49	31 3	9 51	16 50	16 24	2 2		n.a.
S 17	23 26	23 29	1 49	20 58	0 32	19 51	0 26	2 26	2 20	7 31	1 10	23 27	0 16	24 0	0 26	4 39	1 49	31 4	9 52	16 52	16 25	1 59		n.a.
M18	23 29	19 15	0 35	21 29	0 20	19 33	0 19	2 11	2 20	7 31	1 10	23 27	0 16	24 0	0 26	4 39	1 49	31 4	9 52	16 52	16 26	1 56		n.a.
T 19	23 32	13 54	0n40	21 59	0 8	19 16	0 11	1 55	2 21	7 31	1 10	23 28	0 16	24 0	0 26	4 39	1 49	31 5	9 52	16 52	16 27	1 52		n.a.
W20	23 35	7 49	1 54	22 28	0n 4	18 58	0 3	1 40	2 21	7 31	1 9	23 28	0 16	24 1	0 26	4 38	1 49	31 5	9 52	16 52	16 28	1 49		n.a.
T 21	23 38	1 21	3 1	22 54	0 15	18 41	0s 5	1 25	2 21	7 31	1 9	23 29	0 16	24 1	0 26	4 38	1 48	31 6	9 52	16 52	16 29	1 46		n.a.
F 22	23 40	5n10	3 57	23 19	0 26	18 23	0 14	1 10	2 22	7 32	1 9	23 29	0 16	24 1	0 26	4 38	1 48	31 6	9 52	16 52	16 30	1 42		n.a.
S 23	23 41	11 24	4 38	23 42	0 37	18 5	0 22	0 55	2 22	7 32	1 9	23 30	0 17	24 1	0 26	4 38	1 48	31 6	9 53	16 52	16 31	1 39		n.a.
S 24	23 42	17 2	5 2	24 3	0 46	17 47	0 31	0 40	2 23	7 32	1 8	23 30	0 17	24 1	0 26	4 37	1 48	31 7	9 53	16 53	16 32	1 36		n.a.
M25	23 43	21 43	5 8	24 22	0 55	17 29	0 41	0 25	2 23	7 33	1 8	23 31	0 17	24 1	0 26	4 37	1 48	31 7	9 53	16 55	16 33	1 32		n.a.
T 26	23 43	25 9	4 56	24 37	1 4	17 11	0 50	0 10	2 23	7 33	1 8	23 31	0 17	24 1	0 26	4 37	1 48	31 7	9 53	16 57	16 34	1 29		n.a.
W27	23 43	27 6	4 28	24 50	1 12	16 53	1 0	0n 4	2 24	7 34	1 7	23 31	0 17	24 1	0 26	4 37	1 48	31 8	9 53	16 59	16 35	1 26		n.a.
T 28	23 42	27 26	3 45	25 1	1 19	16 36	1 10	0 19	2 24	7 34	1 7	23 32	0 17	24 2	0 26	4 36	1 48	31 8	9 54	17 1	16 36	1 23		n.a.
F 29	23 41	26 12	2 51	25 8	1 25	16 18	1 20	0 33	2 24	7 35	1 7	23 32	0 17	24 2	0 26	4 36	1 48	31 9	9 54	17 2	16 37	1 19		n.a.
S 30	23n40	23n37	1n50	25n13	1n30	16n 0	1s30	0n48	2s25	7s36	1n 7	23s33	0s17	24s 2	0s26	4n36	1n48	31s 9	9s54	17s 3	16s38	1n16		n.a.

Julian Day Number = 1652542.5, Delta T = 03h30m12s
Ecliptic obliquity = 23°43'11, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°40'19, Lahiri = - 6°33'18 Julian Calendar 1 June 189 BCE == Greg. Calendar 29 May 189 BCE

The year -188 astronomical counting style corresponds to year 189 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 189 BCE
geocentric

JULY 189 BCE (-188) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 22 28	4♋37'48	5♌ 1	4♋ 0	12♌13	8♈ 7	21♎55	10°R53	5°R45	22♍41	24°R43	13°R 9	14♒37	20♍ 7	n.a.	S 1
M 2	18 26 25	5°35'11	17°15	6° 5	12°37	8°43	21°56	10♑49	5♑43	22°41	24♑41	13°D 9	14°33	20°14	n.a.	M 2
T 3	18 30 21	6°32'35	29°17	8° 9	12°59	9°19	21°58	10°44	5°41	22°42	24°40	13♒10	14°30	20°20	n.a.	T 3
W 4	18 34 18	7°30'00	11♍11	10°12	13°19	9°56	22° 0	10°40	5°38	22°43	24°39	13°12	14°27	20°27	n.a.	W 4
T 5	18 38 14	8°27'26	23° 1	12°14	13°38	10°32	22° 2	10°35	5°36	22°44	24°38	13°13	14°24	20°34	n.a.	T 5
F 6	18 42 11	9°24'52	4♎52	14°15	13°54	11° 7	22° 5	10°31	5°33	22°45	24°36	13°R14	14°21	20°40	n.a.	F 6
S 7	18 46 7	10°22'20	16°49	16°14	14° 9	11°43	22° 7	10°26	5°31	22°46	24°35	13°14	14°17	20°47	n.a.	S 7
S 8	18 50 4	11°19'48	28°56	18°12	14°21	12°18	22°10	10°22	5°29	22°47	24°34	13°13	14°14	20°54	n.a.	S 8
M 9	18 54 0	12°17'18	11♏19	20° 9	14°32	12°53	22°13	10°17	5°26	22°48	24°33	13°10	14°11	21° 0	n.a.	M 9
T 10	18 57 57	13°14'48	24° 0	22° 4	14°40	13°28	22°16	10°13	5°24	22°49	24°31	13° 6	14° 8	21° 7	n.a.	T 10
W11	19 1 54	14°12'20	7♐ 2	23°58	14°47	14° 3	22°19	10° 8	5°21	22°50	24°30	13° 2	14° 5	21°14	n.a.	W11
T 12	19 5 50	15° 9'52	20°27	25°50	14°51	14°37	22°23	10° 4	5°19	22°51	24°29	12°57	14° 2	21°20	n.a.	T 12
F 13	19 9 47	16° 7'26	4♑13	27°41	14°R52	15°11	22°26	10° 0	5°17	22°52	24°27	12°54	13°58	21°27	n.a.	F 13
S 14	19 13 43	17° 5'01	18°17	29°30	14°52	15°45	22°30	9°55	5°14	22°53	24°26	12°51	13°55	21°34	n.a.	S 14
S 15	19 17 40	18° 2'38	2♒37	1♌18	14°49	16°19	22°34	9°51	5°12	22°54	24°25	12°49	13°52	21°41	n.a.	S 15
M16	19 21 36	19° 0'16	17° 5	3° 4	14°44	16°52	22°38	9°46	5°10	22°55	24°23	12°D49	13°49	21°47	n.a.	M16
T 17	19 25 33	19°57'55	1♓37	4°49	14°36	17°25	22°42	9°42	5° 7	22°57	24°22	12°50	13°46	21°54	n.a.	T 17
W18	19 29 29	20°55'36	16° 8	6°32	14°26	17°58	22°47	9°38	5° 5	22°58	24°21	12°51	13°43	22° 1	n.a.	W18
T 19	19 33 26	21°53'19	0♈33	8°14	14°14	18°31	22°51	9°33	5° 3	22°59	24°20	12°52	13°39	22° 7	n.a.	T 19
F 20	19 37 23	22°51'03	14°49	9°55	13°59	19° 3	22°56	9°29	5° 1	23° 0	24°18	12°53	13°36	22°14	n.a.	F 20
S 21	19 41 19	23°48'50	28°54	11°34	13°42	19°35	23° 1	9°25	4°58	23° 2	24°17	12°R53	13°33	22°21	n.a.	S 21
S 22	19 45 16	24°46'38	12♉46	13°12	13°23	20° 7	23° 6	9°20	4°56	23° 3	24°16	12°53	13°30	22°27	n.a.	S 22
M23	19 49 12	25°44'28	26°24	14°48	13° 1	20°38	23°11	9°16	4°54	23° 5	24°14	12°51	13°27	22°34	n.a.	M23
T 24	19 53 9	26°42'20	9♊49	16°23	12°38	21° 9	23°17	9°12	4°52	23° 6	24°13	12°49	13°23	22°41	n.a.	T 24
W25	19 57 5	27°40'14	22°59	17°56	12°12	21°40	23°22	9° 8	4°50	23° 7	24°12	12°47	13°20	22°47	n.a.	W25
T 26	20 1 2	28°38'10	5♋55	19°29	11°44	22°11	23°28	9° 4	4°47	23° 9	24°10	12°45	13°17	22°54	n.a.	T 26
F 27	20 4 58	29°36'07	18°38	21° 0	11°15	22°41	23°34	9° 0	4°45	23°10	24° 9	12°43	13°14	23° 1	n.a.	F 27
S 28	20 8 55	0♌34'07	1♌ 7	22°29	10°44	23°11	23°40	8°56	4°43	23°12	24° 8	12°42	13°11	23° 7	n.a.	S 28
S 29	20 12 52	1°32'07	13°24	23°57	10°12	23°40	23°46	8°52	4°41	23°13	24° 6	12°D42	13° 8	23°14	n.a.	S 29
M30	20 16 48	2°30'10	25°30	25°24	9°38	24° 9	23°52	8°48	4°39	23°15	24° 5	12°43	13° 4	23°21	n.a.	M30
T 31	20 20 45	3♌28'14	7♍28	26♌49	9♌ 3	24♈38	23♎59	8♑44	4♑37	23♍16	24♑ 4	12♒43	13♒ 1	23♍27	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	23n38	19n57	0n44	25n15	1n35	15n43	1s41	1n 2	2s25	7s37	1n 6	23s33	0s17	24s 2	0s26	4n35	1n48	31s 9	9s54	17s 4	16s38	1n13			n.a.
M 2	23 36	15 29	0s22	25 14	1 39	15 26	1 52	1 16	2 25	7 37	1 6	23 34	0 17	24 2	0 26	4 35	1 48	31 10	9 54	17 4	16 39	1 9			n.a.
T 3	23 33	10 30	1 27	25 10	1 42	15 9	2 4	1 31	2 26	7 38	1 6	23 34	0 18	24 2	0 26	4 35	1 48	31 10	9 54	17 4	16 40	1 6			n.a.
W 4	23 30	5 11	2 27	25 4	1 45	14 52	2 15	1 45	2 26	7 39	1 5	23 35	0 18	24 2	0 26	4 34	1 48	31 11	9 54	17 3	16 41	1 3			n.a.
T 5	23 27	0s16	3 21	24 55	1 47	14 35	2 27	1 59	2 26	7 41	1 5	23 35	0 18	24 2	0 26	4 34	1 48	31 11	9 55	17 3	16 42	0 59			n.a.
F 6	23 23	5 42	4 6	24 44	1 48	14 19	2 39	2 13	2 26	7 42	1 5	23 36	0 18	24 2	0 26	4 33	1 48	31 11	9 55	17 2	16 43	0 56			n.a.
S 7	23 19	10 59	4 40	24 31	1 48	14 3	2 51	2 26	2 27	7 43	1 5	23 36	0 18	24 3	0 26	4 33	1 48	31 12	9 55	17 3	16 44	0 53			n.a.
S 8	23 14	15 56	5 3	24 15	1 48	13 48	3 3	2 40	2 27	7 44	1 4	23 36	0 18	24 3	0 26	4 32	1 48	31 12	9 55	17 3	16 45	0 50			n.a.
M 9	23 9	20 20	5 13	23 58	1 48	13 32	3 16	2 54	2 27	7 46	1 4	23 37	0 18	24 3	0 26	4 32	1 48	31 12	9 55	17 4	16 46	0 46			n.a.
T 10	23 3	23 57	5 7	23 38	1 46	13 18	3 29	3 7	2 27	7 47	1 4	23 37	0 18	24 3	0 26	4 32	1 47	31 13	9 55	17 5	16 47	0 43			n.a.
W11	22 57	26 26	4 46	23 17	1 44	13 3	3 42	3 20	2 27	7 49	1 3	23 38	0 18	24 3	0 26	4 31	1 47	31 13	9 55	17 6	16 48	0 40			n.a.
T 12	22 51	27 30	4 9	22 54	1 42	12 50	3 55	3 34	2 28	7 50	1 3	23 38	0 18	24 3	0 26	4 31	1 47	31 13	9 55	17 7	16 49	0 36			n.a.
F 13	22 44	26 55	3 16	22 29	1 39	12 37	4 8	3 47	2 28	7 52	1 3	23 39	0 18	24 3	0 26	4 30	1 47	31 14	9 55	17 8	16 50	0 33			n.a.
S 14	22 37	24 37	2 11	22 3	1 36	12 24	4 22	4 0	2 28	7 53	1 3	23 39	0 19	24 3	0 26	4 30	1 47	31 14	9 56	17 9	16 51	0 30			n.a.
S 15	22 29	20 43	0 56	21 36	1 32	12 12	4 35	4 13	2 28	7 55	1 2	23 40	0 19	24 3	0 26	4 29	1 47	31 15	9 56	17 10	16 52	0 26			n.a.
M16	22 21	15 32	0n23	21 7	1 28	12 1	4 48	4 25	2 28	7 57	1 2	23 40	0 19	24 3	0 26	4 29	1 47	31 15	9 56	17 10	16 52	0 23			n.a.
T 17	22 13	9 26	1 42	20 38	1 23	11 50	5 2	4 38	2 28	7 59	1 2	23 40	0 19	24 4	0 26	4 28	1 47	31 15	9 56	17 9	16 53	0 20			n.a.
W18	22 4	2 52	2 53	20 7	1 18	11 40	5 15	4 51	2 28	8 1	1 2	23 41	0 19	24 4	0 26	4 28	1 47	31 15	9 56	17 9	16 54	0 17			n.a.
T 19	21 55	3n47	3 54	19 35	1 13	11 31	5 29	5 3	2 28	8 3	1 1	23 41	0 19	24 4	0 26	4 27	1 47	31 16	9 56	17 9	16 55	0 13			n.a.
F 20	21 46	10 11	4 39	19 3	1 7	11 22	5 42	5 15	2 29	8 5	1 1	23 42	0 19	24 4	0 26	4 26	1 47	31 16	9 56	17 8	16 56	0 10			n.a.
S 21	21 36	15 58	5 6	18 30	1 1	11 14	5 55	5 28	2 29	8 7	1 1	23 42	0 19	24 4	0 26	4 26	1 47	31 16	9 56	17 8	16 57	0 7			n.a.
S 22	21 25	20 51	5 16	17 56	0 55	11 7	6 8	5 40	2 29	8 9	1 0	23 42	0 19	24 4	0 26	4 25	1 47	31 17	9 56	17 9	16 58	0 3			n.a.
M23	21 15	24 32	5 7	17 21	0 48	11 1	6 21	5 51	2 29	8 11	1 0	23 43	0 19	24 4	0 26	4 25	1 47	31 17	9 56	17 9	16 59	0 0			n.a.
T 24	21 4	26 49	4 41	16 46	0 41	10 56	6 33	6 3	2 29	8 13	1 0	23 43	0 19	24 4	0 26	4 24	1 47	31 17	9 56	17 10	17 0	0s 3			n.a.
W25	20 52	27 33	4 1	16 10	0 34	10 52	6 45	6 15	2 29	8 16	1 0	23 43	0 19	24 4	0 26	4 23	1 47	31 18	9 56	17 10	17 1	0 6			n.a.
T 26	20 40	26 45	3 10	15 34	0 27	10 48	6 56	6 26	2 29	8 18	0 59	23 44	0 20	24 4	0 26	4 23	1 47	31 18	9 56	17 11	17 2	0 10			n.a.
F 27	20 28	24 33	2 9	14 58	0 19	10 45	7 7	6 38	2 29	8 20	0 59	23 44	0 20	24 4	0 26	4 22	1 47	31 18	9 56	17 11	17 3	0 13			n.a.
S 28	20 16	21 11	1 4	14 22	0 11	10 43	7 18	6 49	2 29	8 23	0 59	23 45	0 20	24 4	0 26	4 22	1 47	31 19	9 56	17 12	17 3	0 16			n.a.
S 29	20 3	16 56	0s 4	13 45	0 4	10 43	7 28	7 0	2 29	8 25	0 59	23 45	0 20	24 5	0 26	4 21	1 47	31 19	9 56	17 12	17 4	0 20			n.a.
M30	19 50	12 4	1 10	13 8	0s 5	10 42	7 37	7 11	2 28	8 28	0 58	23 45	0 20	24 5	0 26	4 20	1 47	31 19	9 56	17 12	17 5	0 23			n.a.
T 31	19n36	6n49	2s13	12n31	0s13	10n43	7s45	7n21	2s28	8s31	0n58	23s46	0s20	24s 5	0s26	4n20	1n47	31s19	9s56	17s11	17s 6	0s26			n.a.

Julian Day Number = 1652572.5, Delta T = 03h30m11s
Ecliptic obliquity = 23°43'11, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°40'15, Lahiri = - 6°33'14 Julian Calendar 1 July 189 BCE == Greg. Calendar 28 June 189 BCE

The year -188 astronomical counting style corresponds to year 189 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 189 BCE
geocentric

AUGUST 189 BCE (-188) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 24 41	4♌26'19	19♍19	28♌13	8°R28	25♈ 6	24♎ 5	8°R40	4°R35	23♍18	24°R 2	12♒44	12♒58	23♍34	n.a.	W 1
T 2	20 28 38	5°24'27	1♎ 9	29°35	7♌51	25°34	24°12	8♉37	4♉33	23°20	24♉ 1	12°45	12°55	23°41	n.a.	T 2
F 3	20 32 34	6°22'36	12°59	0♍55	7°15	26° 2	24°19	8°33	4°31	23°21	24° 0	12°46	12°52	23°47	n.a.	F 3
S 4	20 36 31	7°20'46	24°55	2°15	6°38	26°29	24°26	8°29	4°29	23°23	23°59	12°46	12°49	23°54	n.a.	S 4
S 5	20 40 27	8°18'58	7♏ 0	3°32	6° 1	26°56	24°33	8°26	4°28	23°25	23°57	12°R46	12°45	24° 1	n.a.	S 5
M 6	20 44 24	9°17'12	19°20	4°48	5°24	27°23	24°40	8°22	4°26	23°26	23°56	12°46	12°42	24° 7	n.a.	M 6
T 7	20 48 21	10°15'27	1♐59	6° 2	4°48	27°49	24°48	8°19	4°24	23°28	23°55	12°46	12°39	24°14	n.a.	T 7
W 8	20 52 17	11°13'44	15° 1	7°15	4°13	28°15	24°55	8°15	4°22	23°30	23°53	12°46	12°36	24°21	n.a.	W 8
T 9	20 56 14	12°12'03	28°27	8°25	3°38	28°40	25° 3	8°12	4°20	23°32	23°52	12°46	12°33	24°27	n.a.	T 9
F 10	21 0 10	13°10'24	12♑19	9°34	3° 5	29° 5	25°11	8° 9	4°19	23°33	23°51	12°D46	12°29	24°34	n.a.	F 10
S 11	21 4 7	14° 8'46	26°35	10°40	2°34	29°29	25°19	8° 5	4°17	23°35	23°50	12°46	12°26	24°41	n.a.	S 11
S 12	21 8 3	15° 7'10	11♒11	11°44	2° 3	29°53	25°27	8° 2	4°15	23°37	23°49	12°R46	12°23	24°48	n.a.	S 12
M13	21 12 0	16° 5'36	26° 1	12°46	1°35	0♉16	25°35	7°59	4°14	23°39	23°47	12°46	12°20	24°54	n.a.	M13
T 14	21 15 56	17° 4'04	10♓59	13°46	1° 8	0°40	25°43	7°56	4°12	23°41	23°46	12°45	12°17	25° 1	n.a.	T 14
W15	21 19 53	18° 2'34	25°55	14°42	0°44	1° 2	25°52	7°53	4°11	23°43	23°45	12°45	12°14	25° 8	n.a.	W15
T 16	21 23 50	19° 1'06	10♈42	15°36	0°21	1°24	26° 0	7°51	4° 9	23°45	23°44	12°44	12°10	25°14	n.a.	T 16
F 17	21 27 46	19°59'41	25°13	16°27	0° 1	1°46	26° 9	7°48	4° 8	23°47	23°43	12°44	12° 7	25°21	n.a.	F 17
S 18	21 31 43	20°58'18	9♉26	17°15	29♋43	2° 7	26°18	7°45	4° 6	23°49	23°41	12°43	12° 4	25°28	n.a.	S 18
S 19	21 35 39	21°56'57	23°18	17°59	29°28	2°27	26°27	7°43	4° 5	23°50	23°40	12°D43	12° 1	25°34	n.a.	S 19
M20	21 39 36	22°55'39	6♊48	18°39	29°15	2°47	26°36	7°40	4° 4	23°52	23°39	12°43	11°58	25°41	n.a.	M20
T 21	21 43 32	23°54'23	19°58	19°16	29° 4	3° 6	26°45	7°38	4° 2	23°54	23°38	12°44	11°55	25°48	n.a.	T 21
W22	21 47 29	24°53'09	2♋51	19°48	28°56	3°25	26°54	7°35	4° 1	23°56	23°37	12°45	11°51	25°54	n.a.	W22
T 23	21 51 25	25°51'58	15°28	20°15	28°50	3°44	27° 4	7°33	4° 0	23°58	23°36	12°46	11°48	26° 1	n.a.	T 23
F 24	21 55 22	26°50'49	27°52	20°37	28°47	4° 1	27°13	7°31	3°59	24° 1	23°35	12°47	11°45	26° 8	n.a.	F 24
S 25	21 59 19	27°49'43	10♌ 5	20°53	28°D46	4°18	27°23	7°29	3°58	24° 3	23°34	12°R48	11°42	26°14	n.a.	S 25
S 26	22 3 15	28°48'38	22° 9	21° 4	28°47	4°35	27°32	7°27	3°57	24° 5	23°33	12°47	11°39	26°21	n.a.	S 26
M27	22 7 12	29°47'36	4♍ 7	21°R 8	28°51	4°50	27°42	7°25	3°56	24° 7	23°32	12°46	11°35	26°28	n.a.	M27
T 28	22 11 8	0♍46'35	16° 0	21° 6	28°57	5° 6	27°52	7°23	3°55	24° 9	23°31	12°44	11°32	26°34	n.a.	T 28
W29	22 15 5	1°45'37	27°49	20°57	29° 5	5°20	28° 2	7°22	3°54	24°11	23°30	12°41	11°29	26°41	n.a.	W29
T 30	22 19 1	2°44'40	9♎39	20°40	29°15	5°34	28°12	7°20	3°53	24°13	23°29	12°38	11°26	26°48	n.a.	T 30
F 31	22 22 58	3♍43'46	21♎30	20♍16	29♋28	5♉47	28♎22	7♑19	3♑52	24♍15	23♑28	12♒35	11♒23	26♍55	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	19n23	1n22	3s 9	11n54	0s21	10n45	7s53	7n32	2s28	8s33	0n58	23s46	0s20	24s 5	0s26	4n19	1n46	31s20	9s56	17s11	17s 7	0s29			n.a.
T 2	19 8	4s 5	3 58	11 17	0 30	10 47	8 0	7 42	2 28	8 36	0 58	23 46	0 20	24 5	0 26	4 18	1 46	31 20	9 56	17 11	17 8	0 33			n.a.
F 3	18 54	9 24	4 36	10 41	0 38	10 50	8 6	7 52	2 28	8 39	0 57	23 47	0 20	24 5	0 26	4 18	1 46	31 20	9 56	17 11	17 9	0 36			n.a.
S 4	18 39	14 26	5 2	10 4	0 47	10 54	8 11	8 3	2 28	8 42	0 57	23 47	0 20	24 5	0 26	4 17	1 46	31 20	9 56	17 11	17 10	0 39			n.a.
S 5	18 24	18 58	5 16	9 28	0 56	10 59	8 15	8 12	2 28	8 44	0 57	23 47	0 20	24 5	0 26	4 16	1 46	31 21	9 56	17 11	17 11	0 43			n.a.
M 6	18 8	22 49	5 15	8 51	1 5	11 4	8 19	8 22	2 27	8 47	0 57	23 47	0 20	24 5	0 26	4 15	1 46	31 21	9 56	17 11	17 12	0 46			n.a.
T 7	17 53	25 42	5 0	8 16	1 14	11 10	8 21	8 32	2 27	8 50	0 56	23 48	0 20	24 5	0 26	4 15	1 46	31 21	9 56	17 11	17 13	0 49			n.a.
W 8	17 37	27 19	4 29	7 40	1 23	11 17	8 23	8 41	2 27	8 53	0 56	23 48	0 20	24 5	0 26	4 14	1 46	31 21	9 56	17 11	17 13	0 52			n.a.
T 9	17 20	27 25	3 42	7 6	1 32	11 24	8 24	8 51	2 27	8 56	0 56	23 48	0 21	24 5	0 26	4 13	1 46	31 21	9 56	17 11	17 14	0 56			n.a.
F 10	17 4	25 49	2 41	6 31	1 41	11 32	8 23	9 0	2 26	8 59	0 56	23 49	0 21	24 5	0 26	4 12	1 46	31 22	9 56	17 11	17 15	0 59			n.a.
S 11	16 47	22 32	1 29	5 58	1 50	11 40	8 22	9 9	2 26	9 3	0 55	23 49	0 21	24 5	0 26	4 12	1 46	31 22	9 56	17 11	17 16	1 2			n.a.
S 12	16 29	17 46	0 9	5 25	1 58	11 48	8 20	9 17	2 26	9 6	0 55	23 49	0 21	24 5	0 26	4 11	1 46	31 22	9 56	17 11	17 17	1 5			n.a.
M13	16 12	11 51	1n13	4 53	2 7	11 57	8 18	9 26	2 25	9 9	0 55	23 49	0 21	24 5	0 26	4 10	1 46	31 22	9 56	17 11	17 18	1 9			n.a.
T 14	15 54	5 13	2 30	4 22	2 16	12 6	8 14	9 34	2 25	9 12	0 55	23 50	0 21	24 5	0 26	4 9	1 46	31 22	9 56	17 11	17 19	1 12			n.a.
W15	15 36	1n40	3 37	3 52	2 25	12 15	8 10	9 43	2 25	9 16	0 55	23 50	0 21	24 5	0 26	4 9	1 46	31 23	9 56	17 11	17 20	1 15			n.a.
T 16	15 18	8 24	4 29	3 23	2 33	12 24	8 5	9 51	2 24	9 19	0 54	23 50	0 21	24 5	0 26	4 8	1 46	31 23	9 56	17 11	17 21	1 19			n.a.
F 17	14 59	14 33	5 3	2 56	2 42	12 34	8 0	9 59	2 24	9 22	0 54	23 50	0 21	24 6	0 26	4 7	1 46	31 23	9 56	17 11	17 22	1 22			n.a.
S 18	14 40	19 48	5 17	2 30	2 50	12 43	7 54	10 6	2 23	9 26	0 54	23 50	0 21	24 6	0 26	4 6	1 46	31 23	9 56	17 11	17 22	1 25			n.a.
S 19	14 21	23 50	5 12	2 5	2 58	12 53	7 47	10 14	2 23	9 29	0 54	23 51	0 21	24 6	0 26	4 5	1 46	31 23	9 56	17 11	17 23	1 28			n.a.
M20	14 2	26 27	4 50	1 42	3 5	13 3	7 40	10 21	2 22	9 33	0 53	23 51	0 21	24 6	0 26	4 5	1 46	31 23	9 56	17 11	17 24	1 32			n.a.
T 21	13 42	27 32	4 13	1 21	3 12	13 12	7 33	10 28	2 22	9 36	0 53	23 51	0 21	24 6	0 26	4 4	1 46	31 23	9 56	17 11	17 25	1 35			n.a.
W22	13 23	27 5	3 24	1 3	3 19	13 21	7 25	10 35	2 21	9 40	0 53	23 51	0 21	24 6	0 26	4 3	1 46	31 24	9 56	17 11	17 26	1 38			n.a.
T 23	13 3	25 13	2 26	0 46	3 25	13 31	7 16	10 42	2 21	9 43	0 53	23 51	0 21	24 6	0 26	4 2	1 46	31 24	9 56	17 11	17 27	1 41			n.a.
F 24	12 43	22 10	1 22	0 32	3 31	13 40	7 8	10 49	2 20	9 47	0 53	23 52	0 21	24 6	0 26	4 1	1 46	31 24	9 56	17 10	17 28	1 45			n.a.
S 25	12 22	18 10	0 15	0 21	3 36	13 49	6 59	10 55	2 20	9 51	0 52	23 52	0 22	24 6	0 26	4 0	1 46	31 24	9 55	17 10	17 29	1 48			n.a.
S 26	12 1	13 29	0s52	0 13	3 40	13 57	6 50	11 1	2 19	9 54	0 52	23 52	0 22	24 6	0 26	4 0	1 46	31 24	9 55	17 10	17 30	1 51			n.a.
M27	11 41	8 20	1 55	0 8	3 43	14 6	6 40	11 7	2 18	9 58	0 52	23 52	0 22	24 6	0 26	3 59	1 46	31 24	9 55	17 11	17 31	1 54			n.a.
T 28	11 20	2 56	2 53	0 7	3 46	14 14	6 31	11 13	2 18	10 2	0 52	23 52	0 22	24 6	0 26	3 58	1 46	31 24	9 55	17 11	17 31	1 58			n.a.
W29	10 58	2s32	3 43	0 9	3 47	14 22	6 21	11 18	2 17	10 6	0 52	23 52	0 22	24 6	0 26	3 57	1 46	31 24	9 55	17 12	17 32	2 1			n.a.
T 30	10 37	7 54	4 24	0 16	3 47	14 30	6 11	11 24	2 16	10 10	0 51	23 53	0 22	24 6	0 26	3 56	1 46	31 24	9 55	17 13	17 33	2 4			n.a.
F 31	10n15	13s 0	4s54	0n27	3s45	14n37	6s 1	11n29	2s15	10s13	0n51	23s53	0s22	24s 6	0s26	3n55	1n46	31s24	9s55	17s14	17s34	2s 7			n.a.

Julian Day Number = 1652603.5, Delta T = 03h30m10s
Ecliptic obliquity = 23°43'11, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°40'10, Lahiri = - 6°33'10 Julian Calendar 1 Aug. 189 BCE == Greg. Calendar 29 July 189 BCE

The year -188 astronomical counting style corresponds to year 189 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 189 BCE
geocentric

SEPTEMBER 189 BCE (-188) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 26 54	4♍42'54	3♏26	19°R44	29♋42	6♉ 0	28♎33	7°R17	3°R51	24♍17	23°R27	12°R32	11♒20	27♍ 1	n.a.	S 1
S 2	22 30 51	5°42'03	15°30	19♍ 4	29°59	6°11	28°43	7♑16	3♑50	24°19	23♑26	12♒29	11°16	27° 8	n.a.	S 2
M 3	22 34 47	6°41'15	27°48	18°17	0♌17	6°22	28°54	7°15	3°50	24°22	23°25	12°28	11°13	27°15	n.a.	M 3
T 4	22 38 44	7°40'28	10♐21	17°24	0°38	6°33	29° 4	7°14	3°49	24°24	23°24	12°D28	11°10	27°21	n.a.	T 4
W 5	22 42 41	8°39'44	23°16	16°24	1° 0	6°42	29°15	7°13	3°48	24°26	23°23	12°28	11° 7	27°28	n.a.	W 5
T 6	22 46 37	9°39'01	6♑35	15°19	1°24	6°51	29°26	7°12	3°48	24°28	23°23	12°30	11° 4	27°35	n.a.	T 6
F 7	22 50 34	10°38'20	20°21	14°10	1°50	6°59	29°37	7°11	3°47	24°30	23°22	12°31	11° 0	27°41	n.a.	F 7
S 8	22 54 30	11°37'41	4♒34	12°59	2°17	7° 6	29°48	7°10	3°47	24°32	23°21	12°32	10°57	27°48	n.a.	S 8
S 9	22 58 27	12°37'04	19°13	11°48	2°46	7°13	29°59	7° 9	3°47	24°35	23°20	12°R32	10°54	27°55	n.a.	S 9
M10	23 2 23	13°36'29	4♓13	10°39	3°17	7°19	0♏10	7° 9	3°46	24°37	23°19	12°31	10°51	28° 1	n.a.	M10
T 11	23 6 20	14°35'56	19°25	9°33	3°49	7°24	0°21	7° 8	3°46	24°39	23°19	12°28	10°48	28° 8	n.a.	T 11
W12	23 10 16	15°35'25	4♈41	8°33	4°22	7°28	0°32	7° 8	3°46	24°41	23°18	12°24	10°45	28°15	n.a.	W12
T 13	23 14 13	16°34'57	19°48	7°41	4°57	7°31	0°44	7° 8	3°45	24°44	23°17	12°19	10°41	28°21	n.a.	T 13
F 14	23 18 9	17°34'30	4♉39	6°57	5°33	7°34	0°55	7° 8	3°45	24°46	23°17	12°14	10°38	28°28	n.a.	F 14
S 15	23 22 6	18°34'06	19° 7	6°23	6°11	7°35	1° 6	7°D 8	3°45	24°48	23°16	12°10	10°35	28°35	n.a.	S 15
S 16	23 26 3	19°33'45	3♊ 7	6° 0	6°50	7°R36	1°18	7° 8	3°45	24°50	23°15	12° 7	10°32	28°42	n.a.	S 16
M17	23 29 59	20°33'26	16°40	5°48	7°30	7°36	1°30	7° 8	3°D45	24°52	23°15	12°D 5	10°29	28°48	n.a.	M17
T 18	23 33 56	21°33'10	29°47	5°D47	8°11	7°35	1°41	7° 8	3°45	24°55	23°14	12° 6	10°26	28°55	n.a.	T 18
W19	23 37 52	22°32'55	12♋31	5°57	8°53	7°33	1°53	7° 9	3°45	24°57	23°14	12° 7	10°22	29° 2	n.a.	W19
T 20	23 41 49	23°32'44	24°57	6°17	9°37	7°30	2° 5	7° 9	3°45	24°59	23°13	12° 9	10°19	29° 8	n.a.	T 20
F 21	23 45 45	24°32'34	7♌10	6°48	10°21	7°26	2°17	7°10	3°46	25° 1	23°12	12°R10	10°16	29°15	n.a.	F 21
S 22	23 49 42	25°32'27	19°11	7°28	11° 7	7°22	2°29	7°10	3°46	25° 4	23°12	12° 9	10°13	29°22	n.a.	S 22
S 23	23 53 38	26°32'21	1♍ 6	8°16	11°53	7°16	2°41	7°11	3°46	25° 6	23°12	12° 7	10°10	29°28	n.a.	S 23
M24	23 57 35	27°32'18	12°58	9°12	12°40	7°10	2°53	7°12	3°47	25° 8	23°11	12° 3	10° 6	29°35	n.a.	M24
T 25	0 1 32	28°32'17	24°47	10°14	13°28	7° 3	3° 6	7°13	3°47	25°10	23°11	11°57	10° 3	29°42	n.a.	T 25
W26	0 5 28	29°32'18	6♎37	11°22	14°17	6°54	3°18	7°14	3°47	25°13	23°10	11°48	10° 0	29°48	n.a.	W26
T 27	0 9 25	0♎32'22	18°29	12°36	15° 7	6°45	3°30	7°15	3°48	25°15	23°10	11°39	9°57	29°55	n.a.	T 27
F 28	0 13 21	1°32'27	0♏25	13°54	15°58	6°35	3°43	7°17	3°48	25°17	23°10	11°29	9°54	0♎ 2	n.a.	F 28
S 29	0 17 18	2°32'33	12°26	15°15	16°49	6°25	3°55	7°18	3°49	25°19	23° 9	11°19	9°51	0° 8	n.a.	S 29
S 30	0 21 14	3♎32'42	24♏34	16♍40	17♌42	6♉13	4♏ 8	7♑20	3♑50	25♍22	23♑ 9	11♒11	9♒47	0♎15	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n54	17s39	5s10	0n42	3s42	14n44	5s51	11n34	2s14	10s17	0n51	23s53	0s22	24s 6	0s26	3n54	1n46	31s24	9s55	17s15	17s35	2s11		n.a.
S 2	9 32	21 40	5 14	1 3	3 38	14 50	5 41	11 39	2 13	10 21	0 51	23 53	0 22	24 6	0 26	3 54	1 46	31 25	9 55	17 15	17 36	2 14		n.a.
M 3	9 10	24 49	5 3	1 27	3 31	14 56	5 31	11 43	2 13	10 25	0 51	23 53	0 22	24 6	0 26	3 53	1 46	31 25	9 54	17 16	17 37	2 17		n.a.
T 4	8 47	26 51	4 38	1 56	3 22	15 2	5 21	11 47	2 12	10 29	0 50	23 53	0 22	24 6	0 26	3 52	1 46	31 25	9 54	17 16	17 38	2 20		n.a.
W 5	8 25	27 31	3 58	2 29	3 12	15 7	5 11	11 51	2 11	10 33	0 50	23 53	0 22	24 6	0 26	3 51	1 46	31 25	9 54	17 16	17 39	2 24		n.a.
T 6	8 2	26 38	3 5	3 6	2 59	15 12	5 1	11 55	2 10	10 37	0 50	23 53	0 22	24 6	0 26	3 50	1 46	31 25	9 54	17 15	17 39	2 27		n.a.
F 7	7 40	24 7	1 59	3 46	2 45	15 16	4 50	11 59	2 8	10 41	0 50	23 54	0 22	24 6	0 26	3 49	1 46	31 25	9 54	17 15	17 40	2 30		n.a.
S 8	7 17	20 3	0 44	4 28	2 29	15 20	4 40	12 2	2 7	10 45	0 50	23 54	0 22	24 6	0 26	3 48	1 46	31 25	9 54	17 14	17 41	2 33		n.a.
S 9	6 54	14 39	0n37	5 12	2 11	15 23	4 30	12 6	2 6	10 49	0 50	23 54	0 22	24 6	0 26	3 47	1 46	31 25	9 54	17 14	17 42	2 37		n.a.
M10	6 31	8 17	1 56	5 56	1 52	15 26	4 20	12 9	2 5	10 53	0 49	23 54	0 22	24 6	0 26	3 47	1 46	31 25	9 53	17 15	17 43	2 40		n.a.
T 11	6 8	1 21	3 8	6 39	1 32	15 28	4 10	12 11	2 4	10 58	0 49	23 54	0 22	24 6	0 26	3 46	1 46	31 25	9 53	17 16	17 44	2 43		n.a.
W12	5 45	5n39	4 7	7 21	1 12	15 30	4 0	12 14	2 2	11 2	0 49	23 54	0 23	24 6	0 26	3 45	1 46	31 25	9 53	17 17	17 45	2 46		n.a.
T 13	5 21	12 16	4 48	7 59	0 52	15 31	3 51	12 16	2 1	11 6	0 49	23 54	0 23	24 6	0 26	3 44	1 46	31 25	9 53	17 18	17 46	2 50		n.a.
F 14	4 58	18 3	5 9	8 35	0 31	15 32	3 41	12 18	2 0	11 10	0 49	23 54	0 23	24 6	0 26	3 43	1 46	31 25	9 53	17 20	17 46	2 53		n.a.
S 15	4 34	22 39	5 9	9 5	0 12	15 32	3 31	12 20	1 58	11 14	0 49	23 54	0 23	24 6	0 26	3 42	1 46	31 25	9 53	17 21	17 47	2 56		n.a.
S 16	4 11	25 47	4 51	9 31	0n 7	15 32	3 22	12 22	1 57	11 18	0 48	23 54	0 23	24 6	0 26	3 41	1 46	31 25	9 53	17 22	17 48	2 59		n.a.
M17	3 47	27 18	4 17	9 52	0 24	15 31	3 12	12 23	1 55	11 23	0 48	23 54	0 23	24 6	0 26	3 40	1 46	31 24	9 52	17 22	17 49	3 2		n.a.
T 18	3 23	27 13	3 30	10 8	0 41	15 29	3 3	12 24	1 54	11 27	0 48	23 54	0 23	24 6	0 26	3 39	1 46	31 24	9 52	17 22	17 50	3 6		n.a.
W19	2 59	25 41	2 34	10 18	0 55	15 27	2 54	12 25	1 52	11 31	0 48	23 54	0 23	24 6	0 26	3 38	1 46	31 24	9 52	17 22	17 51	3 9		n.a.
T 20	2 36	22 54	1 32	10 22	1 9	15 25	2 45	12 26	1 51	11 36	0 48	23 54	0 23	24 6	0 26	3 38	1 46	31 24	9 52	17 21	17 52	3 12		n.a.
F 21	2 12	19 8	0 27	10 22	1 21	15 21	2 36	12 26	1 49	11 40	0 48	23 54	0 23	24 6	0 26	3 37	1 46	31 24	9 52	17 21	17 53	3 15		n.a.
S 22	1 48	14 38	0s38	10 16	1 31	15 17	2 27	12 27	1 47	11 44	0 47	23 54	0 23	24 6	0 26	3 36	1 46	31 24	9 52	17 21	17 53	3 19		n.a.
S 23	1 23	9 38	1 41	10 6	1 40	15 13	2 18	12 26	1 45	11 48	0 47	23 54	0 23	24 6	0 26	3 35	1 46	31 24	9 51	17 22	17 54	3 22		n.a.
M24	0 59	4 20	2 39	9 52	1 47	15 8	2 9	12 26	1 44	11 53	0 47	23 54	0 23	24 6	0 26	3 34	1 46	31 24	9 51	17 23	17 55	3 25		n.a.
T 25	0 35	1s 6	3 29	9 33	1 53	15 3	2 1	12 26	1 42	11 57	0 47	23 54	0 23	24 6	0 26	3 33	1 46	31 24	9 51	17 25	17 56	3 28		n.a.
W26	0 11	6 29	4 11	9 12	1 58	14 56	1 53	12 25	1 40	12 2	0 47	23 54	0 23	24 6	0 26	3 32	1 46	31 24	9 51	17 27	17 57	3 31		n.a.
T 27	0s13	11 39	4 42	8 46	2 1	14 50	1 44	12 24	1 38	12 6	0 47	23 54	0 23	24 6	0 26	3 31	1 46	31 24	9 51	17 30	17 58	3 35		n.a.
F 28	0 37	16 25	5 0	8 18	2 4	14 42	1 36	12 22	1 36	12 10	0 47	23 54	0 23	24 6	0 26	3 30	1 46	31 23	9 50	17 32	17 59	3 38		n.a.
S 29	1 1	20 35	5 6	7 48	2 5	14 35	1 28	12 21	1 33	12 15	0 46	23 54	0 23	24 6	0 26	3 30	1 46	31 23	9 50	17 35	17 59	3 41		n.a.
S 30	1s26	23s56	4s58	7n15	2n 6	14n26	1s20	12n19	1s31	12s19	0n46	23s54	0s23	24s 6	0s26	3n29	1n46	31s23	9s50	17s37	18s 0	3s44		n.a.

Julian Day Number = 1652634.5, Delta T = 03h30m09s
Ecliptic obliquity = 23°43'11, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°40'06, Lahiri = - 6°33'06 Julian Calendar 1 Sept. 189 BCE == Greg. Calendar 29 Aug. 189 BCE

The year -188 astronomical counting style corresponds to year 189 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 189 BCE
geocentric

OCTOBER 189 BCE (-188) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 25 11	4♎32'53	6♐53	18♍ 8	18♌34	6°R 0	4♏20	7♑21	3♑50	25♍24	23°R 9	11°R 5	9♒44	0♎22	n.a.	M 1
T 2	0 29 7	5°33'05	19°25	19°38	19°28	5♉47	4°33	7°23	3°51	25°26	23♑ 9	11♒ 1	9°41	0°29	n.a.	T 2
W 3	0 33 4	6°33'19	2♑14	21° 9	20°22	5°33	4°45	7°25	3°52	25°28	23° 8	11°D 0	9°38	0°35	n.a.	W 3
T 4	0 37 1	7°33'34	15°24	22°42	21°17	5°18	4°58	7°27	3°53	25°30	23° 8	11° 0	9°35	0°42	n.a.	T 4
F 5	0 40 57	8°33'51	28°58	24°17	22°12	5° 3	5°11	7°29	3°54	25°33	23° 8	11° 1	9°32	0°49	n.a.	F 5
S 6	0 44 54	9°34'10	12♒59	25°52	23° 9	4°46	5°24	7°31	3°55	25°35	23° 8	11°R 1	9°28	0°55	n.a.	S 6
S 7	0 48 50	10°34'30	27°26	27°28	24° 5	4°29	5°37	7°33	3°56	25°37	23° 8	11° 0	9°25	1° 2	n.a.	S 7
M 8	0 52 47	11°34'52	12♓18	29° 4	25° 2	4°11	5°49	7°35	3°57	25°39	23° 8	10°57	9°22	1° 9	n.a.	M 8
T 9	0 56 43	12°35'15	27°27	0♎41	26° 0	3°53	6° 2	7°38	3°58	25°41	23° 8	10°51	9°19	1°15	n.a.	T 9
W10	1 0 40	13°35'40	12♈45	2°18	26°58	3°34	6°15	7°40	3°59	25°44	23°D 8	10°42	9°16	1°22	n.a.	W10
T 11	1 4 36	14°36'07	28° 1	3°55	27°57	3°15	6°28	7°43	4° 0	25°46	23° 8	10°33	9°12	1°29	n.a.	T 11
F 12	1 8 33	15°36'35	13♉ 4	5°32	28°57	2°55	6°41	7°45	4° 2	25°48	23° 8	10°23	9° 9	1°35	n.a.	F 12
S 13	1 12 30	16°37'06	27°45	7° 9	29°56	2°34	6°54	7°48	4° 3	25°50	23° 8	10°14	9° 6	1°42	n.a.	S 13
S 14	1 16 26	17°37'38	11♊57	8°46	0♍57	2°13	7° 8	7°51	4° 4	25°52	23° 8	10° 6	9° 3	1°49	n.a.	S 14
M15	1 20 23	18°38'12	25°38	10°23	1°57	1°52	7°21	7°54	4° 6	25°54	23° 8	10° 2	9° 0	1°56	n.a.	M15
T 16	1 24 19	19°38'49	8♋51	12° 0	2°58	1°30	7°34	7°57	4° 7	25°56	23° 8	9°59	8°57	2° 2	n.a.	T 16
W17	1 28 16	20°39'27	21°37	13°37	4° 0	1° 8	7°47	8° 0	4° 9	25°58	23° 8	9°D59	8°53	2° 9	n.a.	W17
T 18	1 32 12	21°40'07	4♌ 1	15°13	5° 2	0°46	8° 0	8° 3	4°10	26° 1	23° 8	9°R59	8°50	2°16	n.a.	T 18
F 19	1 36 9	22°40'48	16° 9	16°50	6° 4	0°23	8°14	8° 7	4°12	26° 3	23° 9	9°59	8°47	2°22	n.a.	F 19
S 20	1 40 5	23°41'32	28° 6	18°26	7° 7	0° 0	8°27	8°10	4°14	26° 5	23° 9	9°58	8°44	2°29	n.a.	S 20
S 21	1 44 2	24°42'17	9♍57	20° 2	8°10	29♈37	8°40	8°14	4°15	26° 7	23° 9	9°54	8°41	2°36	n.a.	S 21
M22	1 47 59	25°43'04	21°45	21°38	9°14	29°15	8°54	8°17	4°17	26° 9	23°10	9°47	8°37	2°42	n.a.	M22
T 23	1 51 55	26°43'52	3♎34	23°13	10°17	28°52	9° 7	8°21	4°19	26°11	23°10	9°37	8°34	2°49	n.a.	T 23
W24	1 55 52	27°44'42	15°27	24°49	11°22	28°29	9°21	8°25	4°21	26°13	23°10	9°25	8°31	2°56	n.a.	W24
T 25	1 59 48	28°45'33	27°25	26°24	12°26	28° 6	9°34	8°28	4°23	26°15	23°11	9°11	8°28	3° 3	n.a.	T 25
F 26	2 3 45	29°46'26	9♏29	27°59	13°31	27°43	9°48	8°32	4°24	26°17	23°11	8°56	8°25	3° 9	n.a.	F 26
S 27	2 7 41	0♏47'20	21°40	29°34	14°36	27°21	10° 1	8°36	4°26	26°19	23°11	8°41	8°22	3°16	n.a.	S 27
S 28	2 11 38	1°48'15	3♐59	1♏ 8	15°41	26°59	10°15	8°40	4°28	26°20	23°12	8°29	8°18	3°23	n.a.	S 28
M29	2 15 34	2°49'11	16°28	2°43	16°47	26°37	10°28	8°45	4°31	26°22	23°12	8°19	8°15	3°29	n.a.	M29
T 30	2 19 31	3°50'09	29° 7	4°18	17°53	26°15	10°42	8°49	4°33	26°24	23°13	8°13	8°12	3°36	n.a.	T 30
W31	2 23 28	4♏51'07	12♑ 0	5♏52	18♍59	25♈54	10♏55	8♑53	4♑35	26♍26	23♑13	8♒ 9	8♒ 9	3♎43	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	1s50	26s14	4s36	6n40	2n 5	14n17	1s13	12n17	1s29	12s23	0n46	23s54	0s23	24s 5	0s26	3n28	1n46	31s23	9s50	17s39	18s 1	3s47		n.a.
T 2	2 14	27 17	4 0	6 3	2 4	14 8	1 5	12 15	1 27	12 28	0 46	23 54	0 23	24 5	0 26	3 27	1 46	31 23	9 50	17 40	18 2	3 51		n.a.
W 3	2 38	26 54	3 12	5 25	2 2	13 57	0 58	12 12	1 24	12 32	0 46	23 54	0 23	24 5	0 26	3 26	1 46	31 23	9 50	17 40	18 3	3 54		n.a.
T 4	3 2	25 1	2 13	4 46	2 0	13 47	0 50	12 9	1 22	12 37	0 46	23 54	0 24	24 5	0 26	3 25	1 46	31 23	9 49	17 40	18 4	3 57		n.a.
F 5	3 26	21 39	1 4	4 5	1 57	13 36	0 43	12 6	1 19	12 41	0 46	23 54	0 24	24 5	0 26	3 24	1 46	31 22	9 49	17 40	18 5	4 0		n.a.
S 6	3 50	16 57	0n10	3 24	1 54	13 24	0 36	12 3	1 17	12 46	0 45	23 54	0 24	24 5	0 26	3 23	1 46	31 22	9 49	17 40	18 5	4 4		n.a.
S 7	4 14	11 9	1 27	2 42	1 50	13 11	0 29	12 0	1 14	12 50	0 45	23 54	0 24	24 5	0 26	3 23	1 46	31 22	9 49	17 40	18 6	4 7		n.a.
M 8	4 38	4 35	2 39	1 59	1 46	12 59	0 22	11 56	1 12	12 54	0 45	23 54	0 24	24 5	0 26	3 22	1 46	31 22	9 49	17 41	18 7	4 10		n.a.
T 9	5 2	2n21	3 41	1 16	1 41	12 45	0 16	11 53	1 9	12 59	0 45	23 54	0 24	24 5	0 26	3 21	1 46	31 22	9 48	17 43	18 8	4 13		n.a.
W10	5 26	9 12	4 28	0 33	1 36	12 31	0 9	11 49	1 7	13 3	0 45	23 53	0 24	24 5	0 26	3 20	1 46	31 22	9 48	17 45	18 9	4 16		n.a.
T 11	5 49	15 29	4 56	0s11	1 31	12 17	0 3	11 45	1 4	13 8	0 45	23 53	0 24	24 5	0 26	3 19	1 46	31 21	9 48	17 48	18 10	4 19		n.a.
F 12	6 13	20 45	5 3	0 55	1 25	12 2	0n 3	11 40	1 1	13 12	0 45	23 53	0 24	24 5	0 26	3 18	1 46	31 21	9 48	17 51	18 11	4 23		n.a.
S 13	6 36	24 35	4 49	1 39	1 20	11 46	0 9	11 36	0 58	13 17	0 45	23 53	0 24	24 5	0 26	3 17	1 46	31 21	9 48	17 53	18 11	4 26		n.a.
S 14	7 0	26 45	4 18	2 23	1 14	11 30	0 15	11 31	0 55	13 21	0 44	23 53	0 24	24 5	0 25	3 17	1 46	31 21	9 47	17 55	18 12	4 29		n.a.
M15	7 23	27 11	3 33	3 7	1 8	11 14	0 21	11 26	0 53	13 26	0 44	23 53	0 24	24 5	0 25	3 16	1 46	31 20	9 47	17 56	18 13	4 32		n.a.
T 16	7 46	26 2	2 38	3 51	1 1	10 57	0 27	11 21	0 50	13 30	0 44	23 53	0 24	24 5	0 25	3 15	1 46	31 20	9 47	17 57	18 14	4 35		n.a.
W17	8 9	23 33	1 36	4 35	0 55	10 39	0 32	11 16	0 47	13 34	0 44	23 53	0 24	24 5	0 25	3 14	1 46	31 20	9 47	17 57	18 15	4 39		n.a.
T 18	8 32	19 59	0 32	5 19	0 49	10 21	0 37	11 11	0 44	13 39	0 44	23 52	0 24	24 5	0 25	3 13	1 46	31 20	9 47	17 57	18 16	4 42		n.a.
F 19	8 55	15 40	0s33	6 2	0 42	10 3	0 43	11 6	0 41	13 43	0 44	23 52	0 24	24 5	0 25	3 13	1 46	31 20	9 46	17 57	18 16	4 45		n.a.
S 20	9 18	10 48	1 35	6 45	0 36	9 44	0 48	11 1	0 38	13 48	0 44	23 52	0 24	24 4	0 25	3 12	1 46	31 19	9 46	17 58	18 17	4 48		n.a.
S 21	9 41	5 35	2 32	7 28	0 29	9 25	0 53	10 55	0 35	13 52	0 44	23 52	0 24	24 4	0 25	3 11	1 46	31 19	9 46	17 59	18 18	4 51		n.a.
M22	10 3	0 13	3 22	8 11	0 23	9 5	0 58	10 50	0 32	13 57	0 44	23 52	0 24	24 4	0 25	3 10	1 46	31 19	9 46	18 0	18 19	4 54		n.a.
T 23	10 25	5s 9	4 3	8 53	0 16	8 45	1 2	10 45	0 29	14 1	0 43	23 51	0 24	24 4	0 25	3 9	1 46	31 19	9 46	18 3	18 20	4 58		n.a.
W24	10 48	10 22	4 34	9 34	0 9	8 25	1 7	10 39	0 26	14 5	0 43	23 51	0 24	24 4	0 25	3 9	1 46	31 18	9 45	18 6	18 21	5 1		n.a.
T 25	11 10	15 13	4 53	10 16	0 3	8 4	1 11	10 34	0 23	14 10	0 43	23 51	0 24	24 4	0 25	3 8	1 46	31 18	9 45	18 10	18 22	5 4		n.a.
F 26	11 31	19 32	5 0	10 56	0s 4	7 43	1 15	10 28	0 20	14 14	0 43	23 51	0 24	24 4	0 25	3 7	1 46	31 18	9 45	18 14	18 22	5 7		n.a.
S 27	11 53	23 5	4 52	11 37	0 10	7 21	1 19	10 23	0 17	14 19	0 43	23 51	0 24	24 4	0 25	3 6	1 46	31 17	9 45	18 18	18 23	5 10		n.a.
S 28	12 14	25 37	4 31	12 16	0 17	6 59	1 23	10 18	0 14	14 23	0 43	23 50	0 25	24 4	0 25	3 6	1 46	31 17	9 45	18 21	18 24	5 13		n.a.
M29	12 36	26 57	3 57	12 55	0 23	6 37	1 27	10 12	0 11	14 27	0 43	23 50	0 25	24 4	0 25	3 5	1 46	31 17	9 44	18 24	18 25	5 17		n.a.
T 30	12 57	26 53	3 10	13 34	0 30	6 14	1 31	10 7	0 8	14 32	0 43	23 50	0 25	24 4	0 25	3 4	1 46	31 17	9 44	18 26	18 26	5 20		n.a.
W31	13s17	25s23	2s13	14s12	0s36	5n51	1n34	10n 2	0s 5	14s36	0n43	23s50	0s25	24s 4	0s25	3n 4	1n47	31s16	9s44	18s27	18s27	5s23		n.a.

Julian Day Number = 1652664.5, Delta T = 03h30m08s
Ecliptic obliquity = 23°43'11, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°40'02, Lahiri = - 6°33'02 Julian Calendar 1 Oct. 189 BCE == Greg. Calendar 28 Sept. 189 BCE

The year -188 astronomical counting style corresponds to year 189 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 189 BCE
geocentric

NOVEMBER 189 BCE (-188) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 27 24	5♏52'06	25♑ 8	7♏26	20♍ 5	25°R33	11♏ 9	8♑58	4♑37	26♍28	23♑14	8°R 7	8♒ 6	3♎49	n.a.	T 1
F 2	2 31 21	6°53'06	8♒35	9° 0	21°12	25♈13	11°22	9° 2	4°39	26°30	23°15	8♒ 7	8° 3	3°56	n.a.	F 2
S 3	2 35 17	7°54'07	22°23	10°35	22°19	24°54	11°36	9° 7	4°41	26°32	23°15	8° 7	7°59	4° 3	n.a.	S 3
S 4	2 39 14	8°55'09	6♓33	12° 9	23°26	24°34	11°50	9°11	4°44	26°33	23°16	8° 5	7°56	4°10	n.a.	S 4
M 5	2 43 10	9°56'11	21° 5	13°43	24°34	24°16	12° 3	9°16	4°46	26°35	23°17	8° 1	7°53	4°16	n.a.	M 5
T 6	2 47 7	10°57'14	5♈56	15°17	25°41	23°58	12°17	9°21	4°48	26°37	23°17	7°54	7°50	4°23	n.a.	T 6
W 7	2 51 3	11°58'17	20°58	16°51	26°49	23°41	12°30	9°26	4°51	26°39	23°18	7°44	7°47	4°30	n.a.	W 7
T 8	2 55 0	12°59'22	6♉ 3	18°25	27°57	23°24	12°44	9°31	4°53	26°40	23°19	7°33	7°43	4°36	n.a.	T 8
F 9	2 58 57	14° 0'27	21° 0	20° 0	29° 5	23° 8	12°58	9°36	4°56	26°42	23°19	7°21	7°40	4°43	n.a.	F 9
S 10	3 2 53	15° 1'33	5♊41	21°34	0♎14	22°53	13°11	9°41	4°58	26°44	23°20	7°10	7°37	4°50	n.a.	S 10
S 11	3 6 50	16° 2'40	19°57	23° 8	1°22	22°38	13°25	9°46	5° 1	26°45	23°21	7° 1	7°34	4°56	n.a.	S 11
M12	3 10 46	17° 3'48	3♋45	24°42	2°31	22°25	13°38	9°51	5° 4	26°47	23°22	6°54	7°31	5° 3	n.a.	M12
T 13	3 14 43	18° 4'57	17° 4	26°17	3°40	22°12	13°52	9°56	5° 6	26°48	23°23	6°50	7°28	5°10	n.a.	T 13
W14	3 18 39	19° 6'07	29°55	27°51	4°49	22° 0	14° 6	10° 2	5° 9	26°50	23°24	6°49	7°24	5°17	n.a.	W14
T 15	3 22 36	20° 7'18	12♌24	29°26	5°59	21°48	14°19	10° 7	5°12	26°51	23°25	6°D49	7°21	5°23	n.a.	T 15
F 16	3 26 32	21° 8'30	24°35	1♐ 0	7° 8	21°38	14°33	10°13	5°14	26°53	23°26	6°R49	7°18	5°30	n.a.	F 16
S 17	3 30 29	22° 9'42	6♍33	2°35	8°18	21°28	14°46	10°18	5°17	26°54	23°27	6°48	7°15	5°37	n.a.	S 17
S 18	3 34 26	23°10'55	18°24	4° 9	9°28	21°19	15° 0	10°24	5°20	26°56	23°28	6°45	7°12	5°43	n.a.	S 18
M19	3 38 22	24°12'09	0♎12	5°44	10°38	21°11	15°13	10°29	5°23	26°57	23°29	6°39	7° 9	5°50	n.a.	M19
T 20	3 42 19	25°13'24	12° 3	7°18	11°48	21° 3	15°27	10°35	5°26	26°59	23°30	6°31	7° 5	5°57	n.a.	T 20
W21	3 46 15	26°14'39	24° 0	8°52	12°58	20°57	15°40	10°41	5°28	27° 0	23°31	6°20	7° 2	6° 3	n.a.	W21
T 22	3 50 12	27°15'55	6♏ 4	10°26	14° 9	20°51	15°54	10°47	5°31	27° 1	23°32	6° 7	6°59	6°10	n.a.	T 22
F 23	3 54 8	28°17'11	18°18	12° 0	15°19	20°46	16° 7	10°53	5°34	27° 3	23°33	5°54	6°56	6°17	n.a.	F 23
S 24	3 58 5	29°18'28	0♐43	13°34	16°30	20°42	16°21	10°59	5°37	27° 4	23°34	5°41	6°53	6°24	n.a.	S 24
S 25	4 2 1	0♐19'44	13°19	15° 7	17°40	20°39	16°34	11° 5	5°40	27° 5	23°35	5°30	6°49	6°30	n.a.	S 25
M26	4 5 58	1°21'02	26° 5	16°39	18°51	20°37	16°48	11°11	5°43	27° 6	23°36	5°21	6°46	6°37	n.a.	M26
T 27	4 9 55	2°22'19	9♑ 2	18°11	20° 2	20°35	17° 1	11°17	5°46	27° 8	23°37	5°15	6°43	6°44	n.a.	T 27
W28	4 13 51	3°23'36	22°10	19°42	21°13	20°D34	17°15	11°23	5°50	27° 9	23°39	5°12	6°40	6°50	n.a.	W28
T 29	4 17 48	4°24'52	5♒29	21°11	22°25	20°34	17°28	11°29	5°53	27°10	23°40	5°D11	6°37	6°57	n.a.	T 29
F 30	4 21 44	5♐26'09	19♒ 1	22♐39	23♎36	20♈35	17♏41	11♑35	5♑56	27♍11	23♑41	5♒12	6♒34	7♎ 4	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s38	22s28	1s 8	14s49	0s42	5n28	1n38	9n57	0s 3	14s40	0n43	23s49	0s25	24s 4	0s25	3n 3	1n47	31s16	9s44	18s27	18s27	5s26		n.a.
F 2	13 58	18 17	0n 2	15 26	0 48	5 4	1 41	9 52	0n 0	14 45	0 42	23 49	0 25	24 3	0 25	3 2	1 47	31 16	9 44	18 27	18 28	5 29		n.a.
S 3	14 18	13 2	1 15	16 2	0 54	4 40	1 44	9 48	0 3	14 49	0 42	23 49	0 25	24 3	0 25	3 1	1 47	31 15	9 43	18 27	18 29	5 32		n.a.
S 4	14 38	6 59	2 24	16 37	1 0	4 16	1 47	9 43	0 6	14 53	0 42	23 49	0 25	24 3	0 25	3 1	1 47	31 15	9 43	18 27	18 30	5 35		n.a.
M 5	14 58	0 26	3 26	17 11	1 6	3 52	1 50	9 39	0 9	14 58	0 42	23 48	0 25	24 3	0 25	3 0	1 47	31 15	9 43	18 29	18 31	5 39		n.a.
T 6	15 17	6n16	4 15	17 45	1 12	3 27	1 53	9 35	0 11	15 2	0 42	23 48	0 25	24 3	0 25	2 59	1 47	31 15	9 43	18 30	18 32	5 42		n.a.
W 7	15 36	12 42	4 47	18 18	1 17	3 2	1 55	9 31	0 14	15 6	0 42	23 48	0 25	24 3	0 25	2 59	1 47	31 14	9 43	18 33	18 32	5 45		n.a.
T 8	15 55	18 24	5 0	18 50	1 22	2 37	1 58	9 27	0 17	15 10	0 42	23 47	0 25	24 3	0 25	2 58	1 47	31 14	9 42	18 36	18 33	5 48		n.a.
F 9	16 14	22 54	4 52	19 21	1 27	2 12	2 0	9 23	0 19	15 15	0 42	23 47	0 25	24 3	0 25	2 58	1 47	31 14	9 42	18 39	18 34	5 51		n.a.
S 10	16 32	25 50	4 24	19 51	1 32	1 46	2 2	9 20	0 22	15 19	0 42	23 47	0 25	24 3	0 25	2 57	1 47	31 13	9 42	18 42	18 35	5 54		n.a.
S 11	16 50	27 0	3 41	20 20	1 37	1 21	2 4	9 17	0 24	15 23	0 42	23 46	0 25	24 3	0 25	2 56	1 47	31 13	9 42	18 44	18 36	5 57		n.a.
M12	17 8	26 25	2 45	20 48	1 42	0 55	2 6	9 14	0 27	15 27	0 42	23 46	0 25	24 2	0 25	2 56	1 47	31 13	9 42	18 46	18 36	6 1		n.a.
T 13	17 25	24 19	1 43	21 16	1 46	0 29	2 8	9 11	0 29	15 31	0 42	23 46	0 25	24 2	0 25	2 55	1 47	31 12	9 42	18 47	18 37	6 4		n.a.
W14	17 42	21 0	0 36	21 42	1 50	0 3	2 10	9 9	0 31	15 36	0 42	23 45	0 25	24 2	0 25	2 55	1 47	31 12	9 41	18 47	18 38	6 7		n.a.
T 15	17 59	16 48	0s30	22 7	1 54	0s24	2 11	9 7	0 33	15 40	0 41	23 45	0 25	24 2	0 25	2 54	1 47	31 12	9 41	18 47	18 39	6 10		n.a.
F 16	18 15	12 2	1 33	22 30	1 57	0 50	2 13	9 5	0 36	15 44	0 41	23 45	0 25	24 2	0 25	2 53	1 47	31 11	9 41	18 47	18 40	6 13		n.a.
S 17	18 31	6 53	2 31	22 53	2 0	1 17	2 14	9 3	0 38	15 48	0 41	23 44	0 25	24 2	0 25	2 53	1 47	31 11	9 41	18 47	18 41	6 16		n.a.
S 18	18 47	1 33	3 21	23 14	2 3	1 44	2 15	9 1	0 40	15 52	0 41	23 44	0 25	24 2	0 25	2 52	1 47	31 11	9 41	18 48	18 41	6 19		n.a.
M19	19 3	3s48	4 3	23 34	2 5	2 10	2 16	9 0	0 42	15 56	0 41	23 43	0 25	24 2	0 25	2 52	1 47	31 10	9 41	18 50	18 42	6 22		n.a.
T 20	19 18	9 1	4 35	23 53	2 8	2 37	2 17	8 59	0 44	16 0	0 41	23 43	0 26	24 1	0 25	2 51	1 47	31 10	9 40	18 52	18 43	6 25		n.a.
W21	19 32	13 58	4 55	24 10	2 9	3 4	2 18	8 59	0 46	16 4	0 41	23 43	0 26	24 1	0 25	2 51	1 48	31 10	9 40	18 54	18 44	6 29		n.a.
T 22	19 47	18 26	5 1	24 26	2 11	3 31	2 18	8 58	0 48	16 8	0 41	23 42	0 26	24 1	0 25	2 50	1 48	31 9	9 40	18 58	18 45	6 32		n.a.
F 23	20 1	22 11	4 54	24 40	2 11	3 58	2 19	8 58	0 50	16 12	0 41	23 42	0 26	24 1	0 25	2 50	1 48	31 9	9 40	19 1	18 45	6 35		n.a.
S 24	20 14	25 0	4 34	24 52	2 12	4 25	2 20	8 58	0 52	16 16	0 41	23 41	0 26	24 1	0 25	2 49	1 48	31 8	9 40	19 4	18 46	6 38		n.a.
S 25	20 27	26 37	3 59	25 3	2 12	4 52	2 20	8 59	0 53	16 20	0 41	23 41	0 26	24 1	0 25	2 49	1 48	31 8	9 40	19 7	18 47	6 41		n.a.
M26	20 40	26 52	3 12	25 13	2 11	5 19	2 20	8 59	0 55	16 24	0 41	23 40	0 26	24 1	0 25	2 49	1 48	31 8	9 39	19 9	18 48	6 44		n.a.
T 27	20 53	25 39	2 15	25 20	2 10	5 46	2 20	9 0	0 57	16 28	0 41	23 40	0 26	24 1	0 25	2 48	1 48	31 7	9 39	19 11	18 49	6 47		n.a.
W28	21 5	23 0	1 9	25 26	2 8	6 13	2 20	9 1	0 58	16 32	0 41	23 39	0 26	24 0	0 25	2 48	1 48	31 7	9 39	19 11	18 49	6 50		n.a.
T 29	21 16	19 6	0n 2	25 30	2 5	6 39	2 20	9 3	1 0	16 36	0 41	23 39	0 26	24 0	0 25	2 47	1 48	31 7	9 39	19 12	18 50	6 53		n.a.
F 30	21s28	14s 8	1n13	25s33	2s 2	7s 6	2n20	9n 5	1n 1	16s39	0n41	23s38	0s26	24s 0	0s25	2n47	1n48	31s 6	9s39	19s12	18s51	6s56		n.a.

Julian Day Number = 1652695.5, Delta T = 03h30m07s
Ecliptic obliquity = 23°43'11, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'58, Lahiri = - 6°32'57 Julian Calendar 1 Nov. 189 BCE == Greg. Calendar 29 Oct. 189 BCE

The year -188 astronomical counting style corresponds to year 189 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 189 BCE
geocentric

DECEMBER 189 BCE (-188) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 25 41	6♐27'25	2♓47	24♐ 6	24♎47	20♈37	17♏55	11♑42	5♑59	27♍12	23♑42	5°R12	6♒30	7♎11	n.a.	S 1
S 2	4 29 37	7°28'41	16°48	25°31	25°59	20°39	18° 8	11°48	6° 2	27°13	23°44	5♒12	6°27	7°17	n.a.	S 2
M 3	4 33 34	8°29'56	1♈ 2	26°53	27°10	20°42	18°21	11°54	6° 5	27°14	23°45	5°10	6°24	7°24	n.a.	M 3
T 4	4 37 31	9°31'11	15°30	28°12	28°22	20°46	18°34	12° 1	6° 9	27°15	23°46	5° 5	6°21	7°31	n.a.	T 4
W 5	4 41 27	10°32'26	0♉ 5	29°27	29°34	20°51	18°47	12° 7	6°12	27°16	23°48	4°58	6°18	7°37	n.a.	W 5
T 6	4 45 24	11°33'40	14°44	0♑39	0♏46	20°56	19° 1	12°14	6°15	27°17	23°49	4°50	6°15	7°44	n.a.	T 6
F 7	4 49 20	12°34'54	29°18	1°46	1°57	21° 2	19°14	12°20	6°18	27°18	23°50	4°41	6°11	7°51	n.a.	F 7
S 8	4 53 17	13°36'08	13♊41	2°48	3° 9	21° 8	19°27	12°27	6°22	27°19	23°52	4°32	6° 8	7°57	n.a.	S 8
S 9	4 57 13	14°37'21	27°45	3°43	4°22	21°16	19°40	12°34	6°25	27°20	23°53	4°26	6° 5	8° 4	n.a.	S 9
M10	5 1 10	15°38'34	11♋28	4°32	5°34	21°24	19°53	12°40	6°28	27°20	23°55	4°21	6° 2	8°11	n.a.	M10
T 11	5 5 6	16°39'47	24°46	5°12	6°46	21°32	20° 6	12°47	6°32	27°21	23°56	4°18	5°59	8°18	n.a.	T 11
W12	5 9 3	17°41'00	7♌41	5°44	7°58	21°42	20°19	12°54	6°35	27°22	23°57	4°D18	5°55	8°24	n.a.	W12
T 13	5 13 0	18°42'12	20°13	6° 6	9°11	21°52	20°31	13° 1	6°38	27°22	23°59	4°19	5°52	8°31	n.a.	T 13
F 14	5 16 56	19°43'24	2♍28	6°17	10°23	22° 2	20°44	13° 7	6°42	27°23	24° 0	4°20	5°49	8°38	n.a.	F 14
S 15	5 20 53	20°44'35	14°30	6°R17	11°35	22°13	20°57	13°14	6°45	27°24	24° 2	4°22	5°46	8°44	n.a.	S 15
S 16	5 24 49	21°45'46	26°23	6° 6	12°48	22°25	21°10	13°21	6°49	27°24	24° 3	4°R22	5°43	8°51	n.a.	S 16
M17	5 28 46	22°46'57	8♎14	5°43	14° 1	22°37	21°22	13°28	6°52	27°25	24° 5	4°20	5°40	8°58	n.a.	M17
T 18	5 32 42	23°48'07	20° 7	5° 8	15°13	22°50	21°35	13°35	6°56	27°25	24° 6	4°17	5°36	9° 5	n.a.	T 18
W19	5 36 39	24°49'17	2♏ 6	4°23	16°26	23° 3	21°47	13°42	6°59	27°26	24° 8	4°12	5°33	9°11	n.a.	W19
T 20	5 40 35	25°50'27	14°15	3°27	17°39	23°17	22° 0	13°49	7° 2	27°26	24°10	4° 5	5°30	9°18	n.a.	T 20
F 21	5 44 32	26°51'36	26°37	2°23	18°51	23°31	22°12	13°56	7° 6	27°27	24°11	3°58	5°27	9°25	n.a.	F 21
S 22	5 48 29	27°52'44	9♐14	1°13	20° 4	23°46	22°25	14° 3	7° 9	27°27	24°13	3°51	5°24	9°31	n.a.	S 22
S 23	5 52 25	28°53'52	22° 5	29♐58	21°17	24° 2	22°37	14°10	7°13	27°27	24°14	3°45	5°21	9°38	n.a.	S 23
M24	5 56 22	29°54'58	5♑12	28°42	22°30	24°17	22°49	14°17	7°16	27°28	24°16	3°41	5°17	9°45	n.a.	M24
T 25	6 0 18	0♑56'04	18°33	27°25	23°43	24°34	23° 1	14°24	7°20	27°28	24°18	3°38	5°14	9°52	n.a.	T 25
W26	6 4 15	1°57'09	2♒ 5	26°12	24°56	24°51	23°13	14°31	7°23	27°28	24°19	3°D37	5°11	9°58	n.a.	W26
T 27	6 8 11	2°58'12	15°48	25° 2	26° 9	25° 8	23°26	14°38	7°27	27°29	24°21	3°38	5° 8	10° 5	n.a.	T 27
F 28	6 12 8	3°59'14	29°40	23°59	27°22	25°26	23°37	14°45	7°30	27°29	24°23	3°39	5° 5	10°12	n.a.	F 28
S 29	6 16 5	5° 0'15	13♓39	23° 3	28°35	25°44	23°49	14°52	7°34	27°29	24°24	3°41	5° 1	10°18	n.a.	S 29
S 30	6 20 1	6° 1'14	27°44	22°15	29°48	26° 3	24° 1	15° 0	7°38	27°29	24°26	3°42	4°58	10°25	n.a.	S 30
M31	6 23 58	7♑ 2'12	11♈54	21♐36	1♐ 2	26♈22	24♏13	15♑ 7	7♑41	27♍29	24♑28	3°R42	4♒55	10♎32	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s38	8s24	2n22	25s33	1s58	7s33	2n20	9n 7	1n 3	16s43	0n40	23s38	0s26	24s 0	0s25	2n47	1n48	31s 6	9s39	19s11	18s52	7s 0		n.a.
S 2	21 49	2 9	3 23	25 32	1 53	7 59	2 19	9 9	1 4	16 47	0 40	23 37	0 26	24 0	0 25	2 46	1 48	31 6	9 39	19 11	18 53	7 3		n.a.
M 3	21 59	4n17	4 13	25 28	1 47	8 26	2 19	9 11	1 6	16 51	0 40	23 37	0 26	24 0	0 25	2 46	1 48	31 5	9 38	19 12	18 53	7 6		n.a.
T 4	22 8	10 35	4 48	25 23	1 41	8 52	2 18	9 14	1 7	16 55	0 40	23 36	0 26	24 0	0 25	2 45	1 48	31 5	9 38	19 13	18 54	7 9		n.a.
W 5	22 17	16 22	5 4	25 16	1 33	9 19	2 17	9 17	1 8	16 58	0 40	23 36	0 26	23 59	0 25	2 45	1 48	31 4	9 38	19 15	18 55	7 12		n.a.
T 6	22 26	21 14	5 1	25 8	1 25	9 45	2 16	9 20	1 9	17 2	0 40	23 35	0 26	23 59	0 25	2 45	1 48	31 4	9 38	19 17	18 56	7 15		n.a.
F 7	22 34	24 45	4 38	24 57	1 15	10 11	2 16	9 23	1 11	17 6	0 40	23 35	0 26	23 59	0 25	2 45	1 49	31 4	9 38	19 19	18 57	7 18		n.a.
S 8	22 42	26 38	3 58	24 46	1 4	10 36	2 15	9 27	1 12	17 9	0 40	23 34	0 26	23 59	0 25	2 44	1 49	31 3	9 38	19 21	18 57	7 21		n.a.
S 9	22 49	26 46	3 4	24 32	0 52	11 2	2 13	9 31	1 13	17 13	0 40	23 33	0 27	23 59	0 25	2 44	1 49	31 3	9 38	19 23	18 58	7 24		n.a.
M10	22 56	25 12	2 0	24 18	0 39	11 27	2 12	9 35	1 14	17 16	0 40	23 33	0 27	23 59	0 25	2 44	1 49	31 3	9 38	19 24	18 59	7 27		n.a.
T 11	23 3	22 16	0 51	24 2	0 25	11 52	2 11	9 39	1 15	17 20	0 40	23 32	0 27	23 58	0 25	2 44	1 49	31 2	9 38	19 24	19 0	7 30		n.a.
W12	23 8	18 16	0s18	23 45	0 10	12 17	2 10	9 44	1 16	17 23	0 40	23 32	0 27	23 58	0 25	2 43	1 49	31 2	9 38	19 25	19 1	7 33		n.a.
T 13	23 14	13 34	1 25	23 28	0n 7	12 42	2 8	9 48	1 17	17 27	0 40	23 31	0 27	23 58	0 25	2 43	1 49	31 2	9 37	19 24	19 1	7 36		n.a.
F 14	23 19	8 26	2 26	23 10	0 24	13 6	2 7	9 53	1 18	17 30	0 40	23 30	0 27	23 58	0 25	2 43	1 49	31 1	9 37	19 24	19 2	7 39		n.a.
S 15	23 24	3 6	3 20	22 52	0 42	13 30	2 5	9 58	1 19	17 34	0 40	23 30	0 27	23 58	0 25	2 43	1 49	31 1	9 37	19 24	19 3	7 43		n.a.
S 16	23 28	2s17	4 5	22 34	1 1	13 54	2 3	10 3	1 20	17 37	0 40	23 29	0 27	23 58	0 25	2 42	1 49	31 0	9 37	19 24	19 4	7 46		n.a.
M17	23 31	7 33	4 38	22 15	1 20	14 18	2 2	10 9	1 21	17 41	0 40	23 29	0 27	23 57	0 25	2 42	1 49	31 0	9 37	19 24	19 5	7 49		n.a.
T 18	23 34	12 34	5 0	21 58	1 39	14 41	2 0	10 14	1 22	17 44	0 40	23 28	0 27	23 57	0 25	2 42	1 49	31 0	9 37	19 25	19 5	7 52		n.a.
W19	23 37	17 10	5 10	21 40	1 58	15 4	1 58	10 20	1 22	17 47	0 40	23 27	0 27	23 57	0 25	2 42	1 49	30 59	9 37	19 26	19 6	7 55		n.a.
T 20	23 39	21 8	5 5	21 24	2 16	15 26	1 56	10 26	1 23	17 50	0 40	23 27	0 27	23 57	0 25	2 42	1 49	30 59	9 37	19 28	19 7	7 58		n.a.
F 21	23 41	24 15	4 46	21 8	2 33	15 49	1 54	10 32	1 24	17 54	0 40	23 26	0 27	23 57	0 25	2 42	1 49	30 59	9 37	19 29	19 8	8 1		n.a.
S 22	23 42	26 16	4 13	20 54	2 49	16 10	1 52	10 38	1 25	17 57	0 40	23 25	0 27	23 56	0 25	2 42	1 50	30 58	9 37	19 31	19 9	8 4		n.a.
S 23	23 43	26 55	3 27	20 41	3 2	16 32	1 50	10 45	1 25	18 0	0 40	23 25	0 27	23 56	0 25	2 42	1 50	30 58	9 37	19 32	19 9	8 7		n.a.
M24	23 43	26 6	2 29	20 29	3 14	16 53	1 47	10 51	1 26	18 3	0 40	23 24	0 27	23 56	0 25	2 42	1 50	30 58	9 37	19 33	19 10	8 10		n.a.
T 25	23 43	23 46	1 21	20 19	3 23	17 13	1 45	10 58	1 27	18 6	0 40	23 23	0 27	23 56	0 25	2 42	1 50	30 57	9 37	19 34	19 11	8 13		n.a.
W26	23 42	20 4	0 8	20 11	3 29	17 34	1 43	11 5	1 27	18 10	0 40	23 22	0 28	23 56	0 25	2 42	1 50	30 57	9 37	19 34	19 12	8 16		n.a.
T 27	23 41	15 14	1n 6	20 5	3 33	17 53	1 40	11 12	1 28	18 13	0 40	23 22	0 28	23 55	0 25	2 42	1 50	30 56	9 37	19 34	19 12	8 19		n.a.
F 28	23 39	9 34	2 18	20 0	3 35	18 13	1 38	11 19	1 29	18 16	0 39	23 21	0 28	23 55	0 25	2 41	1 50	30 56	9 36	19 34	19 13	8 22		n.a.
S 29	23 37	3 24	3 22	19 58	3 34	18 32	1 36	11 26	1 29	18 19	0 39	23 20	0 28	23 55	0 25	2 42	1 50	30 56	9 36	19 33	19 14	8 25		n.a.
S 30	23 35	2n58	4 14	19 58	3 32	18 50	1 33	11 34	1 30	18 22	0 39	23 20	0 28	23 55	0 25	2 42	1 50	30 55	9 36	19 33	19 15	8 28		n.a.
M31	23s32	9n13	4n51	20s 0	3n28	19s 8	1n30	11n41	1n30	18s25	0n39	23s19	0s28	23s55	0s25	2n42	1n50	30s55	9s36	19s33	19s16	8s31		n.a.

Julian Day Number = 1652725.5, Delta T = 03h30m06s
Ecliptic obliquity = 23°43'10, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'54, Lahiri = - 6°32'53 Julian Calendar 1 Dec. 189 BCE == Greg. Calendar 28 Nov. 189 BCE

The year -188 astronomical counting style corresponds to year 189 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 188 BCE
geocentric

JANUARY 188 BCE (-187) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 27 54	8♑ 3'08	26♈ 6	21°R 5	2♐15	26♈41	24♏25	15♑14	7♑45	27°R29	24♑29	3°R41	4♒52	10♎39	n.a.	T 1
W 2	6 31 51	9° 4'03	10♉18	20♐43	3°28	27° 1	24°36	15°21	7°48	27♍29	24°31	3♒38	4°49	10°45	n.a.	W 2
T 3	6 35 47	10° 4'57	24°28	20°29	4°41	27°21	24°48	15°28	7°52	27°29	24°33	3°35	4°46	10°52	n.a.	T 3
F 4	6 39 44	11° 5'49	8♊32	20°D24	5°55	27°42	24°59	15°36	7°55	27°29	24°34	3°32	4°42	10°59	n.a.	F 4
S 5	6 43 40	12° 6'39	22°26	20°26	7° 8	28° 3	25°11	15°43	7°59	27°29	24°36	3°29	4°39	11° 5	n.a.	S 5
S 6	6 47 37	13° 7'28	6♋ 6	20°35	8°21	28°24	25°22	15°50	8° 2	27°29	24°38	3°26	4°36	11°12	n.a.	S 6
M 7	6 51 34	14° 8'16	19°30	20°51	9°34	28°45	25°33	15°57	8° 6	27°29	24°39	3°25	4°33	11°19	n.a.	M 7
T 8	6 55 30	15° 9'02	2♌36	21°13	10°48	29° 7	25°44	16° 4	8° 9	27°28	24°41	3°D24	4°30	11°26	n.a.	T 8
W 9	6 59 27	16° 9'47	15°24	21°41	12° 1	29°30	25°55	16°12	8°13	27°28	24°43	3°24	4°27	11°32	n.a.	W 9
T 10	7 3 23	17°10'31	27°55	22°14	13°15	29°52	26° 6	16°19	8°16	27°28	24°45	3°25	4°23	11°39	n.a.	T 10
F 11	7 7 20	18°11'13	10♍10	22°52	14°28	0♉15	26°17	16°26	8°20	27°27	24°46	3°27	4°20	11°46	n.a.	F 11
S 12	7 11 16	19°11'54	22°14	23°34	15°41	0°38	26°28	16°33	8°23	27°27	24°48	3°28	4°17	11°52	n.a.	S 12
S 13	7 15 13	20°12'33	4♎10	24°20	16°55	1° 2	26°38	16°40	8°27	27°27	24°50	3°29	4°14	11°59	n.a.	S 13
M14	7 19 9	21°13'12	16° 2	25°10	18° 8	1°26	26°49	16°48	8°30	27°26	24°52	3°R30	4°11	12° 6	n.a.	M14
T 15	7 23 6	22°13'49	27°55	26° 3	19°22	1°50	26°59	16°55	8°33	27°26	24°53	3°30	4° 7	12°13	n.a.	T 15
W16	7 27 3	23°14'24	9♏54	27° 0	20°35	2°14	27°10	17° 2	8°37	27°25	24°55	3°29	4° 4	12°19	n.a.	W16
T 17	7 30 59	24°14'59	22° 4	27°59	21°49	2°39	27°20	17° 9	8°40	27°25	24°57	3°28	4° 1	12°26	n.a.	T 17
F 18	7 34 56	25°15'31	4♐29	29° 1	23° 3	3° 4	27°30	17°16	8°44	27°24	24°59	3°27	3°58	12°33	n.a.	F 18
S 19	7 38 52	26°16'03	17°11	0♑ 5	24°16	3°29	27°40	17°24	8°47	27°24	25° 0	3°26	3°55	12°39	n.a.	S 19
S 20	7 42 49	27°16'33	0♑13	1°12	25°30	3°54	27°50	17°31	8°51	27°23	25° 2	3°25	3°52	12°46	n.a.	S 20
M21	7 46 45	28°17'01	13°35	2°21	26°43	4°20	28° 0	17°38	8°54	27°23	25° 4	3°25	3°48	12°53	n.a.	M21
T 22	7 50 42	29°17'28	27°17	3°31	27°57	4°46	28°10	17°45	8°57	27°22	25° 6	3°D25	3°45	13° 0	n.a.	T 22
W23	7 54 39	0♒17'52	11♒15	4°44	29°10	5°12	28°19	17°52	9° 1	27°21	25° 7	3°25	3°42	13° 6	n.a.	W23
T 24	7 58 35	1°18'15	25°27	5°58	0♑24	5°38	28°29	17°59	9° 4	27°21	25° 9	3°25	3°39	13°13	n.a.	T 24
F 25	8 2 32	2°18'36	9♓48	7°15	1°38	6° 5	28°38	18° 6	9° 7	27°20	25°11	3°25	3°36	13°20	n.a.	F 25
S 26	8 6 28	3°18'55	24°12	8°32	2°51	6°32	28°48	18°13	9°11	27°19	25°12	3°R25	3°33	13°26	n.a.	S 26
S 27	8 10 25	4°19'11	8♈36	9°51	4° 5	6°59	28°57	18°20	9°14	27°18	25°14	3°25	3°29	13°33	n.a.	S 27
M28	8 14 21	5°19'26	22°55	11°12	5°19	7°26	29° 6	18°28	9°17	27°17	25°16	3°25	3°26	13°40	n.a.	M28
T 29	8 18 18	6°19'38	7♉ 7	12°34	6°32	7°53	29°15	18°35	9°20	27°17	25°18	3°D25	3°23	13°47	n.a.	T 29
W30	8 22 14	7°19'48	21° 8	13°57	7°46	8°21	29°23	18°41	9°24	27°16	25°19	3°25	3°20	13°53	n.a.	W30
T 31	8 26 11	8♒19'56	4♊59	15♑22	8♑59	8♉49	29♏32	18♑48	9♑27	27♍15	25♑21	3♒25	3♒17	14♎ 0	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23s28	15n 0	5n11	20s 3	3n22	19s25	1n28	11n49	1n31	18s27	0n39	23s18	0s28	23s54	0s25	2n42	1n50	30s55	9s36	19s33	19s16	8s34			n.a.
W 2	23 24	20 0	5 12	20 9	3 15	19 42	1 25	11 56	1 31	18 30	0 39	23 17	0 28	23 54	0 25	2 42	1 50	30 54	9 36	19 34	19 17	8 37			n.a.
T 3	23 20	23 50	4 53	20 16	3 7	19 58	1 22	12 4	1 32	18 33	0 39	23 17	0 28	23 54	0 25	2 42	1 50	30 54	9 36	19 35	19 18	8 40			n.a.
F 4	23 15	26 13	4 17	20 24	2 58	20 14	1 20	12 12	1 32	18 36	0 39	23 16	0 28	23 54	0 25	2 42	1 50	30 54	9 36	19 35	19 19	8 43			n.a.
S 5	23 10	26 56	3 27	20 34	2 49	20 29	1 17	12 20	1 32	18 39	0 39	23 15	0 28	23 54	0 25	2 42	1 50	30 53	9 36	19 36	19 19	8 46			n.a.
S 6	23 4	25 59	2 25	20 44	2 39	20 44	1 14	12 28	1 33	18 41	0 39	23 14	0 28	23 53	0 25	2 42	1 51	30 53	9 36	19 37	19 20	8 49			n.a.
M 7	22 58	23 32	1 16	20 56	2 29	20 58	1 11	12 36	1 33	18 44	0 39	23 13	0 28	23 53	0 25	2 42	1 51	30 53	9 36	19 37	19 21	8 52			n.a.
T 8	22 51	19 53	0 4	21 8	2 18	21 12	1 8	12 45	1 34	18 47	0 39	23 13	0 28	23 53	0 25	2 42	1 51	30 52	9 36	19 37	19 22	8 55			n.a.
W 9	22 44	15 21	1s 6	21 20	2 7	21 25	1 6	12 53	1 34	18 50	0 39	23 12	0 29	23 53	0 25	2 42	1 51	30 52	9 36	19 37	19 22	8 58			n.a.
T 10	22 36	10 17	2 11	21 33	1 57	21 37	1 3	13 1	1 34	18 52	0 39	23 11	0 29	23 53	0 25	2 43	1 51	30 52	9 36	19 37	19 23	9 1			n.a.
F 11	22 28	4 55	3 9	21 46	1 46	21 49	1 0	13 10	1 35	18 55	0 39	23 10	0 29	23 52	0 25	2 43	1 51	30 51	9 36	19 37	19 24	9 4			n.a.
S 12	22 20	0s31	3 58	21 59	1 35	22 0	0 57	13 19	1 35	18 57	0 39	23 9	0 29	23 52	0 25	2 43	1 51	30 51	9 36	19 36	19 25	9 7			n.a.
S 13	22 11	5 53	4 36	22 12	1 24	22 10	0 54	13 27	1 35	19 0	0 39	23 8	0 29	23 52	0 25	2 43	1 51	30 51	9 36	19 36	19 26	9 10			n.a.
M14	22 1	11 1	5 2	22 25	1 13	22 20	0 51	13 36	1 35	19 2	0 39	23 8	0 29	23 52	0 25	2 43	1 51	30 51	9 37	19 36	19 26	9 13			n.a.
T 15	21 52	15 45	5 15	22 37	1 3	22 29	0 48	13 45	1 36	19 5	0 39	23 7	0 29	23 52	0 25	2 44	1 51	30 50	9 37	19 36	19 27	9 16			n.a.
W16	21 42	19 55	5 15	22 49	0 52	22 38	0 45	13 53	1 36	19 7	0 39	23 6	0 29	23 51	0 25	2 44	1 51	30 50	9 37	19 36	19 28	9 19			n.a.
T 17	21 31	23 19	5 0	23 0	0 42	22 46	0 42	14 2	1 36	19 9	0 39	23 5	0 29	23 51	0 25	2 44	1 51	30 50	9 37	19 36	19 29	9 22			n.a.
F 18	21 20	25 44	4 31	23 11	0 32	22 53	0 39	14 11	1 36	19 12	0 39	23 4	0 29	23 51	0 25	2 44	1 51	30 49	9 37	19 37	19 29	9 25			n.a.
S 19	21 9	26 54	3 49	23 21	0 22	23 0	0 36	14 20	1 37	19 14	0 39	23 3	0 29	23 51	0 25	2 45	1 51	30 49	9 37	19 37	19 30	9 28			n.a.
S 20	20 57	26 37	2 54	23 30	0 13	23 6	0 33	14 29	1 37	19 16	0 39	23 3	0 29	23 50	0 25	2 45	1 51	30 49	9 37	19 37	19 31	9 31			n.a.
M21	20 45	24 48	1 48	23 38	0 3	23 11	0 30	14 38	1 37	19 19	0 39	23 2	0 29	23 50	0 25	2 45	1 51	30 49	9 37	19 37	19 32	9 34			n.a.
T 22	20 32	21 30	0 34	23 46	0s 6	23 15	0 27	14 47	1 37	19 21	0 39	23 1	0 30	23 50	0 25	2 46	1 52	30 48	9 37	19 37	19 32	9 37			n.a.
W23	20 19	16 54	0n43	23 52	0 14	23 19	0 24	14 56	1 37	19 23	0 39	23 0	0 30	23 50	0 25	2 46	1 52	30 48	9 37	19 37	19 33	9 40			n.a.
T 24	20 6	11 19	1 59	23 58	0 23	23 22	0 21	15 5	1 38	19 25	0 39	22 59	0 30	23 50	0 25	2 46	1 52	30 48	9 37	19 37	19 34	9 42			n.a.
F 25	19 53	5 5	3 8	24 2	0 31	23 25	0 18	15 14	1 38	19 27	0 39	22 58	0 30	23 49	0 25	2 47	1 52	30 47	9 37	19 37	19 35	9 45			n.a.
S 26	19 39	1n26	4 6	24 6	0 39	23 26	0 15	15 23	1 38	19 29	0 39	22 57	0 30	23 49	0 25	2 47	1 52	30 47	9 37	19 37	19 35	9 48			n.a.
S 27	19 24	7 51	4 48	24 8	0 47	23 27	0 12	15 33	1 38	19 31	0 39	22 56	0 30	23 49	0 25	2 47	1 52	30 47	9 37	19 37	19 36	9 51			n.a.
M28	19 10	13 49	5 12	24 9	0 54	23 28	0 9	15 42	1 38	19 33	0 39	22 56	0 30	23 49	0 25	2 48	1 52	30 47	9 37	19 37	19 37	9 54			n.a.
T 29	18 55	19 1	5 16	24 8	1 1	23 27	0 6	15 51	1 38	19 35	0 39	22 55	0 30	23 49	0 25	2 48	1 52	30 46	9 38	19 37	19 38	9 57			n.a.
W30	18 39	23 6	5 2	24 6	1 8	23 26	0 3	16 0	1 38	19 37	0 39	22 54	0 30	23 48	0 25	2 49	1 52	30 46	9 38	19 37	19 38	10 0			n.a.
T 31	18s24	25n48	4n30	24s 3	1s15	23s24	0n 0	16n 9	1n39	19s39	0n39	22s53	0s30	23s48	0s25	2n49	1n52	30s46	9s38	19s37	19s39	10s 3			n.a.

Julian Day Number = 1652756.5, Delta T = 03h30m05s
Ecliptic obliquity = 23°43'10, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'50, Lahiri = - 6°32'49 Julian Calendar 1 Jan. 188 BCE == Greg. Calendar 29 Dec. 189 BCE

The year -187 astronomical counting style corresponds to year 188 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 188 BCE
geocentric

FEBRUARY 188 BCE (-187) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 30 7	9♒20'02	18♊37	16♑48	10♑13	9♉17	29♏41	18♑55	9♑30	27°R14	25♑23	3♒26	3♒13	14♎ 7	n.a.	F 1
S 2	8 34 4	10°20'05	2♋ 3	18°15	11°27	9°45	29°49	19° 2	9°33	27♍13	25°24	3°26	3°10	14°13	n.a.	S 2
S 3	8 38 1	11°20'06	15°16	19°43	12°40	10°13	29°57	19° 9	9°36	27°12	25°26	3°27	3° 7	14°20	n.a.	S 3
M 4	8 41 57	12°20'06	28°15	21°13	13°54	10°42	0♐ 6	19°16	9°39	27°11	25°28	3°R27	3° 4	14°27	n.a.	M 4
T 5	8 45 54	13°20'03	11♌ 2	22°44	15° 8	11°11	0°14	19°23	9°42	27°10	25°30	3°27	3° 1	14°34	n.a.	T 5
W 6	8 49 50	14°19'58	23°36	24°16	16°21	11°39	0°21	19°30	9°46	27° 9	25°31	3°27	2°58	14°40	n.a.	W 6
T 7	8 53 47	15°19'50	5♍57	25°49	17°35	12° 8	0°29	19°36	9°49	27° 8	25°33	3°25	2°54	14°47	n.a.	T 7
F 8	8 57 43	16°19'41	18° 8	27°23	18°49	12°38	0°37	19°43	9°52	27° 7	25°35	3°24	2°51	14°54	n.a.	F 8
S 9	9 1 40	17°19'30	0♎10	28°59	20° 2	13° 7	0°44	19°50	9°55	27° 5	25°36	3°22	2°48	15° 0	n.a.	S 9
S 10	9 5 36	18°19'17	12° 5	0♒35	21°16	13°36	0°52	19°57	9°57	27° 4	25°38	3°19	2°45	15° 7	n.a.	S 10
M11	9 9 33	19°19'02	23°58	2°13	22°30	14° 6	0°59	20° 3	10° 0	27° 3	25°39	3°17	2°42	15°14	n.a.	M11
T 12	9 13 30	20°18'46	5♏51	3°52	23°43	14°36	1° 6	20°10	10° 3	27° 2	25°41	3°16	2°38	15°21	n.a.	T 12
W13	9 17 26	21°18'27	17°49	5°33	24°57	15° 6	1°13	20°16	10° 6	27° 1	25°43	3°D15	2°35	15°27	n.a.	W13
T 14	9 21 23	22°18'07	29°57	7°14	26°11	15°36	1°20	20°23	10° 9	26°59	25°44	3°16	2°32	15°34	n.a.	T 14
F 15	9 25 19	23°17'45	12♐19	8°57	27°24	16° 6	1°26	20°29	10°12	26°58	25°46	3°16	2°29	15°41	n.a.	F 15
S 16	9 29 16	24°17'21	24°59	10°41	28°38	16°36	1°33	20°36	10°15	26°57	25°47	3°18	2°26	15°47	n.a.	S 16
S 17	9 33 12	25°16'55	8♑ 2	12°26	29°52	17° 7	1°39	20°42	10°17	26°55	25°49	3°19	2°23	15°54	n.a.	S 17
M18	9 37 9	26°16'28	21°30	14°12	1♒ 6	17°37	1°45	20°48	10°20	26°54	25°51	3°21	2°19	16° 1	n.a.	M18
T 19	9 41 5	27°15'58	5♒22	16° 0	2°19	18° 8	1°51	20°55	10°23	26°53	25°52	3°R21	2°16	16° 8	n.a.	T 19
W20	9 45 2	28°15'26	19°38	17°49	3°33	18°39	1°57	21° 1	10°25	26°51	25°54	3°20	2°13	16°14	n.a.	W20
T 21	9 48 59	29°14'52	4♓13	19°39	4°47	19°10	2° 3	21° 7	10°28	26°50	25°55	3°18	2°10	16°21	n.a.	T 21
F 22	9 52 55	0♓14'16	19° 1	21°31	6° 0	19°41	2° 8	21°13	10°31	26°49	25°57	3°15	2° 7	16°28	n.a.	F 22
S 23	9 56 52	1°13'38	3♈54	23°23	7°14	20°12	2°14	21°20	10°33	26°47	25°58	3°11	2° 4	16°34	n.a.	S 23
S 24	10 0 48	2°12'57	18°43	25°18	8°28	20°43	2°19	21°26	10°36	26°46	26° 0	3° 7	2° 0	16°41	n.a.	S 24
M25	10 4 45	3°12'14	3♉23	27°13	9°41	21°15	2°24	21°32	10°38	26°44	26° 1	3° 3	1°57	16°48	n.a.	M25
T 26	10 8 41	4°11'28	17°46	29° 9	10°55	21°46	2°29	21°38	10°41	26°43	26° 2	3° 1	1°54	16°55	n.a.	T 26
W27	10 12 38	5°10'40	1♊50	1♓ 7	12° 9	22°18	2°33	21°44	10°43	26°41	26° 4	3°D 0	1°51	17° 1	n.a.	W27
T 28	10 16 34	6♓ 9'50	15♊34	3♓ 6	13♒22	22♉49	2♐38	21♑49	10♑45	26♍40	26♑ 5	3♒ 0	1♒48	17♎ 8	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	18s 8	26n56	3n44	23s59	1s21	23s22	0s 3	16n19	1n39	19s41	0n39	22s52	0s30	23s48	0s25	2n49	1n52	30s46	9s38	19s37	19s40	10s 6		n.a.
S 2	17 51	26 28	2 45	23 53	1 27	23 19	0 6	16 28	1 39	19 43	0 39	22 51	0 31	23 48	0 25	2 50	1 52	30 46	9 38	19 37	19 41	10 9		n.a.
S 3	17 35	24 29	1 39	23 46	1 32	23 15	0 8	16 37	1 39	19 44	0 39	22 50	0 31	23 47	0 26	2 50	1 52	30 45	9 38	19 37	19 41	10 12		n.a.
M 4	17 18	21 13	0 29	23 37	1 37	23 10	0 11	16 46	1 39	19 46	0 39	22 49	0 31	23 47	0 26	2 51	1 52	30 45	9 38	19 37	19 42	10 15		n.a.
T 5	17 1	17 0	0s42	23 27	1 42	23 5	0 14	16 55	1 39	19 48	0 39	22 48	0 31	23 47	0 26	2 51	1 52	30 45	9 38	19 37	19 43	10 18		n.a.
W 6	16 43	12 6	1 49	23 15	1 46	22 59	0 17	17 4	1 39	19 49	0 39	22 48	0 31	23 47	0 26	2 52	1 52	30 45	9 38	19 37	19 44	10 20		n.a.
T 7	16 26	6 48	2 50	23 2	1 50	22 52	0 19	17 14	1 39	19 51	0 39	22 47	0 31	23 47	0 26	2 52	1 52	30 44	9 39	19 37	19 44	10 23		n.a.
F 8	16 8	1 20	3 43	22 47	1 54	22 45	0 22	17 23	1 39	19 53	0 39	22 46	0 31	23 46	0 26	2 53	1 52	30 44	9 39	19 37	19 45	10 26		n.a.
S 9	15 49	4s 6	4 24	22 31	1 57	22 37	0 25	17 32	1 39	19 54	0 39	22 45	0 31	23 46	0 26	2 53	1 53	30 44	9 39	19 38	19 46	10 29		n.a.
S 10	15 31	9 20	4 54	22 13	2 0	22 28	0 27	17 41	1 39	19 56	0 39	22 44	0 31	23 46	0 26	2 54	1 53	30 44	9 39	19 38	19 46	10 32		n.a.
M11	15 12	14 13	5 11	21 53	2 3	22 19	0 30	17 50	1 39	19 57	0 39	22 43	0 31	23 46	0 26	2 54	1 53	30 44	9 39	19 39	19 47	10 35		n.a.
T 12	14 53	18 34	5 15	21 32	2 5	22 9	0 33	17 59	1 39	19 59	0 39	22 42	0 31	23 46	0 26	2 55	1 53	30 44	9 39	19 39	19 48	10 38		n.a.
W13	14 34	22 13	5 5	21 9	2 6	21 58	0 35	18 8	1 39	20 0	0 39	22 41	0 32	23 45	0 26	2 55	1 53	30 43	9 39	19 39	19 49	10 41		n.a.
T 14	14 14	24 58	4 42	20 44	2 8	21 46	0 37	18 17	1 39	20 2	0 39	22 40	0 32	23 45	0 26	2 56	1 53	30 43	9 40	19 39	19 49	10 44		n.a.
F 15	13 55	26 35	4 5	20 17	2 8	21 34	0 40	18 26	1 39	20 3	0 39	22 40	0 32	23 45	0 26	2 56	1 53	30 43	9 40	19 39	19 50	10 46		n.a.
S 16	13 35	26 53	3 16	19 49	2 9	21 22	0 42	18 35	1 39	20 4	0 39	22 39	0 32	23 45	0 26	2 57	1 53	30 43	9 40	19 39	19 51	10 49		n.a.
S 17	13 15	25 43	2 15	19 19	2 9	21 9	0 45	18 43	1 39	20 5	0 39	22 38	0 32	23 45	0 26	2 58	1 53	30 43	9 40	19 38	19 52	10 52		n.a.
M18	12 54	23 3	1 5	18 48	2 8	20 55	0 47	18 52	1 39	20 7	0 39	22 37	0 32	23 44	0 26	2 58	1 53	30 43	9 40	19 38	19 52	10 55		n.a.
T 19	12 34	18 58	0n11	18 14	2 7	20 40	0 49	19 1	1 39	20 8	0 39	22 36	0 32	23 44	0 26	2 59	1 53	30 43	9 41	19 38	19 53	10 58		n.a.
W20	12 13	13 42	1 28	17 39	2 5	20 25	0 51	19 10	1 39	20 9	0 39	22 35	0 32	23 44	0 26	2 59	1 53	30 42	9 41	19 38	19 54	11 1		n.a.
T 21	11 52	7 34	2 41	17 2	2 3	20 9	0 53	19 18	1 39	20 10	0 39	22 34	0 32	23 44	0 26	3 0	1 53	30 42	9 41	19 39	19 55	11 4		n.a.
F 22	11 31	0 57	3 45	16 24	2 1	19 53	0 55	19 27	1 39	20 11	0 39	22 33	0 32	23 44	0 26	3 1	1 53	30 42	9 41	19 39	19 55	11 6		n.a.
S 23	11 10	5n44	4 33	15 43	1 57	19 36	0 57	19 35	1 39	20 12	0 39	22 33	0 33	23 44	0 26	3 1	1 53	30 42	9 41	19 40	19 56	11 9		n.a.
S 24	10 48	12 5	5 3	15 1	1 54	19 19	0 59	19 44	1 39	20 13	0 39	22 32	0 33	23 43	0 26	3 2	1 53	30 42	9 41	19 41	19 57	11 12		n.a.
M25	10 27	17 40	5 13	14 18	1 50	19 1	1 1	19 52	1 39	20 14	0 39	22 31	0 33	23 43	0 26	3 2	1 53	30 42	9 42	19 42	19 57	11 15		n.a.
T 26	10 5	22 9	5 2	13 32	1 45	18 42	1 3	20 1	1 39	20 15	0 39	22 30	0 33	23 43	0 26	3 3	1 53	30 42	9 42	19 43	19 58	11 18		n.a.
W27	9 43	25 14	4 34	12 45	1 39	18 23	1 5	20 9	1 39	20 16	0 39	22 29	0 33	23 43	0 26	3 4	1 53	30 42	9 42	19 43	19 59	11 21		n.a.
T 28	9s21	26n45	3n51	11s56	1s34	18s 4	1s 7	20n17	1n39	20s17	0n39	22s28	0s33	23s43	0s26	3n 4	1n53	30s42	9s42	19s43	20s 0	11s24		n.a.

Julian Day Number = 1652787.5, Delta T = 03h30m04s
Ecliptic obliquity = 23°43'10, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'45, Lahiri = - 6°32'45 Julian Calendar 1 Feb. 188 BCE == Greg. Calendar 29 Jan. 188 BCE

The year -187 astronomical counting style corresponds to year 188 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 188 BCE
geocentric

MARCH 188 BCE (-187) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 20 31	7♓ 8'57	28♊59	5♓ 6	14♒36	23♉21	2♐42	21♑55	10♑48	26°R38	26♑ 7	3♒ 2	1♒44	17♎15	n.a.	F 1
S 2	10 24 28	8° 8'02	12♋ 6	7° 8	15°50	23°53	2°47	22° 1	10°50	26♍37	26° 8	3° 3	1°41	17°22	n.a.	S 2
S 3	10 28 24	9° 7'05	24°58	9°10	17° 3	24°25	2°51	22° 7	10°52	26°35	26° 9	3° 4	1°38	17°28	n.a.	S 3
M 4	10 32 21	10° 6'05	7♌37	11°13	18°17	24°57	2°54	22°12	10°54	26°34	26°11	3°R 5	1°35	17°35	n.a.	M 4
T 5	10 36 17	11° 5'02	20° 4	13°16	19°31	25°29	2°58	22°18	10°56	26°32	26°12	3° 3	1°32	17°42	n.a.	T 5
W 6	10 40 14	12° 3'58	2♍22	15°21	20°44	26° 2	3° 2	22°23	10°59	26°31	26°13	3° 0	1°29	17°48	n.a.	W 6
T 7	10 44 10	13° 2'51	14°32	17°25	21°58	26°34	3° 5	22°29	11° 1	26°29	26°15	2°55	1°25	17°55	n.a.	T 7
F 8	10 48 7	14° 1'42	26°35	19°30	23°12	27° 6	3° 8	22°34	11° 3	26°27	26°16	2°48	1°22	18° 2	n.a.	F 8
S 9	10 52 3	15° 0'31	8♎32	21°35	24°25	27°39	3°11	22°40	11° 5	26°26	26°17	2°40	1°19	18° 9	n.a.	S 9
S 10	10 56 0	15°59'18	20°26	23°39	25°39	28°11	3°14	22°45	11° 7	26°24	26°19	2°32	1°16	18°15	n.a.	S 10
M11	10 59 56	16°58'03	2♏18	25°42	26°53	28°44	3°16	22°50	11° 9	26°23	26°20	2°24	1°13	18°22	n.a.	M11
T 12	11 3 53	17°56'47	14°11	27°45	28° 6	29°17	3°19	22°55	11°10	26°21	26°21	2°17	1°10	18°29	n.a.	T 12
W13	11 7 50	18°55'28	26° 9	29°46	29°20	29°50	3°21	23° 0	11°12	26°19	26°22	2°13	1° 6	18°35	n.a.	W13
T 14	11 11 46	19°54'08	8♐15	1♈45	0♓33	0♊23	3°23	23° 5	11°14	26°18	26°23	2°10	1° 3	18°42	n.a.	T 14
F 15	11 15 43	20°52'46	20°33	3°43	1°47	0°56	3°25	23°10	11°16	26°16	26°24	2°D 9	1° 0	18°49	n.a.	F 15
S 16	11 19 39	21°51'22	3♑ 9	5°38	3° 1	1°29	3°27	23°15	11°18	26°14	26°26	2°10	0°57	18°56	n.a.	S 16
S 17	11 23 36	22°49'56	16° 7	7°30	4°14	2° 2	3°28	23°20	11°19	26°13	26°27	2°11	0°54	19° 2	n.a.	S 17
M18	11 27 32	23°48'29	29°31	9°19	5°28	2°35	3°30	23°25	11°21	26°11	26°28	2°R12	0°50	19° 9	n.a.	M18
T 19	11 31 29	24°47'00	13♒23	11° 5	6°42	3° 8	3°31	23°29	11°22	26°10	26°29	2°11	0°47	19°16	n.a.	T 19
W20	11 35 25	25°45'29	27°42	12°47	7°55	3°41	3°32	23°34	11°24	26° 8	26°30	2° 9	0°44	19°22	n.a.	W20
T 21	11 39 22	26°43'56	12♓27	14°26	9° 9	4°15	3°33	23°38	11°25	26° 6	26°31	2° 4	0°41	19°29	n.a.	T 21
F 22	11 43 19	27°42'21	27°30	16° 0	10°23	4°48	3°33	23°43	11°27	26° 5	26°32	1°57	0°38	19°36	n.a.	F 22
S 23	11 47 15	28°40'45	12♈43	17°30	11°36	5°22	3°33	23°47	11°28	26° 3	26°33	1°49	0°35	19°43	n.a.	S 23
S 24	11 51 12	29°39'06	27°54	18°56	12°50	5°56	3°34	23°52	11°30	26° 1	26°34	1°40	0°31	19°49	n.a.	S 24
M25	11 55 8	0♈37'25	12♉54	20°17	14° 3	6°29	3°R34	23°56	11°31	26° 0	26°35	1°32	0°28	19°56	n.a.	M25
T 26	11 59 5	1°35'43	27°34	21°34	15°17	7° 3	3°33	24° 0	11°32	25°58	26°36	1°26	0°25	20° 3	n.a.	T 26
W27	12 3 1	2°33'58	11♊49	22°46	16°31	7°37	3°33	24° 4	11°33	25°56	26°36	1°22	0°22	20°10	n.a.	W27
T 28	12 6 58	3°32'11	25°38	23°53	17°44	8°11	3°33	24° 8	11°34	25°55	26°37	1°20	0°19	20°16	n.a.	T 28
F 29	12 10 54	4°30'22	9♋ 1	24°55	18°58	8°45	3°32	24°12	11°35	25°53	26°38	1°D20	0°16	20°23	n.a.	F 29
S 30	12 14 51	5°28'30	22° 1	25°52	20°11	9°18	3°31	24°16	11°37	25°52	26°39	1°20	0°12	20°30	n.a.	S 30
S 31	12 18 48	6♈26'37	4♌43	26♈44	21♓25	9♊53	3♐30	24♑19	11♑38	25♍50	26♑40	1°R21	0♒ 9	20♎36	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	8s59	26n38	2n55	11s 6	1s27	17s44	1s 8	20n25	1n39	20s18	0n39	22s28	0s33	23s42	0s26	3n 5	1n53	30s42	9s43	19s43	20s 0	11s26		n.a.
S 2	8 37	25 1	1 52	10 14	1 20	17 23	1 10	20 33	1 39	20 19	0 39	22 27	0 33	23 42	0 26	3 5	1 53	30 41	9 43	19 42	20 1	11 29		n.a.
S 3	8 15	22 7	0 44	9 21	1 13	17 2	1 12	20 41	1 39	20 20	0 39	22 26	0 33	23 42	0 26	3 6	1 53	30 41	9 43	19 42	20 2	11 32		n.a.
M 4	7 52	18 11	0s25	8 26	1 5	16 41	1 13	20 49	1 38	20 20	0 39	22 25	0 34	23 42	0 26	3 7	1 53	30 41	9 43	19 42	20 2	11 35		n.a.
T 5	7 30	13 31	1 31	7 31	0 56	16 19	1 14	20 57	1 38	20 21	0 39	22 24	0 34	23 42	0 26	3 7	1 53	30 41	9 43	19 42	20 3	11 38		n.a.
W 6	7 7	8 23	2 32	6 34	0 47	15 57	1 16	21 5	1 38	20 22	0 40	22 23	0 34	23 42	0 26	3 8	1 53	30 41	9 44	19 43	20 4	11 40		n.a.
T 7	6 44	3 0	3 26	5 36	0 37	15 34	1 17	21 12	1 38	20 22	0 40	22 23	0 34	23 42	0 26	3 9	1 53	30 41	9 44	19 44	20 5	11 43		n.a.
F 8	6 21	2s26	4 9	4 37	0 27	15 11	1 18	21 20	1 38	20 23	0 40	22 22	0 34	23 41	0 26	3 9	1 53	30 41	9 44	19 46	20 5	11 46		n.a.
S 9	5 58	7 43	4 41	3 38	0 17	14 47	1 20	21 27	1 38	20 24	0 40	22 21	0 34	23 41	0 26	3 10	1 53	30 41	9 44	19 48	20 6	11 49		n.a.
S 10	5 35	12 43	5 1	2 39	0 6	14 23	1 21	21 35	1 38	20 24	0 40	22 20	0 34	23 41	0 26	3 11	1 53	30 41	9 45	19 50	20 7	11 52		n.a.
M11	5 12	17 13	5 8	1 39	0n 5	13 59	1 22	21 42	1 38	20 25	0 40	22 20	0 34	23 41	0 26	3 11	1 54	30 41	9 45	19 51	20 7	11 54		n.a.
T 12	4 49	21 4	5 1	0 40	0 16	13 34	1 23	21 49	1 38	20 25	0 40	22 19	0 35	23 41	0 26	3 12	1 54	30 41	9 45	19 53	20 8	11 57		n.a.
W13	4 26	24 4	4 42	0n19	0 27	13 9	1 24	21 56	1 38	20 25	0 40	22 18	0 35	23 41	0 26	3 13	1 54	30 41	9 45	19 54	20 9	12 0		n.a.
T 14	4 3	26 2	4 9	1 18	0 39	12 43	1 25	22 3	1 37	20 26	0 40	22 17	0 35	23 41	0 26	3 13	1 54	30 41	9 46	19 54	20 9	12 3		n.a.
F 15	3 39	26 47	3 25	2 16	0 50	12 17	1 25	22 10	1 37	20 26	0 40	22 17	0 35	23 40	0 26	3 14	1 54	30 41	9 46	19 55	20 10	12 6		n.a.
S 16	3 16	26 11	2 30	3 12	1 2	11 51	1 26	22 17	1 37	20 27	0 40	22 16	0 35	23 40	0 26	3 15	1 54	30 41	9 46	19 55	20 11	12 8		n.a.
S 17	2 53	24 9	1 25	4 8	1 13	11 25	1 27	22 24	1 37	20 27	0 40	22 15	0 35	23 40	0 27	3 15	1 54	30 41	9 46	19 54	20 12	12 11		n.a.
M18	2 29	20 44	0 14	5 1	1 24	10 58	1 27	22 30	1 37	20 27	0 40	22 15	0 35	23 40	0 27	3 16	1 54	30 41	9 47	19 54	20 12	12 14		n.a.
T 19	2 6	16 3	1n 0	5 53	1 35	10 31	1 28	22 37	1 37	20 27	0 40	22 14	0 35	23 40	0 27	3 17	1 54	30 41	9 47	19 54	20 13	12 17		n.a.
W20	1 42	10 20	2 12	6 43	1 45	10 3	1 28	22 43	1 37	20 27	0 40	22 13	0 36	23 40	0 27	3 17	1 54	30 41	9 47	19 55	20 14	12 19		n.a.
T 21	1 19	3 55	3 18	7 31	1 55	9 36	1 29	22 49	1 37	20 28	0 40	22 13	0 36	23 40	0 27	3 18	1 54	30 41	9 47	19 56	20 14	12 22		n.a.
F 22	0 55	2n50	4 12	8 16	2 4	9 8	1 29	22 55	1 36	20 28	0 40	22 12	0 36	23 40	0 27	3 19	1 54	30 41	9 48	19 57	20 15	12 25		n.a.
S 23	0 32	9 29	4 48	8 59	2 13	8 40	1 29	23 1	1 36	20 28	0 40	22 11	0 36	23 40	0 27	3 19	1 54	30 42	9 48	19 59	20 16	12 28		n.a.
S 24	0 8	15 34	5 4	9 40	2 21	8 12	1 29	23 7	1 36	20 28	0 40	22 11	0 36	23 40	0 27	3 20	1 54	30 42	9 48	20 1	20 16	12 30		n.a.
M25	0n15	20 38	4 59	10 18	2 28	7 43	1 30	23 13	1 36	20 28	0 40	22 10	0 36	23 39	0 27	3 21	1 54	30 42	9 49	20 3	20 17	12 33		n.a.
T 26	0 39	24 17	4 34	10 53	2 35	7 14	1 30	23 19	1 36	20 28	0 40	22 9	0 36	23 39	0 27	3 21	1 54	30 42	9 49	20 4	20 18	12 36		n.a.
W27	1 2	26 18	3 52	11 26	2 40	6 45	1 30	23 24	1 36	20 28	0 40	22 9	0 36	23 39	0 27	3 22	1 54	30 42	9 49	20 5	20 19	12 39		n.a.
T 28	1 25	26 37	2 58	11 55	2 45	6 16	1 30	23 30	1 35	20 28	0 40	22 8	0 37	23 39	0 27	3 23	1 54	30 42	9 49	20 6	20 19	12 41		n.a.
F 29	1 49	25 20	1 56	12 22	2 49	5 47	1 29	23 35	1 35	20 28	0 40	22 8	0 37	23 39	0 27	3 23	1 54	30 42	9 50	20 6	20 20	12 44		n.a.
S 30	2 12	22 43	0 50	12 46	2 52	5 18	1 29	23 40	1 35	20 27	0 40	22 7	0 37	23 39	0 27	3 24	1 54	30 42	9 50	20 6	20 21	12 47		n.a.
S 31	2n35	19n 1	0s18	13n 7	2n54	4s48	1s29	23n45	1n35	20s27	0n40	22s 7	0s37	23s39	0s27	3n25	1n54	30s42	9s50	20s 6	20s21	12s50		n.a.

Julian Day Number = 1652815.5, Delta T = 03h30m03s
Ecliptic obliquity = 23°43'10, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'42, Lahiri = - 6°32'41 Julian Calendar 1 March 188 BCE == Greg. Calendar 26 Feb. 188 BCE

The year -187 astronomical counting style corresponds to year 188 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 188 BCE
geocentric

APRIL 188 BCE (-187) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 22 44	7♈24'41	17♌ 9	27♈30	22♓39	10♊27	3°R28	24♉23	11♉38	25°R48	26♉41	1°R19	0♒ 6	20♎43	n.a.	M 1
T 2	12 26 41	8°22'44	29°23	28°12	23°52	11° 1	3♐27	24°27	11°39	25♍47	26°41	1♒16	0° 3	20°50	n.a.	T 2
W 3	12 30 37	9°20'44	11♍29	28°48	25° 6	11°35	3°25	24°30	11°40	25°45	26°42	1°10	29♉59	20°57	n.a.	W 3
T 4	12 34 34	10°18'43	23°29	29°19	26°19	12° 9	3°23	24°34	11°41	25°44	26°43	1° 1	29°56	21° 3	n.a.	T 4
F 5	12 38 30	11°16'40	5♎25	29°45	27°33	12°43	3°21	24°37	11°42	25°42	26°43	0°50	29°53	21°10	n.a.	F 5
S 6	12 42 27	12°14'35	17°19	0♉ 5	28°46	13°18	3°19	24°40	11°42	25°40	26°44	0°37	29°50	21°17	n.a.	S 6
S 7	12 46 23	13°12'28	29°11	0°20	0♈ 0	13°52	3°17	24°43	11°43	25°39	26°45	0°24	29°47	21°23	n.a.	S 7
M 8	12 50 20	14°10'20	11♏ 4	0°30	1°14	14°27	3°14	24°46	11°44	25°37	26°45	0°12	29°44	21°30	n.a.	M 8
T 9	12 54 16	15° 8'11	23° 0	0°R35	2°27	15° 1	3°11	24°49	11°44	25°36	26°46	0° 1	29°41	21°37	n.a.	T 9
W10	12 58 13	16° 6'00	5♐ 0	0°34	3°41	15°36	3° 8	24°52	11°45	25°34	26°46	29♉52	29°37	21°44	n.a.	W10
T 11	13 2 10	17° 3'48	17° 7	0°29	4°54	16°10	3° 5	24°55	11°45	25°33	26°47	29°46	29°34	21°50	n.a.	T 11
F 12	13 6 6	18° 1'34	29°26	0°19	6° 8	16°45	3° 2	24°58	11°46	25°31	26°47	29°43	29°31	21°57	n.a.	F 12
S 13	13 10 3	18°59'19	12♉ 0	0° 5	7°21	17°19	2°59	25° 0	11°46	25°30	26°48	29°42	29°28	22° 4	n.a.	S 13
S 14	13 13 59	19°57'03	24°53	29♈46	8°35	17°54	2°55	25° 3	11°46	25°28	26°48	29°42	29°25	22°11	n.a.	S 14
M15	13 17 56	20°54'46	8♒11	29°24	9°49	18°29	2°51	25° 5	11°47	25°27	26°49	29°41	29°21	22°17	n.a.	M15
T 16	13 21 52	21°52'27	21°55	28°58	11° 2	19° 4	2°47	25° 8	11°47	25°26	26°49	29°40	29°18	22°24	n.a.	T 16
W17	13 25 49	22°50'08	6♓ 8	28°30	12°16	19°39	2°43	25°10	11°47	25°24	26°50	29°37	29°15	22°31	n.a.	W17
T 18	13 29 45	23°47'47	20°48	27°59	13°29	20°14	2°39	25°12	11°47	25°23	26°50	29°31	29°12	22°37	n.a.	T 18
F 19	13 33 42	24°45'25	5♈51	27°26	14°43	20°49	2°34	25°14	11°47	25°21	26°50	29°22	29° 9	22°44	n.a.	F 19
S 20	13 37 39	25°43'02	21° 7	26°52	15°56	21°24	2°30	25°16	11°R47	25°20	26°50	29°12	29° 6	22°51	n.a.	S 20
S 21	13 41 35	26°40'37	6♉26	26°18	17°10	21°59	2°25	25°18	11°47	25°19	26°51	29° 1	29° 2	22°58	n.a.	S 21
M22	13 45 32	27°38'11	21°37	25°43	18°24	22°34	2°20	25°20	11°47	25°17	26°51	28°51	28°59	23° 4	n.a.	M22
T 23	13 49 28	28°35'44	6♊29	25° 9	19°37	23° 9	2°15	25°21	11°47	25°16	26°51	28°42	28°56	23°11	n.a.	T 23
W24	13 53 25	29°33'15	20°55	24°36	20°51	23°44	2°10	25°23	11°47	25°15	26°51	28°36	28°53	23°18	n.a.	W24
T 25	13 57 21	0♉30'45	4♋52	24° 5	22° 4	24°19	2° 4	25°25	11°47	25°13	26°52	28°33	28°50	23°24	n.a.	T 25
F 26	14 1 18	1°28'14	18°21	23°36	23°18	24°55	1°59	25°26	11°46	25°12	26°52	28°32	28°47	23°31	n.a.	F 26
S 27	14 5 14	2°25'41	1♌23	23°10	24°31	25°30	1°53	25°27	11°46	25°11	26°52	28°32	28°43	23°38	n.a.	S 27
S 28	14 9 11	3°23'07	14° 3	22°46	25°45	26° 5	1°47	25°28	11°46	25°10	26°52	28°31	28°40	23°45	n.a.	S 28
M29	14 13 8	4°20'31	26°25	22°26	26°59	26°41	1°41	25°30	11°45	25° 9	26°52	28°30	28°37	23°51	n.a.	M29
T 30	14 17 4	5♉17'54	8♍34	22♈10	28♈12	27♊16	1♐35	25♉31	11♉45	25♍ 7	26♉52	28♉26	28♉34	23♎58	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	2n58	14n34	1s23	13n25	2n55	4s18	1s29	23n50	1n35	20s27	0n40	22s 6	0s37	23s39	0s27	3n25	1n54	30s42	9s51	20s 6	20s22	12s52		n.a.
T 2	3 22	9 35	2 23	13 40	2 55	3 48	1 28	23 55	1 35	20 27	0 39	22 6	0 37	23 39	0 27	3 26	1 54	30 43	9 51	20 7	20 23	12 55		n.a.
W 3	3 45	4 19	3 16	13 53	2 54	3 19	1 28	24 0	1 34	20 26	0 39	22 5	0 37	23 39	0 27	3 26	1 54	30 43	9 51	20 8	20 23	12 58		n.a.
T 4	4 8	1s 3	4 0	14 2	2 51	2 49	1 27	24 4	1 34	20 26	0 39	22 5	0 38	23 39	0 27	3 27	1 54	30 43	9 51	20 10	20 24	13 0		n.a.
F 5	4 31	6 20	4 32	14 8	2 48	2 18	1 27	24 9	1 34	20 26	0 39	22 4	0 38	23 39	0 27	3 28	1 54	30 43	9 52	20 12	20 25	13 3		n.a.
S 6	4 54	11 22	4 53	14 11	2 43	1 48	1 26	24 13	1 34	20 25	0 39	22 4	0 38	23 39	0 27	3 28	1 54	30 43	9 52	20 15	20 25	13 6		n.a.
S 7	5 16	15 59	5 1	14 11	2 38	1 18	1 25	24 17	1 34	20 25	0 39	22 3	0 38	23 39	0 27	3 29	1 54	30 43	9 52	20 18	20 26	13 9		n.a.
M 8	5 39	20 0	4 55	14 8	2 31	0 48	1 24	24 21	1 34	20 24	0 39	22 3	0 38	23 39	0 27	3 30	1 54	30 44	9 53	20 21	20 27	13 11		n.a.
T 9	6 2	23 12	4 37	14 2	2 22	0 17	1 24	24 25	1 33	20 24	0 39	22 2	0 38	23 39	0 27	3 30	1 54	30 44	9 53	20 23	20 27	13 14		n.a.
W10	6 24	25 25	4 7	13 53	2 13	0n13	1 23	24 28	1 33	20 23	0 39	22 2	0 38	23 39	0 27	3 31	1 53	30 44	9 53	20 25	20 28	13 17		n.a.
T 11	6 47	26 29	3 25	13 41	2 3	0 43	1 22	24 32	1 33	20 23	0 39	22 2	0 39	23 39	0 27	3 31	1 53	30 44	9 54	20 26	20 29	13 19		n.a.
F 12	7 9	26 16	2 33	13 27	1 51	1 14	1 21	24 35	1 33	20 22	0 39	22 1	0 39	23 39	0 27	3 32	1 53	30 44	9 54	20 27	20 29	13 22		n.a.
S 13	7 31	24 42	1 32	13 10	1 39	1 44	1 20	24 39	1 33	20 21	0 39	22 1	0 39	23 39	0 27	3 32	1 53	30 44	9 54	20 27	20 30	13 25		n.a.
S 14	7 53	21 49	0 25	12 51	1 25	2 15	1 18	24 42	1 32	20 21	0 39	22 1	0 39	23 39	0 27	3 33	1 53	30 45	9 55	20 27	20 31	13 27		n.a.
M15	8 15	17 43	0n45	12 29	1 10	2 45	1 17	24 45	1 32	20 20	0 39	22 0	0 39	23 39	0 27	3 34	1 53	30 45	9 55	20 27	20 31	13 30		n.a.
T 16	8 37	12 34	1 55	12 6	0 55	3 15	1 16	24 47	1 32	20 19	0 39	22 0	0 39	23 39	0 27	3 34	1 53	30 45	9 55	20 27	20 32	13 33		n.a.
W17	8 59	6 35	3 0	11 40	0 39	3 45	1 15	24 50	1 32	20 19	0 39	22 0	0 39	23 39	0 27	3 35	1 53	30 45	9 55	20 28	20 33	13 35		n.a.
T 18	9 20	0 5	3 55	11 14	0 23	4 16	1 13	24 53	1 32	20 18	0 39	22 0	0 40	23 39	0 27	3 35	1 53	30 46	9 56	20 30	20 33	13 38		n.a.
F 19	9 42	6n33	4 36	10 46	0 6	4 46	1 12	24 55	1 31	20 17	0 39	21 59	0 40	23 39	0 27	3 36	1 53	30 46	9 56	20 31	20 34	13 41		n.a.
S 20	10 3	12 55	4 57	10 18	0s11	5 16	1 11	24 57	1 31	20 16	0 39	21 59	0 40	23 39	0 28	3 36	1 53	30 46	9 56	20 33	20 35	13 43		n.a.
S 21	10 24	18 30	4 58	9 49	0 29	5 45	1 9	24 59	1 31	20 15	0 39	21 59	0 40	23 39	0 28	3 37	1 53	30 46	9 57	20 36	20 35	13 46		n.a.
M22	10 45	22 50	4 37	9 21	0 46	6 15	1 7	25 1	1 31	20 14	0 39	21 59	0 40	23 39	0 28	3 37	1 53	30 47	9 57	20 38	20 36	13 49		n.a.
T 23	11 6	25 33	3 58	8 52	1 3	6 45	1 6	25 3	1 30	20 13	0 39	21 59	0 40	23 39	0 28	3 38	1 53	30 47	9 57	20 40	20 37	13 51		n.a.
W24	11 27	26 28	3 5	8 25	1 19	7 14	1 4	25 4	1 30	20 12	0 39	21 58	0 40	23 39	0 28	3 38	1 53	30 47	9 58	20 41	20 37	13 54		n.a.
T 25	11 47	25 39	2 1	7 58	1 35	7 44	1 3	25 6	1 30	20 11	0 39	21 58	0 41	23 39	0 28	3 39	1 53	30 47	9 58	20 41	20 38	13 56		n.a.
F 26	12 7	23 20	0 54	7 33	1 51	8 13	1 1	25 7	1 30	20 10	0 39	21 58	0 41	23 39	0 28	3 39	1 53	30 48	9 58	20 42	20 39	13 59		n.a.
S 27	12 27	19 50	0s15	7 10	2 5	8 42	0 59	25 8	1 30	20 9	0 39	21 58	0 41	23 39	0 28	3 40	1 53	30 48	9 59	20 42	20 39	14 2		n.a.
S 28	12 47	15 31	1 21	6 49	2 19	9 11	0 57	25 9	1 29	20 8	0 38	21 58	0 41	23 39	0 28	3 40	1 53	30 48	9 59	20 42	20 40	14 4		n.a.
M29	13 7	10 38	2 22	6 29	2 32	9 39	0 55	25 10	1 29	20 7	0 38	21 58	0 41	23 39	0 28	3 41	1 53	30 49	9 59	20 42	20 41	14 7		n.a.
T 30	13n26	5n27	3s15	6n12	2s44	10n 8	0s54	25n10	1n29	20s 6	0n38	21s58	0s41	23s39	0s28	3n41	1n53	30s49	10s 0	20s43	20s41	14s 9		n.a.

Julian Day Number = 1652846.5, Delta T = 03h30m02s
Ecliptic obliquity = 23°43'10, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'37, Lahiri = - 6°32'37 Julian Calendar 1 Apr. 188 BCE == Greg. Calendar 29 March 188 BCE

The year -187 astronomical counting style corresponds to year 188 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 188 BCE
geocentric

MAY 188 BCE (-187) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 21 1	6♉15'15	20♍34	21°R58	29♈26	27♊51	1°R29	25♑31	11°R44	25°R 6	26°R52	28°R20	28♑31	24♎ 5	n.a.	W 1
T 2	14 24 57	7°12'35	2♎28	21♈50	0♉39	28°27	1♐23	25°32	11♑44	25♍ 5	26♑52	28♑11	28°27	24°12	n.a.	T 2
F 3	14 28 54	8° 9'55	14°21	21°D47	1°53	29° 2	1°17	25°33	11°43	25° 4	26°52	28° 0	28°24	24°18	n.a.	F 3
S 4	14 32 50	9° 7'13	26°13	21°48	3° 6	29°38	1°10	25°34	11°42	25° 3	26°52	27°47	28°21	24°25	n.a.	S 4
S 5	14 36 47	10° 4'30	8♏ 7	21°53	4°20	0♋14	1° 4	25°34	11°42	25° 2	26°52	27°34	28°18	24°32	n.a.	S 5
M 6	14 40 43	11° 1'46	20° 4	22° 3	5°33	0°49	0°57	25°34	11°41	25° 1	26°52	27°21	28°15	24°38	n.a.	M 6
T 7	14 44 40	11°59'02	2♐ 5	22°17	6°47	1°25	0°50	25°35	11°40	25° 0	26°52	27° 9	28°12	24°45	n.a.	T 7
W 8	14 48 37	12°56'17	14°12	22°36	8° 1	2° 1	0°43	25°35	11°39	24°59	26°51	27° 0	28° 8	24°52	n.a.	W 8
T 9	14 52 33	13°53'31	26°27	22°59	9°14	2°36	0°36	25°35	11°38	24°58	26°51	26°54	28° 5	24°59	n.a.	T 9
F 10	14 56 30	14°50'45	8♑52	23°27	10°28	3°12	0°29	25°R35	11°37	24°57	26°51	26°51	28° 2	25° 5	n.a.	F 10
S 11	15 0 26	15°47'58	21°31	23°58	11°41	3°48	0°22	25°35	11°36	24°56	26°51	26°D49	27°59	25°12	n.a.	S 11
S 12	15 4 23	16°45'11	4♒26	24°35	12°55	4°24	0°15	25°35	11°35	24°55	26°51	26°49	27°56	25°19	n.a.	S 12
M13	15 8 19	17°42'24	17°41	25°15	14° 9	5° 0	0° 8	25°35	11°34	24°54	26°50	26°R50	27°53	25°26	n.a.	M13
T 14	15 12 16	18°39'36	1♓19	25°59	15°22	5°36	0° 0	25°34	11°33	24°53	26°50	26°49	27°49	25°32	n.a.	T 14
W15	15 16 12	19°36'47	15°22	26°47	16°36	6°12	29♏53	25°34	11°32	24°53	26°50	26°47	27°46	25°39	n.a.	W15
T 16	15 20 9	20°33'59	29°50	27°40	17°49	6°48	29°45	25°33	11°31	24°52	26°49	26°42	27°43	25°46	n.a.	T 16
F 17	15 24 6	21°31'10	14♈40	28°36	19° 3	7°24	29°38	25°33	11°30	24°51	26°49	26°35	27°40	25°52	n.a.	F 17
S 18	15 28 2	22°28'21	29°44	29°35	20°17	8° 0	29°30	25°32	11°28	24°50	26°49	26°26	27°37	25°59	n.a.	S 18
S 19	15 31 59	23°25'31	14♉54	0♉39	21°30	8°36	29°23	25°31	11°27	24°50	26°48	26°17	27°33	26° 6	n.a.	S 19
M20	15 35 55	24°22'41	0♊ 0	1°46	22°44	9°12	29°15	25°30	11°26	24°49	26°48	26° 9	27°30	26°13	n.a.	M20
T 21	15 39 52	25°19'51	14°51	2°56	23°58	9°48	29° 8	25°29	11°24	24°49	26°47	26° 1	27°27	26°19	n.a.	T 21
W22	15 43 48	26°17'01	29°21	4°10	25°11	10°25	29° 0	25°28	11°23	24°48	26°47	25°56	27°24	26°26	n.a.	W22
T 23	15 47 45	27°14'10	13♋23	5°28	26°25	11° 1	28°52	25°27	11°21	24°47	26°46	25°54	27°21	26°33	n.a.	T 23
F 24	15 51 42	28°11'18	26°57	6°49	27°39	11°37	28°45	25°25	11°20	24°47	26°46	25°D53	27°18	26°39	n.a.	F 24
S 25	15 55 38	29° 8'26	10♌ 4	8°13	28°52	12°14	28°37	25°24	11°18	24°46	26°45	25°54	27°14	26°46	n.a.	S 25
S 26	15 59 35	0♊ 5'33	22°47	9°41	0♊ 6	12°50	28°29	25°22	11°17	24°46	26°44	25°54	27°11	26°53	n.a.	S 26
M27	16 3 31	1° 2'40	5♍10	11°12	1°20	13°26	28°22	25°21	11°15	24°45	26°44	25°R55	27° 8	27° 0	n.a.	M27
T 28	16 7 28	1°59'46	17°19	12°46	2°33	14° 3	28°14	25°19	11°13	24°45	26°43	25°53	27° 5	27° 6	n.a.	T 28
W29	16 11 24	2°56'52	29°19	14°24	3°47	14°39	28° 6	25°17	11°12	24°45	26°43	25°50	27° 2	27°13	n.a.	W29
T 30	16 15 21	3°53'58	11♎12	16° 5	5° 1	15°16	27°59	25°15	11°10	24°44	26°42	25°44	26°58	27°20	n.a.	T 30
F 31	16 19 17	4♊51'03	23♎ 4	17♉48	6♊15	15♋52	27♏51	25♑13	11♑ 8	24♍44	26♑41	25♑37	26♑55	27♎27	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
W 1	13n46	0n 8	3s58	5n58	2s54	10n36	0s52	25n11	1n29	20s 5	0n38	21s58	0s42	23s39	0s28	3n41	1n53	30s49	10s 0	20s44	20s42	14s12			n.a.
T 2	14 5	5s 8	4 31	5 46	3 4	11 4	0 50	25 11	1 28	20 3	0 38	21 58	0 42	23 39	0 28	3 42	1 53	30 49	10 0	20 46	20 43	14 15			n.a.
F 3	14 24	10 11	4 52	5 37	3 12	11 31	0 48	25 11	1 28	20 2	0 38	21 58	0 42	23 40	0 28	3 42	1 53	30 50	10 0	20 48	20 43	14 17			n.a.
S 4	14 42	14 53	5 0	5 30	3 20	11 59	0 46	25 11	1 28	20 1	0 38	21 58	0 42	23 40	0 28	3 43	1 53	30 50	10 1	20 51	20 44	14 20			n.a.
S 5	15 1	19 1	4 55	5 26	3 26	12 26	0 44	25 11	1 28	20 0	0 38	21 58	0 42	23 40	0 28	3 43	1 53	30 50	10 1	20 54	20 45	14 22			n.a.
M 6	15 19	22 24	4 37	5 25	3 31	12 53	0 41	25 10	1 27	19 58	0 38	21 58	0 42	23 40	0 28	3 43	1 53	30 51	10 1	20 56	20 45	14 25			n.a.
T 7	15 37	24 51	4 7	5 27	3 35	13 19	0 39	25 10	1 27	19 57	0 38	21 58	0 42	23 40	0 28	3 44	1 53	30 51	10 2	20 58	20 46	14 28			n.a.
W 8	15 54	26 10	3 25	5 31	3 39	13 45	0 37	25 9	1 27	19 56	0 38	21 58	0 43	23 40	0 28	3 44	1 53	30 51	10 2	21 0	20 47	14 30			n.a.
T 9	16 12	26 14	2 34	5 38	3 41	14 11	0 35	25 8	1 27	19 54	0 38	21 58	0 43	23 40	0 28	3 45	1 53	30 52	10 2	21 1	20 47	14 33			n.a.
F 10	16 29	24 59	1 34	5 47	3 42	14 37	0 33	25 7	1 26	19 53	0 37	21 59	0 43	23 40	0 28	3 45	1 53	30 52	10 3	21 2	20 48	14 35			n.a.
S 11	16 46	22 26	0 28	5 59	3 42	15 2	0 31	25 6	1 26	19 51	0 37	21 59	0 43	23 40	0 28	3 45	1 52	30 52	10 3	21 2	20 48	14 38			n.a.
S 12	17 2	18 44	0n40	6 13	3 41	15 27	0 28	25 5	1 26	19 50	0 37	21 59	0 43	23 40	0 28	3 45	1 52	30 53	10 3	21 2	20 49	14 40			n.a.
M13	17 19	14 0	1 48	6 29	3 39	15 51	0 26	25 3	1 26	19 49	0 37	21 59	0 43	23 41	0 28	3 46	1 52	30 53	10 4	21 2	20 50	14 43			n.a.
T 14	17 35	8 27	2 52	6 48	3 37	16 15	0 24	25 1	1 25	19 47	0 37	21 59	0 44	23 41	0 28	3 46	1 52	30 53	10 4	21 2	20 50	14 46			n.a.
W15	17 51	2 20	3 48	7 8	3 33	16 39	0 22	24 59	1 25	19 46	0 37	22 0	0 44	23 41	0 28	3 46	1 52	30 54	10 4	21 3	20 51	14 48			n.a.
T 16	18 6	4n 4	4 31	7 31	3 29	17 2	0 19	24 57	1 25	19 44	0 37	22 0	0 44	23 41	0 28	3 47	1 52	30 54	10 4	21 4	20 52	14 51			n.a.
F 17	18 21	10 23	4 57	7 56	3 24	17 25	0 17	24 55	1 25	19 43	0 37	22 0	0 44	23 41	0 28	3 47	1 52	30 55	10 5	21 5	20 52	14 53			n.a.
S 18	18 36	16 13	5 3	8 22	3 18	17 47	0 15	24 53	1 24	19 41	0 37	22 0	0 44	23 41	0 28	3 47	1 52	30 55	10 5	21 7	20 53	14 56			n.a.
S 19	18 51	21 4	4 47	8 50	3 12	18 9	0 12	24 50	1 24	19 40	0 36	22 1	0 44	23 41	0 28	3 47	1 52	30 55	10 5	21 8	20 54	14 58			n.a.
M20	19 5	24 30	4 12	9 20	3 5	18 31	0 10	24 47	1 24	19 38	0 36	22 1	0 44	23 42	0 28	3 48	1 52	30 56	10 6	21 10	20 54	15 1			n.a.
T 21	19 19	26 10	3 21	9 51	2 57	18 52	0 8	24 44	1 24	19 37	0 36	22 1	0 45	23 42	0 28	3 48	1 52	30 56	10 6	21 11	20 55	15 3			n.a.
W22	19 33	26 0	2 17	10 24	2 49	19 12	0 5	24 41	1 23	19 35	0 36	22 2	0 45	23 42	0 28	3 48	1 52	30 56	10 6	21 12	20 55	15 6			n.a.
T 23	19 46	24 8	1 6	10 58	2 41	19 32	0 3	24 38	1 23	19 33	0 36	22 2	0 45	23 42	0 28	3 48	1 52	30 57	10 7	21 13	20 56	15 8			n.a.
F 24	19 59	20 55	0s 6	11 34	2 31	19 51	0 0	24 35	1 23	19 32	0 36	22 2	0 45	23 42	0 28	3 48	1 52	30 57	10 7	21 13	20 57	15 11			n.a.
S 25	20 12	16 43	1 15	12 11	2 22	20 10	0n 2	24 31	1 22	19 30	0 36	22 3	0 45	23 42	0 29	3 48	1 52	30 58	10 7	21 13	20 57	15 13			n.a.
S 26	20 24	11 54	2 19	12 48	2 12	20 29	0 4	24 27	1 22	19 29	0 35	22 3	0 45	23 42	0 29	3 49	1 52	30 58	10 7	21 13	20 58	15 16			n.a.
M27	20 36	6 43	3 14	13 27	2 1	20 47	0 7	24 23	1 22	19 27	0 35	22 4	0 46	23 43	0 29	3 49	1 52	30 58	10 8	21 13	20 59	15 18			n.a.
T 28	20 48	1 23	4 0	14 6	1 50	21 4	0 9	24 19	1 22	19 26	0 35	22 4	0 46	23 43	0 29	3 49	1 52	30 59	10 8	21 13	20 59	15 21			n.a.
W29	21 0	3s54	4 34	14 46	1 39	21 20	0 11	24 15	1 21	19 24	0 35	22 5	0 46	23 43	0 29	3 49	1 52	30 59	10 8	21 14	21 0	15 23			n.a.
T 30	21 11	9 1	4 56	15 26	1 28	21 36	0 14	24 11	1 21	19 23	0 35	22 5	0 46	23 43	0 29	3 49	1 52	31 0	10 8	21 15	21 0	15 26			n.a.
F 31	21n21	13s47	5s 6	16n 7	1s16	21n52	0n16	24n 6	1n21	19s21	0n35	22s 6	0s46	23s43	0s29	3n49	1n51	31s 0	10s 9	21s16	21s 1	15s28			n.a.

Julian Day Number = 1652876.5, Delta T = 03h30m01s
Ecliptic obliquity = 23°43'09, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'33, Lahiri = - 6°32'33 Julian Calendar 1 May 188 BCE == Greg. Calendar 28 Apr. 188 BCE

The year -187 astronomical counting style corresponds to year 188 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 188 BCE
geocentric

JUNE 188 BCE (-187) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 23 14	5♊48'08	4♏58	19♉35	7♊28	16♋29	27°R44	25°R11	11°R 7	24°R44	26°R41	25°R29	26♐52	27♎33	n.a.	S 1
S 2	16 27 11	6°45'13	16°55	21°25	8°42	17° 6	27♏36	25♐ 9	11♐ 5	24♍43	26♐40	25♐20	26°49	27°40	n.a.	S 2
M 3	16 31 7	7°42'18	28°58	23°17	9°56	17°42	27°29	25° 7	11° 3	24°43	26°39	25°11	26°46	27°47	n.a.	M 3
T 4	16 35 4	8°39'23	11♐ 9	25°13	11° 9	18°19	27°21	25° 5	11° 1	24°43	26°38	25° 3	26°43	27°53	n.a.	T 4
W 5	16 39 0	9°36'29	23°27	27°10	12°23	18°56	27°14	25° 2	10°59	24°43	26°37	24°57	26°39	28° 0	n.a.	W 5
T 6	16 42 57	10°33'34	5♐56	29°10	13°37	19°32	27° 7	25° 0	10°57	24°43	26°37	24°54	26°36	28° 7	n.a.	T 6
F 7	16 46 53	11°30'40	18°35	1♊13	14°51	20° 9	26°59	24°57	10°55	24°43	26°36	24°52	26°33	28°14	n.a.	F 7
S 8	16 50 50	12°27'46	1♒27	3°17	16° 4	20°46	26°52	24°55	10°53	24°43	26°35	24°D52	26°30	28°20	n.a.	S 8
S 9	16 54 46	13°24'53	14°32	5°22	17°18	21°23	26°45	24°52	10°51	24°42	26°34	24°53	26°27	28°27	n.a.	S 9
M10	16 58 43	14°22'00	27°54	7°29	18°32	22° 0	26°38	24°49	10°49	24°D42	26°33	24°54	26°24	28°34	n.a.	M10
T 11	17 2 40	15°19'07	11♓33	9°37	19°46	22°37	26°31	24°46	10°47	24°42	26°32	24°R55	26°20	28°41	n.a.	T 11
W12	17 6 36	16°16'16	25°31	11°45	21° 0	23°14	26°24	24°43	10°45	24°43	26°31	24°55	26°17	28°47	n.a.	W12
T 13	17 10 33	17°13'25	9♈47	13°54	22°13	23°51	26°18	24°40	10°43	24°43	26°30	24°53	26°14	28°54	n.a.	T 13
F 14	17 14 29	18°10'34	24°19	16° 3	23°27	24°28	26°11	24°37	10°41	24°43	26°29	24°50	26°11	29° 1	n.a.	F 14
S 15	17 18 26	19° 7'45	9♉ 2	18°12	24°41	25° 5	26° 4	24°34	10°39	24°43	26°28	24°45	26° 8	29° 7	n.a.	S 15
S 16	17 22 22	20° 4'56	23°51	20°20	25°55	25°42	25°58	24°31	10°36	24°43	26°27	24°40	26° 4	29°14	n.a.	S 16
M17	17 26 19	21° 2'08	8♊37	22°28	27° 9	26°19	25°52	24°27	10°34	24°43	26°26	24°36	26° 1	29°21	n.a.	M17
T 18	17 30 16	21°59'20	23°14	24°35	28°23	26°56	25°45	24°24	10°32	24°44	26°25	24°32	25°58	29°28	n.a.	T 18
W19	17 34 12	22°56'33	7♋33	26°41	29°36	27°33	25°39	24°21	10°30	24°44	26°24	24°29	25°55	29°34	n.a.	W19
T 20	17 38 9	23°53'47	21°30	28°46	0♋50	28°11	25°33	24°17	10°27	24°44	26°23	24°D28	25°52	29°41	n.a.	T 20
F 21	17 42 5	24°51'01	5♌ 4	0♋49	2° 4	28°48	25°27	24°13	10°25	24°45	26°22	24°29	25°49	29°48	n.a.	F 21
S 22	17 46 2	25°48'15	18°12	2°51	3°18	29°25	25°22	24°10	10°23	24°45	26°21	24°30	25°45	29°55	n.a.	S 22
S 23	17 49 58	26°45'30	0♍58	4°51	4°32	0♌ 3	25°16	24° 6	10°21	24°45	26°20	24°31	25°42	0♏ 1	n.a.	S 23
M24	17 53 55	27°42'45	13°25	6°50	5°46	0°40	25°11	24° 2	10°18	24°46	26°19	24°33	25°39	0° 8	n.a.	M24
T 25	17 57 51	28°40'01	25°37	8°48	7° 0	1°18	25° 5	23°59	10°16	24°46	26°18	24°R34	25°36	0°15	n.a.	T 25
W26	18 1 48	29°37'18	7♎37	10°44	8°14	1°55	25° 0	23°55	10°14	24°47	26°17	24°33	25°33	0°21	n.a.	W26
T 27	18 5 45	0♋34'35	19°32	12°38	9°28	2°33	24°55	23°51	10°11	24°47	26°16	24°32	25°30	0°28	n.a.	T 27
F 28	18 9 41	1°31'52	1♏25	14°30	10°42	3°10	24°50	23°47	10° 9	24°48	26°14	24°30	25°26	0°35	n.a.	F 28
S 29	18 13 38	2°29'10	13°20	16°21	11°55	3°48	24°46	23°43	10° 6	24°48	26°13	24°27	25°23	0°42	n.a.	S 29
S 30	18 17 34	3♋26'30	25♏21	18♋10	13♋ 9	4♌25	24♏41	23♐39	10♐ 4	24♍49	26♐12	24♐23	25♐20	0♏48	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	21n31	18s 3	5s 2	16n48	1s 5	22n 7	0n18	24n 1	1n20	19s19	0n35	22s 6	0s46	23s43	0s29	3n49	1n51	31s 0	10s 9	21s18	21s 2	15s31		n.a.	
S 2	21 41	21 38	4 45	17 29	0 53	22 21	0 21	23 56	1 20	19 18	0 34	22 7	0 46	23 44	0 29	3 49	1 51	31 1	10 9	21 19	21 2	15 33		n.a.	
M 3	21 51	24 18	4 15	18 9	0 41	22 35	0 23	23 51	1 20	19 16	0 34	22 7	0 47	23 44	0 29	3 49	1 51	31 1	10 10	21 21	21 3	15 36		n.a.	
T 4	22 0	25 54	3 33	18 49	0 29	22 48	0 25	23 46	1 20	19 15	0 34	22 8	0 47	23 44	0 29	3 49	1 51	31 2	10 10	21 22	21 4	15 38		n.a.	
W 5	22 9	26 14	2 41	19 28	0 18	23 0	0 28	23 40	1 19	19 13	0 34	22 9	0 47	23 44	0 29	3 49	1 51	31 2	10 10	21 23	21 4	15 41		n.a.	
T 6	22 17	25 16	1 41	20 6	0 6	23 12	0 30	23 35	1 19	19 12	0 34	22 9	0 47	23 44	0 29	3 49	1 51	31 3	10 10	21 24	21 5	15 43		n.a.	
F 7	22 26	22 58	0 34	20 44	0n 5	23 23	0 32	23 29	1 19	19 10	0 34	22 10	0 47	23 45	0 29	3 49	1 51	31 3	10 11	21 24	21 5	15 45		n.a.	
S 8	22 33	19 30	0n36	21 19	0 16	23 33	0 34	23 23	1 18	19 9	0 33	22 10	0 47	23 45	0 29	3 49	1 51	31 3	10 11	21 24	21 6	15 48		n.a.	
S 9	22 41	15 0	1 45	21 53	0 27	23 42	0 36	23 17	1 18	19 7	0 33	22 11	0 47	23 45	0 29	3 49	1 51	31 4	10 11	21 24	21 7	15 50		n.a.	
M10	22 47	9 42	2 49	22 25	0 37	23 51	0 39	23 11	1 18	19 6	0 33	22 12	0 48	23 45	0 29	3 49	1 51	31 4	10 11	21 24	21 7	15 53		n.a.	
T 11	22 54	3 50	3 46	22 55	0 46	24 0	0 41	23 4	1 17	19 4	0 33	22 12	0 48	23 45	0 29	3 49	1 51	31 5	10 11	21 24	21 8	15 55		n.a.	
W12	23 0	2n20	4 31	23 22	0 55	24 7	0 43	22 58	1 17	19 3	0 33	22 13	0 48	23 45	0 29	3 49	1 51	31 5	10 12	21 24	21 8	15 58		n.a.	
T 13	23 6	8 30	5 0	23 48	1 4	24 14	0 45	22 51	1 17	19 1	0 32	22 14	0 48	23 46	0 29	3 49	1 51	31 5	10 12	21 24	21 9	16 0		n.a.	
F 14	23 11	14 20	5 11	24 10	1 12	24 20	0 47	22 44	1 17	19 0	0 32	22 14	0 48	23 46	0 29	3 49	1 51	31 6	10 12	21 25	21 10	16 2		n.a.	
S 15	23 16	19 25	5 1	24 30	1 19	24 25	0 49	22 37	1 16	18 59	0 32	22 15	0 48	23 46	0 29	3 49	1 51	31 6	10 12	21 25	21 10	16 5		n.a.	
S 16	23 21	23 20	4 32	24 47	1 25	24 30	0 51	22 30	1 16	18 57	0 32	22 16	0 48	23 46	0 29	3 49	1 51	31 7	10 13	21 26	21 11	16 7		n.a.	
M17	23 25	25 41	3 44	25 1	1 31	24 34	0 53	22 22	1 16	18 56	0 32	22 17	0 49	23 46	0 29	3 48	1 51	31 7	10 13	21 27	21 11	16 10		n.a.	
T 18	23 28	26 15	2 42	25 12	1 36	24 37	0 55	22 15	1 15	18 55	0 31	22 17	0 49	23 47	0 29	3 48	1 50	31 8	10 13	21 28	21 12	16 12		n.a.	
W19	23 32	25 1	1 31	25 21	1 40	24 40	0 56	22 7	1 15	18 53	0 31	22 18	0 49	23 47	0 29	3 48	1 50	31 8	10 13	21 28	21 13	16 14		n.a.	
T 20	23 35	22 15	0 16	25 26	1 44	24 41	0 58	21 59	1 15	18 52	0 31	22 19	0 49	23 47	0 29	3 48	1 50	31 8	10 13	21 29	21 13	16 17		n.a.	
F 21	23 37	18 18	0s58	25 29	1 46	24 42	1 0	21 51	1 14	18 51	0 31	22 20	0 49	23 47	0 29	3 48	1 50	31 9	10 14	21 29	21 14	16 19		n.a.	
S 22	23 39	13 33	2 6	25 30	1 49	24 42	1 2	21 43	1 14	18 50	0 31	22 20	0 49	23 47	0 29	3 48	1 50	31 9	10 14	21 28	21 14	16 22		n.a.	
S 23	23 41	8 21	3 7	25 28	1 50	24 42	1 3	21 34	1 14	18 49	0 31	22 21	0 49	23 48	0 29	3 47	1 50	31 10	10 14	21 28	21 15	16 24		n.a.	
M24	23 42	2 57	3 57	25 23	1 51	24 41	1 5	21 26	1 13	18 48	0 30	22 22	0 50	23 48	0 29	3 47	1 50	31 10	10 14	21 28	21 16	16 26		n.a.	
T 25	23 43	2s26	4 35	25 16	1 51	24 39	1 7	21 17	1 13	18 46	0 30	22 23	0 50	23 48	0 29	3 47	1 50	31 10	10 14	21 28	21 16	16 29		n.a.	
W26	23 43	7 39	5 0	25 7	1 50	24 36	1 8	21 9	1 13	18 45	0 30	22 24	0 50	23 48	0 29	3 47	1 50	31 11	10 15	21 28	21 17	16 31		n.a.	
T 27	23 43	12 32	5 13	24 55	1 49	24 32	1 10	21 0	1 12	18 44	0 30	22 24	0 50	23 48	0 29	3 46	1 50	31 11	10 15	21 28	21 17	16 33		n.a.	
F 28	23 43	16 57	5 12	24 42	1 48	24 28	1 11	20 50	1 12	18 43	0 30	22 25	0 50	23 49	0 29	3 46	1 50	31 12	10 15	21 28	21 18	16 36		n.a.	
S 29	23 42	20 44	4 57	24 27	1 45	24 23	1 13	20 41	1 12	18 42	0 29	22 26	0 50	23 49	0 29	3 46	1 50	31 12	10 15	21 29	21 19	16 38		n.a.	
S 30	23n40	23s41	4s30	24n10	1n43	24n17	1n14	20n32	1n11	18s41	0n29	22s27	0s50	23s49	0s29	3n45	1n50	31s12	10s15	21s29	21s19	16s40		n.a.	

Julian Day Number = 1652907.5, Delta T = 03h30m00s
Ecliptic obliquity = 23°43'08, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'29, Lahiri = - 6°32'29 Julian Calendar 1 June 188 BCE == Greg. Calendar 29 May 188 BCE

The year -187 astronomical counting style corresponds to year 188 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 188 BCE
geocentric

JULY 188 BCE (-187) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 21 31	4♋23'49	7♐31	19♋58	14♋23	5♌ 3	24°R37	23°R35	10°R 2	24♍50	26°R11	24°R20	25♑17	0♏55	n.a.	M 1
T 2	18 25 27	5°21'10	19°52	21°43	15°37	5°41	24♏33	23♑31	9♑59	24°51	26♑10	24♑18	25°14	1° 2	n.a.	T 2
W 3	18 29 24	6°18'32	2♑25	23°28	16°51	6°18	24°28	23°26	9°57	24°51	26° 8	24°16	25°10	1° 9	n.a.	W 3
T 4	18 33 20	7°15'55	15°11	25°10	18° 5	6°56	24°25	23°22	9°55	24°52	26° 7	24°15	25° 7	1°15	n.a.	T 4
F 5	18 37 17	8°13'19	28°10	26°51	19°19	7°34	24°21	23°18	9°52	24°53	26° 6	24°D14	25° 4	1°22	n.a.	F 5
S 6	18 41 14	9°10'44	11♒23	28°30	20°33	8°12	24°17	23°14	9°50	24°54	26° 5	24°15	25° 1	1°29	n.a.	S 6
S 7	18 45 10	10° 8'10	24°49	0♌ 8	21°47	8°50	24°14	23° 9	9°47	24°54	26° 3	24°16	24°58	1°35	n.a.	S 7
M 8	18 49 7	11° 5'37	8♓27	1°44	23° 1	9°28	24°11	23° 5	9°45	24°55	26° 2	24°17	24°55	1°42	n.a.	M 8
T 9	18 53 3	12° 3'06	22°18	3°18	24°15	10° 5	24° 8	23° 1	9°43	24°56	26° 1	24°18	24°51	1°49	n.a.	T 9
W10	18 57 0	13° 0'37	6♈19	4°51	25°29	10°43	24° 5	22°56	9°40	24°57	26° 0	24°18	24°48	1°56	n.a.	W10
T 11	19 0 56	13°58'09	20°30	6°22	26°43	11°22	24° 2	22°52	9°38	24°58	25°58	24°R18	24°45	2° 2	n.a.	T 11
F 12	19 4 53	14°55'43	4♉48	7°52	27°57	12° 0	24° 0	22°47	9°35	24°59	25°57	24°18	24°42	2° 9	n.a.	F 12
S 13	19 8 49	15°53'18	19°10	9°20	29°11	12°38	23°57	22°43	9°33	25° 0	25°56	24°17	24°39	2°16	n.a.	S 13
S 14	19 12 46	16°50'55	3♊33	10°46	0♌25	13°16	23°55	22°38	9°31	25° 1	25°55	24°16	24°36	2°22	n.a.	S 14
M15	19 16 43	17°48'34	17°53	12°11	1°39	13°54	23°53	22°34	9°28	25° 2	25°53	24°16	24°32	2°29	n.a.	M15
T 16	19 20 39	18°46'14	2♋ 4	13°34	2°53	14°32	23°51	22°29	9°26	25° 3	25°52	24°15	24°29	2°36	n.a.	T 16
W17	19 24 36	19°43'56	16° 2	14°55	4° 7	15°11	23°50	22°25	9°24	25° 5	25°51	24°15	24°26	2°43	n.a.	W17
T 18	19 28 32	20°41'39	29°44	16°14	5°21	15°49	23°48	22°20	9°21	25° 6	25°49	24°D15	24°23	2°49	n.a.	T 18
F 19	19 32 29	21°39'23	13♌ 7	17°32	6°35	16°27	23°47	22°16	9°19	25° 7	25°48	24°15	24°20	2°56	n.a.	F 19
S 20	19 36 25	22°37'09	26°11	18°47	7°49	17° 6	23°46	22°11	9°17	25° 8	25°47	24°15	24°16	3° 3	n.a.	S 20
S 21	19 40 22	23°34'56	8♍55	20° 1	9° 3	17°44	23°45	22° 7	9°14	25° 9	25°45	24°15	24°13	3°10	n.a.	S 21
M22	19 44 19	24°32'45	21°22	21°13	10°17	18°23	23°45	22° 2	9°12	25°11	25°44	24°R15	24°10	3°16	n.a.	M22
T 23	19 48 15	25°30'35	3♎34	22°23	11°31	19° 1	23°44	21°58	9°10	25°12	25°43	24°15	24° 7	3°23	n.a.	T 23
W24	19 52 12	26°28'26	15°36	23°30	12°45	19°40	23°44	21°53	9° 7	25°13	25°41	24°15	24° 4	3°30	n.a.	W24
T 25	19 56 8	27°26'18	27°31	24°35	13°59	20°18	23°D44	21°49	9° 5	25°15	25°40	24°D15	24° 1	3°36	n.a.	T 25
F 26	20 0 5	28°24'12	9♏25	25°38	15°14	20°57	23°44	21°44	9° 3	25°16	25°39	24°15	23°57	3°43	n.a.	F 26
S 27	20 4 1	29°22'07	21°21	26°38	16°28	21°36	23°44	21°40	9° 1	25°18	25°37	24°15	23°54	3°50	n.a.	S 27
S 28	20 7 58	0♌20'04	3♐24	27°36	17°42	22°14	23°45	21°35	8°59	25°19	25°36	24°16	23°51	3°57	n.a.	S 28
M29	20 11 54	1°18'03	15°38	28°31	18°56	22°53	23°45	21°31	8°56	25°21	25°35	24°17	23°48	4° 3	n.a.	M29
T 30	20 15 51	2°16'02	28° 6	29°22	20°10	23°32	23°46	21°27	8°54	25°22	25°34	24°17	23°45	4°10	n.a.	T 30
W31	20 19 48	3♌14'04	10♑51	0♍11	21♌24	24♌11	23♏47	21♑22	8♑52	25♍24	25♑32	24♑18	23♑42	4♏17	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	23n39	25s35	3s49	23n51	1n39	24n11	1n15	20n22	1n11	18s41	0n29	22s28	0s50	23s49	0s29	3n45	1n50	31s13	10s15	21s30	21s20	16s43			n.a.
T 2	23 37	26 17	2 58	23 31	1 36	24 3	1 16	20 13	1 10	18 40	0 29	22 28	0 51	23 49	0 29	3 45	1 50	31 13	10 16	21 30	21 20	16 45			n.a.
W 3	23 34	25 39	1 57	23 9	1 31	23 56	1 18	20 3	1 10	18 39	0 28	22 29	0 51	23 50	0 29	3 44	1 50	31 14	10 16	21 31	21 21	16 47			n.a.
T 4	23 31	23 40	0 50	22 46	1 27	23 47	1 19	19 53	1 10	18 38	0 28	22 30	0 51	23 50	0 29	3 44	1 50	31 14	10 16	21 31	21 21	16 50			n.a.
F 5	23 28	20 25	0n22	22 22	1 22	23 38	1 20	19 43	1 9	18 37	0 28	22 31	0 51	23 50	0 29	3 44	1 50	31 14	10 16	21 31	21 22	16 52			n.a.
S 6	23 24	16 4	1 33	21 56	1 16	23 27	1 21	19 32	1 9	18 37	0 28	22 32	0 51	23 50	0 29	3 43	1 49	31 15	10 16	21 31	21 23	16 54			n.a.
S 7	23 20	10 52	2 41	21 30	1 10	23 17	1 22	19 22	1 9	18 36	0 28	22 33	0 51	23 50	0 29	3 43	1 49	31 15	10 16	21 31	21 23	16 57			n.a.
M 8	23 15	5 5	3 41	21 3	1 4	23 5	1 23	19 11	1 8	18 36	0 27	22 34	0 51	23 50	0 29	3 43	1 49	31 16	10 16	21 31	21 24	16 59			n.a.
T 9	23 10	1n 1	4 28	20 34	0 57	22 53	1 24	19 1	1 8	18 35	0 27	22 34	0 51	23 51	0 29	3 42	1 49	31 16	10 17	21 30	21 24	17 1			n.a.
W10	23 4	7 8	5 1	20 5	0 50	22 40	1 24	18 50	1 8	18 34	0 27	22 35	0 51	23 51	0 29	3 42	1 49	31 16	10 17	21 30	21 25	17 4			n.a.
T 11	22 59	12 57	5 16	19 36	0 43	22 27	1 25	18 39	1 7	18 34	0 27	22 36	0 52	23 51	0 29	3 41	1 49	31 17	10 17	21 30	21 26	17 6			n.a.
F 12	22 52	18 8	5 11	19 5	0 36	22 13	1 26	18 28	1 7	18 34	0 27	22 37	0 52	23 51	0 29	3 41	1 49	31 17	10 17	21 30	21 26	17 8			n.a.
S 13	22 46	22 19	4 47	18 34	0 28	21 58	1 26	18 17	1 7	18 33	0 26	22 38	0 52	23 51	0 29	3 40	1 49	31 17	10 17	21 31	21 27	17 10			n.a.
S 14	22 39	25 7	4 5	18 3	0 20	21 42	1 27	18 5	1 6	18 33	0 26	22 39	0 52	23 52	0 29	3 40	1 49	31 18	10 17	21 31	21 27	17 13			n.a.
M15	22 31	26 17	3 8	17 31	0 11	21 26	1 27	17 54	1 6	18 33	0 26	22 40	0 52	23 52	0 29	3 39	1 49	31 18	10 17	21 31	21 28	17 15			n.a.
T 16	22 23	25 42	2 0	16 59	0 3	21 10	1 28	17 42	1 5	18 32	0 26	22 40	0 52	23 52	0 29	3 39	1 49	31 19	10 17	21 31	21 28	17 17			n.a.
W17	22 15	23 30	0 45	16 27	0s 6	20 52	1 28	17 30	1 5	18 32	0 26	22 41	0 52	23 52	0 29	3 38	1 49	31 19	10 17	21 31	21 29	17 19			n.a.
T 18	22 6	19 57	0s30	15 55	0 15	20 34	1 28	17 19	1 5	18 32	0 25	22 42	0 52	23 52	0 29	3 38	1 49	31 19	10 17	21 31	21 30	17 22			n.a.
F 19	21 57	15 26	1 43	15 23	0 24	20 16	1 28	17 7	1 4	18 32	0 25	22 43	0 52	23 52	0 29	3 37	1 49	31 20	10 18	21 31	21 30	17 24			n.a.
S 20	21 48	10 18	2 48	14 50	0 34	19 57	1 28	16 54	1 4	18 32	0 25	22 44	0 52	23 53	0 29	3 37	1 49	31 20	10 18	21 31	21 31	17 26			n.a.
S 21	21 38	4 53	3 43	14 18	0 43	19 37	1 28	16 42	1 3	18 32	0 25	22 45	0 52	23 53	0 29	3 36	1 49	31 20	10 18	21 31	21 31	17 28			n.a.
M22	21 28	0s37	4 26	13 46	0 53	19 17	1 28	16 30	1 3	18 32	0 25	22 45	0 53	23 53	0 29	3 36	1 49	31 21	10 18	21 31	21 32	17 31			n.a.
T 23	21 17	5 58	4 57	13 14	1 3	18 56	1 28	16 17	1 3	18 32	0 24	22 46	0 53	23 53	0 29	3 35	1 49	31 21	10 18	21 31	21 32	17 33			n.a.
W24	21 6	11 1	5 13	12 42	1 12	18 35	1 28	16 5	1 2	18 32	0 24	22 47	0 53	23 53	0 29	3 35	1 49	31 21	10 18	21 31	21 33	17 35			n.a.
T 25	20 55	15 37	5 16	12 11	1 22	18 13	1 28	15 52	1 2	18 32	0 24	22 48	0 53	23 53	0 29	3 34	1 49	31 21	10 18	21 31	21 33	17 37			n.a.
F 26	20 43	19 37	5 6	11 40	1 33	17 51	1 28	15 39	1 2	18 32	0 24	22 49	0 53	23 54	0 29	3 33	1 48	31 22	10 18	21 31	21 34	17 40			n.a.
S 27	20 31	22 50	4 42	11 10	1 43	17 28	1 27	15 26	1 1	18 33	0 24	22 49	0 53	23 54	0 29	3 33	1 48	31 22	10 18	21 31	21 35	17 42			n.a.
S 28	20 19	25 6	4 6	10 41	1 53	17 5	1 27	15 13	1 1	18 33	0 23	22 50	0 53	23 54	0 29	3 32	1 48	31 22	10 18	21 31	21 35	17 44			n.a.
M29	20 6	26 13	3 18	10 13	2 3	16 41	1 26	15 0	1 0	18 33	0 23	22 51	0 53	23 54	0 29	3 32	1 48	31 23	10 18	21 31	21 36	17 46			n.a.
T 30	19 53	26 2	2 20	9 45	2 13	16 17	1 26	14 46	1 0	18 34	0 23	22 52	0 53	23 54	0 29	3 31	1 48	31 23	10 18	21 31	21 36	17 48			n.a.
W31	19n40	24s30	1s14	9n18	2s23	15n53	1n25	14n33	1n 0	18s34	0n23	22s53	0s53	23s54	0s29	3n30	1n48	31s23	10s18	21s30	21s37	17s51			n.a.

Julian Day Number = 1652937.5, Delta T = 03h29m59s
Ecliptic obliquity = 23°43'08, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'25, Lahiri = - 6°32'24 Julian Calendar 1 July 188 BCE == Greg. Calendar 28 June 188 BCE

The year -187 astronomical counting style corresponds to year 188 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 188 BCE
geocentric

AUGUST 188 BCE (-187) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 23 44	4♌12'07	23♉54	0♍57	22♌38	24♌49	23♏49	21°R18	8°R50	25♍25	25°R31	24°R18	23♉38	4♏23	n.a.	T 1
F 2	20 27 41	5°10'12	7♒15	1°38	23°52	25°28	23°50	21♉14	8♉48	25°27	25♉30	24♉18	23°35	4°30	n.a.	F 2
S 3	20 31 37	6° 8'18	20°53	2°16	25° 6	26° 7	23°52	21° 9	8°46	25°28	25°28	24°17	23°32	4°37	n.a.	S 3
S 4	20 35 34	7° 6'27	4♓46	2°50	26°20	26°46	23°53	21° 5	8°44	25°30	25°27	24°16	23°29	4°44	n.a.	S 4
M 5	20 39 30	8° 4'37	18°50	3°20	27°34	27°25	23°55	21° 1	8°42	25°31	25°26	24°14	23°26	4°50	n.a.	M 5
T 6	20 43 27	9° 2'49	3♈ 2	3°45	28°48	28° 4	23°58	20°57	8°40	25°33	25°25	24°12	23°22	4°57	n.a.	T 6
W 7	20 47 23	10° 1'04	17°18	4° 5	0♍ 2	28°44	24° 0	20°52	8°38	25°35	25°23	24°11	23°19	5° 4	n.a.	W 7
T 8	20 51 20	10°59'21	1♉34	4°20	1°16	29°23	24° 2	20°48	8°36	25°37	25°22	24°10	23°16	5°11	n.a.	T 8
F 9	20 55 16	11°57'40	15°47	4°29	2°30	0♍ 2	24° 5	20°44	8°34	25°38	25°21	24°D10	23°13	5°17	n.a.	F 9
S 10	20 59 13	12°56'01	29°56	4°R33	3°44	0°41	24° 8	20°40	8°32	25°40	25°19	24°10	23°10	5°24	n.a.	S 10
S 11	21 3 10	13°54'25	13♊58	4°30	4°58	1°20	24°11	20°36	8°30	25°42	25°18	24°11	23° 7	5°31	n.a.	S 11
M12	21 7 6	14°52'50	27°51	4°21	6°12	2° 0	24°14	20°32	8°29	25°44	25°17	24°13	23° 3	5°37	n.a.	M12
T 13	21 11 3	15°51'19	11♋34	4° 6	7°26	2°39	24°18	20°28	8°27	25°45	25°16	24°14	23° 0	5°44	n.a.	T 13
W14	21 14 59	16°49'49	25° 6	3°44	8°40	3°19	24°21	20°25	8°25	25°47	25°15	24°R14	22°57	5°51	n.a.	W14
T 15	21 18 56	17°48'21	8♌26	3°15	9°54	3°58	24°25	20°21	8°24	25°49	25°13	24°14	22°54	5°58	n.a.	T 15
F 16	21 22 52	18°46'55	21°31	2°39	11° 8	4°38	24°29	20°17	8°22	25°51	25°12	24°12	22°51	6° 4	n.a.	F 16
S 17	21 26 49	19°45'31	4♍22	1°57	12°22	5°17	24°33	20°14	8°20	25°53	25°11	24° 9	22°48	6°11	n.a.	S 17
S 18	21 30 45	20°44'09	16°59	1° 9	13°36	5°57	24°38	20°10	8°19	25°55	25°10	24° 5	22°44	6°18	n.a.	S 18
M19	21 34 42	21°42'49	29°21	0°15	14°49	6°36	24°42	20° 6	8°17	25°57	25° 9	24° 0	22°41	6°24	n.a.	M19
T 20	21 38 39	22°41'31	11♎31	29♌17	16° 3	7°16	24°47	20° 3	8°16	25°59	25° 8	23°55	22°38	6°31	n.a.	T 20
W21	21 42 35	23°40'15	23°32	28°15	17°17	7°56	24°52	20° 0	8°14	26° 0	25° 6	23°51	22°35	6°38	n.a.	W21
T 22	21 46 32	24°39'01	5♏26	27°11	18°31	8°36	24°57	19°56	8°13	26° 2	25° 5	23°48	22°32	6°45	n.a.	T 22
F 23	21 50 28	25°37'49	17°18	26° 6	19°45	9°16	25° 2	19°53	8°11	26° 4	25° 4	23°46	22°28	6°51	n.a.	F 23
S 24	21 54 25	26°36'38	29°12	25° 1	20°59	9°55	25° 7	19°50	8°10	26° 6	25° 3	23°D46	22°25	6°58	n.a.	S 24
S 25	21 58 21	27°35'29	11♐14	23°59	22°13	10°35	25°12	19°47	8° 9	26° 8	25° 2	23°47	22°22	7° 5	n.a.	S 25
M26	22 2 18	28°34'23	23°27	23° 1	23°27	11°15	25°18	19°44	8° 7	26°10	25° 1	23°48	22°19	7°12	n.a.	M26
T 27	22 6 14	29°33'18	5♑57	22° 8	24°41	11°55	25°24	19°41	8° 6	26°13	25° 0	23°50	22°16	7°18	n.a.	T 27
W28	22 10 11	0♍32'15	18°48	21°22	25°55	12°35	25°30	19°38	8° 5	26°15	24°59	23°R51	22°13	7°25	n.a.	W28
T 29	22 14 8	1°31'14	2♒ 1	20°45	27° 8	13°15	25°36	19°35	8° 4	26°17	24°58	23°51	22° 9	7°32	n.a.	T 29
F 30	22 18 4	2°30'14	15°39	20°16	28°22	13°56	25°42	19°33	8° 3	26°19	24°57	23°49	22° 6	7°38	n.a.	F 30
S 31	22 22 1	3♍29'17	29♒39	19♌57	29♍36	14♍36	25♏49	19♑30	8♑ 2	26♍21	24♑56	23♑45	22♑ 3	7♏45	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	19n26	21s37	0s 2	8n53	2s33	15n28	1n25	14n20	0n59	18s35	0n23	22s53	0s53	23s54	0s29	3n30	1n48	31s24	10s18	21s30	21s37	17s53		n.a.	T 1
F 2	19 12	17 32	1n11	8 29	2 43	15 2	1 24	14 6	0 59	18 35	0 22	22 54	0 53	23 55	0 29	3 29	1 48	31 24	10 18	21 30	21 38	17 55		n.a.	F 2
S 3	18 57	12 28	2 22	8 6	2 53	14 36	1 23	13 52	0 58	18 36	0 22	22 55	0 53	23 55	0 29	3 28	1 48	31 24	10 18	21 31	21 38	17 57		n.a.	S 3
S 4	18 43	6 41	3 25	7 45	3 2	14 10	1 22	13 38	0 58	18 37	0 22	22 56	0 54	23 55	0 29	3 28	1 48	31 24	10 18	21 31	21 39	17 59		n.a.	S 4
M 5	18 28	0 31	4 17	7 26	3 11	13 44	1 21	13 24	0 57	18 37	0 22	22 56	0 54	23 55	0 29	3 27	1 48	31 25	10 18	21 31	21 40	18 1		n.a.	M 5
T 6	18 12	5n43	4 54	7 9	3 20	13 17	1 20	13 10	0 57	18 38	0 22	22 57	0 54	23 55	0 29	3 26	1 48	31 25	10 18	21 31	21 40	18 4		n.a.	T 6
W 7	17 57	11 41	5 13	6 54	3 28	12 49	1 19	12 56	0 57	18 39	0 21	22 58	0 54	23 55	0 29	3 25	1 48	31 25	10 18	21 32	21 41	18 6		n.a.	W 7
T 8	17 41	17 2	5 13	6 41	3 36	12 22	1 18	12 42	0 56	18 40	0 21	22 58	0 54	23 55	0 29	3 25	1 48	31 25	10 18	21 32	21 41	18 8		n.a.	T 8
F 9	17 24	21 26	4 53	6 31	3 44	11 54	1 17	12 28	0 56	18 40	0 21	22 59	0 54	23 55	0 29	3 24	1 48	31 26	10 18	21 32	21 42	18 10		n.a.	F 9
S 10	17 8	24 32	4 16	6 23	3 50	11 25	1 15	12 13	0 55	18 41	0 21	23 0	0 54	23 56	0 29	3 23	1 48	31 26	10 18	21 32	21 42	18 12		n.a.	S 10
S 11	16 51	26 7	3 24	6 19	3 56	10 57	1 14	11 59	0 55	18 42	0 21	23 0	0 54	23 56	0 29	3 23	1 48	31 26	10 18	21 32	21 43	18 14		n.a.	S 11
M12	16 34	26 2	2 20	6 17	4 1	10 28	1 12	11 44	0 54	18 43	0 20	23 1	0 54	23 56	0 29	3 22	1 48	31 26	10 18	21 31	21 43	18 16		n.a.	M12
T 13	16 16	24 21	1 9	6 19	4 5	9 59	1 11	11 29	0 54	18 44	0 20	23 2	0 54	23 56	0 29	3 21	1 48	31 26	10 18	21 31	21 44	18 19		n.a.	T 13
W14	15 58	21 17	0s 5	6 25	4 7	9 29	1 9	11 14	0 54	18 45	0 20	23 2	0 54	23 56	0 29	3 20	1 48	31 27	10 18	21 31	21 44	18 21		n.a.	W14
T 15	15 40	17 8	1 17	6 34	4 9	9 0	1 8	11 0	0 53	18 47	0 20	23 3	0 54	23 56	0 29	3 20	1 48	31 27	10 18	21 31	21 45	18 23		n.a.	T 15
F 16	15 22	12 13	2 24	6 48	4 8	8 30	1 6	10 45	0 53	18 48	0 20	23 3	0 54	23 56	0 29	3 19	1 48	31 27	10 18	21 32	21 46	18 25		n.a.	F 16
S 17	15 4	6 53	3 23	7 4	4 6	7 59	1 4	10 29	0 52	18 49	0 19	23 4	0 54	23 56	0 29	3 18	1 48	31 27	10 18	21 32	21 46	18 27		n.a.	S 17
S 18	14 45	1 22	4 10	7 25	4 2	7 29	1 3	10 14	0 52	18 50	0 19	23 5	0 54	23 56	0 29	3 17	1 48	31 27	10 18	21 33	21 47	18 29		n.a.	S 18
M19	14 26	4s 4	4 44	7 49	3 57	6 59	1 1	9 59	0 51	18 51	0 19	23 5	0 54	23 56	0 29	3 16	1 48	31 27	10 18	21 34	21 47	18 31		n.a.	M19
T 20	14 7	9 17	5 5	8 17	3 49	6 28	0 59	9 44	0 51	18 53	0 19	23 6	0 54	23 57	0 29	3 16	1 48	31 28	10 18	21 34	21 48	18 33		n.a.	T 20
W21	13 47	14 4	5 12	8 48	3 39	5 57	0 57	9 28	0 50	18 54	0 19	23 6	0 54	23 57	0 29	3 15	1 48	31 28	10 17	21 35	21 48	18 35		n.a.	W21
T 22	13 27	18 17	5 6	9 21	3 28	5 26	0 55	9 13	0 50	18 56	0 19	23 7	0 54	23 57	0 29	3 14	1 48	31 28	10 17	21 36	21 49	18 37		n.a.	T 22
F 23	13 8	21 46	4 47	9 56	3 14	4 55	0 53	8 57	0 50	18 57	0 18	23 7	0 54	23 57	0 29	3 13	1 47	31 28	10 17	21 36	21 49	18 39		n.a.	F 23
S 24	12 47	24 21	4 15	10 32	2 59	4 23	0 51	8 42	0 49	18 58	0 18	23 8	0 54	23 57	0 29	3 12	1 47	31 28	10 17	21 36	21 50	18 42		n.a.	S 24
S 25	12 27	25 53	3 32	11 8	2 42	3 52	0 48	8 26	0 49	19 0	0 18	23 8	0 54	23 57	0 29	3 11	1 47	31 28	10 17	21 36	21 50	18 44		n.a.	S 25
M26	12 6	26 11	2 38	11 44	2 24	3 20	0 46	8 10	0 48	19 1	0 18	23 9	0 54	23 57	0 29	3 11	1 47	31 28	10 17	21 36	21 51	18 46		n.a.	M26
T 27	11 46	25 11	1 36	12 20	2 5	2 49	0 44	7 54	0 48	19 3	0 18	23 9	0 54	23 57	0 29	3 10	1 47	31 29	10 17	21 35	21 51	18 48		n.a.	T 27
W28	11 25	22 50	0 28	12 53	1 45	2 17	0 42	7 38	0 47	19 5	0 17	23 10	0 54	23 57	0 29	3 9	1 47	31 29	10 17	21 35	21 52	18 50		n.a.	W28
T 29	11 4	19 13	0n44	13 24	1 25	1 45	0 39	7 22	0 47	19 6	0 17	23 10	0 54	23 57	0 29	3 8	1 47	31 29	10 17	21 35	21 52	18 52		n.a.	T 29
F 30	10 42	14 30	1 56	13 52	1 5	1 13	0 37	7 6	0 46	19 8	0 17	23 11	0 55	23 57	0 29	3 7	1 47	31 29	10 17	21 36	21 53	18 54		n.a.	F 30
S 31	10n21	8s54	3n 2	14n17	0s46	0n41	0n34	6n50	0n46	19s10	0n17	23s11	0s55	23s57	0s29	3n 6	1n47	31s29	10s17	21s36	21s53	18s56		n.a.	S 31

Julian Day Number = 1652968.5, Delta T = 03h29m58s
Ecliptic obliquity = 23°43'08, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'21, Lahiri = - 6°32'20 Julian Calendar 1 Aug. 188 BCE == Greg. Calendar 29 July 188 BCE

The year -187 astronomical counting style corresponds to year 188 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 188 BCE
geocentric

SEPTEMBER 188 BCE (-187) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 25 57	4♍28'22	13♓59	19°D48	0♎50	15♍16	25♏55	19°R27	8°R 1	26♍23	24°R55	23°R40	22♑ 0	7♏52	n.a.	S 1
M 2	22 29 54	5°27'29	28°32	19♌50	2° 4	15°56	26° 2	19♑25	8♑ 0	26°25	24♑54	23♑34	21°57	7°59	n.a.	M 2
T 3	22 33 50	6°26'38	13♈11	20° 2	3°17	16°37	26° 9	19°23	7°59	26°27	24°53	23°27	21°54	8° 5	n.a.	T 3
W 4	22 37 47	7°25'50	27°51	20°25	4°31	17°17	26°16	19°20	7°58	26°29	24°52	23°21	21°50	8°12	n.a.	W 4
T 5	22 41 43	8°25'04	12♉23	20°57	5°45	17°57	26°23	19°18	7°57	26°31	24°51	23°17	21°47	8°19	n.a.	T 5
F 6	22 45 40	9°24'21	26°44	21°38	6°59	18°38	26°30	19°16	7°57	26°34	24°50	23°14	21°44	8°25	n.a.	F 6
S 7	22 49 36	10°23'40	10♊50	22°27	8°12	19°18	26°38	19°14	7°56	26°36	24°50	23°D13	21°41	8°32	n.a.	S 7
S 8	22 53 33	11°23'02	24°41	23°25	9°26	19°59	26°46	19°12	7°55	26°38	24°49	23°14	21°38	8°39	n.a.	S 8
M 9	22 57 30	12°22'26	8♋16	24°30	10°40	20°39	26°53	19°10	7°55	26°40	24°48	23°15	21°34	8°46	n.a.	M 9
T 10	23 1 26	13°21'53	21°38	25°41	11°53	21°20	27° 1	19° 9	7°54	26°42	24°47	23°R16	21°31	8°52	n.a.	T 10
W11	23 5 23	14°21'21	4♌46	26°57	13° 7	22° 1	27° 9	19° 7	7°53	26°45	24°46	23°15	21°28	8°59	n.a.	W11
T 12	23 9 19	15°20'53	17°42	28°18	14°21	22°42	27°17	19° 5	7°53	26°47	24°46	23°12	21°25	9° 6	n.a.	T 12
F 13	23 13 16	16°20'26	0♍28	29°44	15°34	23°22	27°26	19° 4	7°53	26°49	24°45	23° 7	21°22	9°12	n.a.	F 13
S 14	23 17 12	17°20'02	13° 2	1♍13	16°48	24° 3	27°34	19° 3	7°52	26°51	24°44	22°59	21°19	9°19	n.a.	S 14
S 15	23 21 9	18°19'39	25°26	2°45	18° 2	24°44	27°43	19° 1	7°52	26°53	24°44	22°50	21°15	9°26	n.a.	S 15
M16	23 25 5	19°19'19	7♎40	4°19	19°15	25°25	27°51	19° 0	7°52	26°56	24°43	22°39	21°12	9°33	n.a.	M16
T 17	23 29 2	20°19'01	19°45	5°56	20°29	26° 6	28° 0	18°59	7°51	26°58	24°42	22°28	21° 9	9°39	n.a.	T 17
W18	23 32 59	21°18'45	1♏42	7°34	21°42	26°47	28° 9	18°58	7°51	27° 0	24°42	22°17	21° 6	9°46	n.a.	W18
T 19	23 36 55	22°18'30	13°34	9°13	22°56	27°28	28°18	18°57	7°51	27° 2	24°41	22° 9	21° 3	9°53	n.a.	T 19
F 20	23 40 52	23°18'18	25°24	10°53	24° 9	28° 9	28°27	18°57	7°51	27° 5	24°40	22° 2	20°59	9°59	n.a.	F 20
S 21	23 44 48	24°18'08	7♐16	12°34	25°23	28°50	28°37	18°56	7°D51	27° 7	24°40	21°58	20°56	10° 6	n.a.	S 21
S 22	23 48 45	25°17'59	19°13	14°15	26°36	29°32	28°46	18°56	7°51	27° 9	24°39	21°57	20°53	10°13	n.a.	S 22
M23	23 52 41	26°17'52	1♑23	15°57	27°50	0♎13	28°56	18°55	7°51	27°11	24°39	21°D56	20°50	10°20	n.a.	M23
T 24	23 56 38	27°17'47	13°49	17°39	29° 3	0°54	29° 5	18°55	7°51	27°14	24°38	21°57	20°47	10°26	n.a.	T 24
W25	0 0 34	28°17'44	26°37	19°20	0♏17	1°36	29°15	18°55	7°51	27°16	24°38	21°R57	20°44	10°33	n.a.	W25
T 26	0 4 31	29°17'42	9♒51	21° 2	1°30	2°17	29°25	18°54	7°52	27°18	24°38	21°56	20°40	10°40	n.a.	T 26
F 27	0 8 28	0♎17'43	23°33	22°43	2°44	2°59	29°35	18°D54	7°52	27°20	24°37	21°52	20°37	10°46	n.a.	F 27
S 28	0 12 24	1°17'45	7♓44	24°25	3°57	3°40	29°45	18°55	7°52	27°23	24°37	21°46	20°34	10°53	n.a.	S 28
S 29	0 16 21	2°17'48	22°20	26° 5	5°10	4°22	29°55	18°55	7°53	27°25	24°36	21°37	20°31	11° 0	n.a.	S 29
M30	0 20 17	3♎17'54	7♈15	27♍46	6♏23	5♎ 3	0♐ 6	18♑55	7♑53	27♍27	24♑36	21♑27	20♑28	11♏ 7	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n59	2s43	3n58	14n37	0s27	0n 9	0n32	6n34	0n45	19s11	0n17	23s11	0s55	23s57	0s29	3n 6	1n47	31s29	10s16	21s37	21s54	18s58		n.a.
M 2	9 37	3n41	4 40	14 54	0 9	0s23	0 29	6 18	0 45	19 13	0 17	23 12	0 55	23 57	0 29	3 5	1 47	31 29	10 16	21 38	21 54	19 0		n.a.
T 3	9 15	9 55	5 4	15 6	0n 8	0 55	0 27	6 2	0 44	19 15	0 16	23 12	0 55	23 57	0 29	3 4	1 47	31 29	10 16	21 39	21 55	19 2		n.a.
W 4	8 53	15 36	5 7	15 14	0 24	1 27	0 24	5 45	0 44	19 17	0 16	23 12	0 55	23 57	0 29	3 3	1 47	31 29	10 16	21 40	21 55	19 4		n.a.
T 5	8 31	20 21	4 52	15 18	0 39	1 59	0 22	5 29	0 43	19 19	0 16	23 13	0 55	23 57	0 29	3 2	1 47	31 29	10 16	21 41	21 56	19 6		n.a.
F 6	8 8	23 49	4 18	15 17	0 53	2 31	0 19	5 12	0 43	19 21	0 16	23 13	0 55	23 57	0 29	3 1	1 47	31 29	10 16	21 42	21 56	19 8		n.a.
S 7	7 45	25 46	3 28	15 12	1 5	3 3	0 16	4 56	0 42	19 22	0 16	23 13	0 55	23 58	0 29	3 0	1 47	31 29	10 16	21 42	21 57	19 10		n.a.
S 8	7 23	26 4	2 28	15 3	1 16	3 34	0 13	4 39	0 42	19 24	0 16	23 14	0 55	23 58	0 29	2 59	1 47	31 29	10 15	21 42	21 58	19 12		n.a.
M 9	7 0	24 47	1 20	14 51	1 25	4 6	0 11	4 23	0 41	19 26	0 15	23 14	0 55	23 58	0 29	2 59	1 47	31 29	10 15	21 41	21 58	19 14		n.a.
T 10	6 37	22 6	0 9	14 34	1 33	4 38	0 8	4 6	0 41	19 28	0 15	23 14	0 55	23 58	0 29	2 58	1 47	31 29	10 15	21 41	21 59	19 16		n.a.
W11	6 14	18 18	1s 1	14 14	1 40	5 10	0 5	3 49	0 40	19 30	0 15	23 14	0 55	23 58	0 29	2 57	1 47	31 29	10 15	21 41	21 59	19 18		n.a.
T 12	5 50	13 41	2 7	13 51	1 46	5 41	0 2	3 33	0 40	19 32	0 15	23 15	0 55	23 58	0 29	2 56	1 47	31 29	10 15	21 42	22 0	19 20		n.a.
F 13	5 27	8 33	3 6	13 25	1 50	6 13	0s 1	3 16	0 39	19 34	0 15	23 15	0 55	23 58	0 29	2 55	1 47	31 29	10 15	21 43	22 0	19 22		n.a.
S 14	5 4	3 9	3 54	12 56	1 54	6 44	0 4	2 59	0 39	19 37	0 15	23 15	0 55	23 58	0 29	2 54	1 47	31 29	10 15	21 44	22 1	19 24		n.a.
S 15	4 40	2s18	4 30	12 25	1 56	7 15	0 7	2 42	0 38	19 39	0 14	23 15	0 55	23 58	0 29	2 53	1 47	31 29	10 14	21 46	22 1	19 26		n.a.
M16	4 16	7 34	4 54	11 52	1 58	7 46	0 9	2 25	0 38	19 41	0 14	23 15	0 55	23 58	0 29	2 52	1 47	31 29	10 14	21 48	22 2	19 28		n.a.
T 17	3 53	12 29	5 4	11 17	1 59	8 17	0 12	2 8	0 37	19 43	0 14	23 15	0 55	23 58	0 29	2 51	1 47	31 29	10 14	21 49	22 2	19 29		n.a.
W18	3 29	16 53	5 0	10 40	1 59	8 48	0 15	1 51	0 37	19 45	0 14	23 16	0 55	23 58	0 29	2 50	1 47	31 29	10 14	21 51	22 3	19 31		n.a.
T 19	3 5	20 35	4 43	10 1	1 58	9 18	0 18	1 34	0 36	19 47	0 14	23 16	0 55	23 58	0 29	2 50	1 47	31 29	10 14	21 53	22 3	19 33		n.a.
F 20	2 41	23 27	4 14	9 22	1 56	9 48	0 21	1 17	0 36	19 50	0 14	23 16	0 55	23 58	0 29	2 49	1 47	31 29	10 14	21 54	22 4	19 35		n.a.
S 21	2 17	25 18	3 35	8 41	1 54	10 18	0 24	1 0	0 35	19 52	0 14	23 16	0 55	23 58	0 29	2 48	1 47	31 29	10 13	21 54	22 4	19 37		n.a.
S 22	1 53	26 1	2 45	7 59	1 52	10 48	0 27	0 43	0 35	19 54	0 13	23 16	0 55	23 58	0 29	2 47	1 47	31 29	10 13	21 54	22 5	19 39		n.a.
M23	1 29	25 30	1 47	7 16	1 49	11 18	0 30	0 26	0 34	19 56	0 13	23 16	0 55	23 58	0 29	2 46	1 47	31 29	10 13	21 54	22 5	19 41		n.a.
T 24	1 5	23 43	0 43	6 33	1 45	11 47	0 33	0 9	0 34	19 59	0 13	23 16	0 55	23 58	0 29	2 45	1 47	31 29	10 13	21 54	22 5	19 43		n.a.
W25	0 41	20 40	0n25	5 49	1 41	12 16	0 36	0s 8	0 33	20 1	0 13	23 16	0 55	23 57	0 29	2 44	1 47	31 29	10 13	21 54	22 6	19 45		n.a.
T 26	0 17	16 29	1 34	5 5	1 37	12 45	0 39	0 25	0 33	20 3	0 13	23 16	0 55	23 57	0 29	2 43	1 47	31 28	10 12	21 55	22 6	19 47		n.a.
F 27	0s 7	11 19	2 39	4 20	1 32	13 13	0 42	0 42	0 32	20 5	0 13	23 16	0 55	23 57	0 29	2 42	1 47	31 28	10 12	21 55	22 7	19 49		n.a.
S 28	0 31	5 24	3 38	3 35	1 28	13 41	0 45	0 59	0 32	20 8	0 13	23 16	0 55	23 57	0 29	2 41	1 47	31 28	10 12	21 56	22 7	19 50		n.a.
S 29	0 55	0n57	4 23	2 50	1 22	14 9	0 48	1 17	0 31	20 10	0 12	23 16	0 55	23 57	0 28	2 41	1 47	31 28	10 12	21 58	22 8	19 52		n.a.
M30	1s20	7n22	4n52	2n 4	1n17	14s37	0s51	1s34	0n31	20s12	0n12	23s16	0s55	23s57	0s28	2n40	1n47	31s28	10s12	21s59	22s 8	19s54		n.a.

Julian Day Number = 1652999.5, Delta T = 03h29m57s
Ecliptic obliquity = 23°43'08, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'16, Lahiri = - 6°32'16 Julian Calendar 1 Sept. 188 BCE == Greg. Calendar 29 Aug. 188 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 188 BCE
geocentric

OCTOBER 188 BCE (-187) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 24 14	4♎18'02	22♈20	29♍26	7♏37	5♎45	0♐16	18♑55	7♑54	27♍29	24°R36	21°R16	20♑25	11♏13	n.a.	T 1
W 2	0 28 10	5°18'12	7♉25	1♎ 6	8°50	6°27	0°27	18°56	7°54	27°31	24♑35	21♑ 5	20°21	11°20	n.a.	W 2
T 3	0 32 7	6°18'23	22°21	2°45	10° 3	7° 8	0°37	18°56	7°55	27°34	24°35	20°57	20°18	11°27	n.a.	T 3
F 4	0 36 3	7°18'38	6♊58	4°24	11°16	7°50	0°48	18°57	7°55	27°36	24°35	20°52	20°15	11°33	n.a.	F 4
S 5	0 40 0	8°18'54	21°14	6° 3	12°30	8°32	0°59	18°58	7°56	27°38	24°35	20°49	20°12	11°40	n.a.	S 5
S 6	0 43 56	9°19'12	5♋ 7	7°41	13°43	9°14	1°10	18°59	7°57	27°40	24°35	20°D48	20° 9	11°47	n.a.	S 6
M 7	0 47 53	10°19'33	18°38	9°19	14°56	9°56	1°21	19° 0	7°58	27°43	24°34	20°R48	20° 5	11°54	n.a.	M 7
T 8	0 51 50	11°19'56	1♌48	10°56	16° 9	10°38	1°32	19° 1	7°58	27°45	24°34	20°47	20° 2	12° 0	n.a.	T 8
W 9	0 55 46	12°20'21	14°42	12°33	17°22	11°20	1°43	19° 2	7°59	27°47	24°34	20°46	19°59	12° 7	n.a.	W 9
T 10	0 59 43	13°20'47	27°21	14° 9	18°35	12° 2	1°54	19° 4	8° 0	27°49	24°34	20°41	19°56	12°14	n.a.	T 10
F 11	1 3 39	14°21'16	9♍49	15°46	19°48	12°44	2° 6	19° 5	8° 1	27°51	24°34	20°34	19°53	12°20	n.a.	F 11
S 12	1 7 36	15°21'46	22° 8	17°21	21° 1	13°26	2°17	19° 7	8° 2	27°53	24°D34	20°23	19°50	12°27	n.a.	S 12
S 13	1 11 32	16°22'19	4♎19	18°57	22°14	14° 8	2°29	19° 8	8° 3	27°56	24°34	20°10	19°46	12°34	n.a.	S 13
M14	1 15 29	17°22'53	16°23	20°32	23°27	14°51	2°40	19°10	8° 5	27°58	24°34	19°55	19°43	12°41	n.a.	M14
T 15	1 19 25	18°23'28	28°21	22° 7	24°40	15°33	2°52	19°12	8° 6	28° 0	24°34	19°40	19°40	12°47	n.a.	T 15
W16	1 23 22	19°24'06	10♏15	23°42	25°53	16°16	3° 4	19°14	8° 7	28° 2	24°34	19°26	19°37	12°54	n.a.	W16
T 17	1 27 19	20°24'45	22° 5	25°16	27° 6	16°58	3°16	19°16	8° 8	28° 4	24°34	19°14	19°34	13° 1	n.a.	T 17
F 18	1 31 15	21°25'25	3♐55	26°50	28°18	17°40	3°28	19°18	8°10	28° 6	24°35	19° 4	19°30	13° 7	n.a.	F 18
S 19	1 35 12	22°26'07	15°46	28°24	29°31	18°23	3°40	19°20	8°11	28° 8	24°35	18°57	19°27	13°14	n.a.	S 19
S 20	1 39 8	23°26'50	27°42	29°57	0♐44	19° 6	3°52	19°22	8°12	28°10	24°35	18°54	19°24	13°21	n.a.	S 20
M21	1 43 5	24°27'35	9♑49	1♏31	1°56	19°48	4° 4	19°25	8°14	28°13	24°35	18°52	19°21	13°28	n.a.	M21
T 22	1 47 1	25°28'20	22°10	3° 4	3° 9	20°31	4°16	19°27	8°16	28°15	24°36	18°52	19°18	13°34	n.a.	T 22
W23	1 50 58	26°29'07	4♒52	4°37	4°22	21°14	4°29	19°30	8°17	28°17	24°36	18°52	19°15	13°41	n.a.	W23
T 24	1 54 54	27°29'55	17°58	6°10	5°34	21°56	4°41	19°33	8°19	28°19	24°36	18°51	19°11	13°48	n.a.	T 24
F 25	1 58 51	28°30'44	1♓34	7°42	6°47	22°39	4°54	19°36	8°20	28°21	24°36	18°47	19° 8	13°54	n.a.	F 25
S 26	2 2 48	29°31'34	15°40	9°15	7°59	23°22	5° 6	19°38	8°22	28°23	24°37	18°41	19° 5	14° 1	n.a.	S 26
S 27	2 6 44	0♏32'25	0♈16	10°47	9°12	24° 5	5°19	19°41	8°24	28°25	24°37	18°32	19° 2	14° 8	n.a.	S 27
M28	2 10 41	1°33'17	15°16	12°19	10°24	24°48	5°32	19°45	8°26	28°27	24°38	18°22	18°59	14°15	n.a.	M28
T 29	2 14 37	2°34'10	0♉33	13°51	11°36	25°31	5°44	19°48	8°28	28°29	24°38	18°10	18°56	14°21	n.a.	T 29
W30	2 18 34	3°35'05	15°54	15°23	12°48	26°14	5°57	19°51	8°29	28°30	24°39	18° 0	18°52	14°28	n.a.	W30
T 31	2 22 30	4♏36'01	1♊ 8	16♏55	14♐ 1	26♎57	6♐10	19♑54	8♑31	28♍32	24♑39	17♑51	18♑49	14♏35	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	1s44	13n26	5n 1	1n19	1n11	15s 4	0s54	1s51	0n30	20s15	0n12	23s16	0s55	23s57	0s28	2n39	1n47	31s28	10s11	22s 1	22s 9	19s56		n.a.	T 1
W 2	2 8	18 42	4 49	0 34	1 6	15 31	0 57	2 8	0 30	20 17	0 12	23 16	0 55	23 57	0 28	2 38	1 47	31 28	10 11	22 3	22 9	19 58		n.a.	W 2
T 3	2 32	22 43	4 18	0s12	1 0	15 57	1 0	2 25	0 29	20 20	0 12	23 16	0 55	23 57	0 28	2 37	1 47	31 28	10 11	22 4	22 10	20 0		n.a.	T 3
F 4	2 56	25 10	3 30	0 57	0 53	16 23	1 3	2 43	0 28	20 22	0 12	23 16	0 54	23 57	0 28	2 36	1 47	31 27	10 11	22 5	22 10	20 2		n.a.	F 4
S 5	3 20	25 55	2 30	1 42	0 47	16 49	1 6	3 0	0 28	20 24	0 12	23 15	0 54	23 57	0 28	2 35	1 47	31 27	10 11	22 5	22 11	20 3		n.a.	S 5
S 6	3 44	24 59	1 22	2 27	0 41	17 14	1 9	3 17	0 27	20 27	0 11	23 15	0 54	23 57	0 28	2 34	1 47	31 27	10 10	22 5	22 11	20 5		n.a.	S 6
M 7	4 8	22 36	0 11	3 12	0 35	17 38	1 11	3 34	0 27	20 29	0 11	23 15	0 54	23 57	0 28	2 34	1 47	31 27	10 10	22 5	22 12	20 7		n.a.	M 7
T 8	4 32	19 3	0s58	3 57	0 28	18 3	1 14	3 51	0 26	20 32	0 11	23 15	0 54	23 57	0 28	2 33	1 47	31 27	10 10	22 5	22 12	20 9		n.a.	T 8
W 9	4 56	14 40	2 3	4 41	0 22	18 27	1 17	4 8	0 26	20 34	0 11	23 15	0 54	23 57	0 28	2 32	1 47	31 27	10 10	22 6	22 13	20 11		n.a.	W 9
T 10	5 20	9 43	3 0	5 25	0 15	18 50	1 20	4 26	0 25	20 36	0 11	23 15	0 54	23 57	0 28	2 31	1 47	31 26	10 10	22 6	22 13	20 12		n.a.	T 10
F 11	5 43	4 28	3 48	6 9	0 8	19 13	1 23	4 43	0 24	20 39	0 11	23 14	0 54	23 57	0 28	2 30	1 47	31 26	10 9	22 8	22 14	20 14		n.a.	F 11
S 12	6 7	0s53	4 24	6 52	0 2	19 35	1 25	5 0	0 24	20 41	0 11	23 14	0 54	23 57	0 28	2 29	1 47	31 26	10 9	22 9	22 14	20 16		n.a.	S 12
S 13	6 31	6 8	4 48	7 35	0s 5	19 57	1 28	5 17	0 23	20 44	0 11	23 14	0 54	23 56	0 28	2 28	1 47	31 26	10 9	22 11	22 15	20 18		n.a.	S 13
M14	6 54	11 6	4 59	8 17	0 11	20 19	1 30	5 34	0 23	20 46	0 10	23 14	0 54	23 56	0 28	2 28	1 47	31 26	10 9	22 13	22 15	20 20		n.a.	M14
T 15	7 17	15 36	4 56	8 59	0 18	20 39	1 33	5 51	0 22	20 49	0 10	23 13	0 54	23 56	0 28	2 27	1 47	31 25	10 9	22 15	22 16	20 21		n.a.	T 15
W16	7 41	19 29	4 40	9 41	0 24	21 0	1 35	6 8	0 22	20 51	0 10	23 13	0 54	23 56	0 28	2 26	1 47	31 25	10 8	22 18	22 16	20 23		n.a.	W16
T 17	8 4	22 33	4 12	10 22	0 31	21 19	1 38	6 25	0 21	20 53	0 10	23 13	0 54	23 56	0 28	2 25	1 48	31 25	10 8	22 19	22 16	20 25		n.a.	T 17
F 18	8 27	24 40	3 33	11 2	0 37	21 39	1 40	6 42	0 20	20 56	0 10	23 12	0 54	23 56	0 28	2 24	1 48	31 25	10 8	22 21	22 17	20 27		n.a.	F 18
S 19	8 50	25 41	2 45	11 42	0 43	21 57	1 43	6 59	0 20	20 58	0 10	23 12	0 54	23 56	0 28	2 23	1 48	31 24	10 8	22 22	22 17	20 28		n.a.	S 19
S 20	9 13	25 31	1 49	12 22	0 50	22 15	1 45	7 16	0 19	21 1	0 10	23 12	0 54	23 56	0 28	2 23	1 48	31 24	10 8	22 22	22 18	20 30		n.a.	S 20
M21	9 35	24 9	0 48	13 1	0 56	22 32	1 47	7 33	0 19	21 3	0 9	23 11	0 54	23 56	0 28	2 22	1 48	31 24	10 7	22 22	22 18	20 32		n.a.	M21
T 22	9 58	21 35	0n17	13 39	1 2	22 49	1 49	7 49	0 18	21 6	0 9	23 11	0 54	23 56	0 28	2 21	1 48	31 24	10 7	22 22	22 19	20 34		n.a.	T 22
W23	10 20	17 55	1 24	14 16	1 8	23 5	1 52	8 6	0 17	21 8	0 9	23 11	0 54	23 55	0 28	2 20	1 48	31 23	10 7	22 22	22 19	20 35		n.a.	W23
T 24	10 42	13 17	2 27	14 53	1 14	23 21	1 54	8 23	0 17	21 10	0 9	23 10	0 54	23 55	0 28	2 19	1 48	31 23	10 7	22 23	22 20	20 37		n.a.	T 24
F 25	11 4	7 51	3 25	15 29	1 19	23 36	1 56	8 40	0 16	21 13	0 9	23 10	0 54	23 55	0 28	2 19	1 48	31 23	10 7	22 23	22 20	20 39		n.a.	F 25
S 26	11 26	1 50	4 13	16 5	1 25	23 50	1 58	8 56	0 16	21 15	0 9	23 9	0 54	23 55	0 28	2 18	1 48	31 23	10 6	22 24	22 21	20 41		n.a.	S 26
S 27	11 48	4n28	4 46	16 40	1 30	24 3	1 59	9 13	0 15	21 18	0 9	23 9	0 54	23 55	0 28	2 17	1 48	31 22	10 6	22 25	22 21	20 42		n.a.	S 27
M28	12 9	10 41	5 0	17 13	1 35	24 16	2 1	9 29	0 14	21 20	0 9	23 8	0 54	23 55	0 28	2 16	1 48	31 22	10 6	22 27	22 21	20 44		n.a.	M28
T 29	12 30	16 22	4 54	17 46	1 40	24 28	2 3	9 46	0 14	21 22	0 9	23 8	0 54	23 55	0 28	2 16	1 48	31 22	10 6	22 28	22 22	20 46		n.a.	T 29
W30	12 51	21 2	4 26	18 19	1 45	24 40	2 5	10 2	0 13	21 25	0 8	23 7	0 54	23 55	0 28	2 15	1 48	31 21	10 5	22 30	22 22	20 47		n.a.	W30
T 31	13s12	24n13	3n40	18s50	1s50	24s50	2s 6	10s18	0n13	21s27	0n 8	23s 7	0s54	23s54	0s28	2n14	1n48	31s21	10s 5	22s31	22s23	20s49		n.a.	T 31

Julian Day Number = 1653029.5, Delta T = 03h29m56s
Ecliptic obliquity = 23°43'08, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'12, Lahiri = - 6°32'12 Julian Calendar 1 Oct. 188 BCE == Greg. Calendar 28 Sept. 188 BCE

The year -187 astronomical counting style corresponds to year 188 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 188 BCE
geocentric

NOVEMBER 188 BCE (-187) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 26 27	5♏36'58	16♊ 4	18♏26	15♐13	27♎40	6♐23	19♑58	8♑33	28♍34	24♑40	17°R45	18♑46	14♏41	n.a.	F 1
S 2	2 30 23	6°37'57	0♋37	19°57	16°25	28°23	6°36	20° 1	8°35	28°36	24°40	17♑41	18°43	14°48	n.a.	S 2
S 3	2 34 20	7°38'57	14°42	21°28	17°37	29° 7	6°49	20° 5	8°38	28°38	24°41	17°D40	18°40	14°55	n.a.	S 3
M 4	2 38 17	8°39'58	28°20	22°59	18°49	29°50	7° 2	20° 9	8°40	28°40	24°41	17°41	18°36	15° 2	n.a.	M 4
T 5	2 42 13	9°41'01	11♌32	24°29	20° 1	0♏33	7°15	20°13	8°42	28°42	24°42	17°R41	18°33	15° 8	n.a.	T 5
W 6	2 46 10	10°42'05	24°22	25°59	21°12	1°17	7°28	20°16	8°44	28°43	24°43	17°40	18°30	15°15	n.a.	W 6
T 7	2 50 6	11°43'10	6♍55	27°28	22°24	2° 0	7°41	20°20	8°46	28°45	24°43	17°37	18°27	15°22	n.a.	T 7
F 8	2 54 3	12°44'16	19°14	28°57	23°36	2°44	7°55	20°25	8°49	28°47	24°44	17°31	18°24	15°28	n.a.	F 8
S 9	2 57 59	13°45'23	1♎22	0♐26	24°47	3°27	8° 8	20°29	8°51	28°49	24°45	17°23	18°21	15°35	n.a.	S 9
S 10	3 1 56	14°46'31	13°23	1°53	25°59	4°11	8°21	20°33	8°53	28°50	24°45	17°12	18°17	15°42	n.a.	S 10
M11	3 5 52	15°47'41	25°20	3°20	27°10	4°54	8°35	20°37	8°56	28°52	24°46	17° 0	18°14	15°48	n.a.	M11
T 12	3 9 49	16°48'51	7♏12	4°46	28°22	5°38	8°48	20°42	8°58	28°54	24°47	16°47	18°11	15°55	n.a.	T 12
W13	3 13 46	17°50'02	19° 4	6°10	29°33	6°22	9° 1	20°46	9° 1	28°55	24°48	16°35	18° 8	16° 2	n.a.	W13
T 14	3 17 42	18°51'13	0♐55	7°33	0♑44	7° 6	9°15	20°51	9° 3	28°57	24°49	16°25	18° 5	16° 9	n.a.	T 14
F 15	3 21 39	19°52'26	12°47	8°54	1°55	7°49	9°29	20°55	9° 6	28°59	24°50	16°17	18° 2	16°15	n.a.	F 15
S 16	3 25 35	20°53'38	24°42	10°13	3° 7	8°33	9°42	21° 0	9° 8	29° 0	24°50	16°12	17°58	16°22	n.a.	S 16
S 17	3 29 32	21°54'52	6♑43	11°30	4°18	9°17	9°56	21° 5	9°11	29° 2	24°51	16° 9	17°55	16°29	n.a.	S 17
M18	3 33 28	22°56'05	18°53	12°44	5°28	10° 1	10° 9	21°10	9°13	29° 3	24°52	16°D 9	17°52	16°35	n.a.	M18
T 19	3 37 25	23°57'19	1♒15	13°55	6°39	10°45	10°23	21°15	9°16	29° 5	24°53	16° 9	17°49	16°42	n.a.	T 19
W20	3 41 22	24°58'33	13°55	15° 2	7°50	11°29	10°37	21°20	9°19	29° 6	24°54	16°11	17°46	16°49	n.a.	W20
T 21	3 45 18	25°59'47	26°56	16° 4	9° 0	12°13	10°51	21°25	9°22	29° 8	24°55	16°R11	17°42	16°56	n.a.	T 21
F 22	3 49 15	27° 1'01	10♓22	17° 2	10°11	12°57	11° 4	21°30	9°24	29° 9	24°56	16°10	17°39	17° 2	n.a.	F 22
S 23	3 53 11	28° 2'16	24°16	17°54	11°21	13°41	11°18	21°35	9°27	29°10	24°57	16° 7	17°36	17° 9	n.a.	S 23
S 24	3 57 8	29° 3'30	8♈37	18°39	12°31	14°26	11°32	21°40	9°30	29°12	24°58	16° 2	17°33	17°16	n.a.	S 24
M25	4 1 4	0♐ 4'44	23°25	19°17	13°41	15°10	11°46	21°46	9°33	29°13	25° 0	15°56	17°30	17°22	n.a.	M25
T 26	4 5 1	1° 5'58	8♉31	19°46	14°51	15°54	12° 0	21°51	9°36	29°14	25° 1	15°49	17°27	17°29	n.a.	T 26
W27	4 8 57	2° 7'13	23°48	20° 6	16° 1	16°38	12°14	21°57	9°39	29°16	25° 2	15°42	17°23	17°36	n.a.	W27
T 28	4 12 54	3° 8'27	9♊ 4	20°R16	17°11	17°23	12°27	22° 2	9°42	29°17	25° 3	15°36	17°20	17°42	n.a.	T 28
F 29	4 16 51	4° 9'42	24° 9	20°15	18°20	18° 7	12°41	22° 8	9°45	29°18	25° 4	15°32	17°17	17°49	n.a.	F 29
S 30	4 20 47	5♐10'57	8♋53	20♐ 3	19♑30	18♏52	12♐55	22♑14	9♑48	29♍19	25♑ 5	15°D30	17♑14	17♏56	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13s33	25n37	2n39	19s20	1s54	25s 0	2s 8	10s35	0n12	21s30	0n 8	23s 6	0s54	23s54	0s28	2n13	1n48	31s21	10s 5	22s32	22s23	20s51		n.a.
S 2	13 53	25 12	1 29	19 49	1 58	25 9	2 9	10 51	0 11	21 32	0 8	23 6	0 54	23 54	0 28	2 13	1 48	31 21	10 5	22 32	22 24	20 52		n.a.
S 3	14 13	23 9	0 16	20 18	2 2	25 18	2 11	11 7	0 11	21 34	0 8	23 5	0 54	23 54	0 28	2 12	1 48	31 20	10 5	22 32	22 24	20 54		n.a.
M 4	14 33	19 49	0s56	20 45	2 5	25 26	2 12	11 23	0 10	21 37	0 8	23 5	0 54	23 54	0 28	2 11	1 48	31 20	10 4	22 32	22 25	20 56		n.a.
T 5	14 53	15 33	2 3	21 11	2 8	25 33	2 13	11 39	0 10	21 39	0 8	23 4	0 54	23 54	0 28	2 11	1 48	31 20	10 4	22 32	22 25	20 57		n.a.
W 6	15 12	10 42	3 2	21 36	2 11	25 39	2 14	11 55	0 9	21 41	0 8	23 4	0 54	23 53	0 28	2 10	1 48	31 19	10 4	22 32	22 25	20 59		n.a.
T 7	15 32	5 31	3 50	21 59	2 13	25 45	2 15	12 11	0 8	21 43	0 7	23 3	0 54	23 53	0 28	2 9	1 48	31 19	10 4	22 33	22 26	21 1		n.a.
F 8	15 51	0 13	4 27	22 22	2 15	25 50	2 16	12 26	0 8	21 46	0 7	23 2	0 54	23 53	0 28	2 9	1 48	31 19	10 4	22 33	22 26	21 2		n.a.
S 9	16 9	5s 0	4 51	22 43	2 17	25 54	2 17	12 42	0 7	21 48	0 7	23 2	0 54	23 53	0 28	2 8	1 48	31 18	10 3	22 34	22 27	21 4		n.a.
S 10	16 27	9 58	5 2	23 2	2 18	25 57	2 18	12 58	0 6	21 50	0 7	23 1	0 54	23 53	0 28	2 7	1 48	31 18	10 3	22 36	22 27	21 6		n.a.
M11	16 46	14 33	5 0	23 20	2 19	26 0	2 18	13 13	0 6	21 53	0 7	23 0	0 54	23 53	0 28	2 7	1 48	31 18	10 3	22 37	22 28	21 7		n.a.
T 12	17 3	18 33	4 44	23 37	2 19	26 1	2 19	13 28	0 5	21 55	0 7	23 0	0 54	23 52	0 28	2 6	1 49	31 17	10 3	22 39	22 28	21 9		n.a.
W13	17 21	21 48	4 16	23 52	2 18	26 2	2 19	13 44	0 5	21 57	0 7	22 59	0 54	23 52	0 28	2 5	1 49	31 17	10 3	22 41	22 28	21 11		n.a.
T 14	17 38	24 7	3 37	24 5	2 17	26 3	2 20	13 59	0 4	21 59	0 7	22 58	0 54	23 52	0 28	2 5	1 49	31 17	10 3	22 42	22 29	21 12		n.a.
F 15	17 55	25 23	2 49	24 16	2 16	26 2	2 20	14 14	0 3	22 1	0 7	22 58	0 54	23 52	0 28	2 4	1 49	31 16	10 2	22 43	22 29	21 14		n.a.
S 16	18 11	25 29	1 52	24 26	2 13	26 1	2 20	14 29	0 3	22 4	0 6	22 57	0 54	23 52	0 28	2 4	1 49	31 16	10 2	22 43	22 30	21 15		n.a.
S 17	18 27	24 23	0 50	24 34	2 10	25 59	2 20	14 43	0 2	22 6	0 6	22 56	0 54	23 51	0 28	2 3	1 49	31 16	10 2	22 44	22 30	21 17		n.a.
M18	18 43	22 8	0n15	24 40	2 6	25 56	2 20	14 58	0 1	22 8	0 6	22 55	0 54	23 51	0 28	2 2	1 49	31 15	10 2	22 44	22 31	21 18		n.a.
T 19	18 59	18 48	1 20	24 44	2 1	25 53	2 20	15 13	0 1	22 10	0 6	22 54	0 54	23 51	0 28	2 2	1 49	31 15	10 2	22 44	22 31	21 20		n.a.
W20	19 14	14 33	2 24	24 46	1 55	25 48	2 20	15 27	0 0	22 12	0 6	22 54	0 54	23 51	0 28	2 1	1 49	31 14	10 1	22 44	22 31	21 22		n.a.
T 21	19 29	9 31	3 22	24 46	1 48	25 43	2 19	15 42	0s 1	22 14	0 6	22 53	0 54	23 51	0 28	2 1	1 49	31 14	10 1	22 43	22 32	21 23		n.a.
F 22	19 43	3 55	4 10	24 44	1 40	25 38	2 19	15 56	0 1	22 16	0 6	22 52	0 54	23 50	0 28	2 0	1 49	31 14	10 1	22 44	22 32	21 25		n.a.
S 23	19 57	2n 4	4 46	24 40	1 31	25 31	2 18	16 10	0 2	22 18	0 6	22 51	0 54	23 50	0 28	2 0	1 49	31 13	10 1	22 44	22 33	21 26		n.a.
S 24	20 11	8 8	5 6	24 33	1 20	25 24	2 17	16 24	0 3	22 20	0 6	22 50	0 54	23 50	0 28	1 59	1 49	31 13	10 1	22 45	22 33	21 28		n.a.
M25	20 24	13 55	5 6	24 25	1 8	25 16	2 16	16 38	0 3	22 22	0 5	22 50	0 54	23 50	0 28	1 59	1 49	31 13	10 1	22 45	22 34	21 29		n.a.
T 26	20 37	18 59	4 45	24 14	0 55	25 7	2 16	16 51	0 4	22 24	0 5	22 49	0 54	23 50	0 28	1 58	1 49	31 12	10 0	22 46	22 34	21 31		n.a.
W27	20 50	22 52	4 3	24 1	0 41	24 58	2 14	17 5	0 5	22 26	0 5	22 48	0 54	23 49	0 28	1 58	1 49	31 12	10 0	22 47	22 34	21 32		n.a.
T 28	21 2	25 6	3 4	23 47	0 25	24 48	2 13	17 18	0 5	22 28	0 5	22 47	0 54	23 49	0 28	1 58	1 49	31 11	10 0	22 48	22 35	21 34		n.a.
F 29	21 13	25 28	1 53	23 30	0 8	24 37	2 12	17 31	0 6	22 30	0 5	22 46	0 54	23 49	0 28	1 57	1 49	31 11	10 0	22 48	22 35	21 35		n.a.
S 30	21s25	24n 1	0n36	23s11	0n10	24s26	2s11	17s44	0s 7	22s32	0n 5	22s45	0s54	23s49	0s28	1n57	1n50	31s11	10s 0	22s48	22s36	21s37		n.a.

Julian Day Number = 1653060.5, Delta T = 03h29m55s
Ecliptic obliquity = 23°43'07, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'08, Lahiri = - 6°32'08 Julian Calendar 1 Nov. 188 BCE == Greg. Calendar 29 Oct. 188 BCE

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ASTRODIENST EPHEMERIS for the year 188 BCE
geocentric

DECEMBER 188 BCE (-187) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 24 44	6♐12'12	23♋12	19°R39	20♑39	19♏36	13♐ 9	22♑19	9♑51	29♍20	25♑ 7	15♑30	17♑11	18♏ 3	n.a.	S 1
M 2	4 28 40	7°13'27	7♌ 2	19♐ 2	21°48	20°21	13°23	22°25	9°54	29°21	25° 8	15°32	17° 8	18° 9	n.a.	M 2
T 3	4 32 37	8°14'42	20°24	18°15	22°57	21° 5	13°37	22°31	9°57	29°23	25° 9	15°33	17° 4	18°16	n.a.	T 3
W 4	4 36 33	9°15'58	3♍21	17°17	24° 6	21°50	13°51	22°37	10° 0	29°24	25°10	15°34	17° 1	18°23	n.a.	W 4
T 5	4 40 30	10°17'13	15°56	16°11	25°15	22°35	14° 5	22°43	10° 3	29°25	25°12	15°R34	16°58	18°29	n.a.	T 5
F 6	4 44 26	11°18'29	28°14	14°57	26°23	23°19	14°19	22°49	10° 6	29°26	25°13	15°33	16°55	18°36	n.a.	F 6
S 7	4 48 23	12°19'45	10♎20	13°38	27°31	24° 4	14°33	22°55	10°10	29°27	25°14	15°30	16°52	18°43	n.a.	S 7
S 8	4 52 20	13°21'00	22°16	12°18	28°39	24°49	14°47	23° 1	10°13	29°27	25°16	15°25	16°48	18°50	n.a.	S 8
M 9	4 56 16	14°22'16	4♏ 8	10°58	29°47	25°34	15° 1	23° 7	10°16	29°28	25°17	15°20	16°45	18°56	n.a.	M 9
T 10	5 0 13	15°23'31	15°58	9°41	0♒55	26°19	15°15	23°13	10°19	29°29	25°18	15°14	16°42	19° 3	n.a.	T 10
W11	5 4 9	16°24'47	27°49	8°30	2° 3	27° 4	15°29	23°20	10°23	29°30	25°20	15° 8	16°39	19°10	n.a.	W11
T 12	5 8 6	17°26'01	9♐43	7°25	3°10	27°49	15°43	23°26	10°26	29°31	25°21	15° 3	16°36	19°16	n.a.	T 12
F 13	5 12 2	18°27'16	21°42	6°29	4°17	28°34	15°57	23°33	10°29	29°32	25°23	15° 0	16°33	19°23	n.a.	F 13
S 14	5 15 59	19°28'30	3♑46	5°41	5°24	29°19	16°11	23°39	10°33	29°32	25°24	14°58	16°29	19°30	n.a.	S 14
S 15	5 19 56	20°29'43	15°59	5° 4	6°31	0♐ 4	16°25	23°45	10°36	29°33	25°26	14°D58	16°26	19°36	n.a.	S 15
M16	5 23 52	21°30'56	28°21	4°36	7°37	0°49	16°39	23°52	10°39	29°34	25°27	14°58	16°23	19°43	n.a.	M16
T 17	5 27 49	22°32'08	10♒55	4°18	8°43	1°34	16°53	23°58	10°43	29°34	25°29	15° 0	16°20	19°50	n.a.	T 17
W18	5 31 45	23°33'19	23°43	4° 8	9°49	2°19	17° 7	24° 5	10°46	29°35	25°30	15° 1	16°17	19°57	n.a.	W18
T 19	5 35 42	24°34'29	6♓48	4°D 8	10°55	3° 4	17°21	24°12	10°49	29°35	25°32	15° 3	16°14	20° 3	n.a.	T 19
F 20	5 39 38	25°35'38	20°12	4°15	12° 1	3°50	17°35	24°18	10°53	29°36	25°33	15°R 3	16°10	20°10	n.a.	F 20
S 21	5 43 35	26°36'46	3♈56	4°30	13° 6	4°35	17°49	24°25	10°56	29°36	25°35	15° 3	16° 7	20°17	n.a.	S 21
S 22	5 47 31	27°37'52	18° 3	4°52	14°11	5°20	18° 3	24°32	11° 0	29°37	25°36	15° 2	16° 4	20°23	n.a.	S 22
M23	5 51 28	28°38'58	2♉29	5°20	15°15	6° 6	18°17	24°39	11° 3	29°37	25°38	15° 1	16° 1	20°30	n.a.	M23
T 24	5 55 25	29°40'02	17°13	5°54	16°19	6°51	18°31	24°45	11° 7	29°38	25°39	14°59	15°58	20°37	n.a.	T 24
W25	5 59 21	0♑41'06	2♊ 7	6°33	17°23	7°36	18°45	24°52	11°10	29°38	25°41	14°57	15°54	20°43	n.a.	W25
T 26	6 3 18	1°42'08	17° 5	7°17	18°27	8°22	18°59	24°59	11°14	29°38	25°43	14°55	15°51	20°50	n.a.	T 26
F 27	6 7 14	2°43'10	1♋58	8° 4	19°30	9° 7	19°13	25° 6	11°17	29°39	25°44	14°54	15°48	20°57	n.a.	F 27
S 28	6 11 11	3°44'10	16°38	8°56	20°33	9°53	19°27	25°13	11°20	29°39	25°46	14°D54	15°45	21° 4	n.a.	S 28
S 29	6 15 7	4°45'09	0♌59	9°51	21°36	10°38	19°40	25°20	11°24	29°39	25°47	14°55	15°42	21°10	n.a.	S 29
M30	6 19 4	5°46'07	14°55	10°49	22°38	11°24	19°54	25°27	11°27	29°39	25°49	14°55	15°39	21°17	n.a.	M30
T 31	6 23 0	6♑47'04	28♌26	11♐51	23♒40	12♐10	20♐ 8	25♑34	11♑31	29♍40	25♑51	14♑56	15♑35	21♏24	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	21s36	21n 1	0s42	22s50	0n28	24s14	2s 9	17s57	0s 7	22s34	0n 5	22s44	0s54	23s48	0s28	1n56	1n50	31s10	10s 0	22s48	22s36	21s38			n.a.
M 2	21 46	16 53	1 54	22 28	0 48	24 1	2 7	18 10	0 8	22 36	0 5	22 43	0 54	23 48	0 28	1 56	1 50	31 10	10 0	22 48	22 36	21 40			n.a.
T 3	21 56	12 2	2 58	22 4	1 8	23 48	2 5	18 23	0 9	22 37	0 5	22 42	0 54	23 48	0 28	1 56	1 50	31 10	9 59	22 48	22 37	21 41			n.a.
W 4	22 6	6 48	3 51	21 39	1 28	23 34	2 4	18 35	0 9	22 39	0 4	22 41	0 54	23 48	0 28	1 55	1 50	31 9	9 59	22 48	22 37	21 43			n.a.
T 5	22 15	1 27	4 31	21 13	1 47	23 20	2 2	18 47	0 10	22 41	0 4	22 40	0 54	23 47	0 28	1 55	1 50	31 9	9 59	22 48	22 38	21 44			n.a.
F 6	22 24	3s50	4 58	20 47	2 6	23 4	1 59	19 0	0 11	22 43	0 4	22 39	0 54	23 47	0 28	1 54	1 50	31 8	9 59	22 48	22 38	21 46			n.a.
S 7	22 32	8 53	5 10	20 21	2 22	22 49	1 57	19 11	0 11	22 45	0 4	22 38	0 54	23 47	0 28	1 54	1 50	31 8	9 59	22 48	22 38	21 47			n.a.
S 8	22 40	13 33	5 10	19 56	2 38	22 32	1 55	19 23	0 12	22 46	0 4	22 37	0 54	23 47	0 28	1 54	1 50	31 8	9 59	22 49	22 39	21 49			n.a.
M 9	22 47	17 40	4 55	19 32	2 51	22 15	1 52	19 35	0 13	22 48	0 4	22 36	0 54	23 46	0 28	1 54	1 50	31 7	9 59	22 50	22 39	21 50			n.a.
T 10	22 54	21 5	4 28	19 10	3 1	21 58	1 49	19 46	0 13	22 50	0 4	22 35	0 54	23 46	0 28	1 53	1 50	31 7	9 59	22 50	22 40	21 52			n.a.
W11	23 1	23 38	3 50	18 51	3 10	21 40	1 47	19 57	0 14	22 51	0 4	22 34	0 54	23 46	0 28	1 53	1 50	31 6	9 58	22 51	22 40	21 53			n.a.
T 12	23 7	25 9	3 1	18 35	3 15	21 21	1 44	20 8	0 15	22 53	0 4	22 33	0 54	23 46	0 28	1 53	1 50	31 6	9 58	22 51	22 40	21 55			n.a.
F 13	23 13	25 31	2 4	18 23	3 19	21 2	1 41	20 19	0 15	22 55	0 4	22 32	0 54	23 45	0 28	1 52	1 50	31 6	9 58	22 52	22 41	21 56			n.a.
S 14	23 18	24 41	1 1	18 13	3 20	20 43	1 37	20 30	0 16	22 56	0 3	22 31	0 54	23 45	0 28	1 52	1 50	31 5	9 58	22 52	22 41	21 57			n.a.
S 15	23 22	22 39	0n 6	18 7	3 20	20 23	1 34	20 40	0 17	22 58	0 3	22 30	0 54	23 45	0 28	1 52	1 50	31 5	9 58	22 52	22 42	21 59			n.a.
M16	23 27	19 32	1 13	18 4	3 17	20 2	1 31	20 51	0 17	22 59	0 3	22 29	0 54	23 45	0 28	1 52	1 51	31 5	9 58	22 52	22 42	22 0			n.a.
T 17	23 30	15 29	2 18	18 5	3 14	19 41	1 27	21 1	0 18	23 1	0 3	22 27	0 54	23 44	0 28	1 52	1 51	31 4	9 58	22 52	22 42	22 2			n.a.
W18	23 34	10 40	3 18	18 8	3 9	19 20	1 23	21 10	0 19	23 2	0 3	22 26	0 54	23 44	0 28	1 51	1 51	31 4	9 58	22 52	22 43	22 3			n.a.
T 19	23 36	5 17	4 8	18 14	3 2	18 58	1 19	21 20	0 19	23 4	0 3	22 25	0 54	23 44	0 28	1 51	1 51	31 3	9 58	22 52	22 43	22 4			n.a.
F 20	23 39	0n28	4 47	18 22	2 55	18 36	1 15	21 30	0 20	23 5	0 3	22 24	0 54	23 43	0 28	1 51	1 51	31 3	9 58	22 51	22 44	22 6			n.a.
S 21	23 40	6 19	5 10	18 32	2 48	18 13	1 11	21 39	0 21	23 6	0 3	22 23	0 55	23 43	0 28	1 51	1 51	31 3	9 58	22 51	22 44	22 7			n.a.
S 22	23 42	12 0	5 15	18 45	2 39	17 50	1 7	21 48	0 22	23 8	0 3	22 22	0 55	23 43	0 28	1 51	1 51	31 2	9 57	22 52	22 44	22 9			n.a.
M23	23 43	17 11	5 1	18 58	2 31	17 27	1 3	21 56	0 22	23 9	0 2	22 20	0 55	23 43	0 28	1 51	1 51	31 2	9 57	22 52	22 45	22 10			n.a.
T 24	23 43	21 26	4 28	19 13	2 22	17 3	0 58	22 5	0 23	23 11	0 2	22 19	0 55	23 42	0 28	1 51	1 51	31 1	9 57	22 52	22 45	22 11			n.a.
W25	23 43	24 20	3 35	19 29	2 12	16 39	0 53	22 13	0 24	23 12	0 2	22 18	0 55	23 42	0 28	1 51	1 51	31 1	9 57	22 52	22 45	22 13			n.a.
T 26	23 42	25 32	2 28	19 46	2 3	16 15	0 49	22 21	0 24	23 13	0 2	22 17	0 55	23 42	0 28	1 50	1 51	31 1	9 57	22 52	22 46	22 14			n.a.
F 27	23 41	24 53	1 11	20 3	1 53	15 50	0 44	22 29	0 25	23 14	0 2	22 15	0 55	23 41	0 28	1 50	1 51	31 0	9 57	22 52	22 46	22 15			n.a.
S 28	23 40	22 31	0s10	20 20	1 44	15 25	0 39	22 37	0 26	23 16	0 2	22 14	0 55	23 41	0 28	1 50	1 51	31 0	9 57	22 52	22 47	22 17			n.a.
S 29	23 38	18 45	1 28	20 38	1 34	15 0	0 33	22 44	0 26	23 17	0 2	22 13	0 55	23 41	0 28	1 50	1 51	31 0	9 57	22 52	22 47	22 18			n.a.
M30	23 35	14 1	2 39	20 56	1 24	14 34	0 28	22 51	0 27	23 18	0 2	22 12	0 55	23 41	0 28	1 50	1 51	30 59	9 57	22 52	22 47	22 19			n.a.
T 31	23s33	8n44	3s39	21s14	1n15	14s 9	0s22	22s58	0s28	23s19	0n 2	22s10	0s55	23s40	0s28	1n50	1n52	30s59	9s57	22s52	22s48	22s21			n.a.

Julian Day Number = 1653090.5, Delta T = 03h29m54s
Ecliptic obliquity = 23°43'07, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'04, Lahiri = - 6°32'04 Julian Calendar 1 Dec. 188 BCE == Greg. Calendar 28 Nov. 188 BCE

The year -187 astronomical counting style corresponds to year 188 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 187 BCE
geocentric

JANUARY 187 BCE (-186) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 26 57	7♑48'01	11♍31	12♐54	24♒41	12♐55	20♐22	25♑41	11♑34	29♍40	25♑52	14♑57	15♑32	21♏30	n.a.	W 1
T 2	6 30 54	8°48'56	24°14	14° 1	25°42	13°41	20°35	25°48	11°38	29°40	25°54	14°57	15°29	21°37	n.a.	T 2
F 3	6 34 50	9°49'50	6♎36	15° 9	26°42	14°27	20°49	25°55	11°41	29°40	25°56	14°R58	15°26	21°44	n.a.	F 3
S 4	6 38 47	10°50'43	18°44	16°19	27°43	15°12	21° 3	26° 2	11°45	29°R40	25°57	14°58	15°23	21°50	n.a.	S 4
S 5	6 42 43	11°51'36	0♏41	17°32	28°42	15°58	21°16	26°10	11°48	29°40	25°59	14°57	15°20	21°57	n.a.	S 5
M 6	6 46 40	12°52'27	12°33	18°46	29°41	16°44	21°30	26°17	11°52	29°40	26° 1	14°57	15°16	22° 4	n.a.	M 6
T 7	6 50 36	13°53'17	24°23	20° 1	0♓40	17°30	21°43	26°24	11°56	29°40	26° 3	14°57	15°13	22°11	n.a.	T 7
W 8	6 54 33	14°54'06	6♐15	21°18	1°38	18°16	21°57	26°31	11°59	29°40	26° 4	14°D57	15°10	22°17	n.a.	W 8
T 9	6 58 29	15°54'54	18°12	22°37	2°36	19° 2	22°10	26°38	12° 3	29°39	26° 6	14°57	15° 7	22°24	n.a.	T 9
F 10	7 2 26	16°55'40	0♑18	23°57	3°33	19°48	22°24	26°46	12° 6	29°39	26° 8	14°57	15° 4	22°31	n.a.	F 10
S 11	7 6 23	17°56'25	12°35	25°18	4°30	20°33	22°37	26°53	12°10	29°39	26° 9	14°R57	15° 0	22°37	n.a.	S 11
S 12	7 10 19	18°57'09	25° 3	26°40	5°26	21°19	22°51	27° 0	12°13	29°39	26°11	14°57	14°57	22°44	n.a.	S 12
M13	7 14 16	19°57'51	7♒45	28° 3	6°21	22° 5	23° 4	27° 7	12°17	29°38	26°13	14°57	14°54	22°51	n.a.	M13
T 14	7 18 12	20°58'31	20°39	29°28	7°16	22°51	23°17	27°15	12°20	29°38	26°15	14°56	14°51	22°57	n.a.	T 14
W15	7 22 9	21°59'10	3♓47	0♑54	8°10	23°38	23°30	27°22	12°23	29°38	26°16	14°55	14°48	23° 4	n.a.	W15
T 16	7 26 5	22°59'46	17° 9	2°20	9° 3	24°24	23°43	27°29	12°27	29°37	26°18	14°54	14°45	23°11	n.a.	T 16
F 17	7 30 2	24° 0'21	0♈43	3°48	9°56	25°10	23°57	27°36	12°30	29°37	26°20	14°53	14°41	23°17	n.a.	F 17
S 18	7 33 59	25° 0'54	14°31	5°17	10°48	25°56	24°10	27°44	12°34	29°36	26°21	14°53	14°38	23°24	n.a.	S 18
S 19	7 37 55	26° 1'25	28°32	6°47	11°39	26°42	24°23	27°51	12°37	29°36	26°23	14°D53	14°35	23°31	n.a.	S 19
M20	7 41 52	27° 1'54	12♉43	8°17	12°30	27°28	24°36	27°58	12°41	29°35	26°25	14°53	14°32	23°38	n.a.	M20
T 21	7 45 48	28° 2'20	27° 4	9°49	13°20	28°14	24°48	28° 6	12°44	29°35	26°27	14°54	14°29	23°44	n.a.	T 21
W22	7 49 45	29° 2'45	11♊31	11°22	14° 8	29° 0	25° 1	28°13	12°48	29°34	26°28	14°55	14°26	23°51	n.a.	W22
T 23	7 53 41	0♒ 3'08	26° 0	12°55	14°56	29°47	25°14	28°20	12°51	29°34	26°30	14°56	14°22	23°58	n.a.	T 23
F 24	7 57 38	1° 3'29	10♋27	14°30	15°43	0♑33	25°27	28°27	12°54	29°33	26°32	14°R57	14°19	24° 4	n.a.	F 24
S 25	8 1 34	2° 3'48	24°46	16° 5	16°29	1°19	25°39	28°35	12°58	29°32	26°34	14°56	14°16	24°11	n.a.	S 25
S 26	8 5 31	3° 4'05	8♌52	17°42	17°14	2° 5	25°52	28°42	13° 1	29°32	26°35	14°55	14°13	24°18	n.a.	S 26
M27	8 9 28	4° 4'20	22°41	19°19	17°58	2°52	26° 5	28°49	13° 4	29°31	26°37	14°53	14°10	24°24	n.a.	M27
T 28	8 13 24	5° 4'33	6♍10	20°58	18°41	3°38	26°17	28°57	13° 8	29°30	26°39	14°50	14° 6	24°31	n.a.	T 28
W29	8 17 21	6° 4'45	19°17	22°38	19°23	4°24	26°29	29° 4	13°11	29°29	26°40	14°47	14° 3	24°38	n.a.	W29
T 30	8 21 17	7° 4'54	2♎ 3	24°18	20° 4	5°11	26°42	29°11	13°14	29°29	26°42	14°44	14° 0	24°44	n.a.	T 30
F 31	8 25 14	8♒ 5'02	14♎30	26♑ 0	20♓43	5♑57	26♐54	29♑18	13♑18	29♍28	26♑44	14♑41	13♑57	24♏51	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	23s29	3n15	4s25	21s32	1n 5	13s43	0s17	23s 5	0s28	23s20	0n 2	22s 9	0s55	23s40	0s28	1n50	1n52	30s59	9s57	22s52	22s48	22s22		n.a.
T 2	23 25	2s13	4 57	21 50	0 56	13 17	0 11	23 11	0 29	23 21	0 1	22 8	0 55	23 40	0 28	1 50	1 52	30 58	9 57	22 52	22 48	22 23		n.a.
F 3	23 21	7 27	5 14	22 7	0 46	12 50	0 5	23 18	0 30	23 22	0 1	22 7	0 55	23 39	0 28	1 50	1 52	30 58	9 57	22 52	22 49	22 25		n.a.
S 4	23 16	12 17	5 17	22 23	0 37	12 24	0n 1	23 24	0 31	23 23	0 1	22 5	0 55	23 39	0 28	1 51	1 52	30 57	9 57	22 52	22 49	22 26		n.a.
S 5	23 11	16 36	5 6	22 40	0 28	11 57	0 7	23 29	0 31	23 25	0 1	22 4	0 55	23 39	0 28	1 51	1 52	30 57	9 57	22 52	22 50	22 27		n.a.
M 6	23 5	20 14	4 41	22 55	0 19	11 30	0 13	23 35	0 32	23 26	0 1	22 3	0 55	23 38	0 28	1 51	1 52	30 57	9 57	22 52	22 50	22 28		n.a.
T 7	22 59	23 3	4 5	23 10	0 11	11 4	0 20	23 40	0 33	23 26	0 1	22 1	0 55	23 38	0 28	1 51	1 52	30 56	9 57	22 52	22 50	22 30		n.a.
W 8	22 52	24 52	3 19	23 24	0 2	10 37	0 26	23 45	0 33	23 27	0 1	22 0	0 55	23 38	0 28	1 51	1 52	30 56	9 57	22 52	22 51	22 31		n.a.
T 9	22 45	25 34	2 23	23 37	0s 6	10 10	0 33	23 49	0 34	23 28	0 1	21 59	0 55	23 37	0 28	1 51	1 52	30 56	9 57	22 52	22 51	22 32		n.a.
F 10	22 38	25 4	1 20	23 49	0 14	9 42	0 40	23 54	0 35	23 29	0 1	21 57	0 55	23 37	0 28	1 51	1 52	30 55	9 57	22 52	22 51	22 34		n.a.
S 11	22 30	23 20	0 13	24 0	0 22	9 15	0 47	23 58	0 35	23 30	0 0	21 56	0 55	23 37	0 28	1 51	1 52	30 55	9 57	22 52	22 52	22 35		n.a.
S 12	22 22	20 27	0n56	24 10	0 30	8 48	0 54	24 2	0 36	23 31	0 0	21 55	0 55	23 37	0 28	1 51	1 52	30 55	9 57	22 52	22 52	22 36		n.a.
M13	22 13	16 34	2 3	24 19	0 37	8 21	1 1	24 5	0 37	23 32	0 0	21 53	0 56	23 36	0 28	1 52	1 52	30 54	9 57	22 52	22 52	22 37		n.a.
T 14	22 4	11 51	3 5	24 27	0 44	7 53	1 8	24 9	0 37	23 33	0 0	21 52	0 56	23 36	0 28	1 52	1 53	30 54	9 57	22 52	22 53	22 38		n.a.
W15	21 54	6 32	3 59	24 34	0 51	7 26	1 16	24 12	0 38	23 33	0 0	21 50	0 56	23 36	0 28	1 52	1 53	30 54	9 57	22 52	22 53	22 40		n.a.
T 16	21 44	0 50	4 41	24 40	0 58	6 59	1 23	24 15	0 39	23 34	0s 0	21 49	0 56	23 35	0 28	1 52	1 53	30 53	9 57	22 52	22 54	22 41		n.a.
F 17	21 33	4n59	5 7	24 44	1 4	6 32	1 31	24 17	0 39	23 35	0 0	21 48	0 56	23 35	0 28	1 52	1 53	30 53	9 57	22 53	22 54	22 42		n.a.
S 18	21 23	10 39	5 17	24 47	1 10	6 5	1 39	24 19	0 40	23 36	0 0	21 46	0 56	23 35	0 28	1 53	1 53	30 53	9 57	22 53	22 54	22 43		n.a.
S 19	21 11	15 51	5 8	24 49	1 16	5 38	1 47	24 21	0 41	23 36	0 0	21 45	0 56	23 34	0 28	1 53	1 53	30 52	9 57	22 53	22 55	22 45		n.a.
M20	21 0	20 17	4 40	24 49	1 22	5 11	1 55	24 23	0 41	23 37	0 0	21 43	0 56	23 34	0 28	1 53	1 53	30 52	9 57	22 53	22 55	22 46		n.a.
T 21	20 48	23 32	3 55	24 48	1 27	4 44	2 3	24 24	0 42	23 38	0 1	21 42	0 56	23 34	0 28	1 53	1 53	30 52	9 57	22 53	22 55	22 47		n.a.
W22	20 35	25 19	2 55	24 45	1 32	4 18	2 11	24 26	0 43	23 38	0 1	21 41	0 56	23 33	0 28	1 54	1 53	30 52	9 57	22 52	22 56	22 48		n.a.
T 23	20 23	25 22	1 43	24 41	1 37	3 52	2 20	24 27	0 43	23 39	0 1	21 39	0 56	23 33	0 28	1 54	1 53	30 51	9 57	22 52	22 56	22 49		n.a.
F 24	20 9	23 43	0 25	24 36	1 41	3 25	2 28	24 27	0 44	23 39	0 1	21 38	0 56	23 33	0 28	1 54	1 53	30 51	9 57	22 52	22 56	22 50		n.a.
S 25	19 56	20 32	0s54	24 29	1 45	2 59	2 37	24 27	0 45	23 40	0 1	21 36	0 56	23 32	0 28	1 55	1 53	30 51	9 58	22 52	22 57	22 52		n.a.
S 26	19 42	16 11	2 8	24 20	1 49	2 34	2 45	24 28	0 45	23 40	0 1	21 35	0 56	23 32	0 28	1 55	1 53	30 50	9 58	22 52	22 57	22 53		n.a.
M27	19 28	11 4	3 14	24 9	1 52	2 8	2 54	24 27	0 46	23 41	0 1	21 33	0 57	23 32	0 28	1 55	1 53	30 50	9 58	22 53	22 57	22 54		n.a.
T 28	19 13	5 33	4 6	23 57	1 55	1 43	3 3	24 27	0 47	23 41	0 1	21 32	0 57	23 31	0 28	1 56	1 53	30 50	9 58	22 53	22 58	22 55		n.a.
W29	18 58	0s 4	4 44	23 44	1 58	1 18	3 12	24 26	0 47	23 42	0 1	21 31	0 57	23 31	0 28	1 56	1 53	30 50	9 58	22 53	22 58	22 56		n.a.
T 30	18 43	5 30	5 7	23 28	2 0	0 54	3 22	24 25	0 48	23 42	0 2	21 29	0 57	23 31	0 28	1 57	1 53	30 49	9 58	22 54	22 58	22 57		n.a.
F 31	18s27	10s36	5s15	23s11	2s 2	0s30	3n31	24s24	0s49	23s43	0s 2	21s28	0s57	23s31	0s28	1n57	1n54	30s49	9s58	22s54	22s59	22s58		n.a.

Julian Day Number = 1653121.5, Delta T = 03h29m53s
Ecliptic obliquity = 23°43'06, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°39'00, Lahiri = - 6°31'59 Julian Calendar 1 Jan. 187 BCE == Greg. Calendar 29 Dec. 188 BCE

The year -186 astronomical counting style corresponds to year 187 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 187 BCE
geocentric

FEBRUARY 187 BCE (-186) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 29 10	9♒ 5'09	26♎41	27♑42	21♓21	6♑43	27♐ 6	29♑26	13♑21	29°R27	26♑46	14°R39	13♑54	24♏58	n.a.	S 1
S 2	8 33 7	10° 5'13	8♏40	29°26	21°58	7°30	27°18	29°33	13°24	29♍26	26°47	14°D39	13°51	25° 5	n.a.	S 2
M 3	8 37 3	11° 5'16	20°32	1♒11	22°34	8°16	27°30	29°40	13°27	29°25	26°49	14♑39	13°47	25°11	n.a.	M 3
T 4	8 41 0	12° 5'17	2♐23	2°57	23° 8	9° 2	27°42	29°47	13°31	29°24	26°51	14°40	13°44	25°18	n.a.	T 4
W 5	8 44 56	13° 5'17	14°16	4°44	23°41	9°49	27°54	29°54	13°34	29°23	26°52	14°42	13°41	25°25	n.a.	W 5
T 6	8 48 53	14° 5'15	26°16	6°32	24°12	10°35	28° 6	0♒ 2	13°37	29°22	26°54	14°44	13°38	25°31	n.a.	T 6
F 7	8 52 50	15° 5'11	8♑28	8°21	24°42	11°22	28°18	0° 9	13°40	29°21	26°56	14°R45	13°35	25°38	n.a.	F 7
S 8	8 56 46	16° 5'05	20°55	10°12	25°10	12° 8	28°30	0°16	13°43	29°20	26°57	14°45	13°32	25°45	n.a.	S 8
S 9	9 0 43	17° 4'57	3♒38	12° 3	25°37	12°55	28°41	0°23	13°46	29°19	26°59	14°43	13°28	25°51	n.a.	S 9
M10	9 4 39	18° 4'46	16°40	13°56	26° 1	13°41	28°53	0°30	13°49	29°18	27° 1	14°40	13°25	25°58	n.a.	M10
T 11	9 8 36	19° 4'34	29°58	15°50	26°24	14°28	29° 4	0°37	13°52	29°17	27° 2	14°36	13°22	26° 5	n.a.	T 11
W12	9 12 32	20° 4'20	13♓33	17°44	26°45	15°14	29°15	0°44	13°55	29°16	27° 4	14°30	13°19	26°11	n.a.	W12
T 13	9 16 29	21° 4'03	27°20	19°40	27° 5	16° 1	29°27	0°51	13°58	29°14	27° 6	14°24	13°16	26°18	n.a.	T 13
F 14	9 20 25	22° 3'44	11♈18	21°37	27°22	16°47	29°38	0°58	14° 1	29°13	27° 7	14°18	13°12	26°25	n.a.	F 14
S 15	9 24 22	23° 3'23	25°22	23°35	27°37	17°34	29°49	1° 5	14° 4	29°12	27° 9	14°14	13° 9	26°32	n.a.	S 15
S 16	9 28 19	24° 3'00	9♉31	25°34	27°50	18°20	29°59	1°12	14° 7	29°11	27°10	14°11	13° 6	26°38	n.a.	S 16
M17	9 32 15	25° 2'34	23°40	27°33	28° 1	19° 7	0♑11	1°19	14°10	29° 9	27°12	14°D10	13° 3	26°45	n.a.	M17
T 18	9 36 12	26° 2'05	7♊49	29°33	28° 9	19°53	0°21	1°26	14°13	29° 8	27°13	14°11	13° 0	26°52	n.a.	T 18
W19	9 40 8	27° 1'35	21°56	1♓34	28°16	20°40	0°32	1°33	14°16	29° 7	27°15	14°12	12°57	26°58	n.a.	W19
T 20	9 44 5	28° 1'01	6♋ 0	3°34	28°20	21°26	0°42	1°40	14°18	29° 5	27°17	14°13	12°53	27° 5	n.a.	T 20
F 21	9 48 1	29° 0'26	19°58	5°35	28°R21	22°13	0°53	1°46	14°21	29° 4	27°18	14°R13	12°50	27°12	n.a.	F 21
S 22	9 51 58	29°59'48	3♌50	7°36	28°20	22°59	1° 3	1°53	14°24	29° 3	27°20	14°12	12°47	27°18	n.a.	S 22
S 23	9 55 54	0♓59'07	17°31	9°37	28°17	23°46	1°14	2° 0	14°26	29° 1	27°21	14° 8	12°44	27°25	n.a.	S 23
M24	9 59 51	1°58'25	1♍ 0	11°36	28°11	24°32	1°24	2° 6	14°29	29° 0	27°23	14° 2	12°41	27°32	n.a.	M24
T 25	10 3 48	2°57'40	14°15	13°35	28° 3	25°19	1°34	2°13	14°32	28°59	27°24	13°54	12°37	27°38	n.a.	T 25
W26	10 7 44	3°56'53	27°13	15°33	27°52	26° 5	1°44	2°20	14°34	28°57	27°26	13°45	12°34	27°45	n.a.	W26
T 27	10 11 41	4°56'04	9♎54	17°28	27°38	26°52	1°53	2°26	14°37	28°56	27°27	13°36	12°31	27°52	n.a.	T 27
F 28	10 15 37	5♓55'13	22♎19	19♓22	27♓22	27♑38	2♑ 3	2♒33	14♑39	28♍54	27♑28	13♑27	12♑28	27♏58	n.a.	F 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	18s12	15s10	5s 8	22s52	2s 3	0s 6	3n40	24s22	0s49	23s43	0s 2	21s26	0s57	23s30	0s28	1n57	1n54	30s49	9s58	22s54	22s59	23s 0		n.a.	S 1
S 2	17 55	19 5	4 48	22 32	2 4	0n17	3 50	24 20	0 50	23 43	0 2	21 25	0 57	23 30	0 28	1 58	1 54	30 49	9 58	22 54	22 59	23 1		n.a.	S 2
M 3	17 39	22 11	4 15	22 9	2 5	0 40	3 59	24 18	0 51	23 44	0 2	21 23	0 57	23 30	0 28	1 58	1 54	30 48	9 58	22 54	23 0	23 2		n.a.	M 3
T 4	17 22	24 20	3 32	21 45	2 5	1 3	4 9	24 16	0 51	23 44	0 2	21 22	0 57	23 29	0 28	1 59	1 54	30 48	9 59	22 54	23 0	23 3		n.a.	T 4
W 5	17 5	25 25	2 40	21 19	2 4	1 24	4 18	24 13	0 52	23 44	0 2	21 20	0 57	23 29	0 28	1 59	1 54	30 48	9 59	22 54	23 0	23 4		n.a.	W 5
T 6	16 48	25 20	1 40	20 51	2 4	1 46	4 28	24 10	0 53	23 45	0 2	21 19	0 57	23 29	0 28	1 59	1 54	30 48	9 59	22 54	23 1	23 5		n.a.	T 6
F 7	16 30	24 1	0 34	20 21	2 2	2 7	4 38	24 7	0 53	23 45	0 3	21 17	0 57	23 28	0 28	2 0	1 54	30 47	9 59	22 53	23 1	23 6		n.a.	F 7
S 8	16 12	21 31	0n34	19 49	2 0	2 27	4 47	24 3	0 54	23 45	0 3	21 16	0 58	23 28	0 28	2 0	1 54	30 47	9 59	22 53	23 1	23 7		n.a.	S 8
S 9	15 54	17 55	1 41	19 16	1 58	2 46	4 57	23 59	0 54	23 45	0 3	21 14	0 58	23 28	0 28	2 1	1 54	30 47	9 59	22 54	23 2	23 8		n.a.	S 9
M10	15 35	13 24	2 45	18 41	1 55	3 5	5 7	23 55	0 55	23 46	0 3	21 13	0 58	23 27	0 28	2 1	1 54	30 47	9 59	22 54	23 2	23 9		n.a.	M10
T 11	15 17	8 9	3 42	18 3	1 52	3 23	5 17	23 51	0 56	23 46	0 3	21 12	0 58	23 27	0 28	2 2	1 54	30 47	9 59	22 55	23 2	23 10		n.a.	T 11
W12	14 58	2 27	4 27	17 24	1 48	3 41	5 27	23 46	0 56	23 46	0 3	21 10	0 58	23 27	0 28	2 2	1 54	30 46	10 0	22 55	23 3	23 11		n.a.	W12
T 13	14 38	3n28	4 57	16 43	1 43	3 57	5 36	23 41	0 57	23 46	0 3	21 9	0 58	23 27	0 28	2 3	1 54	30 46	10 0	22 56	23 3	23 12		n.a.	T 13
F 14	14 19	9 16	5 10	16 1	1 38	4 13	5 46	23 36	0 58	23 46	0 3	21 7	0 58	23 26	0 28	2 3	1 54	30 46	10 0	22 56	23 3	23 13		n.a.	F 14
S 15	13 59	14 38	5 5	15 16	1 33	4 28	5 56	23 31	0 58	23 47	0 3	21 6	0 58	23 26	0 28	2 4	1 54	30 46	10 0	22 57	23 4	23 14		n.a.	S 15
S 16	13 40	19 15	4 41	14 30	1 27	4 42	6 5	23 25	0 59	23 47	0 4	21 4	0 58	23 26	0 28	2 5	1 54	30 46	10 0	22 57	23 4	23 16		n.a.	S 16
M17	13 19	22 47	4 0	13 43	1 20	4 55	6 15	23 19	0 59	23 47	0 4	21 3	0 58	23 25	0 28	2 5	1 54	30 45	10 0	22 57	23 4	23 17		n.a.	M17
T 18	12 59	24 54	3 4	12 53	1 12	5 7	6 24	23 13	1 0	23 47	0 4	21 1	0 59	23 25	0 28	2 6	1 54	30 45	10 1	22 57	23 5	23 18		n.a.	T 18
W19	12 39	25 26	1 58	12 3	1 4	5 18	6 33	23 6	1 1	23 47	0 4	21 0	0 59	23 25	0 28	2 6	1 54	30 45	10 1	22 57	23 5	23 19		n.a.	W19
T 20	12 18	24 19	0 44	11 11	0 56	5 28	6 42	23 0	1 1	23 47	0 4	20 59	0 59	23 25	0 28	2 7	1 55	30 45	10 1	22 57	23 5	23 20		n.a.	T 20
F 21	11 57	21 42	0s31	10 17	0 47	5 36	6 51	22 53	1 2	23 47	0 4	20 57	0 59	23 24	0 28	2 7	1 55	30 45	10 1	22 57	23 5	23 20		n.a.	F 21
S 22	11 36	17 50	1 44	9 23	0 37	5 44	6 59	22 45	1 2	23 47	0 4	20 56	0 59	23 24	0 28	2 8	1 55	30 45	10 1	22 57	23 6	23 21		n.a.	S 22
S 23	11 15	13 4	2 50	8 28	0 27	5 50	7 8	22 38	1 3	23 47	0 4	20 54	0 59	23 24	0 28	2 9	1 55	30 45	10 1	22 58	23 6	23 22		n.a.	S 23
M24	10 54	7 44	3 45	7 32	0 16	5 55	7 15	22 30	1 3	23 47	0 5	20 53	0 59	23 23	0 28	2 9	1 55	30 44	10 2	22 58	23 6	23 23		n.a.	M24
T 25	10 32	2 10	4 27	6 36	0 5	5 58	7 23	22 22	1 4	23 47	0 5	20 52	0 59	23 23	0 28	2 10	1 55	30 44	10 2	22 59	23 7	23 24		n.a.	T 25
W26	10 11	3s22	4 54	5 40	0n 6	6 0	7 30	22 14	1 5	23 47	0 5	20 50	0 59	23 23	0 28	2 10	1 55	30 44	10 2	23 0	23 7	23 25		n.a.	W26
T 27	9 49	8 38	5 6	4 44	0 18	6 1	7 37	22 6	1 5	23 47	0 5	20 49	1 0	23 23	0 28	2 11	1 55	30 44	10 2	23 1	23 7	23 26		n.a.	T 27
F 28	9s27	13s27	5s 3	3s48	0n30	6n 0	7n43	21s57	1s 6	23s47	0s 5	20s47	1s 0	23s22	0s29	2n12	1n55	30s44	10s 2	23s 2	23s 8	23s27		n.a.	F 28

Julian Day Number = 1653152.5, Delta T = 03h29m53s
Ecliptic obliquity = 23°43'06, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°38'56, Lahiri = - 6°31'55 Julian Calendar 1 Feb. 187 BCE == Greg. Calendar 29 Jan. 187 BCE

The year -186 astronomical counting style corresponds to year 187 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 187 BCE
geocentric

MARCH 187 BCE (-186) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 19 34	6♓54'20	4♏30	21♓12	27°R 4	28♉25	2♉13	2♒39	14♉42	28°R53	27♉30	13°R21	12♉25	28♏ 5	n.a.	S 1
S 2	10 23 30	7°53'25	16°30	23° 0	26♓43	29°11	2°22	2°46	14°44	28♍51	27°31	13♉16	12°22	28°12	n.a.	S 2
M 3	10 27 27	8°52'28	28°22	24°45	26°21	29°58	2°31	2°52	14°47	28°50	27°33	13°13	12°18	28°18	n.a.	M 3
T 4	10 31 23	9°51'30	10♐12	26°26	25°55	0♒44	2°41	2°58	14°49	28°48	27°34	13°D13	12°15	28°25	n.a.	T 4
W 5	10 35 20	10°50'30	22° 5	28° 2	25°28	1°30	2°50	3° 5	14°51	28°47	27°35	13°13	12°12	28°32	n.a.	W 5
T 6	10 39 16	11°49'27	4♉ 6	29°35	24°59	2°17	2°59	3°11	14°54	28°45	27°37	13°14	12° 9	28°39	n.a.	T 6
F 7	10 43 13	12°48'23	16°20	1♈ 2	24°28	3° 3	3° 8	3°17	14°56	28°44	27°38	13°R14	12° 6	28°45	n.a.	F 7
S 8	10 47 10	13°47'17	28°52	2°25	23°56	3°50	3°16	3°23	14°58	28°42	27°39	13°13	12° 3	28°52	n.a.	S 8
S 9	10 51 6	14°46'09	11♒45	3°42	23°22	4°36	3°25	3°30	15° 0	28°40	27°41	13°10	11°59	28°59	n.a.	S 9
M10	10 55 3	15°44'59	25° 1	4°54	22°46	5°23	3°33	3°36	15° 2	28°39	27°42	13° 4	11°56	29° 5	n.a.	M10
T 11	10 58 59	16°43'48	8♓40	6° 0	22°10	6° 9	3°42	3°42	15° 4	28°37	27°43	12°55	11°53	29°12	n.a.	T 11
W12	11 2 56	17°42'33	22°39	7° 1	21°33	6°55	3°50	3°48	15° 7	28°36	27°44	12°45	11°50	29°19	n.a.	W12
T 13	11 6 52	18°41'17	6♈54	7°55	20°55	7°42	3°58	3°53	15° 9	28°34	27°45	12°35	11°47	29°25	n.a.	T 13
F 14	11 10 49	19°39'59	21°20	8°43	20°17	8°28	4° 6	3°59	15°11	28°32	27°47	12°25	11°43	29°32	n.a.	F 14
S 15	11 14 45	20°38'39	5♉49	9°25	19°39	9°15	4°14	4° 5	15°12	28°31	27°48	12°17	11°40	29°39	n.a.	S 15
S 16	11 18 42	21°37'16	20°16	10° 1	19° 2	10° 1	4°21	4°11	15°14	28°29	27°49	12°11	11°37	29°45	n.a.	S 16
M17	11 22 39	22°35'51	4♊37	10°31	18°24	10°47	4°29	4°17	15°16	28°28	27°50	12° 7	11°34	29°52	n.a.	M17
T 18	11 26 35	23°34'24	18°48	10°54	17°47	11°33	4°36	4°22	15°18	28°26	27°51	12°D 6	11°31	29°59	n.a.	T 18
W19	11 30 32	24°32'54	2♋48	11°11	17°11	12°20	4°44	4°28	15°20	28°24	27°52	12° 6	11°28	0♐ 5	n.a.	W19
T 20	11 34 28	25°31'22	16°37	11°22	16°37	13° 6	4°51	4°33	15°21	28°23	27°53	12°R 6	11°24	0°12	n.a.	T 20
F 21	11 38 25	26°29'48	0♌15	11°R27	16° 3	13°52	4°58	4°39	15°23	28°21	27°54	12° 5	11°21	0°19	n.a.	F 21
S 22	11 42 21	27°28'12	13°42	11°26	15°31	14°38	5° 4	4°44	15°25	28°19	27°55	12° 2	11°18	0°25	n.a.	S 22
S 23	11 46 18	28°26'33	26°59	11°19	15° 1	15°25	5°11	4°49	15°26	28°18	27°56	11°56	11°15	0°32	n.a.	S 23
M24	11 50 14	29°24'52	10♍ 5	11° 7	14°33	16°11	5°18	4°55	15°28	28°16	27°57	11°47	11°12	0°39	n.a.	M24
T 25	11 54 11	0♈23'09	23° 0	10°50	14° 6	16°57	5°24	5° 0	15°29	28°15	27°58	11°35	11° 9	0°45	n.a.	T 25
W26	11 58 8	1°21'25	5♎42	10°28	13°42	17°43	5°30	5° 5	15°31	28°13	27°59	11°23	11° 5	0°52	n.a.	W26
T 27	12 2 4	2°19'38	18°12	10° 1	13°20	18°29	5°36	5°10	15°32	28°11	28° 0	11° 9	11° 2	0°59	n.a.	T 27
F 28	12 6 1	3°17'50	0♏29	9°31	13° 0	19°15	5°42	5°15	15°33	28°10	28° 1	10°57	10°59	1° 5	n.a.	F 28
S 29	12 9 57	4°16'00	12°35	8°58	12°43	20° 1	5°48	5°20	15°35	28° 8	28° 2	10°46	10°56	1°12	n.a.	S 29
S 30	12 13 54	5°14'08	24°31	8°23	12°28	20°47	5°53	5°25	15°36	28° 6	28° 3	10°38	10°53	1°19	n.a.	S 30
M31	12 17 50	6♈12'15	6♐22	7♈45	12♓16	21♒33	5♉59	5♒29	15♉37	28♍ 5	28♉ 4	10♉33	10♉49	1♐26	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	9s 5	17s39	4s46	2s53	0n42	5n58	7n48	21s48	1s 6	23s47	0s 5	20s46	1s 0	23s22	0s29	2n12	1n55	30s44	10s 3	23s 2	23s 8	23s28		n.a.	S 1
S 2	8 42	21 3	4 17	1 58	0 55	5 54	7 53	21 39	1 7	23 47	0 5	20 45	1 0	23 22	0 29	2 13	1 55	30 44	10 3	23 3	23 8	23 29		n.a.	S 2
M 3	8 20	23 33	3 37	1 5	1 7	5 49	7 58	21 29	1 7	23 47	0 6	20 43	1 0	23 22	0 29	2 13	1 55	30 44	10 3	23 3	23 8	23 30		n.a.	M 3
T 4	7 58	25 0	2 48	0 14	1 19	5 42	8 1	21 20	1 8	23 47	0 6	20 42	1 0	23 21	0 29	2 14	1 55	30 44	10 3	23 3	23 9	23 31		n.a.	T 4
W 5	7 35	25 19	1 51	0n36	1 31	5 34	8 4	21 10	1 8	23 47	0 6	20 40	1 0	23 21	0 29	2 15	1 55	30 44	10 4	23 3	23 9	23 32		n.a.	W 5
T 6	7 12	24 28	0 49	1 24	1 43	5 25	8 6	21 0	1 9	23 47	0 6	20 39	1 0	23 21	0 29	2 15	1 55	30 44	10 4	23 3	23 9	23 33		n.a.	T 6
F 7	6 50	22 26	0n17	2 10	1 54	5 13	8 8	20 50	1 9	23 47	0 6	20 38	1 1	23 21	0 29	2 16	1 55	30 44	10 4	23 3	23 10	23 34		n.a.	F 7
S 8	6 27	19 17	1 23	2 53	2 5	5 1	8 8	20 39	1 10	23 47	0 6	20 36	1 1	23 21	0 29	2 17	1 55	30 43	10 4	23 3	23 10	23 35		n.a.	S 8
S 9	6 4	15 7	2 26	3 33	2 15	4 47	8 8	20 28	1 10	23 47	0 6	20 35	1 1	23 20	0 29	2 17	1 55	30 43	10 5	23 4	23 10	23 35		n.a.	S 9
M10	5 41	10 8	3 24	4 11	2 25	4 32	8 7	20 17	1 11	23 47	0 6	20 34	1 1	23 20	0 29	2 18	1 55	30 43	10 5	23 4	23 11	23 36		n.a.	M10
T 11	5 18	4 32	4 11	4 46	2 34	4 16	8 4	20 6	1 11	23 47	0 7	20 33	1 1	23 20	0 29	2 19	1 55	30 43	10 5	23 5	23 11	23 37		n.a.	T 11
W12	4 55	1n24	4 45	5 18	2 43	3 58	8 1	19 55	1 12	23 46	0 7	20 31	1 1	23 20	0 29	2 19	1 55	30 43	10 5	23 6	23 11	23 38		n.a.	W12
T 13	4 32	7 22	5 1	5 47	2 50	3 40	7 58	19 43	1 12	23 46	0 7	20 30	1 1	23 19	0 29	2 20	1 55	30 43	10 6	23 7	23 11	23 39		n.a.	T 13
F 14	4 8	13 1	4 59	6 12	2 57	3 21	7 53	19 32	1 13	23 46	0 7	20 29	1 2	23 19	0 29	2 21	1 55	30 43	10 6	23 8	23 12	23 40		n.a.	F 14
S 15	3 45	17 58	4 38	6 34	3 2	3 0	7 47	19 20	1 13	23 46	0 7	20 27	1 2	23 19	0 29	2 21	1 55	30 43	10 6	23 9	23 12	23 41		n.a.	S 15
S 16	3 22	21 51	3 59	6 52	3 7	2 39	7 40	19 7	1 14	23 46	0 7	20 26	1 2	23 19	0 29	2 22	1 55	30 43	10 6	23 9	23 12	23 41		n.a.	S 16
M17	2 58	24 20	3 5	7 7	3 10	2 18	7 33	18 55	1 14	23 46	0 7	20 25	1 2	23 19	0 29	2 23	1 55	30 43	10 7	23 9	23 13	23 42		n.a.	M17
T 18	2 35	25 14	2 0	7 19	3 13	1 56	7 25	18 43	1 15	23 46	0 8	20 24	1 2	23 19	0 29	2 23	1 55	30 43	10 7	23 10	23 13	23 43		n.a.	T 18
W19	2 11	24 31	0 49	7 26	3 14	1 34	7 16	18 30	1 15	23 46	0 8	20 23	1 2	23 18	0 29	2 24	1 55	30 43	10 7	23 10	23 13	23 44		n.a.	W19
T 20	1 48	22 17	0s24	7 31	3 13	1 12	7 6	18 17	1 15	23 46	0 8	20 21	1 2	23 18	0 29	2 25	1 55	30 43	10 7	23 10	23 13	23 45		n.a.	T 20
F 21	1 25	18 48	1 35	7 31	3 12	0 49	6 56	18 4	1 16	23 46	0 8	20 20	1 3	23 18	0 29	2 25	1 55	30 43	10 8	23 10	23 14	23 45		n.a.	F 21
S 22	1 1	14 22	2 39	7 28	3 9	0 27	6 45	17 51	1 16	23 45	0 8	20 19	1 3	23 18	0 29	2 26	1 55	30 43	10 8	23 10	23 14	23 46		n.a.	S 22
S 23	0 38	9 19	3 34	7 21	3 4	0 5	6 34	17 37	1 17	23 45	0 8	20 18	1 3	23 18	0 29	2 27	1 55	30 44	10 8	23 11	23 14	23 47		n.a.	S 23
M24	0 14	3 55	4 16	7 11	2 59	0s17	6 22	17 24	1 17	23 45	0 9	20 17	1 3	23 18	0 29	2 27	1 55	30 44	10 8	23 11	23 14	23 48		n.a.	M24
T 25	0n 9	1s33	4 45	6 57	2 52	0 38	6 10	17 10	1 17	23 45	0 9	20 16	1 3	23 17	0 29	2 28	1 55	30 44	10 9	23 12	23 15	23 49		n.a.	T 25
W26	0 33	6 51	4 59	6 41	2 43	0 59	5 57	16 56	1 18	23 45	0 9	20 15	1 3	23 17	0 29	2 29	1 55	30 44	10 9	23 13	23 15	23 49		n.a.	W26
T 27	0 56	11 48	4 58	6 21	2 33	1 20	5 45	16 42	1 18	23 45	0 9	20 13	1 3	23 17	0 29	2 29	1 55	30 44	10 9	23 15	23 15	23 50		n.a.	T 27
F 28	1 20	16 11	4 43	5 59	2 22	1 39	5 31	16 28	1 19	23 45	0 9	20 12	1 4	23 17	0 29	2 30	1 55	30 44	10 10	23 16	23 15	23 51		n.a.	F 28
S 29	1 43	19 51	4 16	5 35	2 10	1 58	5 18	16 14	1 19	23 45	0 9	20 11	1 4	23 17	0 29	2 31	1 55	30 44	10 10	23 17	23 16	23 52		n.a.	S 29
S 30	2 6	22 38	3 38	5 8	1 56	2 16	5 5	15 59	1 19	23 45	0 9	20 10	1 4	23 17	0 29	2 31	1 55	30 44	10 10	23 17	23 16	23 52		n.a.	S 30
M31	2n29	24s25	2s50	4n40	1n42	2s34	4n51	15s44	1s20	23s45	0s10	20s 9	1s 4	23s17	0s29	2n32	1n55	30s44	10s10	23s18	23s16	23s53		n.a.	M31

Julian Day Number = 1653180.5, Delta T = 03h29m52s
Ecliptic obliquity = 23°43'07, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°38'52, Lahiri = - 6°31'51 Julian Calendar 1 March 187 BCE == Greg. Calendar 26 Feb. 187 BCE

The year -186 astronomical counting style corresponds to year 187 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 187 BCE
geocentric

APRIL 187 BCE (-186) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 21 47	7♈10'20	18♐11	7°R 7	12°R 6	22♒19	6♑ 4	5♒34	15♑38	28°R 3	28♑ 4	10°R30	10♑46	1♐32	n.a.	T 1
W 2	12 25 43	8° 8'23	0♑ 3	6♈28	11♓58	23° 5	6° 9	5°39	15°40	28♍ 2	28° 5	10♑29	10°43	1°39	n.a.	W 2
T 3	12 29 40	9° 6'26	12° 2	5°49	11°53	23°51	6°14	5°43	15°41	28° 0	28° 6	10°29	10°40	1°46	n.a.	T 3
F 4	12 33 36	10° 4'26	24°16	5°11	11°50	24°37	6°19	5°48	15°42	27°58	28° 7	10°29	10°37	1°52	n.a.	F 4
S 5	12 37 33	11° 2'25	6♒48	4°35	11°D50	25°22	6°23	5°52	15°43	27°57	28° 7	10°27	10°34	1°59	n.a.	S 5
S 6	12 41 30	12° 0'23	19°43	4° 1	11°52	26° 8	6°28	5°57	15°44	27°55	28° 8	10°23	10°30	2° 6	n.a.	S 6
M 7	12 45 26	12°58'19	3♓ 5	3°30	11°56	26°54	6°32	6° 1	15°44	27°54	28° 9	10°17	10°27	2°12	n.a.	M 7
T 8	12 49 23	13°56'14	16°54	3° 2	12° 3	27°40	6°36	6° 5	15°45	27°52	28° 9	10° 8	10°24	2°19	n.a.	T 8
W 9	12 53 19	14°54'07	1♈ 9	2°37	12°12	28°25	6°40	6° 9	15°46	27°50	28°10	9°58	10°21	2°26	n.a.	W 9
T 10	12 57 16	15°51'59	15°45	2°17	12°23	29°11	6°43	6°13	15°47	27°49	28°11	9°46	10°18	2°32	n.a.	T 10
F 11	13 1 12	16°49'49	0♉34	2° 0	12°36	29°57	6°47	6°17	15°47	27°47	28°11	9°35	10°14	2°39	n.a.	F 11
S 12	13 5 9	17°47'38	15°27	1°48	12°50	0♓42	6°50	6°21	15°48	27°46	28°12	9°26	10°11	2°46	n.a.	S 12
S 13	13 9 5	18°45'25	0♊17	1°41	13° 7	1°28	6°53	6°25	15°49	27°44	28°12	9°19	10° 8	2°52	n.a.	S 13
M14	13 13 2	19°43'10	14°56	1°D38	13°26	2°13	6°56	6°28	15°49	27°43	28°13	9°15	10° 5	2°59	n.a.	M14
T 15	13 16 59	20°40'54	29°20	1°39	13°47	2°59	6°59	6°32	15°50	27°41	28°13	9°14	10° 2	3° 6	n.a.	T 15
W16	13 20 55	21°38'36	13♋25	1°45	14° 9	3°44	7° 2	6°35	15°50	27°40	28°14	9°D14	9°59	3°12	n.a.	W16
T 17	13 24 52	22°36'16	27°12	1°56	14°33	4°29	7° 4	6°39	15°50	27°38	28°14	9°R14	9°55	3°19	n.a.	T 17
F 18	13 28 48	23°33'54	10♌41	2°11	14°59	5°15	7° 6	6°42	15°51	27°37	28°14	9°13	9°52	3°26	n.a.	F 18
S 19	13 32 45	24°31'31	23°55	2°31	15°26	6° 0	7° 8	6°45	15°51	27°36	28°15	9°10	9°49	3°32	n.a.	S 19
S 20	13 36 41	25°29'05	6♍54	2°55	15°55	6°45	7°10	6°49	15°51	27°34	28°15	9° 4	9°46	3°39	n.a.	S 20
M21	13 40 38	26°26'39	19°41	3°24	16°25	7°30	7°12	6°52	15°51	27°33	28°15	8°56	9°43	3°46	n.a.	M21
T 22	13 44 34	27°24'11	2♎17	3°56	16°57	8°16	7°13	6°55	15°52	27°31	28°16	8°45	9°40	3°52	n.a.	T 22
W23	13 48 31	28°21'41	14°43	4°32	17°30	9° 1	7°15	6°58	15°52	27°30	28°16	8°33	9°36	3°59	n.a.	W23
T 24	13 52 28	29°19'11	26°58	5°13	18° 5	9°46	7°16	7° 0	15°R52	27°29	28°16	8°21	9°33	4° 6	n.a.	T 24
F 25	13 56 24	0♉16'39	9♏ 5	5°57	18°40	10°31	7°17	7° 3	15°52	27°27	28°16	8° 9	9°30	4°12	n.a.	F 25
S 26	14 0 21	1°14'06	21° 3	6°45	19°17	11°16	7°18	7° 6	15°52	27°26	28°17	7°59	9°27	4°19	n.a.	S 26
S 27	14 4 17	2°11'32	2♐56	7°36	19°55	12° 0	7°18	7° 8	15°51	27°25	28°17	7°52	9°24	4°26	n.a.	S 27
M28	14 8 14	3° 8'56	14°44	8°31	20°34	12°45	7°18	7°11	15°51	27°24	28°17	7°47	9°20	4°32	n.a.	M28
T 29	14 12 10	4° 6'21	26°32	9°29	21°15	13°30	7°R19	7°13	15°51	27°22	28°17	7°44	9°17	4°39	n.a.	T 29
W30	14 16 7	5♉ 3'44	8♑24	10♈31	21♓56	14♓15	7♑19	7♒15	15♑51	27♍21	28♑17	7°D44	9♑14	4♐46	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	2n53	25s 6	1s55	4n11	1n27	2s50	4n38	15s30	1s20	23s44	0s10	20s 8	1s 4	23s17	0s29	2n33	1n55	30s44	10s11	23s18	23s17	23s54		n.a.
W 2	3 16	24 38	0 55	3 40	1 11	3 5	4 24	15 15	1 20	23 44	0 10	20 7	1 4	23 16	0 29	2 33	1 55	30 44	10 11	23 18	23 17	23 55		n.a.
T 3	3 39	23 2	0n 8	3 10	0 54	3 20	4 11	15 0	1 21	23 44	0 10	20 6	1 5	23 16	0 29	2 34	1 55	30 45	10 11	23 18	23 17	23 55		n.a.
F 4	4 2	20 20	1 12	2 39	0 38	3 33	3 57	14 44	1 21	23 44	0 10	20 5	1 5	23 16	0 30	2 34	1 55	30 45	10 12	23 18	23 17	23 56		n.a.
S 5	4 25	16 37	2 14	2 9	0 21	3 45	3 44	14 29	1 21	23 44	0 10	20 4	1 5	23 16	0 30	2 35	1 55	30 45	10 12	23 18	23 18	23 57		n.a.
S 6	4 48	12 3	3 12	1 40	0 4	3 57	3 31	14 14	1 22	23 44	0 11	20 3	1 5	23 16	0 30	2 36	1 55	30 45	10 12	23 18	23 18	23 57		n.a.
M 7	5 11	6 46	4 0	1 12	0s13	4 7	3 18	13 58	1 22	23 44	0 11	20 3	1 5	23 16	0 30	2 36	1 55	30 45	10 13	23 19	23 18	23 58		n.a.
T 8	5 34	0 59	4 37	0 46	0 30	4 16	3 5	13 43	1 22	23 44	0 11	20 2	1 5	23 16	0 30	2 37	1 55	30 45	10 13	23 20	23 18	23 59		n.a.
W 9	5 56	5n 0	4 57	0 22	0 46	4 25	2 53	13 27	1 22	23 44	0 11	20 1	1 6	23 16	0 30	2 38	1 55	30 45	10 13	23 20	23 19	23 59		n.a.
T 10	6 19	10 51	4 59	0s 1	1 1	4 32	2 40	13 11	1 23	23 44	0 11	20 0	1 6	23 16	0 30	2 38	1 55	30 46	10 13	23 21	23 19	24 0		n.a.
F 11	6 41	16 11	4 41	0 21	1 16	4 38	2 28	12 55	1 23	23 44	0 11	19 59	1 6	23 16	0 30	2 39	1 55	30 46	10 14	23 22	23 19	24 1		n.a.
S 12	7 4	20 32	4 4	0 39	1 30	4 43	2 16	12 39	1 23	23 44	0 12	19 58	1 6	23 16	0 30	2 39	1 55	30 46	10 14	23 23	23 19	24 1		n.a.
S 13	7 26	23 33	3 10	0 54	1 44	4 48	2 4	12 23	1 24	23 44	0 12	19 57	1 6	23 16	0 30	2 40	1 55	30 46	10 14	23 23	23 20	24 2		n.a.
M14	7 48	24 55	2 5	1 7	1 56	4 51	1 53	12 6	1 24	23 44	0 12	19 57	1 7	23 16	0 30	2 41	1 55	30 46	10 15	23 23	23 20	24 3		n.a.
T 15	8 10	24 35	0 52	1 17	2 8	4 53	1 42	11 50	1 24	23 44	0 12	19 56	1 7	23 16	0 30	2 41	1 55	30 47	10 15	23 24	23 20	24 3		n.a.
W16	8 32	22 40	0s22	1 25	2 19	4 55	1 31	11 34	1 24	23 44	0 12	19 55	1 7	23 16	0 30	2 42	1 55	30 47	10 15	23 24	23 20	24 4		n.a.
T 17	8 54	19 26	1 34	1 29	2 28	4 55	1 20	11 17	1 24	23 44	0 12	19 55	1 7	23 16	0 30	2 42	1 55	30 47	10 16	23 24	23 21	24 5		n.a.
F 18	9 15	15 13	2 38	1 31	2 37	4 55	1 9	11 0	1 25	23 44	0 13	19 54	1 7	23 16	0 30	2 43	1 55	30 47	10 16	23 24	23 21	24 5		n.a.
S 19	9 37	10 21	3 33	1 31	2 45	4 54	0 59	10 44	1 25	23 44	0 13	19 53	1 7	23 16	0 30	2 43	1 55	30 48	10 16	23 24	23 21	24 6		n.a.
S 20	9 58	5 7	4 16	1 28	2 53	4 52	0 49	10 27	1 25	23 44	0 13	19 53	1 8	23 16	0 30	2 44	1 55	30 48	10 17	23 24	23 21	24 7		n.a.
M21	10 19	0s14	4 45	1 22	2 59	4 49	0 40	10 10	1 25	23 44	0 13	19 52	1 8	23 16	0 30	2 44	1 55	30 48	10 17	23 25	23 21	24 7		n.a.
T 22	10 40	5 30	5 0	1 14	3 4	4 45	0 30	9 53	1 25	23 44	0 13	19 51	1 8	23 16	0 30	2 45	1 55	30 48	10 17	23 26	23 22	24 8		n.a.
W23	11 1	10 28	5 0	1 3	3 8	4 40	0 21	9 36	1 26	23 45	0 14	19 51	1 8	23 16	0 30	2 45	1 55	30 48	10 18	23 26	23 22	24 8		n.a.
T 24	11 22	14 57	4 46	0 50	3 12	4 35	0 12	9 19	1 26	23 45	0 14	19 50	1 8	23 16	0 30	2 46	1 55	30 49	10 18	23 27	23 22	24 9		n.a.
F 25	11 42	18 47	4 20	0 35	3 15	4 28	0 4	9 2	1 26	23 45	0 14	19 50	1 9	23 16	0 30	2 46	1 55	30 49	10 18	23 28	23 22	24 9		n.a.
S 26	12 2	21 47	3 42	0 18	3 16	4 22	0s 5	8 45	1 26	23 45	0 14	19 49	1 9	23 16	0 30	2 47	1 55	30 49	10 19	23 28	23 23	24 10		n.a.
S 27	12 22	23 50	2 54	0n 2	3 17	4 14	0 13	8 28	1 26	23 45	0 14	19 49	1 9	23 16	0 30	2 47	1 55	30 50	10 19	23 29	23 23	24 11		n.a.
M28	12 42	24 49	1 59	0 24	3 18	4 5	0 20	8 11	1 26	23 45	0 14	19 48	1 9	23 16	0 30	2 48	1 55	30 50	10 19	23 29	23 23	24 11		n.a.
T 29	13 2	24 40	0 59	0 47	3 17	3 56	0 28	7 53	1 26	23 45	0 15	19 48	1 9	23 16	0 30	2 48	1 55	30 50	10 20	23 29	23 23	24 12		n.a.
W30	13n22	23s23	0n 4	1n13	3s16	3s47	0s35	7s36	1s27	23s46	0s15	19s48	1s10	23s16	0s30	2n49	1n55	30s50	10s20	23s29	23s24	24s12		n.a.

Julian Day Number = 1653211.5, Delta T = 03h29m51s
Ecliptic obliquity = 23°43'06, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°38'48, Lahiri = - 6°31'47 Julian Calendar 1 Apr. 187 BCE == Greg. Calendar 29 March 187 BCE

The year -186 astronomical counting style corresponds to year 187 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 187 BCE
geocentric

MAY 187 BCE (-186) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 20 3	6♉ 1'06	20♑23	11♈35	22♓38	15♓ 0	7°R18	7♒18	15°R51	27°R20	28♑17	7♑44	9♑11	4♐52	n.a.	T 1
F 2	14 24 0	6°58'28	2♒36	12°43	23°21	15°44	7♑18	7°20	15♑50	27♍19	28°17	7°R45	9° 8	4°59	n.a.	F 2
S 3	14 27 57	7°55'49	15° 6	13°54	24° 6	16°29	7°17	7°22	15°50	27°18	28°R17	7°44	9° 5	5° 6	n.a.	S 3
S 4	14 31 53	8°53'09	27°59	15° 8	24°51	17°13	7°17	7°24	15°49	27°16	28°17	7°43	9° 1	5°12	n.a.	S 4
M 5	14 35 50	9°50'28	11♓19	16°24	25°37	17°58	7°16	7°25	15°49	27°15	28°17	7°39	8°58	5°19	n.a.	M 5
T 6	14 39 46	10°47'47	25° 8	17°44	26°23	18°42	7°15	7°27	15°48	27°14	28°17	7°33	8°55	5°26	n.a.	T 6
W 7	14 43 43	11°45'05	9♈26	19° 7	27°11	19°27	7°13	7°29	15°48	27°13	28°17	7°26	8°52	5°32	n.a.	W 7
T 8	14 47 39	12°42'23	24° 8	20°32	27°59	20°11	7°12	7°30	15°47	27°12	28°17	7°17	8°49	5°39	n.a.	T 8
F 9	14 51 36	13°39'40	9♉ 8	22° 0	28°48	20°55	7°10	7°32	15°46	27°11	28°17	7° 9	8°45	5°46	n.a.	F 9
S 10	14 55 32	14°36'56	24°17	23°31	29°38	21°39	7° 8	7°33	15°46	27°10	28°17	7° 3	8°42	5°52	n.a.	S 10
S 11	14 59 29	15°34'12	9♊25	25° 5	0♈28	22°23	7° 6	7°34	15°45	27° 9	28°16	6°58	8°39	5°59	n.a.	S 11
M12	15 3 26	16°31'27	24°22	26°41	1°19	23° 7	7° 4	7°35	15°44	27° 8	28°16	6°55	8°36	6° 6	n.a.	M12
T 13	15 7 22	17°28'41	9♋ 2	28°21	2°11	23°51	7° 1	7°36	15°43	27° 7	28°16	6°D55	8°33	6°12	n.a.	T 13
W14	15 11 19	18°25'54	23°19	0♉ 2	3° 3	24°35	6°58	7°37	15°42	27° 6	28°16	6°55	8°30	6°19	n.a.	W14
T 15	15 15 15	19°23'06	7♌14	1°47	3°56	25°19	6°56	7°38	15°41	27° 5	28°15	6°56	8°26	6°26	n.a.	T 15
F 16	15 19 12	20°20'17	20°45	3°34	4°49	26° 3	6°53	7°39	15°40	27° 5	28°15	6°R57	8°23	6°32	n.a.	F 16
S 17	15 23 8	21°17'27	3♍55	5°24	5°43	26°47	6°49	7°39	15°39	27° 4	28°15	6°56	8°20	6°39	n.a.	S 17
S 18	15 27 5	22°14'37	16°46	7°16	6°38	27°30	6°46	7°40	15°38	27° 3	28°14	6°54	8°17	6°46	n.a.	S 18
M19	15 31 1	23°11'45	29°22	9°11	7°33	28°14	6°42	7°40	15°37	27° 2	28°14	6°49	8°14	6°52	n.a.	M19
T 20	15 34 58	24° 8'53	11♎45	11° 8	8°28	28°57	6°39	7°41	15°36	27° 2	28°14	6°43	8°11	6°59	n.a.	T 20
W21	15 38 55	25° 6'01	23°57	13° 8	9°24	29°41	6°35	7°41	15°35	27° 1	28°13	6°36	8° 7	7° 6	n.a.	W21
T 22	15 42 51	26° 3'08	6♏ 1	15° 9	10°20	0♈24	6°31	7°41	15°33	27° 0	28°13	6°28	8° 4	7°12	n.a.	T 22
F 23	15 46 48	27° 0'15	17°58	17°13	11°17	1° 7	6°27	7°R41	15°32	27° 0	28°12	6°21	8° 1	7°19	n.a.	F 23
S 24	15 50 44	27°57'21	29°51	19°18	12°14	1°51	6°22	7°41	15°31	26°59	28°12	6°16	7°58	7°26	n.a.	S 24
S 25	15 54 41	28°54'27	11♐40	21°25	13°12	2°34	6°18	7°41	15°29	26°58	28°11	6°11	7°55	7°32	n.a.	S 25
M26	15 58 37	29°51'33	23°28	23°33	14°10	3°17	6°13	7°40	15°28	26°58	28°11	6° 9	7°51	7°39	n.a.	M26
T 27	16 2 34	0♊48'39	5♑18	25°42	15° 8	4° 0	6° 8	7°40	15°27	26°57	28°10	6°D 8	7°48	7°46	n.a.	T 27
W28	16 6 31	1°45'45	17°13	27°52	16° 7	4°43	6° 3	7°40	15°25	26°57	28° 9	6° 8	7°45	7°52	n.a.	W28
T 29	16 10 27	2°42'51	29°15	0♊ 3	17° 6	5°26	5°58	7°39	15°24	26°56	28° 9	6°10	7°42	7°59	n.a.	T 29
F 30	16 14 24	3°39'57	11♒30	2°13	18° 6	6° 8	5°53	7°38	15°22	26°56	28° 8	6°12	7°39	8° 6	n.a.	F 30
S 31	16 18 20	4♊37'03	24♒ 1	4♊24	19♈ 6	6♈51	5♑47	7♒38	15♑20	26♍56	28♑ 8	6♑13	7♑36	8♐12	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	13n41	21s 3	1n 7	1n40	3s14	3s36	0s43	7s18	1s27	23s46	0s15	19s47	1s10	23s16	0s30	2n49	1n55	30s51	10s20	23s29	23s24	24s13			n.a.
F 2	14 0	17 43	2 9	2 9	3 11	3 25	0 49	7 1	1 27	23 46	0 15	19 47	1 10	23 16	0 30	2 50	1 55	30 51	10 20	23 29	23 24	24 13			n.a.
S 3	14 19	13 32	3 6	2 40	3 8	3 14	0 56	6 44	1 27	23 46	0 15	19 46	1 10	23 16	0 30	2 50	1 55	30 51	10 21	23 29	23 24	24 14			n.a.
S 4	14 38	8 37	3 56	3 12	3 4	3 1	1 2	6 26	1 27	23 46	0 16	19 46	1 10	23 16	0 30	2 51	1 54	30 52	10 21	23 29	23 24	24 14			n.a.
M 5	14 56	3 10	4 34	3 46	2 59	2 49	1 9	6 9	1 27	23 47	0 16	19 46	1 11	23 16	0 30	2 51	1 54	30 52	10 21	23 30	23 25	24 15			n.a.
T 6	15 14	2n37	4 59	4 22	2 54	2 35	1 15	5 51	1 27	23 47	0 16	19 46	1 11	23 17	0 31	2 51	1 54	30 52	10 22	23 30	23 25	24 15			n.a.
W 7	15 32	8 27	5 6	4 59	2 48	2 21	1 20	5 33	1 27	23 47	0 16	19 45	1 11	23 17	0 31	2 52	1 54	30 53	10 22	23 30	23 25	24 16			n.a.
T 8	15 50	14 0	4 53	5 37	2 42	2 7	1 26	5 16	1 27	23 48	0 16	19 45	1 11	23 17	0 31	2 52	1 54	30 53	10 22	23 31	23 25	24 16			n.a.
F 9	16 7	18 48	4 20	6 17	2 35	1 52	1 31	4 58	1 27	23 48	0 17	19 45	1 11	23 17	0 31	2 53	1 54	30 53	10 23	23 31	23 26	24 17			n.a.
S 10	16 25	22 26	3 29	6 58	2 27	1 37	1 36	4 41	1 27	23 48	0 17	19 45	1 12	23 17	0 31	2 53	1 54	30 54	10 23	23 32	23 26	24 17			n.a.
S 11	16 42	24 28	2 22	7 40	2 19	1 21	1 41	4 23	1 27	23 48	0 17	19 45	1 12	23 17	0 31	2 53	1 54	30 54	10 23	23 32	23 26	24 18			n.a.
M12	16 58	24 43	1 7	8 23	2 10	1 5	1 46	4 5	1 27	23 49	0 17	19 45	1 12	23 17	0 31	2 54	1 54	30 54	10 24	23 32	23 26	24 18			n.a.
T 13	17 15	23 13	0s11	9 7	2 1	0 48	1 50	3 48	1 27	23 49	0 17	19 45	1 12	23 17	0 31	2 54	1 54	30 55	10 24	23 32	23 26	24 19			n.a.
W14	17 31	20 14	1 27	9 52	1 52	0 31	1 54	3 30	1 27	23 49	0 17	19 45	1 12	23 17	0 31	2 54	1 54	30 55	10 24	23 32	23 27	24 19			n.a.
T 15	17 47	16 10	2 36	10 38	1 42	0 14	1 59	3 13	1 27	23 50	0 18	19 45	1 13	23 18	0 31	2 55	1 54	30 55	10 25	23 32	23 27	24 19			n.a.
F 16	18 2	11 22	3 34	11 24	1 32	0n 4	2 2	2 55	1 27	23 50	0 18	19 45	1 13	23 18	0 31	2 55	1 54	30 56	10 25	23 32	23 27	24 20			n.a.
S 17	18 18	6 10	4 19	12 11	1 22	0 22	2 6	2 37	1 27	23 50	0 18	19 45	1 13	23 18	0 31	2 55	1 54	30 56	10 25	23 32	23 27	24 20			n.a.
S 18	18 33	0 50	4 50	12 59	1 11	0 41	2 10	2 20	1 27	23 51	0 18	19 45	1 13	23 18	0 31	2 55	1 54	30 57	10 25	23 32	23 27	24 21			n.a.
M19	18 47	4s25	5 6	13 46	1 0	1 0	2 13	2 2	1 27	23 51	0 18	19 45	1 13	23 18	0 31	2 56	1 54	30 57	10 26	23 32	23 28	24 21			n.a.
T 20	19 2	9 24	5 8	14 34	0 49	1 19	2 16	1 45	1 27	23 52	0 19	19 45	1 14	23 18	0 31	2 56	1 54	30 57	10 26	23 33	23 28	24 22			n.a.
W21	19 16	13 57	4 55	15 21	0 38	1 38	2 19	1 27	1 27	23 52	0 19	19 45	1 14	23 19	0 31	2 56	1 54	30 58	10 26	23 33	23 28	24 22			n.a.
T 22	19 30	17 54	4 29	16 9	0 27	1 58	2 22	1 10	1 27	23 52	0 19	19 45	1 14	23 19	0 31	2 56	1 54	30 58	10 27	23 33	23 28	24 22			n.a.
F 23	19 43	21 5	3 52	16 55	0 16	2 18	2 25	0 52	1 27	23 53	0 19	19 45	1 14	23 19	0 31	2 57	1 54	30 58	10 27	23 34	23 28	24 23			n.a.
S 24	19 56	23 21	3 5	17 41	0 5	2 38	2 27	0 35	1 26	23 53	0 19	19 46	1 14	23 19	0 31	2 57	1 54	30 59	10 27	23 34	23 29	24 23			n.a.
S 25	20 9	24 35	2 9	18 26	0n 6	2 59	2 29	0 17	1 26	23 54	0 20	19 46	1 15	23 19	0 31	2 57	1 54	30 59	10 28	23 34	23 29	24 24			n.a.
M26	20 21	24 42	1 9	19 9	0 17	3 20	2 31	0n 0	1 26	23 54	0 20	19 46	1 15	23 19	0 31	2 57	1 53	31 0	10 28	23 34	23 29	24 24			n.a.
T 27	20 33	23 41	0 5	19 51	0 27	3 41	2 33	0 18	1 26	23 54	0 20	19 46	1 15	23 20	0 31	2 57	1 53	31 0	10 28	23 34	23 29	24 24			n.a.
W28	20 45	21 36	1n 0	20 31	0 37	4 2	2 35	0 35	1 26	23 55	0 20	19 47	1 15	23 20	0 31	2 57	1 53	31 0	10 28	23 34	23 29	24 25			n.a.
T 29	20 57	18 32	2 3	21 10	0 47	4 23	2 37	0 52	1 26	23 55	0 20	19 47	1 15	23 20	0 31	2 58	1 53	31 1	10 29	23 34	23 29	24 25			n.a.
F 30	21 8	14 38	3 2	21 46	0 56	4 44	2 38	1 10	1 26	23 56	0 21	19 47	1 16	23 20	0 31	2 58	1 53	31 1	10 29	23 34	23 30	24 25			n.a.
S 31	21n19	10s 1	3n53	22n20	1n 5	5n 6	2s40	1n27	1s25	23s56	0s21	19s48	1s16	23s20	0s31	2n58	1n53	31s 2	10s29	23s34	23s30	24s26			n.a.

Julian Day Number = 1653241.5, Delta T = 03h29m50s
Ecliptic obliquity = 23°43'06, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°38'43, Lahiri = - 6°31'43 Julian Calendar 1 May 187 BCE == Greg. Calendar 28 Apr. 187 BCE

The year -186 astronomical counting style corresponds to year 187 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 187 BCE
geocentric

JUNE 187 BCE (-186) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 22 17	5♊34'09	6♓52	6♊35	20♈ 6	7♈34	5°R41	7°R37	15°R19	26°R55	28°R 7	6°R13	7♑32	8♐19	n.a.	S 1
M 2	16 26 13	6°31'16	20° 8	8°44	21° 6	8°16	5♑36	7♒36	15♑17	26♍55	28♑ 6	6♑13	7°29	8°26	n.a.	M 2
T 3	16 30 10	7°28'23	3♈51	10°53	22° 7	8°59	5°30	7°35	15°15	26°55	28° 5	6°11	7°26	8°32	n.a.	T 3
W 4	16 34 6	8°25'30	18° 1	13° 1	23° 8	9°41	5°24	7°34	15°14	26°54	28° 5	6° 8	7°23	8°39	n.a.	W 4
T 5	16 38 3	9°22'38	2♉36	15° 8	24°10	10°24	5°18	7°32	15°12	26°54	28° 4	6° 4	7°20	8°46	n.a.	T 5
F 6	16 42 0	10°19'46	17°33	17°14	25°11	11° 6	5°11	7°31	15°10	26°54	28° 3	6° 1	7°17	8°52	n.a.	F 6
S 7	16 45 56	11°16'54	2♊42	19°18	26°13	11°48	5° 5	7°30	15° 8	26°54	28° 2	5°58	7°13	8°59	n.a.	S 7
S 8	16 49 53	12°14'03	17°55	21°20	27°16	12°30	4°59	7°28	15° 6	26°53	28° 2	5°56	7°10	9° 6	n.a.	S 8
M 9	16 53 49	13°11'12	3♋ 1	23°21	28°18	13°12	4°52	7°26	15° 4	26°53	28° 1	5°D55	7° 7	9°12	n.a.	M 9
T 10	16 57 46	14° 8'21	17°52	25°20	29°21	13°54	4°45	7°25	15° 3	26°53	28° 0	5°55	7° 4	9°19	n.a.	T 10
W11	17 1 42	15° 5'31	2♌22	27°17	0♉24	14°36	4°38	7°23	15° 1	26°53	27°59	5°56	7° 1	9°26	n.a.	W11
T 12	17 5 39	16° 2'40	16°27	29°13	1°27	15°17	4°31	7°21	14°59	26°D53	27°58	5°58	6°57	9°32	n.a.	T 12
F 13	17 9 35	16°59'49	0♍ 6	1♋ 7	2°31	15°59	4°24	7°19	14°57	26°53	27°57	5°59	6°54	9°39	n.a.	F 13
S 14	17 13 32	17°56'59	13°19	2°58	3°34	16°40	4°17	7°17	14°55	26°53	27°56	5°R59	6°51	9°46	n.a.	S 14
S 15	17 17 29	18°54'08	26°11	4°48	4°38	17°22	4°10	7°15	14°53	26°53	27°55	5°59	6°48	9°52	n.a.	S 15
M16	17 21 25	19°51'18	8♎43	6°36	5°42	18° 3	4° 3	7°12	14°50	26°53	27°54	5°58	6°45	9°59	n.a.	M16
T 17	17 25 22	20°48'28	20°59	8°23	6°47	18°44	3°56	7°10	14°48	26°54	27°53	5°57	6°42	10° 6	n.a.	T 17
W18	17 29 18	21°45'38	3♏ 4	10° 7	7°51	19°25	3°48	7° 8	14°46	26°54	27°52	5°55	6°38	10°12	n.a.	W18
T 19	17 33 15	22°42'49	15° 1	11°49	8°56	20° 6	3°41	7° 5	14°44	26°54	27°51	5°53	6°35	10°19	n.a.	T 19
F 20	17 37 11	23°40'00	26°53	13°30	10° 1	20°47	3°33	7° 3	14°42	26°54	27°50	5°51	6°32	10°26	n.a.	F 20
S 21	17 41 8	24°37'12	8♐42	15° 9	11° 6	21°28	3°26	7° 0	14°40	26°54	27°49	5°50	6°29	10°32	n.a.	S 21
S 22	17 45 5	25°34'24	20°31	16°46	12°12	22° 9	3°18	6°57	14°37	26°55	27°48	5°49	6°26	10°39	n.a.	S 22
M23	17 49 1	26°31'37	2♑22	18°21	13°17	22°50	3°10	6°54	14°35	26°55	27°47	5°D48	6°23	10°46	n.a.	M23
T 24	17 52 58	27°28'51	14°18	19°54	14°23	23°30	3° 3	6°51	14°33	26°55	27°46	5°49	6°19	10°52	n.a.	T 24
W25	17 56 54	28°26'06	26°20	21°25	15°29	24°10	2°55	6°48	14°31	26°56	27°45	5°49	6°16	10°59	n.a.	W25
T 26	18 0 51	29°23'21	8♒32	22°55	16°35	24°51	2°47	6°45	14°28	26°56	27°44	5°50	6°13	11° 6	n.a.	T 26
F 27	18 4 47	0♋20'38	20°55	24°22	17°41	25°31	2°40	6°42	14°26	26°57	27°43	5°50	6°10	11°12	n.a.	F 27
S 28	18 8 44	1°17'55	3♓33	25°48	18°47	26°11	2°32	6°39	14°24	26°57	27°42	5°51	6° 7	11°19	n.a.	S 28
S 29	18 12 40	2°15'14	16°27	27°11	19°54	26°51	2°24	6°36	14°22	26°58	27°40	5°51	6° 3	11°26	n.a.	S 29
M30	18 16 37	3♋12'34	29♓42	28♋33	21♉ 1	27♈31	2♑16	6♒32	14♑19	26♍58	27♑39	5°R51	6♑ 0	11♐32	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n29	4s52	4n34	22n51	1n12	5n28	2s41	1n44	1s25	23s57	0s21	19s48	1s16	23s21	0s31	2n58	1n53	31s 2	10s30	23s34	23s30	24s26		n.a.
M 2	21 39	0n40	5 2	23 20	1 20	5 50	2 42	2 1	1 25	23 57	0 21	19 49	1 16	23 21	0 31	2 58	1 53	31 3	10 30	23 34	23 30	24 26		n.a.
T 3	21 49	6 20	5 13	23 46	1 26	6 12	2 43	2 18	1 25	23 57	0 21	19 49	1 16	23 21	0 31	2 58	1 53	31 3	10 30	23 34	23 30	24 27		n.a.
W 4	21 58	11 52	5 7	24 9	1 32	6 34	2 44	2 35	1 25	23 58	0 22	19 50	1 17	23 21	0 31	2 58	1 53	31 3	10 30	23 34	23 31	24 27		n.a.
T 5	22 7	16 54	4 41	24 30	1 38	6 56	2 44	2 52	1 24	23 58	0 22	19 50	1 17	23 22	0 31	2 58	1 53	31 4	10 31	23 35	23 31	24 27		n.a.
F 6	22 15	21 1	3 55	24 47	1 42	7 18	2 45	3 9	1 24	23 59	0 22	19 51	1 17	23 22	0 31	2 58	1 53	31 4	10 31	23 35	23 31	24 28		n.a.
S 7	22 24	23 46	2 53	25 2	1 46	7 40	2 45	3 26	1 24	23 59	0 22	19 51	1 17	23 22	0 31	2 58	1 53	31 5	10 31	23 35	23 31	24 28		n.a.
S 8	22 31	24 47	1 38	25 15	1 49	8 3	2 45	3 43	1 24	24 0	0 22	19 52	1 17	23 22	0 31	2 58	1 53	31 5	10 31	23 35	23 31	24 28		n.a.
M 9	22 39	23 57	0 16	25 24	1 52	8 25	2 46	3 59	1 23	24 0	0 22	19 52	1 18	23 23	0 31	2 58	1 53	31 5	10 32	23 35	23 31	24 28		n.a.
T 10	22 46	21 26	1s 6	25 31	1 53	8 47	2 46	4 16	1 23	24 1	0 23	19 53	1 18	23 23	0 31	2 58	1 53	31 6	10 32	23 35	23 32	24 29		n.a.
W11	22 52	17 34	2 21	25 36	1 54	9 10	2 45	4 33	1 23	24 1	0 23	19 54	1 18	23 23	0 31	2 58	1 53	31 6	10 32	23 35	23 32	24 29		n.a.
T 12	22 59	12 49	3 25	25 38	1 55	9 32	2 45	4 49	1 23	24 1	0 23	19 54	1 18	23 23	0 32	2 58	1 53	31 7	10 32	23 35	23 32	24 29		n.a.
F 13	23 4	7 34	4 16	25 37	1 54	9 54	2 45	5 6	1 22	24 2	0 23	19 55	1 18	23 23	0 32	2 58	1 52	31 7	10 33	23 35	23 32	24 29		n.a.
S 14	23 10	2 9	4 52	25 35	1 54	10 17	2 44	5 22	1 22	24 2	0 23	19 56	1 18	23 24	0 32	2 58	1 52	31 8	10 33	23 35	23 32	24 30		n.a.
S 15	23 15	3s13	5 11	25 30	1 52	10 39	2 44	5 38	1 22	24 3	0 24	19 57	1 19	23 24	0 32	2 58	1 52	31 8	10 33	23 35	23 32	24 30		n.a.
M16	23 19	8 19	5 16	25 23	1 50	11 1	2 43	5 54	1 21	24 3	0 24	19 57	1 19	23 24	0 32	2 58	1 52	31 8	10 33	23 35	23 33	24 30		n.a.
T 17	23 24	12 59	5 5	25 14	1 47	11 23	2 42	6 11	1 21	24 3	0 24	19 58	1 19	23 25	0 32	2 58	1 52	31 9	10 33	23 35	23 33	24 30		n.a.
W18	23 27	17 5	4 41	25 3	1 44	11 45	2 41	6 27	1 21	24 4	0 24	19 59	1 19	23 25	0 32	2 58	1 52	31 9	10 34	23 35	23 33	24 31		n.a.
T 19	23 31	20 26	4 6	24 51	1 40	12 7	2 40	6 43	1 20	24 4	0 24	20 0	1 19	23 25	0 32	2 57	1 52	31 10	10 34	23 35	23 33	24 31		n.a.
F 20	23 34	22 55	3 19	24 37	1 36	12 28	2 39	6 58	1 20	24 5	0 24	20 1	1 20	23 25	0 32	2 57	1 52	31 10	10 34	23 35	23 33	24 31		n.a.
S 21	23 36	24 23	2 25	24 22	1 31	12 50	2 38	7 14	1 20	24 5	0 25	20 1	1 20	23 26	0 32	2 57	1 52	31 11	10 34	23 35	23 33	24 31		n.a.
S 22	23 39	24 46	1 24	24 5	1 26	13 11	2 37	7 30	1 19	24 5	0 25	20 2	1 20	23 26	0 32	2 57	1 52	31 11	10 35	23 35	23 34	24 31		n.a.
M23	23 40	24 1	0 19	23 46	1 20	13 33	2 35	7 45	1 19	24 6	0 25	20 3	1 20	23 26	0 32	2 57	1 52	31 11	10 35	23 35	23 34	24 32		n.a.
T 24	23 42	22 10	0n47	23 27	1 14	13 54	2 34	8 1	1 18	24 6	0 25	20 4	1 20	23 26	0 32	2 57	1 52	31 12	10 35	23 35	23 34	24 32		n.a.
W25	23 43	19 18	1 52	23 6	1 8	14 14	2 32	8 16	1 18	24 6	0 25	20 5	1 21	23 27	0 32	2 56	1 52	31 12	10 35	23 35	23 34	24 32		n.a.
T 26	23 43	15 35	2 52	22 45	1 1	14 35	2 31	8 32	1 18	24 7	0 25	20 6	1 21	23 27	0 32	2 56	1 52	31 13	10 35	23 35	23 34	24 32		n.a.
F 27	23 43	11 8	3 45	22 22	0 53	14 55	2 29	8 47	1 17	24 7	0 26	20 7	1 21	23 27	0 32	2 56	1 52	31 13	10 36	23 35	23 34	24 32		n.a.
S 28	23 43	6 9	4 29	21 59	0 46	15 16	2 27	9 2	1 17	24 7	0 26	20 8	1 21	23 27	0 32	2 56	1 52	31 14	10 36	23 35	23 35	24 32		n.a.
S 29	23 42	0 48	5 0	21 35	0 38	15 36	2 25	9 17	1 16	24 8	0 26	20 9	1 21	23 28	0 32	2 55	1 52	31 14	10 36	23 35	23 35	24 32		n.a.
M30	23n41	4n42	5n16	21n10	0n29	15n55	2s23	9n32	1s16	24s 8	0s26	20s10	1s21	23s28	0s32	2n55	1n51	31s14	10s36	23s35	23s35	24s33		n.a.

Julian Day Number = 1653272.5, Delta T = 03h29m49s
Ecliptic obliquity = 23°43'05, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°38'39, Lahiri = - 6°31'39 Julian Calendar 1 June 187 BCE == Greg. Calendar 29 May 187 BCE

The year -186 astronomical counting style corresponds to year 187 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 187 BCE
geocentric

JULY 187 BCE (-186) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 20 34	4♋ 9'55	13♈19	29♋53	22♉ 8	28♈11	2°R 8	6°R29	14°R17	26♍59	27°R38	5°R51	5♐57	11♐39	n.a.	T 1
W 2	18 24 30	5° 7'17	27°18	1♌10	23°15	28°51	2♐ 1	6♒25	14♐15	27° 0	27♐37	5♐51	5°54	11°46	n.a.	W 2
T 3	18 28 27	6° 4'41	11♉40	2°26	24°22	29°30	1°53	6°22	14°12	27° 0	27°36	5°D51	5°51	11°52	n.a.	T 3
F 4	18 32 23	7° 2'06	26°21	3°39	25°29	0♉10	1°45	6°18	14°10	27° 1	27°35	5°51	5°48	11°59	n.a.	F 4
S 5	18 36 20	7°59'32	11♊16	4°50	26°37	0°49	1°37	6°15	14° 7	27° 2	27°33	5°51	5°44	12° 6	n.a.	S 5
S 6	18 40 16	8°57'00	26°18	5°59	27°44	1°28	1°30	6°11	14° 5	27° 2	27°32	5°51	5°41	12°12	n.a.	S 6
M 7	18 44 13	9°54'29	11♋19	7° 5	28°52	2° 7	1°22	6° 7	14° 3	27° 3	27°31	5°R51	5°38	12°19	n.a.	M 7
T 8	18 48 9	10°51'59	26°11	8° 9	0♊ 0	2°46	1°15	6° 3	14° 0	27° 4	27°30	5°51	5°35	12°26	n.a.	T 8
W 9	18 52 6	11°49'30	10♌45	9°10	1° 8	3°25	1° 7	5°59	13°58	27° 5	27°28	5°51	5°32	12°32	n.a.	W 9
T 10	18 56 3	12°47'02	24°56	10° 9	2°16	4° 4	1° 0	5°55	13°55	27° 6	27°27	5°50	5°29	12°39	n.a.	T 10
F 11	18 59 59	13°44'35	8♍42	11° 4	3°25	4°43	0°52	5°51	13°53	27° 7	27°26	5°49	5°25	12°46	n.a.	F 11
S 12	19 3 56	14°42'09	22° 2	11°57	4°33	5°21	0°45	5°47	13°51	27° 7	27°25	5°48	5°22	12°52	n.a.	S 12
S 13	19 7 52	15°39'44	4♎57	12°46	5°42	5°59	0°37	5°43	13°48	27° 8	27°23	5°48	5°19	12°59	n.a.	S 13
M14	19 11 49	16°37'20	17°30	13°33	6°50	6°38	0°30	5°39	13°46	27° 9	27°22	5°D48	5°16	13° 5	n.a.	M14
T 15	19 15 45	17°34'57	29°46	14°15	7°59	7°16	0°23	5°35	13°43	27°10	27°21	5°48	5°13	13°12	n.a.	T 15
W16	19 19 42	18°32'36	11♏48	14°54	9° 8	7°54	0°16	5°30	13°41	27°11	27°19	5°49	5° 9	13°19	n.a.	W16
T 17	19 23 38	19°30'15	23°42	15°29	10°17	8°31	0° 9	5°26	13°39	27°13	27°18	5°50	5° 6	13°25	n.a.	T 17
F 18	19 27 35	20°27'56	5♐31	16° 0	11°26	9° 9	0° 2	5°22	13°36	27°14	27°17	5°51	5° 3	13°32	n.a.	F 18
S 19	19 31 32	21°25'38	17°20	16°27	12°36	9°47	29♐55	5°18	13°34	27°15	27°16	5°52	5° 0	13°39	n.a.	S 19
S 20	19 35 28	22°23'22	29°11	16°49	13°45	10°24	29°49	5°13	13°32	27°16	27°14	5°53	4°57	13°45	n.a.	S 20
M21	19 39 25	23°21'07	11♑ 9	17° 6	14°55	11° 1	29°42	5° 9	13°29	27°17	27°13	5°R53	4°54	13°52	n.a.	M21
T 22	19 43 21	24°18'53	23°14	17°19	16° 4	11°38	29°36	5° 4	13°27	27°18	27°12	5°52	4°50	13°59	n.a.	T 22
W23	19 47 18	25°16'41	5♒29	17°25	17°14	12°15	29°30	5° 0	13°25	27°20	27°10	5°50	4°47	14° 5	n.a.	W23
T 24	19 51 14	26°14'30	17°56	17°R27	18°24	12°52	29°23	4°55	13°22	27°21	27° 9	5°48	4°44	14°12	n.a.	T 24
F 25	19 55 11	27°12'21	0♓36	17°23	19°34	13°29	29°17	4°51	13°20	27°22	27° 8	5°45	4°41	14°19	n.a.	F 25
S 26	19 59 7	28°10'14	13°28	17°13	20°44	14° 5	29°11	4°46	13°18	27°24	27° 6	5°41	4°38	14°25	n.a.	S 26
S 27	20 3 4	29° 8'09	26°35	16°57	21°54	14°42	29° 6	4°42	13°15	27°25	27° 5	5°38	4°35	14°32	n.a.	S 27
M28	20 7 1	0♌ 6'05	9♈57	16°35	23° 4	15°18	29° 0	4°37	13°13	27°26	27° 4	5°36	4°31	14°39	n.a.	M28
T 29	20 10 57	1° 4'04	23°34	16° 7	24°15	15°54	28°54	4°33	13°11	27°28	27° 3	5°35	4°28	14°45	n.a.	T 29
W30	20 14 54	2° 2'04	7♉27	15°33	25°25	16°30	28°49	4°28	13° 9	27°29	27° 1	5°D35	4°25	14°52	n.a.	W30
T 31	20 18 50	3♌ 0'07	21♉35	14♌54	26♊36	17♉ 6	28♐44	4♒24	13♑ 6	27♍31	27♑ 0	5♑36	4♑22	14♐59	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23n39	10n 8	5n15	20n45	0n20	16n15	2s21	9n47	1s15	24s 8	0s26	20s11	1s22	23s28	0s32	2n55	1n51	31s15	10s36	23s35	23s35	24s33			n.a.
W 2	23 37	15 13	4 56	20 19	0 11	16 34	2 19	10 1	1 15	24 9	0 26	20 12	1 22	23 28	0 32	2 55	1 51	31 15	10 36	23 35	23 35	24 33			n.a.
T 3	23 35	19 35	4 18	19 53	0 2	16 53	2 16	10 16	1 14	24 9	0 27	20 13	1 22	23 29	0 32	2 54	1 51	31 16	10 37	23 35	23 35	24 33			n.a.
F 4	23 32	22 50	3 22	19 26	0s 8	17 11	2 14	10 30	1 14	24 9	0 27	20 14	1 22	23 29	0 32	2 54	1 51	31 16	10 37	23 35	23 35	24 33			n.a.
S 5	23 28	24 35	2 12	18 59	0 18	17 29	2 12	10 45	1 13	24 9	0 27	20 15	1 22	23 29	0 32	2 54	1 51	31 16	10 37	23 35	23 36	24 33			n.a.
S 6	23 25	24 33	0 53	18 33	0 28	17 47	2 9	10 59	1 13	24 10	0 27	20 16	1 22	23 29	0 32	2 53	1 51	31 17	10 37	23 35	23 36	24 33			n.a.
M 7	23 21	22 44	0s30	18 6	0 38	18 5	2 7	11 13	1 12	24 10	0 27	20 17	1 22	23 30	0 32	2 53	1 51	31 17	10 37	23 35	23 36	24 33			n.a.
T 8	23 16	19 21	1 51	17 39	0 49	18 22	2 4	11 27	1 12	24 10	0 27	20 19	1 23	23 30	0 32	2 52	1 51	31 18	10 37	23 35	23 36	24 33			n.a.
W 9	23 11	14 50	3 2	17 12	1 0	18 38	2 2	11 41	1 11	24 10	0 27	20 20	1 23	23 30	0 32	2 52	1 51	31 18	10 37	23 35	23 36	24 34			n.a.
T 10	23 6	9 35	4 0	16 46	1 11	18 55	1 59	11 55	1 11	24 10	0 28	20 21	1 23	23 31	0 32	2 52	1 51	31 18	10 38	23 35	23 36	24 34			n.a.
F 11	23 0	4 2	4 43	16 20	1 22	19 11	1 56	12 8	1 10	24 11	0 28	20 22	1 23	23 31	0 32	2 51	1 51	31 19	10 38	23 35	23 36	24 34			n.a.
S 12	22 54	1s31	5 8	15 55	1 34	19 26	1 54	12 22	1 10	24 11	0 28	20 23	1 23	23 31	0 32	2 51	1 51	31 19	10 38	23 35	23 36	24 34			n.a.
S 13	22 47	6 50	5 17	15 30	1 45	19 41	1 51	12 35	1 9	24 11	0 28	20 24	1 23	23 31	0 32	2 50	1 51	31 20	10 38	23 35	23 37	24 34			n.a.
M14	22 40	11 43	5 11	15 5	1 57	19 56	1 48	12 48	1 9	24 11	0 28	20 26	1 23	23 32	0 32	2 50	1 51	31 20	10 38	23 35	23 37	24 34			n.a.
T 15	22 33	16 2	4 50	14 42	2 8	20 10	1 45	13 2	1 8	24 11	0 28	20 27	1 24	23 32	0 32	2 49	1 51	31 20	10 38	23 35	23 37	24 34			n.a.
W16	22 25	19 37	4 17	14 20	2 20	20 24	1 42	13 15	1 7	24 11	0 28	20 28	1 24	23 32	0 32	2 49	1 51	31 21	10 38	23 35	23 37	24 34			n.a.
T 17	22 17	22 21	3 33	13 58	2 31	20 37	1 39	13 27	1 7	24 11	0 28	20 29	1 24	23 32	0 32	2 49	1 51	31 21	10 38	23 35	23 37	24 34			n.a.
F 18	22 8	24 6	2 40	13 38	2 43	20 50	1 36	13 40	1 6	24 12	0 28	20 30	1 24	23 33	0 32	2 48	1 50	31 21	10 38	23 35	23 37	24 34			n.a.
S 19	21 59	24 47	1 41	13 19	2 54	21 2	1 33	13 53	1 5	24 12	0 29	20 31	1 24	23 33	0 32	2 48	1 50	31 22	10 38	23 35	23 37	24 34			n.a.
S 20	21 50	24 20	0 37	13 2	3 5	21 14	1 30	14 5	1 5	24 12	0 29	20 33	1 24	23 33	0 32	2 47	1 50	31 22	10 39	23 35	23 37	24 34			n.a.
M21	21 40	22 46	0n29	12 47	3 16	21 25	1 27	14 18	1 4	24 12	0 29	20 34	1 24	23 33	0 32	2 46	1 50	31 23	10 39	23 35	23 38	24 34			n.a.
T 22	21 30	20 8	1 34	12 33	3 26	21 36	1 23	14 30	1 3	24 12	0 29	20 35	1 24	23 34	0 32	2 46	1 50	31 23	10 39	23 35	23 38	24 34			n.a.
W23	21 20	16 36	2 36	12 21	3 36	21 46	1 20	14 42	1 3	24 12	0 29	20 36	1 25	23 34	0 32	2 45	1 50	31 23	10 39	23 35	23 38	24 34			n.a.
T 24	21 9	12 17	3 32	12 12	3 46	21 55	1 17	14 54	1 2	24 12	0 29	20 37	1 25	23 34	0 32	2 45	1 50	31 24	10 39	23 35	23 38	24 34			n.a.
F 25	20 58	7 23	4 18	12 5	3 55	22 4	1 14	15 6	1 1	24 12	0 29	20 39	1 25	23 34	0 32	2 44	1 50	31 24	10 39	23 35	23 38	24 34			n.a.
S 26	20 46	2 6	4 51	12 0	4 3	22 13	1 11	15 17	1 1	24 12	0 29	20 40	1 25	23 35	0 32	2 44	1 50	31 24	10 39	23 36	23 38	24 34			n.a.
S 27	20 34	3n22	5 11	11 58	4 10	22 21	1 7	15 29	1 0	24 12	0 29	20 41	1 25	23 35	0 32	2 43	1 50	31 25	10 39	23 36	23 38	24 34			n.a.
M28	20 22	8 47	5 14	11 59	4 16	22 28	1 4	15 40	0 59	24 12	0 30	20 42	1 25	23 35	0 32	2 43	1 50	31 25	10 39	23 36	23 38	24 34			n.a.
T 29	20 9	13 52	4 59	12 2	4 21	22 35	1 1	15 52	0 58	24 12	0 30	20 44	1 25	23 35	0 32	2 42	1 50	31 25	10 39	23 36	23 38	24 34			n.a.
W30	19 56	18 21	4 27	12 9	4 25	22 41	0 57	16 3	0 58	24 12	0 30	20 45	1 25	23 35	0 32	2 41	1 50	31 25	10 39	23 36	23 39	24 34			n.a.
T 31	19n43	21n53	3n39	12n18	4s27	22n46	0s54	16n14	0s57	24s13	0s30	20s46	1s25	23s36	0s32	2n41	1n50	31s26	10s39	23s36	23s39	24s34			n.a.

Julian Day Number = 1653302.5, Delta T = 03h29m48s
Ecliptic obliquity = 23°43'05, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°38'35, Lahiri = - 6°31'35 Julian Calendar 1 July 187 BCE == Greg. Calendar 28 June 187 BCE

The year -186 astronomical counting style corresponds to year 187 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 187 BCE
geocentric

AUGUST 187 BCE (-186) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 22 47	3♌58'12	5♊57	14°R 9	27♊47	17♉42	28°R39	4°R19	13°R 4	27♍32	26°R59	5♏37	4♏19	15♐ 5	n.a.	F 1
S 2	20 26 43	4°56'19	20°30	13♌20	28°57	18°17	28♐34	4♒14	13♏ 2	27°34	26♏57	5°38	4°15	15°12	n.a.	S 2
S 3	20 30 40	5°54'28	5♋11	12°28	0♋ 8	18°52	28°29	4°10	13° 0	27°35	26°56	5°R39	4°12	15°19	n.a.	S 3
M 4	20 34 36	6°52'39	19°53	11°32	1°19	19°27	28°24	4° 5	12°58	27°37	26°55	5°38	4° 9	15°25	n.a.	M 4
T 5	20 38 33	7°50'52	4♌30	10°34	2°30	20° 2	28°20	4° 1	12°56	27°38	26°53	5°36	4° 6	15°32	n.a.	T 5
W 6	20 42 30	8°49'06	18°56	9°36	3°42	20°37	28°16	3°56	12°54	27°40	26°52	5°32	4° 3	15°39	n.a.	W 6
T 7	20 46 26	9°47'22	3♍ 4	8°38	4°53	21°11	28°12	3°52	12°51	27°41	26°51	5°27	4° 0	15°45	n.a.	T 7
F 8	20 50 23	10°45'41	16°50	7°42	6° 4	21°46	28° 8	3°47	12°49	27°43	26°50	5°22	3°56	15°52	n.a.	F 8
S 9	20 54 19	11°44'00	0♎12	6°49	7°16	22°20	28° 4	3°43	12°47	27°45	26°48	5°16	3°53	15°59	n.a.	S 9
S 10	20 58 16	12°42'22	13° 9	6° 0	8°27	22°54	28° 0	3°38	12°45	27°46	26°47	5°12	3°50	16° 5	n.a.	S 10
M11	21 2 12	13°40'45	25°45	5°17	9°39	23°28	27°57	3°34	12°43	27°48	26°46	5° 9	3°47	16°12	n.a.	M11
T 12	21 6 9	14°39'10	8♏ 2	4°40	10°51	24° 1	27°54	3°29	12°42	27°50	26°45	5° 7	3°44	16°18	n.a.	T 12
W13	21 10 5	15°37'37	20° 4	4°11	12° 2	24°35	27°51	3°25	12°40	27°52	26°43	5°D 7	3°41	16°25	n.a.	W13
T 14	21 14 2	16°36'05	1♐57	3°50	13°14	25° 8	27°48	3°20	12°38	27°53	26°42	5° 8	3°37	16°32	n.a.	T 14
F 15	21 17 59	17°34'35	13°46	3°38	14°26	25°41	27°45	3°16	12°36	27°55	26°41	5° 9	3°34	16°38	n.a.	F 15
S 16	21 21 55	18°33'07	25°35	3°D36	15°38	26°14	27°43	3°12	12°34	27°57	26°40	5°11	3°31	16°45	n.a.	S 16
S 17	21 25 52	19°31'41	7♑30	3°42	16°50	26°46	27°41	3° 7	12°32	27°59	26°39	5°R11	3°28	16°52	n.a.	S 17
M18	21 29 48	20°30'16	19°34	3°58	18° 3	27°18	27°39	3° 3	12°31	28° 1	26°37	5°10	3°25	16°58	n.a.	M18
T 19	21 33 45	21°28'54	1♒50	4°24	19°15	27°51	27°37	2°59	12°29	28° 3	26°36	5° 7	3°21	17° 5	n.a.	T 19
W20	21 37 41	22°27'33	14°20	4°58	20°27	28°22	27°35	2°55	12°27	28° 4	26°35	5° 1	3°18	17°12	n.a.	W20
T 21	21 41 38	23°26'15	27° 6	5°41	21°40	28°54	27°34	2°51	12°26	28° 6	26°34	4°54	3°15	17°18	n.a.	T 21
F 22	21 45 34	24°24'58	10♓ 7	6°33	22°52	29°25	27°32	2°46	12°24	28° 8	26°33	4°46	3°12	17°25	n.a.	F 22
S 23	21 49 31	25°23'43	23°22	7°32	24° 5	29°57	27°31	2°42	12°23	28°10	26°32	4°37	3° 9	17°32	n.a.	S 23
S 24	21 53 27	26°22'31	6♈50	8°38	25°18	0♊28	27°30	2°38	12°21	28°12	26°31	4°29	3° 6	17°38	n.a.	S 24
M25	21 57 24	27°21'21	20°29	9°51	26°30	0°58	27°29	2°35	12°20	28°14	26°29	4°22	3° 2	17°45	n.a.	M25
T 26	22 1 21	28°20'14	4♉17	11°10	27°43	1°29	27°29	2°31	12°18	28°16	26°28	4°17	2°59	17°52	n.a.	T 26
W27	22 5 17	29°19'09	18°13	12°34	28°56	1°59	27°29	2°27	12°17	28°18	26°27	4°15	2°56	17°58	n.a.	W27
T 28	22 9 14	0♍18'06	2♊16	14° 2	0♌ 9	2°29	27°D28	2°23	12°15	28°20	26°26	4°D14	2°53	18° 5	n.a.	T 28
F 29	22 13 10	1°17'06	16°24	15°35	1°22	2°59	27°29	2°19	12°14	28°22	26°25	4°15	2°50	18°12	n.a.	F 29
S 30	22 17 7	2°16'08	0♋37	17°10	2°35	3°28	27°29	2°16	12°13	28°24	26°24	4°R16	2°47	18°18	n.a.	S 30
S 31	22 21 3	3♍15'13	14♋54	18♌49	3♌49	3♊57	27♐29	2♒12	12♏12	28♍26	26♏23	4♏15	2♏43	18♐25	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	19n29	24n 6	2n36	12n31	4s27	22n51	0s51	16n24	0s56	24s13	0s30	20s47	1s25	23s36	0s32	2n40	1n50	31s26	10s39	23s36	23s39	24s34		n.a.
S 2	19 15	24 44	1 22	12 46	4 26	22 55	0 48	16 35	0 55	24 13	0 30	20 48	1 25	23 36	0 32	2 39	1 50	31 26	10 39	23 36	23 39	24 34		n.a.
S 3	19 1	23 39	0 3	13 4	4 23	22 59	0 44	16 46	0 55	24 13	0 30	20 49	1 26	23 36	0 32	2 39	1 50	31 27	10 39	23 36	23 39	24 33		n.a.
M 4	18 46	20 57	1s17	13 24	4 18	23 2	0 41	16 56	0 54	24 13	0 30	20 51	1 26	23 36	0 32	2 38	1 50	31 27	10 39	23 36	23 39	24 33		n.a.
T 5	18 31	16 55	2 31	13 46	4 10	23 4	0 38	17 6	0 53	24 13	0 30	20 52	1 26	23 37	0 32	2 37	1 50	31 27	10 39	23 36	23 39	24 33		n.a.
W 6	18 16	11 55	3 35	14 11	4 1	23 6	0 34	17 17	0 52	24 13	0 30	20 53	1 26	23 37	0 32	2 37	1 50	31 27	10 39	23 36	23 39	24 33		n.a.
T 7	18 0	6 25	4 23	14 37	3 50	23 7	0 31	17 27	0 51	24 13	0 30	20 54	1 26	23 37	0 32	2 36	1 50	31 28	10 39	23 36	23 39	24 33		n.a.
F 8	17 44	0 44	4 55	15 3	3 38	23 7	0 28	17 36	0 50	24 13	0 30	20 55	1 26	23 37	0 32	2 35	1 50	31 28	10 39	23 36	23 40	24 33		n.a.
S 9	17 28	4s49	5 10	15 31	3 23	23 7	0 24	17 46	0 50	24 13	0 30	20 56	1 26	23 37	0 32	2 35	1 49	31 28	10 39	23 37	23 40	24 33		n.a.
S 10	17 12	9 58	5 8	15 58	3 7	23 6	0 21	17 56	0 49	24 13	0 31	20 58	1 26	23 38	0 32	2 34	1 49	31 28	10 39	23 37	23 40	24 33		n.a.
M11	16 55	14 35	4 52	16 25	2 50	23 4	0 18	18 5	0 48	24 13	0 31	20 59	1 26	23 38	0 32	2 33	1 49	31 29	10 39	23 37	23 40	24 33		n.a.
T 12	16 38	18 28	4 22	16 51	2 32	23 2	0 15	18 14	0 47	24 13	0 31	21 0	1 26	23 38	0 32	2 32	1 49	31 29	10 39	23 37	23 40	24 32		n.a.
W13	16 20	21 30	3 41	17 16	2 14	22 59	0 11	18 24	0 46	24 13	0 31	21 1	1 26	23 38	0 32	2 32	1 49	31 29	10 39	23 37	23 40	24 32		n.a.
T 14	16 3	23 35	2 51	17 39	1 55	22 55	0 8	18 33	0 45	24 13	0 31	21 2	1 26	23 38	0 32	2 31	1 49	31 29	10 39	23 37	23 40	24 32		n.a.
F 15	15 45	24 36	1 54	18 1	1 36	22 51	0 5	18 41	0 44	24 13	0 31	21 3	1 26	23 39	0 32	2 30	1 49	31 30	10 39	23 37	23 40	24 32		n.a.
S 16	15 26	24 30	0 52	18 20	1 17	22 46	0 2	18 50	0 43	24 13	0 31	21 4	1 26	23 39	0 32	2 29	1 49	31 30	10 39	23 37	23 40	24 32		n.a.
S 17	15 8	23 18	0n13	18 36	0 58	22 40	0n 1	18 59	0 42	24 13	0 31	21 5	1 26	23 39	0 32	2 29	1 49	31 30	10 39	23 37	23 40	24 32		n.a.
M18	14 49	21 0	1 17	18 50	0 40	22 34	0 4	19 7	0 41	24 13	0 31	21 6	1 26	23 39	0 32	2 28	1 49	31 30	10 39	23 37	23 40	24 31		n.a.
T 19	14 30	17 43	2 19	19 1	0 23	22 26	0 7	19 15	0 40	24 13	0 31	21 7	1 26	23 39	0 32	2 27	1 49	31 30	10 39	23 37	23 40	24 31		n.a.
W20	14 11	13 36	3 15	19 9	0 6	22 19	0 11	19 24	0 39	24 13	0 31	21 8	1 26	23 39	0 32	2 26	1 49	31 31	10 39	23 37	23 41	24 31		n.a.
T 21	13 52	8 49	4 3	19 13	0n10	22 10	0 14	19 32	0 38	24 13	0 31	21 9	1 26	23 39	0 32	2 26	1 49	31 31	10 39	23 38	23 41	24 31		n.a.
F 22	13 32	3 34	4 39	19 15	0 24	22 1	0 17	19 40	0 37	24 13	0 31	21 10	1 26	23 40	0 32	2 25	1 49	31 31	10 38	23 38	23 41	24 31		n.a.
S 23	13 12	1n56	5 1	19 12	0 38	21 52	0 19	19 47	0 36	24 13	0 31	21 11	1 27	23 40	0 32	2 24	1 49	31 31	10 38	23 38	23 41	24 30		n.a.
S 24	12 52	7 25	5 6	19 7	0 50	21 42	0 22	19 55	0 35	24 13	0 31	21 12	1 27	23 40	0 32	2 23	1 49	31 31	10 38	23 38	23 41	24 30		n.a.
M25	12 32	12 37	4 55	18 58	1 1	21 31	0 25	20 2	0 34	24 13	0 31	21 13	1 27	23 40	0 32	2 22	1 49	31 31	10 38	23 39	23 41	24 30		n.a.
T 26	12 11	17 15	4 26	18 46	1 11	21 19	0 28	20 10	0 33	24 13	0 31	21 14	1 27	23 40	0 32	2 21	1 49	31 31	10 38	23 39	23 41	24 30		n.a.
W27	11 51	20 59	3 41	18 31	1 20	21 7	0 31	20 17	0 32	24 13	0 31	21 15	1 27	23 40	0 32	2 21	1 49	31 32	10 38	23 39	23 41	24 30		n.a.
T 28	11 30	23 31	2 43	18 13	1 28	20 54	0 34	20 24	0 31	24 13	0 32	21 16	1 27	23 40	0 32	2 20	1 49	31 32	10 38	23 39	23 41	24 29		n.a.
F 29	11 9	24 35	1 34	17 51	1 35	20 40	0 36	20 31	0 29	24 13	0 32	21 17	1 27	23 40	0 32	2 19	1 49	31 32	10 38	23 39	23 41	24 29		n.a.
S 30	10 47	24 2	0 19	17 27	1 40	20 26	0 39	20 38	0 28	24 13	0 32	21 17	1 27	23 41	0 32	2 18	1 49	31 32	10 38	23 39	23 41	24 29		n.a.
S 31	10n26	21n56	0s57	17n 1	1n45	20n12	0n41	20n45	0s27	24s13	0s32	21s18	1s27	23s41	0s32	2n17	1n49	31s32	10s38	23s39	23s41	24s29		n.a.

Julian Day Number = 1653333.5, Delta T = 03h29m47s
Ecliptic obliquity = 23°43'05, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°38'31, Lahiri = - 6°31'30 Julian Calendar 1 Aug. 187 BCE == Greg. Calendar 29 July 187 BCE

The year -186 astronomical counting style corresponds to year 187 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 187 BCE
geocentric

SEPTEMBER 187 BCE (-186) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 25 0	4♍14'20	29♋10	20♌30	5♌ 2	4♊26	27♐30	2°R 9	12°R10	28♍28	26°R22	4°R13	2♑40	18♐31	n.a.	M 1
T 2	22 28 56	5°13'29	13♌23	22°12	6°15	4°55	27°31	2♒ 5	12♑ 9	28°31	26♑21	4♑ 8	2°37	18°38	n.a.	T 2
W 3	22 32 53	6°12'41	27°28	23°56	7°29	5°23	27°32	2° 2	12° 8	28°33	26°20	4° 0	2°34	18°45	n.a.	W 3
T 4	22 36 50	7°11'54	11♍20	25°41	8°42	5°51	27°33	1°58	12° 7	28°35	26°19	3°50	2°31	18°51	n.a.	T 4
F 5	22 40 46	8°11'10	24°55	27°27	9°56	6°19	27°35	1°55	12° 6	28°37	26°18	3°39	2°27	18°58	n.a.	F 5
S 6	22 44 43	9°10'28	8♎11	29°14	11° 9	6°46	27°36	1°52	12° 5	28°39	26°18	3°28	2°24	19° 5	n.a.	S 6
S 7	22 48 39	10° 9'48	21° 6	1♍ 0	12°23	7°13	27°38	1°49	12° 4	28°41	26°17	3°18	2°21	19°11	n.a.	S 7
M 8	22 52 36	11° 9'09	3♏40	2°47	13°37	7°40	27°40	1°46	12° 3	28°43	26°16	3°10	2°18	19°18	n.a.	M 8
T 9	22 56 32	12° 8'33	15°57	4°33	14°51	8° 6	27°42	1°43	12° 2	28°45	26°15	3° 5	2°15	19°25	n.a.	T 9
W10	23 0 29	13° 7'59	27°59	6°20	16° 4	8°32	27°45	1°40	12° 2	28°48	26°14	3° 1	2°12	19°31	n.a.	W10
T 11	23 4 25	14° 7'27	9♐51	8° 6	17°18	8°58	27°47	1°37	12° 1	28°50	26°13	3°D 0	2° 8	19°38	n.a.	T 11
F 12	23 8 22	15° 6'56	21°40	9°52	18°32	9°23	27°50	1°35	12° 0	28°52	26°13	3° 0	2° 5	19°45	n.a.	F 12
S 13	23 12 19	16° 6'27	3♑29	11°37	19°46	9°48	27°53	1°32	12° 0	28°54	26°12	3°R 0	2° 2	19°51	n.a.	S 13
S 14	23 16 15	17° 6'01	15°26	13°22	21° 0	10°13	27°56	1°30	11°59	28°56	26°11	3° 0	1°59	19°58	n.a.	S 14
M15	23 20 12	18° 5'36	27°33	15° 6	22°14	10°37	28° 0	1°27	11°58	28°59	26°10	2°57	1°56	20° 5	n.a.	M15
T 16	23 24 8	19° 5'13	9♒57	16°49	23°29	11° 1	28° 3	1°25	11°58	29° 1	26°10	2°52	1°52	20°11	n.a.	T 16
W17	23 28 5	20° 4'52	22°39	18°32	24°43	11°25	28° 7	1°23	11°57	29° 3	26° 9	2°44	1°49	20°18	n.a.	W17
T 18	23 32 1	21° 4'32	5♓42	20°15	25°57	11°48	28°11	1°20	11°57	29° 5	26° 8	2°34	1°46	20°25	n.a.	T 18
F 19	23 35 58	22° 4'15	19° 4	21°56	27°11	12°10	28°15	1°18	11°57	29° 8	26° 8	2°22	1°43	20°31	n.a.	F 19
S 20	23 39 54	23° 4'00	2♈44	23°37	28°26	12°33	28°19	1°16	11°56	29°10	26° 7	2°10	1°40	20°38	n.a.	S 20
S 21	23 43 51	24° 3'47	16°39	25°18	29°40	12°55	28°24	1°15	11°56	29°12	26° 6	1°58	1°37	20°44	n.a.	S 21
M22	23 47 47	25° 3'36	0♉43	26°58	0♍55	13°16	28°28	1°13	11°56	29°14	26° 6	1°48	1°33	20°51	n.a.	M22
T 23	23 51 44	26° 3'28	14°53	28°37	2° 9	13°37	28°33	1°11	11°56	29°16	26° 5	1°40	1°30	20°58	n.a.	T 23
W24	23 55 41	27° 3'22	29° 5	0♎15	3°24	13°58	28°38	1° 9	11°56	29°19	26° 5	1°36	1°27	21° 4	n.a.	W24
T 25	23 59 37	28° 3'18	13♊15	1°53	4°38	14°18	28°43	1° 8	11°D56	29°21	26° 4	1°34	1°24	21°11	n.a.	T 25
F 26	0 3 34	29° 3'16	27°22	3°31	5°53	14°37	28°49	1° 7	11°56	29°23	26° 4	1°33	1°21	21°18	n.a.	F 26
S 27	0 7 30	0♎ 3'17	11♋25	5° 8	7° 8	14°57	28°54	1° 5	11°56	29°25	26° 3	1°33	1°18	21°24	n.a.	S 27
S 28	0 11 27	1° 3'20	25°23	6°44	8°22	15°15	29° 0	1° 4	11°56	29°28	26° 3	1°32	1°14	21°31	n.a.	S 28
M29	0 15 23	2° 3'26	9♌17	8°20	9°37	15°34	29° 6	1° 3	11°56	29°30	26° 3	1°29	1°11	21°38	n.a.	M29
T 30	0 19 20	3♎ 3'33	23♌ 4	9♎56	10♍52	15♊51	29♐12	1♒ 2	11♑56	29♍32	26♑ 2	1♑22	1♑ 8	21♐44	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	10n 4	18n27	2s 9	16n32	1n48	19n56	0n44	20n51	0s26	24s13	0s32	21s19	1s27	23s41	0s32	2n16	1n49	31s32	10s37	23s39	23s41	24s28		n.a.
T 2	9 42	13 55	3 13	16 1	1 51	19 40	0 46	20 58	0 25	24 13	0 32	21 20	1 27	23 41	0 32	2 16	1 49	31 32	10 37	23 39	23 42	24 28		n.a.
W 3	9 20	8 40	4 4	15 28	1 53	19 24	0 49	21 4	0 23	24 13	0 32	21 21	1 27	23 41	0 32	2 15	1 49	31 32	10 37	23 39	23 42	24 28		n.a.
T 4	8 58	3 5	4 40	14 53	1 53	19 7	0 51	21 10	0 22	24 13	0 32	21 21	1 27	23 41	0 32	2 14	1 49	31 32	10 37	23 40	23 42	24 27		n.a.
F 5	8 36	2s32	5 0	14 16	1 54	18 49	0 53	21 16	0 21	24 14	0 32	21 22	1 27	23 41	0 32	2 13	1 49	31 32	10 37	23 40	23 42	24 27		n.a.
S 6	8 13	7 54	5 2	13 38	1 53	18 31	0 56	21 22	0 20	24 14	0 32	21 23	1 26	23 41	0 32	2 12	1 49	31 32	10 37	23 40	23 42	24 27		n.a.
S 7	7 51	12 46	4 49	12 59	1 52	18 13	0 58	21 28	0 18	24 14	0 32	21 23	1 26	23 41	0 32	2 11	1 49	31 32	10 37	23 41	23 42	24 27		n.a.
M 8	7 28	16 59	4 22	12 19	1 50	17 53	1 0	21 34	0 17	24 14	0 32	21 24	1 26	23 41	0 32	2 10	1 49	31 32	10 37	23 41	23 42	24 26		n.a.
T 9	7 5	20 21	3 43	11 37	1 48	17 34	1 2	21 39	0 16	24 14	0 32	21 25	1 26	23 41	0 32	2 9	1 49	31 32	10 36	23 41	23 42	24 26		n.a.
W10	6 42	22 47	2 55	10 55	1 45	17 13	1 4	21 45	0 14	24 14	0 32	21 25	1 26	23 41	0 31	2 9	1 49	31 33	10 36	23 41	23 42	24 26		n.a.
T 11	6 19	24 10	2 0	10 12	1 42	16 53	1 6	21 50	0 13	24 14	0 32	21 26	1 26	23 41	0 31	2 8	1 49	31 33	10 36	23 41	23 42	24 25		n.a.
F 12	5 56	24 27	1 0	9 29	1 38	16 31	1 8	21 56	0 12	24 14	0 32	21 27	1 26	23 41	0 31	2 7	1 49	31 33	10 36	23 41	23 42	24 25		n.a.
S 13	5 33	23 38	0n 3	8 44	1 34	16 10	1 10	22 1	0 10	24 14	0 32	21 27	1 26	23 41	0 31	2 6	1 49	31 33	10 36	23 41	23 42	24 25		n.a.
S 14	5 9	21 44	1 6	8 0	1 30	15 47	1 12	22 6	0 9	24 14	0 32	21 28	1 26	23 42	0 31	2 5	1 49	31 33	10 36	23 41	23 42	24 24		n.a.
M15	4 46	18 50	2 6	7 15	1 25	15 25	1 13	22 11	0 7	24 14	0 32	21 28	1 26	23 42	0 31	2 4	1 49	31 33	10 35	23 41	23 42	24 24		n.a.
T 16	4 22	15 2	3 3	6 30	1 20	15 2	1 15	22 16	0 6	24 14	0 32	21 29	1 26	23 42	0 31	2 3	1 49	31 32	10 35	23 41	23 42	24 24		n.a.
W17	3 58	10 29	3 51	5 44	1 15	14 38	1 17	22 20	0 4	24 14	0 32	21 29	1 26	23 42	0 31	2 2	1 49	31 32	10 35	23 41	23 42	24 23		n.a.
T 18	3 35	5 22	4 29	4 59	1 10	14 14	1 18	22 25	0 3	24 14	0 32	21 30	1 26	23 42	0 31	2 1	1 49	31 32	10 35	23 42	23 42	24 23		n.a.
F 19	3 11	0n 6	4 53	4 13	1 4	13 50	1 19	22 30	0 1	24 15	0 32	21 30	1 26	23 42	0 31	2 1	1 49	31 32	10 35	23 42	23 42	24 22		n.a.
S 20	2 47	5 41	5 1	3 27	0 58	13 25	1 21	22 34	0n 0	24 15	0 32	21 30	1 26	23 42	0 31	2 0	1 49	31 32	10 35	23 42	23 42	24 22		n.a.
S 21	2 23	11 5	4 51	2 42	0 52	13 0	1 22	22 38	0 2	24 15	0 32	21 31	1 26	23 42	0 31	1 59	1 49	31 32	10 34	23 42	23 42	24 22		n.a.
M22	1 59	15 58	4 24	1 56	0 46	12 34	1 23	22 43	0 3	24 15	0 32	21 31	1 26	23 42	0 31	1 58	1 49	31 32	10 34	23 42	23 43	24 21		n.a.
T 23	1 35	19 59	3 40	1 10	0 40	12 8	1 24	22 47	0 5	24 15	0 32	21 31	1 26	23 42	0 31	1 57	1 49	31 32	10 34	23 42	23 43	24 21		n.a.
W24	1 11	22 50	2 43	0 25	0 34	11 42	1 25	22 51	0 7	24 15	0 32	21 32	1 26	23 42	0 31	1 56	1 49	31 32	10 34	23 42	23 43	24 20		n.a.
T 25	0 47	24 14	1 35	0s21	0 27	11 16	1 26	22 55	0 8	24 15	0 32	21 32	1 26	23 42	0 31	1 55	1 49	31 32	10 34	23 43	23 43	24 20		n.a.
F 26	0 23	24 4	0 22	1 6	0 21	10 49	1 27	22 59	0 10	24 15	0 32	21 32	1 26	23 42	0 31	1 54	1 49	31 32	10 33	23 43	23 43	24 20		n.a.
S 27	0s 1	22 22	0s52	1 51	0 14	10 21	1 28	23 3	0 12	24 15	0 32	21 32	1 26	23 42	0 31	1 53	1 49	31 32	10 33	23 43	23 43	24 19		n.a.
S 28	0 25	19 18	2 2	2 35	0 8	9 54	1 29	23 7	0 14	24 15	0 32	21 33	1 26	23 42	0 31	1 52	1 49	31 32	10 33	23 43	23 43	24 19		n.a.
M29	0 50	15 10	3 5	3 20	0 1	9 26	1 30	23 11	0 15	24 15	0 32	21 33	1 26	23 42	0 31	1 52	1 49	31 32	10 33	23 43	23 43	24 18		n.a.
T 30	1s14	10n16	3s56	4s 4	0s 6	8n58	1n30	23n14	0n17	24s15	0s32	21s33	1s25	23s41	0s31	1n51	1n49	31s31	10s33	23s43	23s43	24s18		n.a.

Julian Day Number = 1653364.5, Delta T = 03h29m46s
Ecliptic obliquity = 23°43'05, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°38'27, Lahiri = - 6°31'26 Julian Calendar 1 Sept. 187 BCE == Greg. Calendar 29 Aug. 187 BCE

The year -186 astronomical counting style corresponds to year 187 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 187 BCE
geocentric

OCTOBER 187 BCE (-186) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 23 16	4♎ 3'43	6♍43	11♎30	12♍ 7	16♊ 8	29♐18	1°R 1	11♑57	29♍34	26°R 2	1°R13	1♑ 5	21♐51	n.a.	W 1
T 2	0 27 13	5° 3'54	20°11	13° 5	13°22	16°25	29°24	1♒ 0	11°57	29°37	26♑ 2	1♑ 1	1° 2	21°58	n.a.	T 2
F 3	0 31 10	6° 4'08	3♎26	14°39	14°37	16°41	29°31	1° 0	11°57	29°39	26° 1	0°48	0°58	22° 4	n.a.	F 3
S 4	0 35 6	7° 4'24	16°26	16°12	15°51	16°57	29°37	0°59	11°58	29°41	26° 1	0°34	0°55	22°11	n.a.	S 4
S 5	0 39 3	8° 4'41	29°10	17°46	17° 6	17°11	29°44	0°59	11°58	29°43	26° 1	0°22	0°52	22°18	n.a.	S 5
M 6	0 42 59	9° 5'00	11♏38	19°18	18°21	17°26	29°51	0°58	11°59	29°46	26° 1	0°11	0°49	22°24	n.a.	M 6
T 7	0 46 56	10° 5'21	23°50	20°51	19°37	17°40	29°58	0°58	11°59	29°48	26° 0	0° 3	0°46	22°31	n.a.	T 7
W 8	0 50 52	11° 5'44	5♐50	22°23	20°52	17°53	0♑ 6	0°58	12° 0	29°50	26° 0	29♐59	0°43	22°37	n.a.	W 8
T 9	0 54 49	12° 6'08	17°41	23°54	22° 7	18° 5	0°13	0°D58	12° 0	29°52	26° 0	29°56	0°39	22°44	n.a.	T 9
F 10	0 58 45	13° 6'34	29°28	25°25	23°22	18°17	0°21	0°58	12° 1	29°54	26° 0	29°D56	0°36	22°51	n.a.	F 10
S 11	1 2 42	14° 7'01	11♑17	26°56	24°37	18°29	0°29	0°58	12° 2	29°57	26° 0	29°R56	0°33	22°57	n.a.	S 11
S 12	1 6 39	15° 7'30	23°12	28°27	25°52	18°39	0°36	0°58	12° 3	29°59	26° 0	29°56	0°30	23° 4	n.a.	S 12
M13	1 10 35	16° 8'00	5♒19	29°57	27° 7	18°49	0°44	0°59	12° 4	0♎ 1	26° 0	29°54	0°27	23°11	n.a.	M13
T 14	1 14 32	17° 8'31	17°44	1♏26	28°23	18°59	0°53	0°59	12° 5	0° 3	26°D 0	29°50	0°23	23°17	n.a.	T 14
W15	1 18 28	18° 9'04	0♓31	2°55	29°38	19° 7	1° 1	1° 0	12° 6	0° 5	26° 0	29°43	0°20	23°24	n.a.	W15
T 16	1 22 25	19° 9'39	13°41	4°24	0♎53	19°15	1° 9	1° 1	12° 7	0° 8	26° 0	29°35	0°17	23°31	n.a.	T 16
F 17	1 26 21	20°10'14	27°17	5°53	2° 8	19°22	1°18	1° 1	12° 8	0°10	26° 0	29°24	0°14	23°37	n.a.	F 17
S 18	1 30 18	21°10'51	11♈16	7°21	3°24	19°29	1°27	1° 2	12° 9	0°12	26° 0	29°12	0°11	23°44	n.a.	S 18
S 19	1 34 14	22°11'30	25°35	8°48	4°39	19°35	1°36	1° 3	12°10	0°14	26° 0	29° 1	0° 8	23°51	n.a.	S 19
M20	1 38 11	23°12'10	10♉ 6	10°15	5°54	19°40	1°45	1° 4	12°11	0°16	26° 0	28°52	0° 4	23°57	n.a.	M20
T 21	1 42 7	24°12'52	24°43	11°41	7°10	19°44	1°54	1° 6	12°13	0°18	26° 1	28°45	0° 1	24° 4	n.a.	T 21
W22	1 46 4	25°13'36	9♊20	13° 6	8°25	19°48	2° 3	1° 7	12°14	0°20	26° 1	28°41	29♐58	24°10	n.a.	W22
T 23	1 50 1	26°14'21	23°50	14°31	9°40	19°51	2°13	1° 8	12°15	0°22	26° 1	28°D40	29°55	24°17	n.a.	T 23
F 24	1 53 57	27°15'09	8♋ 9	15°55	10°56	19°53	2°22	1°10	12°17	0°24	26° 1	28°40	29°52	24°24	n.a.	F 24
S 25	1 57 54	28°15'57	22°17	17°18	12°11	19°54	2°32	1°12	12°18	0°26	26° 2	28°R41	29°49	24°30	n.a.	S 25
S 26	2 1 50	29°16'48	6♌11	18°40	13°27	19°R54	2°41	1°13	12°20	0°28	26° 2	28°41	29°45	24°37	n.a.	S 26
M27	2 5 47	0♏17'40	19°52	20° 1	14°42	19°54	2°51	1°15	12°21	0°30	26° 2	28°39	29°42	24°44	n.a.	M27
T 28	2 9 43	1°18'33	3♍20	21°20	15°57	19°53	3° 1	1°17	12°23	0°32	26° 3	28°34	29°39	24°50	n.a.	T 28
W29	2 13 40	2°19'28	16°36	22°38	17°13	19°50	3°12	1°19	12°24	0°34	26° 3	28°28	29°36	24°57	n.a.	W29
T 30	2 17 36	3°20'24	29°41	23°54	18°28	19°48	3°22	1°21	12°26	0°36	26° 3	28°19	29°33	25° 4	n.a.	T 30
F 31	2 21 33	4♏21'22	12♎33	25♏ 8	19♎44	19♊44	3♑32	1♒24	12♑28	0♎38	26♑ 4	28♐ 9	29♐29	25♐10	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	1s38	4n55	4s34	4s47	0s12	8n30	1n31	23n18	0n19	24s15	0s32	21s33	1s25	23s41	0s31	1n50	1n49	31s31	10s32	23s43	23s43	24s17			n.a.
T 2	2 2	0s35	4 55	5 31	0 19	8 1	1 31	23 22	0 21	24 15	0 32	21 33	1 25	23 41	0 31	1 49	1 49	31 31	10 32	23 43	23 43	24 17			n.a.
F 3	2 26	5 57	5 0	6 14	0 26	7 32	1 32	23 25	0 23	24 15	0 32	21 33	1 25	23 41	0 31	1 48	1 49	31 31	10 32	23 43	23 43	24 16			n.a.
S 4	2 50	10 58	4 49	6 56	0 32	7 3	1 32	23 29	0 25	24 16	0 32	21 33	1 25	23 41	0 31	1 47	1 49	31 31	10 32	23 43	23 43	24 16			n.a.
S 5	3 14	15 24	4 24	7 39	0 39	6 34	1 32	23 32	0 26	24 16	0 32	21 33	1 25	23 41	0 31	1 46	1 49	31 31	10 32	23 43	23 43	24 16			n.a.
M 6	3 38	19 5	3 46	8 20	0 45	6 4	1 33	23 35	0 28	24 16	0 33	21 33	1 25	23 41	0 31	1 45	1 49	31 31	10 31	23 43	23 43	24 15			n.a.
T 7	4 2	21 50	2 59	9 1	0 52	5 35	1 33	23 39	0 30	24 16	0 33	21 33	1 25	23 41	0 31	1 44	1 49	31 30	10 31	23 43	23 43	24 15			n.a.
W 8	4 26	23 34	2 4	9 42	0 58	5 5	1 33	23 42	0 32	24 16	0 33	21 33	1 25	23 41	0 31	1 44	1 49	31 30	10 31	23 43	23 43	24 14			n.a.
T 9	4 50	24 13	1 5	10 22	1 4	4 35	1 33	23 45	0 34	24 16	0 33	21 33	1 25	23 41	0 31	1 43	1 49	31 30	10 31	23 43	23 43	24 14			n.a.
F 10	5 14	23 45	0 2	11 2	1 10	4 5	1 33	23 48	0 37	24 16	0 33	21 33	1 25	23 41	0 31	1 42	1 49	31 30	10 31	23 43	23 43	24 13			n.a.
S 11	5 38	22 14	1n 0	11 41	1 17	3 35	1 33	23 51	0 39	24 16	0 33	21 33	1 25	23 41	0 31	1 41	1 49	31 30	10 30	23 43	23 43	24 13			n.a.
S 12	6 1	19 43	2 0	12 20	1 22	3 4	1 32	23 54	0 41	24 16	0 33	21 33	1 25	23 41	0 31	1 40	1 49	31 29	10 30	23 43	23 43	24 12			n.a.
M13	6 25	16 18	2 56	12 57	1 28	2 34	1 32	23 57	0 43	24 16	0 33	21 33	1 25	23 41	0 31	1 39	1 49	31 29	10 30	23 43	23 43	24 11			n.a.
T 14	6 49	12 7	3 45	13 35	1 34	2 3	1 32	24 0	0 45	24 16	0 33	21 33	1 25	23 40	0 31	1 38	1 49	31 29	10 30	23 43	23 43	24 11			n.a.
W15	7 12	7 18	4 25	14 11	1 39	1 33	1 31	24 3	0 47	24 16	0 33	21 32	1 24	23 40	0 31	1 37	1 49	31 29	10 30	23 43	23 43	24 10			n.a.
T 16	7 35	2 1	4 51	14 47	1 45	1 2	1 31	24 6	0 50	24 15	0 33	21 32	1 24	23 40	0 31	1 37	1 49	31 29	10 29	23 43	23 43	24 10			n.a.
F 17	7 58	3n31	5 2	15 21	1 50	0 31	1 30	24 9	0 52	24 15	0 33	21 32	1 24	23 40	0 31	1 36	1 49	31 28	10 29	23 43	23 43	24 9			n.a.
S 18	8 21	9 2	4 56	15 56	1 55	0 0	1 30	24 12	0 54	24 15	0 33	21 32	1 24	23 40	0 31	1 35	1 49	31 28	10 29	23 43	23 43	24 9			n.a.
S 19	8 44	14 12	4 31	16 29	1 59	0s31	1 29	24 15	0 56	24 15	0 33	21 31	1 24	23 40	0 31	1 34	1 49	31 28	10 29	23 43	23 43	24 8			n.a.
M20	9 7	18 37	3 49	17 1	2 4	1 1	1 28	24 17	0 59	24 15	0 33	21 31	1 24	23 40	0 31	1 33	1 49	31 28	10 28	23 43	23 43	24 8			n.a.
T 21	9 30	21 55	2 51	17 32	2 8	1 32	1 27	24 20	1 1	24 15	0 33	21 31	1 24	23 40	0 31	1 32	1 49	31 27	10 28	23 43	23 43	24 7			n.a.
W22	9 52	23 47	1 41	18 3	2 12	2 3	1 26	24 23	1 4	24 15	0 33	21 30	1 24	23 39	0 31	1 32	1 49	31 27	10 28	23 43	23 43	24 6			n.a.
T 23	10 15	24 0	0 26	18 32	2 15	2 34	1 25	24 25	1 6	24 15	0 33	21 30	1 24	23 39	0 31	1 31	1 49	31 27	10 28	23 43	23 43	24 6			n.a.
F 24	10 37	22 37	0s51	19 0	2 18	3 5	1 24	24 28	1 9	24 15	0 33	21 30	1 24	23 39	0 31	1 30	1 49	31 27	10 28	23 43	23 43	24 5			n.a.
S 25	10 59	19 50	2 3	19 27	2 21	3 36	1 23	24 31	1 11	24 15	0 33	21 29	1 24	23 39	0 31	1 29	1 49	31 26	10 27	23 43	23 43	24 5			n.a.
S 26	11 21	15 56	3 7	19 53	2 24	4 6	1 22	24 33	1 14	24 14	0 33	21 29	1 24	23 39	0 31	1 28	1 49	31 26	10 27	23 43	23 43	24 4			n.a.
M27	11 42	11 15	3 59	20 17	2 26	4 37	1 21	24 36	1 16	24 14	0 33	21 28	1 24	23 39	0 31	1 28	1 49	31 26	10 27	23 43	23 43	24 4			n.a.
T 28	12 4	6 6	4 37	20 40	2 27	5 7	1 20	24 38	1 19	24 14	0 33	21 28	1 24	23 38	0 31	1 27	1 49	31 25	10 27	23 43	23 43	24 3			n.a.
W29	12 25	0 46	4 59	21 2	2 28	5 38	1 18	24 41	1 21	24 14	0 33	21 27	1 23	23 38	0 31	1 26	1 49	31 25	10 26	23 43	23 43	24 2			n.a.
T 30	12 46	4s32	5 5	21 21	2 28	6 8	1 17	24 43	1 24	24 14	0 33	21 27	1 23	23 38	0 31	1 25	1 49	31 25	10 26	23 42	23 43	24 2			n.a.
F 31	13s 7	9s33	4s56	21s40	2s28	6s38	1n16	24n45	1n27	24s13	0s33	21s26	1s23	23s38	0s31	1n25	1n49	31s25	10s26	23s42	23s43	24s 1			n.a.

Julian Day Number = 1653394.5, Delta T = 03h29m45s
Ecliptic obliquity = 23°43'05, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°38'23, Lahiri = - 6°31'22 Julian Calendar 1 Oct. 187 BCE == Greg. Calendar 28 Sept. 187 BCE

The year -186 astronomical counting style corresponds to year 187 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 187 BCE
geocentric

NOVEMBER 187 BCE (-186) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 25 30	5♏22'21	25♎13	26♏19	20♎59	19°R39	3♑43	1♒26	12♑30	0♎40	26♑ 4	27°R58	29♐26	25♐17	n.a.	S 1
S 2	2 29 26	6°23'21	7♏41	27°28	22°15	19♊34	3°53	1°28	12°32	0°42	26° 5	27♐49	29°23	25°24	n.a.	S 2
M 3	2 33 23	7°24'23	19°57	28°33	23°31	19°27	4° 4	1°31	12°33	0°44	26° 5	27°41	29°20	25°30	n.a.	M 3
T 4	2 37 19	8°25'25	2♐ 1	29°35	24°46	19°20	4°15	1°34	12°35	0°46	26° 6	27°35	29°17	25°37	n.a.	T 4
W 5	2 41 16	9°26'29	13°57	0♐33	26° 2	19°12	4°26	1°36	12°37	0°48	26° 6	27°32	29°14	25°44	n.a.	W 5
T 6	2 45 12	10°27'33	25°46	1°26	27°17	19° 3	4°37	1°39	12°39	0°50	26° 7	27°D30	29°10	25°50	n.a.	T 6
F 7	2 49 9	11°28'38	7♑31	2°13	28°33	18°53	4°48	1°42	12°41	0°52	26° 8	27°31	29° 7	25°57	n.a.	F 7
S 8	2 53 6	12°29'44	19°19	2°55	29°48	18°43	4°59	1°45	12°44	0°53	26° 8	27°32	29° 4	26° 3	n.a.	S 8
S 9	2 57 2	13°30'50	1♒12	3°29	1♏ 4	18°31	5°10	1°48	12°46	0°55	26° 9	27°34	29° 1	26°10	n.a.	S 9
M10	3 0 59	14°31'57	13°17	3°55	2°19	18°19	5°22	1°52	12°48	0°57	26°10	27°R35	28°58	26°17	n.a.	M10
T 11	3 4 55	15°33'04	25°38	4°13	3°35	18° 6	5°33	1°55	12°50	0°59	26°10	27°34	28°55	26°23	n.a.	T 11
W12	3 8 52	16°34'12	8♓21	4°R22	4°50	17°52	5°45	1°58	12°52	1° 0	26°11	27°32	28°51	26°30	n.a.	W12
T 13	3 12 48	17°35'20	21°29	4°19	6° 6	17°38	5°56	2° 2	12°55	1° 2	26°12	27°27	28°48	26°37	n.a.	T 13
F 14	3 16 45	18°36'29	5♈ 5	4° 6	7°22	17°22	6° 8	2° 5	12°57	1° 4	26°13	27°22	28°45	26°43	n.a.	F 14
S 15	3 20 41	19°37'38	19° 9	3°42	8°37	17° 6	6°20	2° 9	12°59	1° 5	26°14	27°16	28°42	26°50	n.a.	S 15
S 16	3 24 38	20°38'48	3♉38	3° 6	9°53	16°50	6°32	2°13	13° 2	1° 7	26°14	27°10	28°39	26°57	n.a.	S 16
M17	3 28 35	21°39'58	18°26	2°18	11° 8	16°32	6°44	2°17	13° 4	1° 9	26°15	27° 5	28°35	27° 3	n.a.	M17
T 18	3 32 31	22°41'09	3♊25	1°20	12°24	16°14	6°56	2°21	13° 7	1°10	26°16	27° 1	28°32	27°10	n.a.	T 18
W19	3 36 28	23°42'20	18°26	0°13	13°39	15°55	7° 8	2°25	13° 9	1°12	26°17	26°59	28°29	27°17	n.a.	W19
T 20	3 40 24	24°43'33	3♋22	28♏58	14°55	15°36	7°21	2°29	13°12	1°13	26°18	26°D59	28°26	27°23	n.a.	T 20
F 21	3 44 21	25°44'45	18° 4	27°38	16°10	15°15	7°33	2°33	13°15	1°15	26°19	27° 0	28°23	27°30	n.a.	F 21
S 22	3 48 17	26°45'59	2♌28	26°15	17°26	14°55	7°46	2°37	13°17	1°16	26°20	27° 2	28°20	27°37	n.a.	S 22
S 23	3 52 14	27°47'12	16°32	24°53	18°42	14°34	7°58	2°42	13°20	1°18	26°21	27° 3	28°16	27°43	n.a.	S 23
M24	3 56 10	28°48'27	0♍15	23°34	19°57	14°12	8°11	2°46	13°23	1°19	26°22	27°R 3	28°13	27°50	n.a.	M24
T 25	4 0 7	29°49'42	13°37	22°21	21°13	13°50	8°23	2°51	13°25	1°20	26°23	27° 3	28°10	27°56	n.a.	T 25
W26	4 4 4	0♐50'57	26°42	21°15	22°28	13°27	8°36	2°55	13°28	1°22	26°24	27° 1	28° 7	28° 3	n.a.	W26
T 27	4 8 0	1°52'13	9♎30	20°18	23°44	13° 5	8°49	3° 0	13°31	1°23	26°25	26°57	28° 4	28°10	n.a.	T 27
F 28	4 11 57	2°53'30	22° 4	19°30	24°59	12°41	9° 2	3° 5	13°34	1°24	26°26	26°53	28° 1	28°16	n.a.	F 28
S 29	4 15 53	3°54'46	4♏26	18°54	26°15	12°18	9°15	3°10	13°37	1°26	26°28	26°49	27°57	28°23	n.a.	S 29
S 30	4 19 50	4♐56'03	16♏37	18♏28	27♏30	11♊54	9♑28	3♒15	13♑39	1♎27	26♑29	26♐45	27♐54	28♐30	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	13 s28	14 s 5	4 s32	21 s56	2 s27	7 s 8	1 n14	24 n48	1 n29	24 s13	0 s33	21 s25	1 s23	23 s38	0 s30	1 n24	1 n49	31 s24	10 s26	23 s42	23 s43	24 s 0		n.a.	
S 2	13 48	17 56	3 56	22 11	2 26	7 38	1 13	24 50	1 32	24 13	0 33	21 25	1 23	23 38	0 30	1 23	1 49	31 24	10 26	23 42	23 43	24 0		n.a.	
M 3	14 9	20 57	3 8	22 24	2 23	8 8	1 11	24 52	1 35	24 12	0 33	21 24	1 23	23 37	0 30	1 22	1 49	31 24	10 25	23 42	23 43	23 59		n.a.	
T 4	14 29	22 59	2 13	22 34	2 20	8 38	1 9	24 54	1 37	24 12	0 33	21 24	1 23	23 37	0 30	1 22	1 49	31 23	10 25	23 42	23 43	23 58		n.a.	
W 5	14 48	23 57	1 13	22 43	2 16	9 7	1 8	24 56	1 40	24 12	0 33	21 23	1 23	23 37	0 30	1 21	1 50	31 23	10 25	23 42	23 43	23 58		n.a.	
T 6	15 8	23 48	0 9	22 49	2 10	9 36	1 6	24 58	1 43	24 11	0 33	21 22	1 23	23 37	0 30	1 20	1 50	31 23	10 25	23 42	23 43	23 57		n.a.	
F 7	15 27	22 36	0 n54	22 52	2 4	10 5	1 4	25 0	1 46	24 11	0 33	21 21	1 23	23 37	0 30	1 20	1 50	31 22	10 25	23 42	23 43	23 56		n.a.	
S 8	15 46	20 24	1 56	22 53	1 56	10 34	1 3	25 2	1 48	24 11	0 33	21 21	1 23	23 36	0 30	1 19	1 50	31 22	10 24	23 42	23 43	23 56		n.a.	
S 9	16 5	17 19	2 53	22 51	1 48	11 2	1 1	25 4	1 51	24 10	0 33	21 20	1 23	23 36	0 30	1 18	1 50	31 22	10 24	23 42	23 43	23 55		n.a.	
M10	16 23	13 28	3 43	22 46	1 37	11 30	0 59	25 5	1 54	24 10	0 33	21 19	1 23	23 36	0 30	1 18	1 50	31 21	10 24	23 42	23 43	23 54		n.a.	
T 11	16 41	8 59	4 24	22 38	1 26	11 58	0 57	25 7	1 57	24 9	0 33	21 18	1 23	23 36	0 30	1 17	1 50	31 21	10 24	23 42	23 43	23 54		n.a.	
W12	16 59	4 0	4 54	22 27	1 13	12 25	0 55	25 8	1 59	24 9	0 33	21 17	1 22	23 35	0 30	1 16	1 50	31 21	10 24	23 42	23 43	23 53		n.a.	
T 13	17 17	1 n19	5 9	22 13	0 58	12 53	0 53	25 10	2 2	24 8	0 33	21 17	1 22	23 35	0 30	1 16	1 50	31 20	10 23	23 42	23 43	23 52		n.a.	
F 14	17 34	6 45	5 8	21 55	0 42	13 20	0 51	25 11	2 5	24 8	0 34	21 16	1 22	23 35	0 30	1 15	1 50	31 20	10 23	23 41	23 43	23 52		n.a.	
S 15	17 51	12 1	4 49	21 33	0 25	13 46	0 49	25 12	2 8	24 7	0 34	21 15	1 22	23 35	0 30	1 14	1 50	31 20	10 23	23 41	23 43	23 51		n.a.	
S 16	18 7	16 47	4 11	21 8	0 7	14 12	0 47	25 13	2 10	24 7	0 34	21 14	1 22	23 34	0 30	1 14	1 50	31 19	10 23	23 41	23 43	23 50		n.a.	
M17	18 24	20 38	3 15	20 39	0 n13	14 38	0 45	25 14	2 13	24 6	0 34	21 13	1 22	23 34	0 30	1 13	1 50	31 19	10 23	23 41	23 43	23 49		n.a.	
T 18	18 39	23 8	2 5	20 8	0 33	15 4	0 42	25 15	2 16	24 6	0 34	21 12	1 22	23 34	0 30	1 13	1 50	31 18	10 22	23 41	23 43	23 49		n.a.	
W19	18 55	23 59	0 47	19 34	0 53	15 29	0 40	25 15	2 18	24 5	0 34	21 11	1 22	23 34	0 30	1 12	1 50	31 18	10 22	23 41	23 43	23 48		n.a.	
T 20	19 10	23 6	0 s35	18 58	1 13	15 54	0 38	25 16	2 21	24 4	0 34	21 10	1 22	23 33	0 30	1 12	1 50	31 18	10 22	23 41	23 42	23 47		n.a.	
F 21	19 25	20 37	1 53	18 21	1 33	16 18	0 36	25 16	2 23	24 4	0 34	21 9	1 22	23 33	0 30	1 11	1 50	31 17	10 22	23 41	23 42	23 46		n.a.	
S 22	19 40	16 53	3 3	17 44	1 51	16 42	0 33	25 16	2 26	24 3	0 34	21 8	1 22	23 33	0 30	1 10	1 50	31 17	10 22	23 41	23 42	23 46		n.a.	
S 23	19 54	12 16	3 59	17 9	2 8	17 5	0 31	25 16	2 28	24 2	0 34	21 7	1 22	23 32	0 30	1 10	1 50	31 17	10 21	23 41	23 42	23 45		n.a.	
M24	20 8	7 8	4 41	16 35	2 23	17 28	0 29	25 16	2 31	24 2	0 34	21 6	1 22	23 32	0 30	1 9	1 50	31 16	10 21	23 41	23 42	23 44		n.a.	
T 25	20 21	1 49	5 6	16 4	2 35	17 51	0 27	25 16	2 33	24 1	0 34	21 5	1 22	23 32	0 30	1 9	1 51	31 16	10 21	23 41	23 42	23 43		n.a.	
W26	20 34	3 s28	5 14	15 37	2 45	18 13	0 24	25 15	2 36	24 0	0 34	21 3	1 22	23 32	0 30	1 8	1 51	31 15	10 21	23 41	23 42	23 43		n.a.	
T 27	20 47	8 30	5 7	15 15	2 53	18 34	0 22	25 14	2 38	23 59	0 34	21 2	1 22	23 31	0 30	1 8	1 51	31 15	10 21	23 41	23 42	23 42		n.a.	
F 28	20 59	13 5	4 45	14 57	2 59	18 55	0 19	25 14	2 40	23 58	0 34	21 1	1 22	23 31	0 30	1 7	1 51	31 15	10 21	23 41	23 42	23 41		n.a.	
S 29	21 11	17 3	4 10	14 43	3 2	19 16	0 17	25 13	2 42	23 58	0 34	21 0	1 22	23 31	0 30	1 7	1 51	31 14	10 20	23 41	23 42	23 40		n.a.	
S 30	21 s22	20 s14	3 s23	14 s35	3 n 4	19 s36	0 n15	25 n11	2 n44	23 s57	0 s34	20 s59	1 s21	23 s30	0 s30	1 n 7	1 n51	31 s14	10 s20	23 s41	23 s42	23 s39		n.a.	

Julian Day Number = 1653425.5, Delta T = 03h29m44s
Ecliptic obliquity = 23°43'04, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°38'18, Lahiri = - 6°31'18 Julian Calendar 1 Nov. 187 BCE == Greg. Calendar 29 Oct. 187 BCE

The year -186 astronomical counting style corresponds to year 187 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 187 BCE
geocentric

DECEMBER 187 BCE (-186) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 23 46	5♐57'20	28♏40	18°R12	28♏46	11°R30	9♑41	3♒20	13♑42	1♎28	26♑30	26°R42	27♐51	28♐36	n.a.	M 1
T 2	4 27 43	6°58'37	10♐36	18°D 6	0♐ 1	11♊ 6	9°54	3°25	13°45	1°29	26°31	26♐40	27°48	28°43	n.a.	T 2
W 3	4 31 39	7°59'54	22°26	18♏10	1°17	10°42	10° 7	3°30	13°48	1°30	26°32	26°D39	27°45	28°50	n.a.	W 3
T 4	4 35 36	9° 1'11	4♑13	18°22	2°32	10°18	10°20	3°35	13°51	1°32	26°34	26°40	27°41	28°56	n.a.	T 4
F 5	4 39 33	10° 2'28	16° 0	18°41	3°48	9°54	10°33	3°40	13°54	1°33	26°35	26°41	27°38	29° 3	n.a.	F 5
S 6	4 43 29	11° 3'44	27°48	19° 8	5° 3	9°30	10°47	3°46	13°57	1°34	26°36	26°42	27°35	29°10	n.a.	S 6
S 7	4 47 26	12° 5'00	9♒43	19°42	6°19	9° 6	11° 0	3°51	14° 0	1°35	26°37	26°43	27°32	29°16	n.a.	S 7
M 8	4 51 22	13° 6'15	21°48	20°21	7°34	8°43	11°14	3°57	14° 4	1°36	26°39	26°45	27°29	29°23	n.a.	M 8
T 9	4 55 19	14° 7'30	4♓ 7	21° 5	8°50	8°19	11°27	4° 2	14° 7	1°37	26°40	26°45	27°26	29°29	n.a.	T 9
W10	4 59 15	15° 8'44	16°44	21°54	10° 5	7°56	11°41	4° 8	14°10	1°38	26°41	26°R46	27°22	29°36	n.a.	W10
T 11	5 3 12	16° 9'58	29°45	22°48	11°21	7°33	11°54	4°13	14°13	1°39	26°43	26°45	27°19	29°43	n.a.	T 11
F 12	5 7 9	17°11'10	13♈12	23°45	12°36	7°11	12° 8	4°19	14°16	1°39	26°44	26°45	27°16	29°49	n.a.	F 12
S 13	5 11 5	18°12'22	27° 6	24°45	13°52	6°49	12°22	4°25	14°19	1°40	26°46	26°44	27°13	29°56	n.a.	S 13
S 14	5 15 2	19°13'34	11♉28	25°48	15° 7	6°27	12°35	4°31	14°23	1°41	26°47	26°43	27°10	0♑ 3	n.a.	S 14
M15	5 18 58	20°14'45	26°14	26°54	16°23	6° 6	12°49	4°37	14°26	1°42	26°48	26°42	27° 6	0° 9	n.a.	M15
T 16	5 22 55	21°15'55	11♊18	28° 2	17°38	5°45	13° 3	4°43	14°29	1°43	26°50	26°41	27° 3	0°16	n.a.	T 16
W17	5 26 51	22°17'04	26°31	29°12	18°53	5°25	13°17	4°49	14°32	1°43	26°51	26°D41	27° 0	0°23	n.a.	W17
T 18	5 30 48	23°18'13	11♋44	0♐25	20° 9	5° 5	13°31	4°55	14°36	1°44	26°53	26°41	26°57	0°29	n.a.	T 18
F 19	5 34 44	24°19'21	26°47	1°39	21°24	4°46	13°45	5° 1	14°39	1°45	26°54	26°41	26°54	0°36	n.a.	F 19
S 20	5 38 41	25°20'29	11♌32	2°54	22°40	4°28	13°59	5° 7	14°42	1°45	26°56	26°42	26°51	0°43	n.a.	S 20
S 21	5 42 38	26°21'36	25°54	4°12	23°55	4°10	14°13	5°14	14°46	1°46	26°57	26°R42	26°47	0°49	n.a.	S 21
M22	5 46 34	27°22'42	9♍49	5°30	25°10	3°53	14°27	5°20	14°49	1°46	26°59	26°42	26°44	0°56	n.a.	M22
T 23	5 50 31	28°23'48	23°18	6°50	26°26	3°37	14°41	5°26	14°53	1°47	27° 0	26°D42	26°41	1° 3	n.a.	T 23
W24	5 54 27	29°24'53	6♎23	8°11	27°41	3°21	14°55	5°33	14°56	1°47	27° 2	26°42	26°38	1° 9	n.a.	W24
T 25	5 58 24	0♑25'58	19° 6	9°33	28°56	3° 6	15° 9	5°39	14°59	1°48	27° 4	26°42	26°35	1°16	n.a.	T 25
F 26	6 2 20	1°27'02	1♏31	10°56	0♑12	2°52	15°23	5°46	15° 3	1°48	27° 5	26°42	26°32	1°22	n.a.	F 26
S 27	6 6 17	2°28'05	13°41	12°20	1°27	2°39	15°37	5°52	15° 6	1°49	27° 7	26°43	26°28	1°29	n.a.	S 27
S 28	6 10 13	3°29'08	25°42	13°45	2°42	2°26	15°51	5°59	15°10	1°49	27° 8	26°44	26°25	1°36	n.a.	S 28
M29	6 14 10	4°30'10	7♐35	15°11	3°58	2°14	16° 6	6° 5	15°13	1°49	27°10	26°44	26°22	1°42	n.a.	M29
T 30	6 18 7	5°31'10	19°23	16°38	5°13	2° 3	16°20	6°12	15°17	1°50	27°12	26°45	26°19	1°49	n.a.	T 30
W31	6 22 3	6♑32'10	1♑10	18♐ 6	6♑28	1♊53	16♑34	6♒19	15♑20	1♎50	27♑13	26°R45	26♐16	1♑56	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21 s33	22 s30	2 s29	14 s30	3n 4	19 s55	0n12	25n10	2n46	23 s56	0 s34	20 s57	1 s21	23 s30	0 s30	1n 6	1n51	31 s13	10 s20	23 s41	23 s42	23 s39		n.a.
T 2	21 44	23 44	1 28	14 30	3 2	20 14	0 10	25 9	2 48	23 55	0 34	20 56	1 21	23 30	0 30	1 6	1 51	31 13	10 20	23 41	23 42	23 38		n.a.
W 3	21 54	23 53	0 23	14 34	2 59	20 32	0 8	25 7	2 50	23 54	0 34	20 55	1 21	23 29	0 30	1 5	1 51	31 13	10 20	23 40	23 42	23 37		n.a.
T 4	22 4	22 57	0n42	14 42	2 55	20 50	0 5	25 5	2 52	23 53	0 34	20 54	1 21	23 29	0 30	1 5	1 51	31 12	10 20	23 40	23 42	23 36		n.a.
F 5	22 13	21 0	1 45	14 52	2 50	21 7	0 3	25 3	2 54	23 52	0 34	20 52	1 21	23 29	0 30	1 4	1 51	31 12	10 20	23 41	23 42	23 35		n.a.
S 6	22 22	18 9	2 44	15 5	2 44	21 23	0 0	25 1	2 55	23 51	0 34	20 51	1 21	23 28	0 30	1 4	1 51	31 11	10 19	23 41	23 42	23 34		n.a.
S 7	22 30	14 32	3 37	15 20	2 38	21 39	0 s 2	24 59	2 57	23 50	0 35	20 50	1 21	23 28	0 30	1 4	1 51	31 11	10 19	23 41	23 42	23 34		n.a.
M 8	22 38	10 18	4 21	15 37	2 31	21 54	0 4	24 57	2 58	23 49	0 35	20 48	1 21	23 28	0 30	1 3	1 51	31 11	10 19	23 41	23 42	23 33		n.a.
T 9	22 46	5 34	4 53	15 56	2 23	22 8	0 7	24 54	3 0	23 48	0 35	20 47	1 21	23 27	0 30	1 3	1 51	31 10	10 19	23 41	23 42	23 32		n.a.
W10	22 53	0 30	5 13	16 17	2 15	22 22	0 9	24 52	3 1	23 46	0 35	20 46	1 21	23 27	0 30	1 3	1 51	31 10	10 19	23 41	23 41	23 31		n.a.
T 11	22 59	4n44	5 17	16 38	2 7	22 36	0 12	24 49	3 2	23 45	0 35	20 44	1 21	23 27	0 30	1 2	1 52	31 9	10 19	23 41	23 41	23 30		n.a.
F 12	23 6	9 56	5 5	17 0	1 59	22 48	0 14	24 47	3 4	23 44	0 35	20 43	1 21	23 26	0 30	1 2	1 52	31 9	10 19	23 41	23 41	23 29		n.a.
S 13	23 11	14 49	4 34	17 23	1 50	23 0	0 16	24 44	3 5	23 43	0 35	20 41	1 21	23 26	0 30	1 2	1 52	31 9	10 19	23 41	23 41	23 28		n.a.
S 14	23 16	19 1	3 46	17 47	1 42	23 11	0 19	24 41	3 6	23 42	0 35	20 40	1 21	23 26	0 30	1 2	1 52	31 8	10 18	23 41	23 41	23 27		n.a.
M15	23 21	22 9	2 42	18 11	1 33	23 21	0 21	24 38	3 7	23 40	0 35	20 38	1 21	23 25	0 30	1 1	1 52	31 8	10 18	23 41	23 41	23 27		n.a.
T 16	23 26	23 47	1 25	18 35	1 25	23 31	0 23	24 35	3 7	23 39	0 35	20 37	1 21	23 25	0 30	1 1	1 52	31 7	10 18	23 41	23 41	23 26		n.a.
W17	23 29	23 41	0 1	18 59	1 16	23 40	0 25	24 32	3 8	23 38	0 35	20 35	1 21	23 25	0 30	1 1	1 52	31 7	10 18	23 41	23 41	23 25		n.a.
T 18	23 33	21 49	1 s23	19 23	1 7	23 48	0 28	24 29	3 9	23 36	0 35	20 34	1 21	23 24	0 30	1 1	1 52	31 7	10 18	23 41	23 41	23 24		n.a.
F 19	23 36	18 26	2 40	19 46	0 59	23 56	0 30	24 26	3 9	23 35	0 35	20 32	1 21	23 24	0 30	1 0	1 52	31 6	10 18	23 41	23 41	23 23		n.a.
S 20	23 38	13 55	3 45	20 10	0 50	24 3	0 32	24 23	3 10	23 34	0 35	20 31	1 21	23 24	0 30	1 0	1 52	31 6	10 18	23 41	23 41	23 22		n.a.
S 21	23 40	8 45	4 34	20 33	0 42	24 9	0 34	24 20	3 10	23 32	0 35	20 29	1 21	23 23	0 30	1 0	1 52	31 5	10 18	23 41	23 41	23 21		n.a.
M22	23 41	3 17	5 5	20 55	0 33	24 14	0 36	24 18	3 11	23 31	0 35	20 28	1 21	23 23	0 30	1 0	1 52	31 5	10 18	23 41	23 41	23 20		n.a.
T 23	23 42	2 s10	5 18	21 18	0 25	24 19	0 39	24 15	3 11	23 29	0 35	20 26	1 21	23 22	0 30	1 0	1 52	31 5	10 18	23 41	23 41	23 19		n.a.
W24	23 43	7 21	5 14	21 39	0 17	24 23	0 41	24 12	3 11	23 28	0 36	20 24	1 21	23 22	0 30	1 0	1 52	31 4	10 17	23 41	23 40	23 18		n.a.
T 25	23 43	12 5	4 54	22 0	0 9	24 26	0 43	24 9	3 12	23 26	0 36	20 23	1 21	23 22	0 30	1 0	1 52	31 4	10 17	23 41	23 40	23 17		n.a.
F 26	23 43	16 13	4 22	22 20	0 1	24 28	0 45	24 6	3 12	23 25	0 36	20 21	1 21	23 21	0 30	0 59	1 53	31 3	10 17	23 41	23 40	23 16		n.a.
S 27	23 42	19 35	3 37	22 39	0 s 7	24 29	0 47	24 4	3 12	23 23	0 36	20 20	1 21	23 21	0 30	0 59	1 53	31 3	10 17	23 41	23 40	23 15		n.a.
S 28	23 40	22 4	2 44	22 57	0 14	24 30	0 49	24 1	3 12	23 21	0 36	20 18	1 21	23 20	0 30	0 59	1 53	31 3	10 17	23 41	23 40	23 15		n.a.
M29	23 38	23 33	1 45	23 14	0 22	24 30	0 51	23 59	3 12	23 20	0 36	20 16	1 21	23 20	0 30	0 59	1 53	31 2	10 17	23 41	23 40	23 14		n.a.
T 30	23 36	23 58	0 41	23 31	0 29	24 29	0 53	23 56	3 11	23 18	0 36	20 15	1 21	23 20	0 30	0 59	1 53	31 2	10 17	23 41	23 40	23 13		n.a.
W31	23 s33	23 s18	0n25	23 s46	0 s36	24 s28	0 s54	23n54	3n11	23 s16	0 s36	20 s13	1 s21	23 s19	0 s30	0n59	1n53	31 s 1	10 s17	23 s41	23 s40	23 s12		n.a.

Julian Day Number = 1653455.5, Delta T = 03h29m43s
Ecliptic obliquity = 23°43'03, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°38'14, Lahiri = - 6°31'14 Julian Calendar 1 Dec. 187 BCE == Greg. Calendar 28 Nov. 187 BCE

The year -186 astronomical counting style corresponds to year 187 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 186 BCE
geocentric

JANUARY 186 BCE (-185) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 26 0	7♑33'09	12♑58	19♐34	7♑43	1°R44	16♑48	6♒25	15♑24	1♎50	27♑15	26°R44	26♐13	2♑ 2	n.a.	T 1
F 2	6 29 56	8°34'06	24°48	21° 3	8°59	1♊35	17° 3	6°32	15°27	1°50	27°16	26♐43	26° 9	2° 9	n.a.	F 2
S 3	6 33 53	9°35'02	6♒43	22°33	10°14	1°27	17°17	6°39	15°31	1°50	27°18	26°42	26° 6	2°16	n.a.	S 3
S 4	6 37 49	10°35'57	18°45	24° 4	11°29	1°20	17°31	6°46	15°34	1°50	27°20	26°39	26° 3	2°22	n.a.	S 4
M 5	6 41 46	11°36'50	0♓56	25°35	12°44	1°14	17°45	6°53	15°37	1°50	27°21	26°37	26° 0	2°29	n.a.	M 5
T 6	6 45 43	12°37'41	13°19	27° 8	14° 0	1° 9	18° 0	7° 0	15°41	1°R50	27°23	26°35	25°57	2°36	n.a.	T 6
W 7	6 49 39	13°38'31	25°57	28°41	15°15	1° 4	18°14	7° 7	15°44	1°50	27°25	26°33	25°53	2°42	n.a.	W 7
T 8	6 53 36	14°39'20	8♈54	0♑15	16°30	1° 1	18°28	7°14	15°48	1°50	27°26	26°D32	25°50	2°49	n.a.	T 8
F 9	6 57 32	15°40'06	22°11	1°49	17°45	0°58	18°43	7°21	15°51	1°50	27°28	26°33	25°47	2°56	n.a.	F 9
S 10	7 1 29	16°40'51	5♉52	3°25	19° 0	0°56	18°57	7°28	15°55	1°50	27°30	26°33	25°44	3° 2	n.a.	S 10
S 11	7 5 25	17°41'34	19°58	5° 1	20°15	0°54	19°12	7°35	15°58	1°50	27°32	26°35	25°41	3° 9	n.a.	S 11
M12	7 9 22	18°42'16	4♊28	6°38	21°31	0°D54	19°26	7°42	16° 2	1°50	27°33	26°36	25°38	3°15	n.a.	M12
T 13	7 13 18	19°42'56	19°18	8°15	22°46	0°54	19°40	7°49	16° 5	1°50	27°35	26°R37	25°34	3°22	n.a.	T 13
W14	7 17 15	20°43'34	4♋23	9°54	24° 1	0°55	19°55	7°56	16° 9	1°49	27°37	26°37	25°31	3°29	n.a.	W14
T 15	7 21 12	21°44'10	19°35	11°34	25°16	0°56	20° 9	8° 3	16°12	1°49	27°38	26°36	25°28	3°35	n.a.	T 15
F 16	7 25 8	22°44'45	4♌44	13°14	26°31	0°59	20°23	8°11	16°16	1°49	27°40	26°33	25°25	3°42	n.a.	F 16
S 17	7 29 5	23°45'18	19°40	14°55	27°46	1° 2	20°38	8°18	16°19	1°48	27°42	26°29	25°22	3°49	n.a.	S 17
S 18	7 33 1	24°45'50	4♍15	16°37	29° 1	1° 5	20°52	8°25	16°23	1°48	27°44	26°25	25°18	3°55	n.a.	S 18
M19	7 36 58	25°46'20	18°24	18°20	0♒16	1°10	21° 6	8°32	16°26	1°48	27°45	26°21	25°15	4° 2	n.a.	M19
T 20	7 40 54	26°46'48	2♎ 4	20° 4	1°31	1°15	21°21	8°40	16°30	1°47	27°47	26°18	25°12	4° 9	n.a.	T 20
W21	7 44 51	27°47'16	15°16	21°49	2°46	1°21	21°35	8°47	16°33	1°47	27°49	26°16	25° 9	4°15	n.a.	W21
T 22	7 48 47	28°47'41	28° 2	23°35	4° 1	1°27	21°49	8°54	16°37	1°46	27°50	26°D15	25° 6	4°22	n.a.	T 22
F 23	7 52 44	29°48'05	10♏27	25°21	5°16	1°34	22° 4	9° 2	16°40	1°46	27°52	26°15	25° 3	4°29	n.a.	F 23
S 24	7 56 41	0♒48'28	22°35	27° 9	6°31	1°42	22°18	9° 9	16°44	1°45	27°54	26°17	24°59	4°35	n.a.	S 24
S 25	8 0 37	1°48'49	4♐31	28°58	7°46	1°50	22°32	9°16	16°47	1°45	27°56	26°19	24°56	4°42	n.a.	S 25
M26	8 4 34	2°49'09	16°19	0♒47	9° 1	1°59	22°47	9°24	16°50	1°44	27°57	26°20	24°53	4°49	n.a.	M26
T 27	8 8 30	3°49'27	28° 5	2°38	10°15	2° 8	23° 1	9°31	16°54	1°43	27°59	26°R21	24°50	4°55	n.a.	T 27
W28	8 12 27	4°49'43	9♑52	4°29	11°30	2°18	23°15	9°38	16°57	1°43	28° 1	26°19	24°47	5° 2	n.a.	W28
T 29	8 16 23	5°49'58	21°43	6°22	12°45	2°29	23°29	9°46	17° 1	1°42	28° 3	26°16	24°44	5° 8	n.a.	T 29
F 30	8 20 20	6°50'10	3♒39	8°15	14° 0	2°40	23°43	9°53	17° 4	1°41	28° 4	26°11	24°40	5°15	n.a.	F 30
S 31	8 24 16	7♒50'21	15♒44	10♒ 9	15♒15	2♊52	23♑58	10♒ 0	17♑ 7	1♎40	28♑ 6	26♐ 5	24♐37	5♑22	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	23 s30	21 s36	1n29	24 s 1	0 s43	24 s25	0 s56	23n52	3n11	23 s15	0 s36	20 s11	1 s21	23 s19	0 s30	0n59	1n53	31 s 1	10 s17	23 s41	23 s40	23 s11			n.a.
F 2	23 26	18 58	2 30	24 14	0 49	24 22	0 58	23 50	3 11	23 13	0 36	20 9	1 21	23 18	0 30	0 59	1 53	31 1	10 17	23 41	23 40	23 10			n.a.
S 3	23 22	15 31	3 24	24 26	0 55	24 19	1 0	23 48	3 10	23 11	0 36	20 8	1 21	23 18	0 30	0 59	1 53	31 0	10 17	23 41	23 40	23 9			n.a.
S 4	23 17	11 25	4 10	24 36	1 2	24 14	1 1	23 46	3 10	23 9	0 36	20 6	1 21	23 18	0 30	0 59	1 53	31 0	10 17	23 40	23 39	23 8			n.a.
M 5	23 12	6 50	4 45	24 46	1 7	24 9	1 3	23 44	3 10	23 8	0 36	20 4	1 21	23 17	0 30	0 59	1 53	31 0	10 17	23 40	23 39	23 7			n.a.
T 6	23 7	1 54	5 8	24 54	1 13	24 3	1 5	23 43	3 9	23 6	0 37	20 2	1 21	23 17	0 30	0 59	1 53	30 59	10 17	23 40	23 39	23 6			n.a.
W 7	23 1	3n12	5 16	25 1	1 19	23 56	1 6	23 41	3 9	23 4	0 37	20 1	1 21	23 16	0 30	0 59	1 53	30 59	10 17	23 40	23 39	23 5			n.a.
T 8	22 54	8 17	5 9	25 7	1 24	23 48	1 8	23 40	3 8	23 2	0 37	19 59	1 21	23 16	0 30	0 59	1 53	30 58	10 17	23 40	23 39	23 4			n.a.
F 9	22 47	13 8	4 45	25 11	1 29	23 40	1 9	23 39	3 8	23 0	0 37	19 57	1 21	23 16	0 30	1 0	1 53	30 58	10 17	23 40	23 39	23 3			n.a.
S 10	22 40	17 29	4 5	25 14	1 33	23 31	1 10	23 38	3 7	22 58	0 37	19 55	1 21	23 15	0 30	1 0	1 54	30 58	10 17	23 40	23 39	23 2			n.a.
S 11	22 32	20 58	3 9	25 15	1 37	23 21	1 12	23 37	3 7	22 56	0 37	19 53	1 21	23 15	0 30	1 0	1 54	30 57	10 17	23 40	23 39	23 1			n.a.
M12	22 24	23 14	1 59	25 14	1 41	23 11	1 13	23 36	3 6	22 54	0 37	19 51	1 21	23 14	0 30	1 0	1 54	30 57	10 17	23 40	23 39	23 0			n.a.
T 13	22 15	23 57	0 40	25 12	1 45	23 0	1 14	23 36	3 5	22 52	0 37	19 50	1 21	23 14	0 30	1 0	1 54	30 57	10 17	23 40	23 39	22 58			n.a.
W14	22 6	22 56	0 s43	25 9	1 49	22 48	1 16	23 35	3 5	22 50	0 37	19 48	1 21	23 13	0 30	1 0	1 54	30 56	10 17	23 40	23 38	22 57			n.a.
T 15	21 56	20 14	2 3	25 4	1 52	22 35	1 17	23 35	3 4	22 48	0 37	19 46	1 21	23 13	0 30	1 0	1 54	30 56	10 17	23 40	23 38	22 56			n.a.
F 16	21 46	16 9	3 15	24 57	1 54	22 22	1 18	23 35	3 3	22 46	0 37	19 44	1 21	23 13	0 30	1 1	1 54	30 56	10 17	23 40	23 38	22 55			n.a.
S 17	21 36	11 7	4 12	24 48	1 57	22 8	1 19	23 34	3 2	22 44	0 38	19 42	1 21	23 12	0 30	1 1	1 54	30 55	10 17	23 40	23 38	22 54			n.a.
S 18	21 25	5 33	4 51	24 38	1 59	21 54	1 20	23 35	3 2	22 42	0 38	19 40	1 21	23 12	0 30	1 1	1 54	30 55	10 17	23 40	23 38	22 53			n.a.
M19	21 14	0 s 7	5 11	24 26	2 0	21 38	1 21	23 35	3 1	22 40	0 38	19 38	1 21	23 11	0 30	1 1	1 54	30 55	10 17	23 40	23 38	22 52			n.a.
T 20	21 3	5 36	5 12	24 12	2 1	21 23	1 21	23 35	3 0	22 37	0 38	19 36	1 21	23 11	0 30	1 1	1 54	30 54	10 17	23 40	23 38	22 51			n.a.
W21	20 51	10 38	4 57	23 56	2 2	21 6	1 22	23 35	2 59	22 35	0 38	19 35	1 21	23 11	0 30	1 2	1 54	30 54	10 17	23 40	23 38	22 50			n.a.
T 22	20 38	15 3	4 27	23 38	2 2	20 49	1 23	23 36	2 58	22 33	0 38	19 33	1 21	23 10	0 30	1 2	1 54	30 54	10 17	23 40	23 38	22 49			n.a.
F 23	20 26	18 41	3 45	23 19	2 2	20 31	1 24	23 37	2 58	22 31	0 38	19 31	1 21	23 10	0 30	1 2	1 54	30 53	10 17	23 40	23 37	22 48			n.a.
S 24	20 13	21 26	2 54	22 58	2 2	20 13	1 24	23 37	2 57	22 29	0 38	19 29	1 21	23 9	0 30	1 2	1 54	30 53	10 17	23 40	23 37	22 47			n.a.
S 25	19 59	23 12	1 57	22 34	2 1	19 54	1 25	23 38	2 56	22 26	0 38	19 27	1 21	23 9	0 30	1 3	1 55	30 53	10 17	23 40	23 37	22 46			n.a.
M26	19 45	23 55	0 55	22 9	1 59	19 35	1 25	23 39	2 55	22 24	0 38	19 25	1 21	23 8	0 30	1 3	1 55	30 52	10 17	23 40	23 37	22 44			n.a.
T 27	19 31	23 33	0n10	21 42	1 57	19 15	1 26	23 41	2 54	22 22	0 39	19 23	1 21	23 8	0 30	1 3	1 55	30 52	10 18	23 40	23 37	22 43			n.a.
W28	19 17	22 8	1 13	21 13	1 54	18 54	1 26	23 42	2 53	22 19	0 39	19 21	1 21	23 8	0 30	1 4	1 55	30 52	10 18	23 40	23 37	22 42			n.a.
T 29	19 2	19 45	2 14	20 42	1 51	18 33	1 26	23 43	2 53	22 17	0 39	19 19	1 21	23 7	0 30	1 4	1 55	30 51	10 18	23 40	23 37	22 41			n.a.
F 30	18 47	16 30	3 9	20 9	1 48	18 12	1 26	23 44	2 52	22 15	0 39	19 17	1 22	23 7	0 30	1 4	1 55	30 51	10 18	23 40	23 37	22 40			n.a.
S 31	18 s31	12 s33	3n56	19 s34	1 s43	17 s50	1 s27	23n46	2n51	22 s12	0 s39	19 s15	1 s22	23 s 6	0 s30	1n 5	1n55	30 s51	10 s18	23 s40	23 s36	22 s39			n.a.

Julian Day Number = 1653486.5, Delta T = 03h29m42s
Ecliptic obliquity = 23°43'03, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°38'10, Lahiri = - 6°31'10 Julian Calendar 1 Jan. 186 BCE == Greg. Calendar 29 Dec. 187 BCE

The year -185 astronomical counting style corresponds to year 186 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 186 BCE
geocentric

FEBRUARY 186 BCE (-185) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 28 13	8♒50'29	27♒59	12♒ 4	16♒30	3♊ 4	24♉12	10♒ 8	17♉11	1°R40	28♉ 8	25°R57	24♐34	5♉28	n.a.	S 1
M 2	8 32 10	9°50'36	10♓23	13°59	17°44	3°17	24°26	10°15	17°14	1♎39	28° 9	25♐48	24°31	5°35	n.a.	M 2
T 3	8 36 6	10°50'40	23° 0	15°55	18°59	3°31	24°40	10°23	17°17	1°38	28°11	25°40	24°28	5°42	n.a.	T 3
W 4	8 40 3	11°50'43	5♈48	17°51	20°14	3°45	24°54	10°30	17°20	1°37	28°13	25°34	24°24	5°48	n.a.	W 4
T 5	8 43 59	12°50'42	18°51	19°48	21°29	3°59	25° 8	10°37	17°24	1°36	28°14	25°29	24°21	5°55	n.a.	T 5
F 6	8 47 56	13°50'40	2♉ 8	21°44	22°43	4°14	25°22	10°45	17°27	1°35	28°16	25°26	24°18	6° 2	n.a.	F 6
S 7	8 51 52	14°50'36	15°43	23°41	23°58	4°29	25°36	10°52	17°30	1°34	28°18	25°D26	24°15	6° 8	n.a.	S 7
S 8	8 55 49	15°50'29	29°36	25°37	25°13	4°45	25°50	11° 0	17°33	1°33	28°19	25°26	24°12	6°15	n.a.	S 8
M 9	8 59 45	16°50'20	13♊48	27°32	26°27	5° 1	26° 4	11° 7	17°36	1°32	28°21	25°27	24° 9	6°22	n.a.	M 9
T 10	9 3 42	17°50'08	28°17	29°26	27°42	5°18	26°18	11°14	17°40	1°31	28°23	25°R28	24° 5	6°28	n.a.	T 10
W11	9 7 39	18°49'54	13♋ 1	1♓19	28°56	5°35	26°32	11°22	17°43	1°30	28°24	25°26	24° 2	6°35	n.a.	W11
T 12	9 11 35	19°49'38	27°54	3°10	0♓11	5°52	26°46	11°29	17°46	1°29	28°26	25°23	23°59	6°42	n.a.	T 12
F 13	9 15 32	20°49'20	12♌49	4°58	1°26	6°10	26°59	11°36	17°49	1°28	28°28	25°17	23°56	6°48	n.a.	F 13
S 14	9 19 28	21°48'59	27°37	6°44	2°40	6°28	27°13	11°44	17°52	1°27	28°29	25° 9	23°53	6°55	n.a.	S 14
S 15	9 23 25	22°48'36	12♍11	8°27	3°54	6°47	27°27	11°51	17°55	1°25	28°31	25° 0	23°50	7° 1	n.a.	S 15
M16	9 27 21	23°48'11	26°22	10° 6	5° 9	7° 6	27°40	11°58	17°58	1°24	28°32	24°50	23°46	7° 8	n.a.	M16
T 17	9 31 18	24°47'45	10♎ 8	11°41	6°23	7°26	27°54	12° 6	18° 1	1°23	28°34	24°42	23°43	7°15	n.a.	T 17
W18	9 35 14	25°47'16	23°26	13°11	7°38	7°45	28° 8	12°13	18° 4	1°22	28°36	24°35	23°40	7°21	n.a.	W18
T 19	9 39 11	26°46'45	6♏17	14°36	8°52	8° 6	28°21	12°20	18° 7	1°21	28°37	24°31	23°37	7°28	n.a.	T 19
F 20	9 43 7	27°46'13	18°46	15°56	10° 7	8°26	28°34	12°27	18°10	1°19	28°39	24°29	23°34	7°35	n.a.	F 20
S 21	9 47 4	28°45'39	0♐56	17°10	11°21	8°47	28°48	12°34	18°13	1°18	28°40	24°D28	23°30	7°41	n.a.	S 21
S 22	9 51 1	29°45'03	12°52	18°17	12°35	9° 8	29° 1	12°42	18°15	1°17	28°42	24°29	23°27	7°48	n.a.	S 22
M23	9 54 57	0♓44'25	24°41	19°18	13°50	9°30	29°15	12°49	18°18	1°15	28°43	24°R29	23°24	7°55	n.a.	M23
T 24	9 58 54	1°43'45	6♉27	20°12	15° 4	9°51	29°28	12°56	18°21	1°14	28°45	24°28	23°21	8° 1	n.a.	T 24
W25	10 2 50	2°43'03	18°16	21° 0	16°18	10°13	29°41	13° 3	18°24	1°13	28°46	24°25	23°18	8° 8	n.a.	W25
T 26	10 6 47	3°42'19	0♒11	21°40	17°32	10°36	29°54	13°10	18°27	1°11	28°48	24°20	23°15	8°15	n.a.	T 26
F 27	10 10 43	4°41'34	12°16	22°12	18°47	10°59	0♒ 7	13°17	18°29	1°10	28°49	24°12	23°11	8°21	n.a.	F 27
S 28	10 14 40	5♓40'46	24♒32	22♓37	20♓ 1	11♊22	0♒20	13♒24	18♉32	1♎ 8	28♉51	24♐ 2	23♐ 8	8♉28	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	18s15	8s 3	4n33	18s57	1s38	17s27	1s27	23n48	2n50	22s10	0s39	19s13	1s22	23s 6	0s30	1n 5	1n55	30s51	10s18	23s39	23s36	22s38			n.a.
M 2	17 59	3 10	4 58	18 18	1 33	17 4	1 27	23 49	2 49	22 8	0 39	19 11	1 22	23 6	0 30	1 6	1 55	30 50	10 18	23 39	23 36	22 37			n.a.
T 3	17 43	1n54	5 8	17 38	1 27	16 41	1 27	23 51	2 48	22 5	0 39	19 9	1 22	23 5	0 30	1 6	1 55	30 50	10 18	23 39	23 36	22 35			n.a.
W 4	17 26	6 58	5 4	16 56	1 20	16 17	1 27	23 53	2 47	22 3	0 40	19 7	1 22	23 5	0 30	1 6	1 55	30 50	10 18	23 39	23 36	22 34			n.a.
T 5	17 9	11 49	4 43	16 12	1 13	15 52	1 26	23 55	2 46	22 0	0 40	19 5	1 22	23 4	0 30	1 7	1 55	30 50	10 18	23 38	23 36	22 33			n.a.
F 6	16 52	16 13	4 8	15 27	1 5	15 27	1 26	23 57	2 46	21 58	0 40	19 3	1 22	23 4	0 30	1 7	1 55	30 49	10 18	23 38	23 36	22 32			n.a.
S 7	16 34	19 53	3 18	14 40	0 56	15 2	1 26	23 59	2 45	21 55	0 40	19 1	1 22	23 4	0 30	1 8	1 55	30 49	10 19	23 38	23 35	22 31			n.a.
S 8	16 16	22 30	2 15	13 52	0 47	14 36	1 25	24 1	2 44	21 53	0 40	18 59	1 22	23 3	0 30	1 8	1 55	30 49	10 19	23 38	23 35	22 30			n.a.
M 9	15 58	23 45	1 3	13 3	0 37	14 10	1 25	24 3	2 43	21 50	0 40	18 57	1 22	23 3	0 30	1 9	1 55	30 49	10 19	23 38	23 35	22 28			n.a.
T 10	15 40	23 27	0s15	12 13	0 26	13 44	1 25	24 5	2 42	21 48	0 40	18 55	1 22	23 2	0 30	1 9	1 55	30 48	10 19	23 38	23 35	22 27			n.a.
W11	15 21	21 32	1 33	11 22	0 15	13 17	1 24	24 8	2 41	21 45	0 40	18 53	1 22	23 2	0 30	1 10	1 55	30 48	10 19	23 38	23 35	22 26			n.a.
T 12	15 2	18 8	2 45	10 31	0 4	12 50	1 23	24 10	2 40	21 43	0 41	18 51	1 22	23 2	0 30	1 10	1 56	30 48	10 19	23 38	23 35	22 25			n.a.
F 13	14 43	13 33	3 46	9 40	0n 8	12 23	1 23	24 12	2 39	21 40	0 41	18 49	1 23	23 1	0 30	1 11	1 56	30 48	10 19	23 38	23 35	22 24			n.a.
S 14	14 24	8 12	4 31	8 49	0 21	11 55	1 22	24 15	2 38	21 38	0 41	18 47	1 23	23 1	0 30	1 11	1 56	30 47	10 20	23 38	23 34	22 22			n.a.
S 15	14 4	2 29	4 58	7 59	0 33	11 27	1 21	24 17	2 38	21 35	0 41	18 45	1 23	23 0	0 30	1 12	1 56	30 47	10 20	23 37	23 34	22 21			n.a.
M16	13 44	3s12	5 5	7 9	0 46	10 58	1 20	24 19	2 37	21 32	0 41	18 43	1 23	23 0	0 31	1 12	1 56	30 47	10 20	23 37	23 34	22 20			n.a.
T 17	13 24	8 33	4 54	6 21	1 0	10 30	1 19	24 22	2 36	21 30	0 41	18 41	1 23	23 0	0 31	1 13	1 56	30 47	10 20	23 37	23 34	22 19			n.a.
W18	13 4	13 20	4 28	5 34	1 13	10 1	1 18	24 24	2 35	21 27	0 41	18 39	1 23	22 59	0 31	1 13	1 56	30 47	10 20	23 36	23 34	22 17			n.a.
T 19	12 44	17 21	3 48	4 48	1 26	9 32	1 17	24 27	2 34	21 25	0 42	18 37	1 23	22 59	0 31	1 14	1 56	30 47	10 20	23 36	23 34	22 16			n.a.
F 20	12 23	20 28	2 59	4 5	1 39	9 2	1 16	24 29	2 33	21 22	0 42	18 35	1 23	22 58	0 31	1 14	1 56	30 46	10 21	23 36	23 34	22 15			n.a.
S 21	12 2	22 35	2 3	3 24	1 52	8 33	1 15	24 32	2 32	21 19	0 42	18 34	1 23	22 58	0 31	1 15	1 56	30 46	10 21	23 36	23 33	22 14			n.a.
S 22	11 41	23 38	1 2	2 46	2 5	8 3	1 14	24 34	2 32	21 17	0 42	18 32	1 23	22 58	0 31	1 15	1 56	30 46	10 21	23 36	23 33	22 13			n.a.
M23	11 20	23 35	0n 1	2 11	2 17	7 33	1 12	24 37	2 31	21 14	0 42	18 30	1 23	22 57	0 31	1 16	1 56	30 46	10 21	23 36	23 33	22 11			n.a.
T 24	10 59	22 30	1 3	1 39	2 29	7 2	1 11	24 39	2 30	21 11	0 42	18 28	1 24	22 57	0 31	1 17	1 56	30 46	10 21	23 36	23 33	22 10			n.a.
W25	10 37	20 25	2 3	1 10	2 40	6 32	1 10	24 42	2 29	21 9	0 42	18 26	1 24	22 57	0 31	1 17	1 56	30 46	10 21	23 36	23 33	22 9			n.a.
T 26	10 16	17 27	2 58	0 45	2 50	6 1	1 8	24 44	2 28	21 6	0 43	18 24	1 24	22 56	0 31	1 18	1 56	30 45	10 22	23 36	23 33	22 8			n.a.
F 27	9 54	13 43	3 45	0 23	2 59	5 31	1 7	24 47	2 27	21 3	0 43	18 22	1 24	22 56	0 31	1 18	1 56	30 45	10 22	23 35	23 32	22 6			n.a.
S 28	9s32	9s22	4n23	0s 5	3n 8	5s 0	1s 5	24n49	2n26	21s 1	0s43	18s20	1s24	22s56	0s31	1n19	1n56	30s45	10s22	23s35	23s32	22s 5			n.a.

Julian Day Number = 1653517.5, Delta T = 03h29m41s
Ecliptic obliquity = 23°43'03, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°38'06, Lahiri = - 6°31'05 Julian Calendar 1 Feb. 186 BCE == Greg. Calendar 29 Jan. 186 BCE

The year -185 astronomical counting style corresponds to year 186 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 186 BCE
geocentric

MARCH 186 BCE (-185) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 18 36	6♓39'56	7♓ 2	22♓55	21♓15	11♊45	0♒33	13♒31	18♑34	1°R 7	28♑52	23°R49	23♐ 5	8♑35	n.a.	S 1
M 2	10 22 33	7°39'03	19°45	23° 5	22°29	12° 8	0°46	13°38	18°37	1♎ 5	28°53	23♐36	23° 2	8°41	n.a.	M 2
T 3	10 26 30	8°38'09	2♈41	23°R 8	23°43	12°32	0°59	13°45	18°40	1° 4	28°55	23°24	22°59	8°48	n.a.	T 3
W 4	10 30 26	9°37'12	15°48	23° 4	24°57	12°56	1°12	13°52	18°42	1° 2	28°56	23°13	22°56	8°55	n.a.	W 4
T 5	10 34 23	10°36'13	29° 7	22°54	26°11	13°21	1°25	13°59	18°45	1° 1	28°58	23° 5	22°52	9° 1	n.a.	T 5
F 6	10 38 19	11°35'12	12♉37	22°36	27°25	13°45	1°37	14° 6	18°47	0°59	28°59	23° 0	22°49	9° 8	n.a.	F 6
S 7	10 42 16	12°34'09	26°18	22°13	28°39	14°10	1°50	14°13	18°49	0°58	29° 0	22°57	22°46	9°14	n.a.	S 7
S 8	10 46 12	13°33'03	10♊ 9	21°45	29°53	14°35	2° 2	14°20	18°52	0°56	29° 2	22°D56	22°43	9°21	n.a.	S 8
M 9	10 50 9	14°31'54	24°11	21°11	1♈ 7	15° 1	2°15	14°26	18°54	0°55	29° 3	22°R56	22°40	9°28	n.a.	M 9
T 10	10 54 5	15°30'44	8♋24	20°34	2°21	15°26	2°27	14°33	18°56	0°53	29° 4	22°56	22°36	9°34	n.a.	T 10
W11	10 58 2	16°29'30	22°46	19°53	3°35	15°52	2°39	14°40	18°59	0°52	29° 5	22°54	22°33	9°41	n.a.	W11
T 12	11 1 58	17°28'15	7♌15	19°10	4°49	16°18	2°52	14°46	19° 1	0°50	29° 7	22°49	22°30	9°48	n.a.	T 12
F 13	11 5 55	18°26'57	21°45	18°25	6° 2	16°44	3° 4	14°53	19° 3	0°49	29° 8	22°41	22°27	9°54	n.a.	F 13
S 14	11 9 52	19°25'37	6♍11	17°40	7°16	17°11	3°16	14°59	19° 5	0°47	29° 9	22°31	22°24	10° 1	n.a.	S 14
S 15	11 13 48	20°24'14	20°27	16°54	8°30	17°38	3°28	15° 6	19° 7	0°45	29°10	22°19	22°21	10° 8	n.a.	S 15
M16	11 17 45	21°22'50	4♎26	16°10	9°44	18° 4	3°40	15°12	19° 9	0°44	29°11	22° 7	22°17	10°14	n.a.	M16
T 17	11 21 41	22°21'24	18° 4	15°27	10°57	18°31	3°52	15°19	19°11	0°42	29°13	21°56	22°14	10°21	n.a.	T 17
W18	11 25 38	23°19'56	1♏19	14°47	12°11	18°59	4° 3	15°25	19°13	0°41	29°14	21°46	22°11	10°28	n.a.	W18
T 19	11 29 34	24°18'26	14°10	14°10	13°24	19°26	4°15	15°32	19°15	0°39	29°15	21°40	22° 8	10°34	n.a.	T 19
F 20	11 33 31	25°16'54	26°40	13°37	14°38	19°54	4°27	15°38	19°17	0°37	29°16	21°36	22° 5	10°41	n.a.	F 20
S 21	11 37 27	26°15'20	8♐52	13° 8	15°52	20°21	4°38	15°44	19°19	0°36	29°17	21°34	22° 1	10°48	n.a.	S 21
S 22	11 41 24	27°13'45	20°50	12°43	17° 5	20°49	4°49	15°50	19°21	0°34	29°18	21°34	21°58	10°54	n.a.	S 22
M23	11 45 21	28°12'08	2♑41	12°23	18°19	21°18	5° 1	15°56	19°23	0°32	29°19	21°34	21°55	11° 1	n.a.	M23
T 24	11 49 17	29°10'30	14°29	12° 7	19°32	21°46	5°12	16° 3	19°24	0°31	29°20	21°33	21°52	11° 8	n.a.	T 24
W25	11 53 14	0♈ 8'50	26°20	11°57	20°45	22°14	5°23	16° 9	19°26	0°29	29°21	21°30	21°49	11°14	n.a.	W25
T 26	11 57 10	1° 7'08	8♒19	11°51	21°59	22°43	5°34	16°15	19°28	0°27	29°22	21°25	21°46	11°21	n.a.	T 26
F 27	12 1 7	2° 5'24	20°30	11°D51	23°12	23°12	5°45	16°20	19°29	0°26	29°23	21°18	21°42	11°28	n.a.	F 27
S 28	12 5 3	3° 3'39	2♓57	11°56	24°25	23°41	5°56	16°26	19°31	0°24	29°24	21° 8	21°39	11°34	n.a.	S 28
S 29	12 9 0	4° 1'52	15°40	12° 5	25°39	24°10	6° 7	16°32	19°32	0°23	29°25	20°56	21°36	11°41	n.a.	S 29
M30	12 12 56	5° 0'03	28°40	12°19	26°52	24°39	6°17	16°38	19°34	0°21	29°26	20°44	21°33	11°47	n.a.	M30
T 31	12 16 53	5♈58'12	11♈57	12♓38	28♈ 5	25♊ 9	6♒28	16♒44	19♑35	0♎19	29♑27	20♐32	21♐30	11♑54	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	9s10	4s34	4n49	0n 8	3n15	4s29	1s 3	24n52	2n26	20s58	0s43	18s18	1s24	22s55	0s31	1n20	1n56	30s45	10s22	23s34	23s32	22s 4			n.a.
M 2	8 48	0n30	5 1	0 18	3 21	3 58	1 2	24 54	2 25	20 55	0 43	18 16	1 24	22 55	0 31	1 20	1 56	30 45	10 23	23 34	23 32	22 2			n.a.
T 3	8 26	5 37	4 57	0 23	3 26	3 26	1 0	24 56	2 24	20 53	0 43	18 14	1 24	22 55	0 31	1 21	1 56	30 45	10 23	23 33	23 32	22 1			n.a.
W 4	8 3	10 34	4 39	0 25	3 29	2 55	0 58	24 59	2 23	20 50	0 44	18 12	1 24	22 54	0 31	1 21	1 56	30 45	10 23	23 33	23 32	22 0			n.a.
T 5	7 41	15 5	4 4	0 22	3 31	2 24	0 56	25 1	2 22	20 47	0 44	18 10	1 25	22 54	0 31	1 22	1 56	30 45	10 23	23 32	23 31	21 59			n.a.
F 6	7 18	18 55	3 16	0 16	3 31	1 52	0 55	25 3	2 21	20 45	0 44	18 8	1 25	22 54	0 31	1 23	1 56	30 45	10 23	23 32	23 31	21 57			n.a.
S 7	6 55	21 45	2 16	0 5	3 30	1 21	0 53	25 6	2 21	20 42	0 44	18 6	1 25	22 53	0 31	1 23	1 56	30 45	10 24	23 32	23 31	21 56			n.a.
S 8	6 32	23 20	1 7	0s 9	3 27	0 49	0 51	25 8	2 20	20 39	0 44	18 5	1 25	22 53	0 31	1 24	1 56	30 44	10 24	23 32	23 31	21 55			n.a.
M 9	6 9	23 29	0s 7	0 26	3 22	0 18	0 49	25 10	2 19	20 36	0 44	18 3	1 25	22 53	0 31	1 25	1 56	30 44	10 24	23 32	23 31	21 53			n.a.
T 10	5 47	22 6	1 21	0 47	3 16	0n14	0 47	25 12	2 18	20 34	0 45	18 1	1 25	22 52	0 31	1 25	1 56	30 44	10 24	23 32	23 31	21 52			n.a.
W11	5 23	19 17	2 31	1 10	3 8	0 46	0 44	25 14	2 17	20 31	0 45	17 59	1 25	22 52	0 31	1 26	1 56	30 44	10 25	23 31	23 30	21 51			n.a.
T 12	5 0	15 16	3 31	1 36	2 59	1 17	0 42	25 16	2 17	20 28	0 45	17 57	1 25	22 52	0 31	1 27	1 57	30 44	10 25	23 31	23 30	21 49			n.a.
F 13	4 37	10 21	4 18	2 4	2 48	1 49	0 40	25 18	2 16	20 26	0 45	17 55	1 26	22 52	0 31	1 27	1 57	30 44	10 25	23 31	23 30	21 48			n.a.
S 14	4 14	4 53	4 49	2 33	2 36	2 20	0 38	25 20	2 15	20 23	0 45	17 53	1 26	22 51	0 31	1 28	1 57	30 44	10 25	23 30	23 30	21 47			n.a.
S 15	3 51	0s46	5 0	3 3	2 23	2 52	0 36	25 22	2 14	20 21	0 45	17 52	1 26	22 51	0 31	1 28	1 57	30 44	10 26	23 30	23 30	21 45			n.a.
M16	3 27	6 16	4 54	3 33	2 9	3 23	0 33	25 23	2 14	20 18	0 46	17 50	1 26	22 51	0 31	1 29	1 57	30 44	10 26	23 29	23 29	21 44			n.a.
T 17	3 4	11 19	4 30	4 3	1 54	3 55	0 31	25 25	2 13	20 15	0 46	17 48	1 26	22 50	0 31	1 30	1 57	30 44	10 26	23 28	23 29	21 43			n.a.
W18	2 41	15 42	3 53	4 33	1 38	4 26	0 29	25 27	2 12	20 13	0 46	17 46	1 26	22 50	0 31	1 30	1 57	30 44	10 26	23 28	23 29	21 41			n.a.
T 19	2 17	19 12	3 4	5 2	1 22	4 57	0 26	25 28	2 11	20 10	0 46	17 44	1 26	22 50	0 31	1 31	1 57	30 44	10 27	23 27	23 29	21 40			n.a.
F 20	1 54	21 42	2 8	5 30	1 6	5 28	0 24	25 30	2 10	20 7	0 46	17 43	1 27	22 50	0 31	1 32	1 57	30 44	10 27	23 27	23 29	21 39			n.a.
S 21	1 30	23 8	1 7	5 57	0 50	5 59	0 21	25 31	2 10	20 5	0 47	17 41	1 27	22 50	0 31	1 32	1 57	30 44	10 27	23 27	23 28	21 37			n.a.
S 22	1 7	23 28	0 4	6 21	0 33	6 30	0 19	25 32	2 9	20 2	0 47	17 39	1 27	22 49	0 31	1 33	1 57	30 44	10 27	23 27	23 28	21 36			n.a.
M23	0 43	22 43	0n59	6 44	0 17	7 0	0 16	25 34	2 8	20 0	0 47	17 38	1 27	22 49	0 31	1 34	1 57	30 44	10 28	23 27	23 28	21 34			n.a.
T 24	0 20	20 57	1 58	7 4	0 2	7 31	0 14	25 35	2 7	19 57	0 47	17 36	1 27	22 49	0 31	1 34	1 57	30 44	10 28	23 27	23 28	21 33			n.a.
W25	0n 4	18 18	2 53	7 22	0s14	8 1	0 11	25 36	2 7	19 54	0 47	17 34	1 27	22 49	0 31	1 35	1 57	30 44	10 28	23 27	23 28	21 32			n.a.
T 26	0 27	14 50	3 41	7 38	0 29	8 32	0 9	25 37	2 6	19 52	0 48	17 33	1 28	22 48	0 32	1 36	1 57	30 44	10 29	23 26	23 27	21 30			n.a.
F 27	0 50	10 43	4 19	7 51	0 43	9 2	0 6	25 37	2 5	19 49	0 48	17 31	1 28	22 48	0 32	1 36	1 57	30 45	10 29	23 26	23 27	21 29			n.a.
S 28	1 14	6 6	4 46	8 2	0 57	9 31	0 3	25 38	2 4	19 47	0 48	17 29	1 28	22 48	0 32	1 37	1 57	30 45	10 29	23 25	23 27	21 27			n.a.
S 29	1 37	1 7	5 0	8 11	1 10	10 1	0 1	25 39	2 4	19 44	0 48	17 28	1 28	22 48	0 32	1 38	1 57	30 45	10 29	23 24	23 27	21 26			n.a.
M30	2 1	4n 1	4 58	8 16	1 22	10 30	0n 2	25 39	2 3	19 42	0 48	17 26	1 28	22 48	0 32	1 38	1 57	30 45	10 30	23 23	23 27	21 25			n.a.
T 31	2n24	9n 4	4n41	8s20	1s33	10n59	0n 5	25n40	2n 2	19s39	0s49	17s24	1s28	22s47	0s32	1n39	1n57	30s45	10s30	23s23	23s26	21s23			n.a.

Julian Day Number = 1653545.5, Delta T = 03h29m40s
Ecliptic obliquity = 23°43'03, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°38'02, Lahiri = - 6°31'02 Julian Calendar 1 March 186 BCE == Greg. Calendar 26 Feb. 186 BCE

The year -185 astronomical counting style corresponds to year 186 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 186 BCE
geocentric

APRIL 186 BCE (-185) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 20 49	6♈56'19	25♈28	13♓ 1	29♈18	25♊38	6♒38	16♒49	19♑37	0°R18	29♑27	20°R21	21♐27	12♑ 1	n.a.	W 1
T 2	12 24 46	7°54'25	9♉11	13°29	0♉32	26° 8	6°48	16°55	19°38	0♎16	29°28	20♐13	21°23	12° 7	n.a.	T 2
F 3	12 28 43	8°52'29	23° 2	14° 1	1°45	26°38	6°59	17° 0	19°39	0°14	29°29	20° 8	21°20	12°14	n.a.	F 3
S 4	12 32 39	9°50'31	7♊ 0	14°37	2°58	27° 8	7° 9	17° 6	19°40	0°13	29°30	20° 6	21°17	12°21	n.a.	S 4
S 5	12 36 36	10°48'31	21° 3	15°16	4°11	27°38	7°19	17°11	19°41	0°11	29°31	20°D 5	21°14	12°27	n.a.	S 5
M 6	12 40 32	11°46'29	5♋ 8	16° 0	5°24	28° 9	7°28	17°16	19°43	0°10	29°31	20°R 5	21°11	12°34	n.a.	M 6
T 7	12 44 29	12°44'25	19°16	16°47	6°37	28°39	7°38	17°22	19°44	0° 8	29°32	20° 5	21° 7	12°41	n.a.	T 7
W 8	12 48 25	13°42'19	3♌25	17°37	7°50	29°10	7°48	17°27	19°45	0° 6	29°33	20° 4	21° 4	12°47	n.a.	W 8
T 9	12 52 22	14°40'11	17°34	18°31	9° 3	29°40	7°57	17°32	19°46	0° 5	29°33	20° 0	21° 1	12°54	n.a.	T 9
F 10	12 56 18	15°38'01	1♍39	19°28	10°15	0♋11	8° 7	17°37	19°47	0° 3	29°34	19°54	20°58	13° 1	n.a.	F 10
S 11	13 0 15	16°35'49	15°39	20°28	11°28	0°42	8°16	17°42	19°48	0° 2	29°34	19°46	20°55	13° 7	n.a.	S 11
S 12	13 4 12	17°33'35	29°28	21°31	12°41	1°13	8°25	17°47	19°48	0° 0	29°35	19°36	20°52	13°14	n.a.	S 12
M13	13 8 8	18°31'20	13♎ 5	22°36	13°54	1°44	8°34	17°52	19°49	29♍59	29°36	19°26	20°48	13°21	n.a.	M13
T 14	13 12 5	19°29'04	26°24	23°45	15° 6	2°16	8°43	17°57	19°50	29°57	29°36	19°16	20°45	13°27	n.a.	T 14
W15	13 16 1	20°26'45	9♏26	24°56	16°19	2°47	8°52	18° 1	19°51	29°56	29°37	19° 8	20°42	13°34	n.a.	W15
T 16	13 19 58	21°24'26	22° 8	26°10	17°32	3°19	9° 0	18° 6	19°51	29°54	29°37	19° 3	20°39	13°41	n.a.	T 16
F 17	13 23 54	22°22'05	4♐33	27°27	18°44	3°50	9° 9	18°10	19°52	29°53	29°38	19° 0	20°36	13°47	n.a.	F 17
S 18	13 27 51	23°19'43	16°43	28°46	19°57	4°22	9°17	18°15	19°52	29°51	29°38	18°D59	20°32	13°54	n.a.	S 18
S 19	13 31 47	24°17'20	28°42	0♈ 7	21° 9	4°54	9°26	18°19	19°53	29°50	29°38	18°59	20°29	14° 1	n.a.	S 19
M20	13 35 44	25°14'56	10♑33	1°31	22°22	5°26	9°34	18°24	19°53	29°48	29°39	19° 0	20°26	14° 7	n.a.	M20
T 21	13 39 41	26°12'31	22°22	2°57	23°34	5°58	9°42	18°28	19°54	29°47	29°39	19°R 1	20°23	14°14	n.a.	T 21
W22	13 43 37	27°10'05	4♒15	4°26	24°46	6°30	9°50	18°32	19°54	29°45	29°39	19° 1	20°20	14°21	n.a.	W22
T 23	13 47 34	28° 7'37	16°16	5°57	25°59	7° 2	9°57	18°36	19°54	29°44	29°40	18°59	20°17	14°27	n.a.	T 23
F 24	13 51 30	29° 5'09	28°30	7°31	27°11	7°35	10° 5	18°40	19°55	29°43	29°40	18°55	20°13	14°34	n.a.	F 24
S 25	13 55 27	0♉ 2'39	11♓ 1	9° 6	28°23	8° 7	10°12	18°44	19°55	29°41	29°40	18°49	20°10	14°41	n.a.	S 25
S 26	13 59 23	1° 0'09	23°52	10°44	29°35	8°40	10°20	18°48	19°55	29°40	29°41	18°42	20° 7	14°47	n.a.	S 26
M27	14 3 20	1°57'37	7♈ 5	12°25	0♊48	9°12	10°27	18°52	19°55	29°39	29°41	18°34	20° 4	14°54	n.a.	M27
T 28	14 7 16	2°55'05	20°38	14° 7	2° 0	9°45	10°34	18°55	19°55	29°37	29°41	18°27	20° 1	15° 1	n.a.	T 28
W29	14 11 13	3°52'31	4♉30	15°52	3°12	10°18	10°40	18°59	19°R55	29°36	29°41	18°20	19°58	15° 7	n.a.	W29
T 30	14 15 10	4♉49'57	18♉36	17♈40	4♊24	10♋51	10♒47	19♒ 2	19♑55	29♍35	29♑41	18♐15	19♐54	15♑14	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	2n47	13n47	4n 7	8s21	1s44	11n28	0n 7	25n40	2n 2	19s37	0s49	17s23	1s29	22s47	0s32	1n40	1n57	30s45	10s30	23s22	23s26	21s22		n.a.
T 2	3 10	17 51	3 19	8 19	1 54	11 57	0 10	25 40	2 1	19 35	0 49	17 21	1 29	22 47	0 32	1 40	1 57	30 45	10 31	23 21	23 26	21 20		n.a.
F 3	3 33	20 59	2 18	8 15	2 4	12 25	0 13	25 41	2 0	19 32	0 49	17 20	1 29	22 47	0 32	1 41	1 57	30 45	10 31	23 21	23 26	21 19		n.a.
S 4	3 57	22 52	1 9	8 9	2 12	12 53	0 15	25 41	1 59	19 30	0 49	17 18	1 29	22 47	0 32	1 42	1 57	30 45	10 31	23 21	23 26	21 17		n.a.
S 5	4 20	23 20	0s 5	8 1	2 20	13 21	0 18	25 40	1 59	19 27	0 50	17 17	1 29	22 47	0 32	1 42	1 57	30 45	10 32	23 21	23 25	21 16		n.a.
M 6	4 42	22 18	1 19	7 50	2 27	13 48	0 21	25 40	1 58	19 25	0 50	17 15	1 29	22 47	0 32	1 43	1 57	30 46	10 32	23 21	23 25	21 15		n.a.
T 7	5 5	19 52	2 29	7 37	2 33	14 15	0 23	25 40	1 57	19 23	0 50	17 14	1 30	22 46	0 32	1 44	1 57	30 46	10 32	23 21	23 25	21 13		n.a.
W 8	5 28	16 14	3 29	7 23	2 39	14 42	0 26	25 39	1 57	19 21	0 50	17 12	1 30	22 46	0 32	1 44	1 57	30 46	10 32	23 20	23 25	21 12		n.a.
T 9	5 51	11 40	4 17	7 6	2 43	15 8	0 29	25 39	1 56	19 18	0 51	17 11	1 30	22 46	0 32	1 45	1 57	30 46	10 33	23 20	23 25	21 10		n.a.
F 10	6 13	6 31	4 49	6 47	2 47	15 34	0 32	25 38	1 55	19 16	0 51	17 10	1 30	22 46	0 32	1 45	1 57	30 46	10 33	23 20	23 24	21 9		n.a.
S 11	6 36	1 5	5 3	6 26	2 51	15 59	0 34	25 37	1 54	19 14	0 51	17 8	1 30	22 46	0 32	1 46	1 57	30 46	10 33	23 19	23 24	21 7		n.a.
S 12	6 58	4s21	4 59	6 3	2 53	16 25	0 37	25 36	1 54	19 12	0 51	17 7	1 31	22 46	0 32	1 47	1 57	30 47	10 34	23 18	23 24	21 6		n.a.
M13	7 20	9 29	4 39	5 39	2 55	16 49	0 40	25 35	1 53	19 9	0 52	17 6	1 31	22 46	0 32	1 47	1 57	30 47	10 34	23 17	23 24	21 4		n.a.
T 14	7 43	14 4	4 3	5 12	2 57	17 14	0 42	25 34	1 52	19 7	0 52	17 4	1 31	22 46	0 32	1 48	1 57	30 47	10 34	23 17	23 23	21 3		n.a.
W15	8 5	17 53	3 15	4 44	2 57	17 38	0 45	25 33	1 52	19 5	0 52	17 3	1 31	22 46	0 32	1 48	1 57	30 47	10 35	23 16	23 23	21 1		n.a.
T 16	8 27	20 45	2 19	4 15	2 57	18 1	0 47	25 32	1 51	19 3	0 52	17 2	1 31	22 46	0 32	1 49	1 57	30 47	10 35	23 16	23 23	21 0		n.a.
F 17	8 48	22 33	1 17	3 43	2 56	18 24	0 50	25 30	1 50	19 1	0 53	17 1	1 32	22 46	0 32	1 50	1 57	30 47	10 35	23 15	23 23	20 58		n.a.
S 18	9 10	23 15	0 12	3 10	2 55	18 47	0 53	25 28	1 50	18 59	0 53	16 59	1 32	22 46	0 32	1 50	1 56	30 48	10 36	23 15	23 23	20 57		n.a.
S 19	9 31	22 51	0n52	2 36	2 53	19 9	0 55	25 26	1 49	18 57	0 53	16 58	1 32	22 45	0 32	1 51	1 56	30 48	10 36	23 15	23 22	20 55		n.a.
M20	9 53	21 24	1 53	1 59	2 50	19 30	0 58	25 25	1 48	18 55	0 53	16 57	1 32	22 45	0 32	1 51	1 56	30 48	10 36	23 15	23 22	20 54		n.a.
T 21	10 14	19 3	2 50	1 22	2 47	19 51	1 0	25 22	1 48	18 53	0 54	16 56	1 32	22 45	0 32	1 52	1 56	30 48	10 37	23 15	23 22	20 52		n.a.
W22	10 35	15 52	3 39	0 43	2 43	20 12	1 3	25 20	1 47	18 51	0 54	16 55	1 33	22 45	0 32	1 52	1 56	30 49	10 37	23 15	23 22	20 51		n.a.
T 23	10 56	12 1	4 19	0 2	2 39	20 32	1 5	25 18	1 46	18 49	0 54	16 54	1 33	22 45	0 32	1 53	1 56	30 49	10 37	23 15	23 21	20 49		n.a.
F 24	11 17	7 37	4 49	0n39	2 34	20 51	1 8	25 15	1 46	18 48	0 54	16 53	1 33	22 45	0 32	1 54	1 56	30 49	10 38	23 15	23 21	20 48		n.a.
S 25	11 37	2 49	5 5	1 23	2 29	21 10	1 10	25 13	1 45	18 46	0 55	16 52	1 33	22 45	0 33	1 54	1 56	30 49	10 38	23 14	23 21	20 46		n.a.
S 26	11 57	2n13	5 7	2 7	2 23	21 29	1 12	25 10	1 44	18 44	0 55	16 51	1 33	22 45	0 33	1 55	1 56	30 50	10 38	23 14	23 21	20 45		n.a.
M27	12 18	7 18	4 52	2 53	2 16	21 46	1 15	25 7	1 44	18 42	0 55	16 50	1 34	22 45	0 33	1 55	1 56	30 50	10 39	23 13	23 20	20 43		n.a.
T 28	12 38	12 10	4 21	3 39	2 9	22 3	1 17	25 4	1 43	18 41	0 55	16 49	1 34	22 45	0 33	1 56	1 56	30 50	10 39	23 12	23 20	20 42		n.a.
W29	12 57	16 31	3 34	4 27	2 1	22 20	1 19	25 1	1 42	18 39	0 56	16 48	1 34	22 45	0 33	1 56	1 56	30 50	10 39	23 12	23 20	20 40		n.a.
T 30	13n17	20n 1	2n33	5n16	1s53	22n36	1n21	24n57	1n42	18s38	0s56	16s47	1s34	22s46	0s33	1n57	1n56	30s51	10s39	23s11	23s20	20s39		n.a.

Julian Day Number = 1653576.5, Delta T = 03h29m39s
Ecliptic obliquity = 23°43'03, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'58, Lahiri = - 6°30'57 Julian Calendar 1 Apr. 186 BCE == Greg. Calendar 29 March 186 BCE

The year -185 astronomical counting style corresponds to year 186 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 186 BCE
geocentric

MAY 186 BCE (-185) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 19 6	5♉47'21	2♊54	19♈29	5♊36	11♋24	10♒54	19♒ 6	19°R55	29°R33	29♏41	18°R12	19♐51	15♏21	n.a.	F 1
S 2	14 23 3	6°44'45	17°16	21°21	6°48	11°57	11° 0	19° 9	19♏55	29♍32	29°41	18°D11	19°48	15°27	n.a.	S 2
S 3	14 26 59	7°42'07	1♋39	23°15	8° 0	12°31	11° 6	19°12	19°55	29°31	29°41	18♐12	19°45	15°34	n.a.	S 3
M 4	14 30 56	8°39'28	16° 0	25°11	9°11	13° 4	11°12	19°15	19°54	29°30	29°41	18°13	19°42	15°40	n.a.	M 4
T 5	14 34 52	9°36'48	0♌15	27° 9	10°23	13°37	11°18	19°18	19°54	29°29	29°R41	18°14	19°38	15°47	n.a.	T 5
W 6	14 38 49	10°34'06	14°22	29° 9	11°35	14°11	11°24	19°21	19°54	29°27	29°41	18°R15	19°35	15°54	n.a.	W 6
T 7	14 42 45	11°31'23	28°21	1♉12	12°47	14°44	11°29	19°24	19°53	29°26	29°41	18°13	19°32	16° 0	n.a.	T 7
F 8	14 46 42	12°28'39	12♍ 9	3°16	13°58	15°18	11°35	19°27	19°53	29°25	29°41	18°11	19°29	16° 7	n.a.	F 8
S 9	14 50 39	13°25'54	25°46	5°22	15°10	15°52	11°40	19°30	19°53	29°24	29°41	18° 7	19°26	16°14	n.a.	S 9
S 10	14 54 35	14°23'08	9♎10	7°29	16°21	16°26	11°45	19°32	19°52	29°23	29°41	18° 2	19°23	16°20	n.a.	S 10
M11	14 58 32	15°20'21	22°22	9°37	17°33	17° 0	11°50	19°35	19°51	29°22	29°41	17°56	19°19	16°27	n.a.	M11
T 12	15 2 28	16°17'33	5♏19	11°47	18°44	17°34	11°55	19°37	19°51	29°21	29°41	17°51	19°16	16°34	n.a.	T 12
W13	15 6 25	17°14'45	18° 1	13°58	19°56	18° 8	11°59	19°40	19°50	29°20	29°41	17°48	19°13	16°40	n.a.	W13
T 14	15 10 21	18°11'56	0♐29	16° 9	21° 7	18°42	12° 4	19°42	19°49	29°19	29°40	17°45	19°10	16°47	n.a.	T 14
F 15	15 14 18	19° 9'07	12°45	18°21	22°18	19°16	12° 8	19°44	19°49	29°18	29°40	17°D44	19° 7	16°54	n.a.	F 15
S 16	15 18 14	20° 6'17	24°49	20°32	23°30	19°50	12°12	19°46	19°48	29°17	29°40	17°44	19° 4	17° 0	n.a.	S 16
S 17	15 22 11	21° 3'26	6♑44	22°44	24°41	20°25	12°16	19°48	19°47	29°16	29°40	17°45	19° 0	17° 7	n.a.	S 17
M18	15 26 8	22° 0'36	18°35	24°55	25°52	20°59	12°19	19°50	19°46	29°16	29°39	17°46	18°57	17°14	n.a.	M18
T 19	15 30 4	22°57'45	0♒24	27° 5	27° 3	21°34	12°23	19°52	19°45	29°15	29°39	17°48	18°54	17°20	n.a.	T 19
W20	15 34 1	23°54'53	12°17	29°14	28°14	22° 8	12°26	19°53	19°44	29°14	29°38	17°49	18°51	17°27	n.a.	W20
T 21	15 37 57	24°52'02	24°18	1♊23	29°25	22°43	12°29	19°55	19°43	29°13	29°38	17°R50	18°48	17°34	n.a.	T 21
F 22	15 41 54	25°49'11	6♓32	3°29	0♋35	23°18	12°32	19°56	19°42	29°12	29°38	17°50	18°44	17°40	n.a.	F 22
S 23	15 45 50	26°46'19	19° 3	5°35	1°46	23°52	12°35	19°58	19°41	29°12	29°37	17°48	18°41	17°47	n.a.	S 23
S 24	15 49 47	27°43'27	1♈55	7°38	2°57	24°27	12°38	19°59	19°40	29°11	29°37	17°46	18°38	17°54	n.a.	S 24
M25	15 53 43	28°40'35	15°11	9°40	4° 8	25° 2	12°40	20° 0	19°39	29°10	29°36	17°44	18°35	18° 0	n.a.	M25
T 26	15 57 40	29°37'44	28°52	11°40	5°18	25°37	12°42	20° 1	19°37	29°10	29°36	17°41	18°32	18° 7	n.a.	T 26
W27	16 1 37	0♊34'52	12♉56	13°39	6°29	26°13	12°44	20° 2	19°36	29° 9	29°35	17°39	18°29	18°14	n.a.	W27
T 28	16 5 33	1°32'00	27°20	15°35	7°39	26°48	12°46	20° 3	19°35	29° 9	29°35	17°37	18°25	18°20	n.a.	T 28
F 29	16 9 30	2°29'08	11♊59	17°29	8°50	27°23	12°48	20° 4	19°34	29° 8	29°34	17°D37	18°22	18°27	n.a.	F 29
S 30	16 13 26	3°26'16	26°45	19°21	10° 0	27°58	12°49	20° 4	19°32	29° 8	29°34	17°37	18°19	18°34	n.a.	S 30
S 31	16 17 23	4♊23'24	11♋33	21♊11	11♋10	28♋34	12♒50	20♒ 5	19♏31	29♍ 7	29♏33	17♐37	18♐16	18♏40	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13n36	22n19	1n22	6n 6	1s45	22n51	1n24	24n54	1n41	18s36	0s56	16s46	1s34	22s46	0s33	1n57	1n56	30s51	10s40	23s11	23s19	20s37		n.a.
S 2	13 55	23 11	0 5	6 56	1 36	23 6	1 26	24 50	1 40	18 35	0 56	16 45	1 35	22 46	0 33	1 57	1 56	30 51	10 40	23 11	23 19	20 36		n.a.
S 3	14 14	22 30	1s13	7 48	1 26	23 20	1 28	24 47	1 40	18 33	0 57	16 44	1 35	22 46	0 33	1 58	1 56	30 52	10 40	23 11	23 19	20 34		n.a.
M 4	14 33	20 20	2 25	8 40	1 17	23 34	1 30	24 43	1 39	18 32	0 57	16 43	1 35	22 46	0 33	1 58	1 56	30 52	10 41	23 11	23 19	20 32		n.a.
T 5	14 52	16 56	3 29	9 32	1 7	23 47	1 32	24 39	1 38	18 30	0 57	16 43	1 35	22 46	0 33	1 59	1 56	30 52	10 41	23 11	23 18	20 31		n.a.
W 6	15 10	12 35	4 19	10 25	0 57	23 59	1 34	24 34	1 38	18 29	0 58	16 42	1 36	22 46	0 33	1 59	1 56	30 53	10 41	23 11	23 18	20 29		n.a.
T 7	15 28	7 36	4 53	11 18	0 46	24 10	1 35	24 30	1 37	18 28	0 58	16 41	1 36	22 46	0 33	2 0	1 56	30 53	10 42	23 11	23 18	20 28		n.a.
F 8	15 46	2 19	5 10	12 11	0 35	24 21	1 37	24 26	1 36	18 26	0 58	16 41	1 36	22 46	0 33	2 0	1 56	30 53	10 42	23 11	23 18	20 26		n.a.
S 9	16 3	3s 1	5 9	13 4	0 25	24 31	1 39	24 21	1 36	18 25	0 58	16 40	1 36	22 46	0 33	2 0	1 56	30 54	10 42	23 11	23 17	20 25		n.a.
S 10	16 20	8 7	4 51	13 57	0 14	24 41	1 41	24 16	1 35	18 24	0 59	16 39	1 37	22 46	0 33	2 1	1 56	30 54	10 43	23 10	23 17	20 23		n.a.
M11	16 37	12 46	4 17	14 49	0 3	24 49	1 42	24 11	1 35	18 23	0 59	16 39	1 37	22 46	0 33	2 1	1 56	30 54	10 43	23 10	23 17	20 21		n.a.
T 12	16 54	16 45	3 31	15 40	0n 8	24 57	1 44	24 6	1 34	18 22	0 59	16 38	1 37	22 47	0 33	2 2	1 56	30 55	10 43	23 9	23 17	20 20		n.a.
W13	17 11	19 53	2 36	16 30	0 18	25 5	1 45	24 1	1 33	18 21	1 0	16 38	1 37	22 47	0 33	2 2	1 56	30 55	10 44	23 9	23 16	20 18		n.a.
T 14	17 27	22 0	1 33	17 19	0 28	25 11	1 47	23 55	1 33	18 20	1 0	16 37	1 37	22 47	0 33	2 2	1 56	30 55	10 44	23 9	23 16	20 17		n.a.
F 15	17 43	23 2	0 27	18 6	0 38	25 17	1 48	23 50	1 32	18 19	1 0	16 37	1 38	22 47	0 33	2 3	1 56	30 56	10 44	23 9	23 16	20 15		n.a.
S 16	17 58	22 58	0n39	18 52	0 48	25 22	1 49	23 44	1 31	18 18	1 0	16 36	1 38	22 47	0 33	2 3	1 55	30 56	10 45	23 9	23 16	20 13		n.a.
S 17	18 14	21 50	1 43	19 35	0 57	25 27	1 51	23 38	1 31	18 17	1 1	16 36	1 38	22 47	0 33	2 3	1 55	30 56	10 45	23 9	23 15	20 12		n.a.
M18	18 29	19 45	2 42	20 17	1 6	25 31	1 52	23 33	1 30	18 17	1 1	16 35	1 38	22 47	0 33	2 4	1 55	30 57	10 45	23 9	23 15	20 10		n.a.
T 19	18 44	16 49	3 34	20 56	1 14	25 34	1 53	23 26	1 30	18 16	1 1	16 35	1 39	22 48	0 33	2 4	1 55	30 57	10 46	23 9	23 15	20 9		n.a.
W20	18 58	13 12	4 17	21 33	1 22	25 36	1 54	23 20	1 29	18 15	1 2	16 35	1 39	22 48	0 33	2 4	1 55	30 58	10 46	23 9	23 15	20 7		n.a.
T 21	19 12	9 2	4 49	22 7	1 29	25 38	1 55	23 14	1 28	18 15	1 2	16 35	1 39	22 48	0 33	2 4	1 55	30 58	10 46	23 9	23 14	20 5		n.a.
F 22	19 26	4 26	5 9	22 39	1 35	25 38	1 55	23 7	1 28	18 14	1 2	16 34	1 39	22 48	0 33	2 5	1 55	30 58	10 46	23 9	23 14	20 4		n.a.
S 23	19 40	0n27	5 15	23 8	1 40	25 38	1 56	23 0	1 27	18 14	1 3	16 34	1 40	22 48	0 33	2 5	1 55	30 59	10 47	23 9	23 14	20 2		n.a.
S 24	19 53	5 26	5 6	23 34	1 45	25 38	1 57	22 54	1 26	18 13	1 3	16 34	1 40	22 49	0 33	2 5	1 55	30 59	10 47	23 9	23 13	20 0		n.a.
M25	20 6	10 21	4 40	23 58	1 50	25 36	1 57	22 47	1 26	18 13	1 3	16 34	1 40	22 49	0 33	2 5	1 55	31 0	10 47	23 9	23 13	19 59		n.a.
T 26	20 18	14 54	3 58	24 19	1 53	25 34	1 58	22 39	1 25	18 12	1 3	16 34	1 40	22 49	0 34	2 5	1 55	31 0	10 48	23 8	23 13	19 57		n.a.
W27	20 31	18 45	3 0	24 37	1 56	25 32	1 58	22 32	1 24	18 12	1 4	16 34	1 41	22 49	0 34	2 6	1 55	31 0	10 48	23 8	23 13	19 55		n.a.
T 28	20 42	21 34	1 50	24 53	1 58	25 28	1 59	22 25	1 24	18 12	1 4	16 34	1 41	22 49	0 34	2 6	1 55	31 1	10 48	23 8	23 12	19 54		n.a.
F 29	20 54	23 0	0 31	25 6	1 59	25 24	1 59	22 17	1 23	18 12	1 4	16 34	1 41	22 50	0 34	2 6	1 55	31 1	10 49	23 8	23 12	19 52		n.a.
S 30	21 5	22 50	0s50	25 17	2 0	25 19	1 59	22 9	1 23	18 12	1 5	16 34	1 41	22 50	0 34	2 6	1 55	31 2	10 49	23 8	23 12	19 51		n.a.
S 31	21n16	21n 4	2s 9	25n25	2n 0	25n13	1n59	22n 1	1n22	18s11	1s 5	16s34	1s42	22s50	0s34	2n 6	1n55	31s 2	10s49	23s 8	23s12	19s49		n.a.

Julian Day Number = 1653606.5, Delta T = 03h29m38s
Ecliptic obliquity = 23°43'02, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'54, Lahiri = - 6°30'53 Julian Calendar 1 May 186 BCE == Greg. Calendar 28 Apr. 186 BCE

The year -185 astronomical counting style corresponds to year 186 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 186 BCE
geocentric

JUNE 186 BCE (-185) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 21 19	5♊20'32	26♋15	22♊59	12♋21	29♋ 9	12♒51	20♒ 5	19°R29	29°R 7	29°R32	17♐38	18♐13	18♑47	n.a.	M 1
T 2	16 25 16	6°17'39	10♌47	24°44	13°31	29°45	12°52	20° 6	19♑28	29♍ 6	29♑32	17°39	18°10	18°54	n.a.	T 2
W 3	16 29 13	7°14'46	25° 3	26°28	14°41	0♌20	12°53	20° 6	19°26	29° 6	29°31	17°40	18° 6	19° 0	n.a.	W 3
T 4	16 33 9	8°11'53	9♍ 1	28°10	15°51	0°56	12°53	20° 6	19°25	29° 6	29°30	17°R40	18° 3	19° 7	n.a.	T 4
F 5	16 37 6	9° 8'59	22°42	29°49	17° 1	1°32	12°54	20°R 6	19°23	29° 5	29°30	17°40	18° 0	19°14	n.a.	F 5
S 6	16 41 2	10° 6'05	6♎ 5	1♋26	18°10	2° 8	12°R54	20° 6	19°21	29° 5	29°29	17°39	17°57	19°20	n.a.	S 6
S 7	16 44 59	11° 3'12	19°11	3° 1	19°20	2°44	12°54	20° 6	19°20	29° 5	29°28	17°38	17°54	19°27	n.a.	S 7
M 8	16 48 55	12° 0'18	2♏ 2	4°34	20°30	3°19	12°53	20° 6	19°18	29° 4	29°27	17°38	17°50	19°34	n.a.	M 8
T 9	16 52 52	12°57'24	14°38	6° 5	21°39	3°55	12°53	20° 6	19°16	29° 4	29°26	17°37	17°47	19°40	n.a.	T 9
W10	16 56 48	13°54'31	27° 2	7°34	22°49	4°32	12°52	20° 5	19°14	29° 4	29°26	17°37	17°44	19°47	n.a.	W10
T 11	17 0 45	14°51'37	9♐16	9° 0	23°58	5° 8	12°51	20° 5	19°13	29° 4	29°25	17°37	17°41	19°54	n.a.	T 11
F 12	17 4 42	15°48'44	21°20	10°24	25° 7	5°44	12°50	20° 4	19°11	29° 4	29°24	17°D36	17°38	20° 0	n.a.	F 12
S 13	17 8 38	16°45'52	3♑16	11°46	26°17	6°20	12°49	20° 3	19° 9	29° 4	29°23	17°37	17°35	20° 7	n.a.	S 13
S 14	17 12 35	17°43'00	15° 8	13° 6	27°26	6°56	12°48	20° 2	19° 7	29° 4	29°22	17°R37	17°31	20°14	n.a.	S 14
M15	17 16 31	18°40'08	26°58	14°23	28°35	7°33	12°46	20° 1	19° 5	29°D 4	29°21	17°37	17°28	20°20	n.a.	M15
T 16	17 20 28	19°37'17	8♒47	15°38	29°44	8° 9	12°44	20° 0	19° 3	29° 4	29°20	17°36	17°25	20°27	n.a.	T 16
W17	17 24 24	20°34'27	20°41	16°51	0♌52	8°46	12°42	19°59	19° 1	29° 4	29°19	17°36	17°22	20°34	n.a.	W17
T 18	17 28 21	21°31'37	2♓42	18° 1	2° 1	9°22	12°40	19°58	18°59	29° 4	29°18	17°36	17°19	20°40	n.a.	T 18
F 19	17 32 17	22°28'48	14°55	19° 8	3°10	9°59	12°37	19°57	18°57	29° 4	29°17	17°35	17°16	20°47	n.a.	F 19
S 20	17 36 14	23°26'00	27°24	20°13	4°18	10°36	12°35	19°55	18°55	29° 4	29°16	17°D35	17°12	20°54	n.a.	S 20
S 21	17 40 11	24°23'13	10♈13	21°15	5°27	11°12	12°32	19°54	18°53	29° 4	29°15	17°36	17° 9	21° 0	n.a.	S 21
M22	17 44 7	25°20'27	23°25	22°14	6°35	11°49	12°29	19°52	18°51	29° 5	29°14	17°36	17° 6	21° 7	n.a.	M22
T 23	17 48 4	26°17'42	7♉ 3	23°10	7°43	12°26	12°26	19°50	18°49	29° 5	29°13	17°37	17° 3	21°14	n.a.	T 23
W24	17 52 0	27°14'58	21° 8	24° 3	8°51	13° 3	12°23	19°49	18°46	29° 5	29°12	17°38	17° 0	21°20	n.a.	W24
T 25	17 55 57	28°12'15	5♊36	24°53	9°59	13°40	12°19	19°47	18°44	29° 5	29°11	17°38	16°56	21°27	n.a.	T 25
F 26	17 59 53	29° 9'32	20°26	25°39	11° 7	14°17	12°15	19°45	18°42	29° 6	29°10	17°R38	16°53	21°34	n.a.	F 26
S 27	18 3 50	0♋ 6'51	5♋28	26°22	12°15	14°54	12°11	19°43	18°40	29° 6	29° 9	17°38	16°50	21°40	n.a.	S 27
S 28	18 7 47	1° 4'11	20°36	27° 1	13°22	15°32	12° 7	19°41	18°38	29° 7	29° 8	17°37	16°47	21°47	n.a.	S 28
M29	18 11 43	2° 1'31	5♌39	27°37	14°30	16° 9	12° 3	19°38	18°35	29° 7	29° 7	17°35	16°44	21°54	n.a.	M29
T 30	18 15 40	2♋58'52	20♌29	28♋ 8	15♌37	16♌46	11♒59	19♒36	18♑33	29♍ 8	29♑ 6	17♐34	16♐41	22♑ 0	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21n26	17n54	3s18	25n31	2n 0	25n 7	1n59	21n53	1n21	18s11	1s 5	16s34	1s42	22s50	0s34	2n 6	1n55	31s 2	10s49	23s 8	23s11	19s47		n.a.
T 2	21 37	13 40	4 14	25 35	1 58	25 0	1 59	21 45	1 21	18 12	1 6	16 34	1 42	22 51	0 34	2 7	1 55	31 3	10 50	23 8	23 11	19 45		n.a.
W 3	21 46	8 44	4 53	25 36	1 56	24 52	1 59	21 37	1 20	18 12	1 6	16 34	1 42	22 51	0 34	2 7	1 55	31 3	10 50	23 8	23 11	19 44		n.a.
T 4	21 56	3 26	5 14	25 36	1 54	24 43	1 58	21 28	1 19	18 12	1 6	16 34	1 43	22 51	0 34	2 7	1 55	31 4	10 50	23 8	23 10	19 42		n.a.
F 5	22 5	1s54	5 16	25 34	1 51	24 34	1 58	21 20	1 19	18 12	1 7	16 34	1 43	22 51	0 34	2 7	1 54	31 4	10 51	23 8	23 10	19 40		n.a.
S 6	22 13	7 2	5 1	25 29	1 47	24 24	1 57	21 11	1 18	18 12	1 7	16 35	1 43	22 52	0 34	2 7	1 54	31 5	10 51	23 8	23 10	19 39		n.a.
S 7	22 22	11 45	4 30	25 24	1 43	24 14	1 57	21 2	1 18	18 13	1 7	16 35	1 43	22 52	0 34	2 7	1 54	31 5	10 51	23 8	23 10	19 37		n.a.
M 8	22 29	15 51	3 47	25 16	1 38	24 3	1 56	20 53	1 17	18 13	1 7	16 35	1 43	22 52	0 34	2 7	1 54	31 5	10 51	23 8	23 9	19 35		n.a.
T 9	22 37	19 10	2 53	25 7	1 32	23 51	1 55	20 44	1 16	18 13	1 8	16 35	1 44	22 52	0 34	2 7	1 54	31 6	10 52	23 8	23 9	19 34		n.a.
W10	22 44	21 32	1 52	24 56	1 26	23 39	1 54	20 35	1 16	18 14	1 8	16 36	1 44	22 53	0 34	2 7	1 54	31 6	10 52	23 8	23 9	19 32		n.a.
T 11	22 51	22 51	0 46	24 44	1 20	23 26	1 53	20 25	1 15	18 14	1 8	16 36	1 44	22 53	0 34	2 7	1 54	31 7	10 52	23 8	23 8	19 30		n.a.
F 12	22 57	23 5	0n21	24 31	1 13	23 12	1 52	20 16	1 15	18 15	1 9	16 37	1 44	22 53	0 34	2 7	1 54	31 7	10 52	23 8	23 8	19 29		n.a.
S 13	23 3	22 15	1 26	24 17	1 5	22 58	1 51	20 6	1 14	18 16	1 9	16 37	1 45	22 54	0 34	2 7	1 54	31 8	10 53	23 8	23 8	19 27		n.a.
S 14	23 9	20 25	2 27	24 1	0 58	22 43	1 50	19 56	1 13	18 16	1 9	16 38	1 45	22 54	0 34	2 7	1 54	31 8	10 53	23 8	23 7	19 25		n.a.
M15	23 14	17 43	3 22	23 45	0 49	22 27	1 49	19 46	1 13	18 17	1 10	16 38	1 45	22 54	0 34	2 7	1 54	31 8	10 53	23 8	23 7	19 23		n.a.
T 16	23 18	14 17	4 8	23 27	0 40	22 11	1 47	19 36	1 12	18 18	1 10	16 39	1 45	22 54	0 34	2 7	1 54	31 9	10 53	23 8	23 7	19 22		n.a.
W17	23 23	10 18	4 43	23 9	0 31	21 55	1 45	19 26	1 11	18 19	1 10	16 39	1 46	22 55	0 34	2 7	1 54	31 9	10 54	23 8	23 7	19 20		n.a.
T 18	23 27	5 52	5 7	22 50	0 21	21 37	1 44	19 15	1 11	18 20	1 11	16 40	1 46	22 55	0 34	2 7	1 54	31 10	10 54	23 8	23 6	19 18		n.a.
F 19	23 30	1 9	5 17	22 31	0 11	21 20	1 42	19 5	1 10	18 21	1 11	16 41	1 46	22 55	0 34	2 7	1 54	31 10	10 54	23 8	23 6	19 16		n.a.
S 20	23 33	3n44	5 13	22 11	0 1	21 1	1 40	18 54	1 10	18 22	1 11	16 41	1 46	22 56	0 34	2 6	1 54	31 11	10 54	23 8	23 6	19 15		n.a.
S 21	23 36	8 34	4 53	21 51	0s10	20 43	1 38	18 43	1 9	18 23	1 11	16 42	1 47	22 56	0 34	2 6	1 54	31 11	10 54	23 8	23 5	19 13		n.a.
M22	23 38	13 11	4 18	21 30	0 21	20 23	1 36	18 32	1 8	18 24	1 12	16 43	1 47	22 56	0 34	2 6	1 53	31 12	10 55	23 8	23 5	19 11		n.a.
T 23	23 40	17 16	3 27	21 10	0 33	20 4	1 34	18 21	1 8	18 25	1 12	16 43	1 47	22 57	0 34	2 6	1 53	31 12	10 55	23 8	23 5	19 10		n.a.
W24	23 41	20 32	2 22	20 49	0 45	19 43	1 31	18 10	1 7	18 27	1 12	16 44	1 47	22 57	0 34	2 6	1 53	31 12	10 55	23 8	23 4	19 8		n.a.
T 25	23 42	22 35	1 6	20 28	0 57	19 22	1 29	17 59	1 7	18 28	1 13	16 45	1 47	22 57	0 34	2 6	1 53	31 13	10 55	23 8	23 4	19 6		n.a.
F 26	23 43	23 7	0s15	20 8	1 9	19 1	1 26	17 47	1 6	18 29	1 13	16 46	1 48	22 58	0 34	2 5	1 53	31 13	10 55	23 8	23 4	19 4		n.a.
S 27	23 43	21 59	1 37	19 47	1 22	18 40	1 24	17 35	1 5	18 31	1 13	16 47	1 48	22 58	0 34	2 5	1 53	31 14	10 56	23 8	23 3	19 2		n.a.
S 28	23 43	19 16	2 53	19 27	1 35	18 17	1 21	17 24	1 5	18 32	1 14	16 48	1 48	22 58	0 34	2 5	1 53	31 14	10 56	23 8	23 3	19 1		n.a.
M29	23 42	15 16	3 56	19 7	1 47	17 55	1 18	17 12	1 4	18 33	1 14	16 49	1 48	22 59	0 34	2 5	1 53	31 15	10 56	23 8	23 3	18 59		n.a.
T 30	23n41	10n23	4s42	18n48	2s 0	17n32	1n15	17n 0	1n 3	18s35	1s14	16s50	1s49	22s59	0s34	2n 5	1n53	31s15	10s56	23s 8	23s 2	18s57		n.a.

Julian Day Number = 1653637.5, Delta T = 03h29m37s
Ecliptic obliquity = 23°43'01, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'49, Lahiri = - 6°30'49 Julian Calendar 1 June 186 BCE == Greg. Calendar 29 May 186 BCE

The year -185 astronomical counting style corresponds to year 186 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 186 BCE
geocentric

JULY 186 BCE (-185) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 19 36	3♋56'13	5♍ 0	28♋35	16♌44	17♌24	11°R54	19°R33	18°R31	29♍ 8	29°R 4	17°R32	16♐37	22♑ 7	n.a.	W 1
T 2	18 23 33	4°53'36	19° 7	28°58	17°51	18° 1	11♒49	19♒31	18♑28	29° 9	29♑ 3	17♐31	16°34	22°14	n.a.	T 2
F 3	18 27 29	5°50'58	2♎50	29°16	18°58	18°39	11°45	19°28	18°26	29° 9	29° 2	17°D30	16°31	22°20	n.a.	F 3
S 4	18 31 26	6°48'22	16° 8	29°29	20° 5	19°16	11°39	19°26	18°24	29°10	29° 1	17°30	16°28	22°27	n.a.	S 4
S 5	18 35 22	7°45'47	29° 5	29°38	21°11	19°54	11°34	19°23	18°21	29°10	29° 0	17°31	16°25	22°34	n.a.	S 5
M 6	18 39 19	8°43'12	11♏42	29°R41	22°18	20°31	11°29	19°20	18°19	29°11	28°59	17°33	16°21	22°41	n.a.	M 6
T 7	18 43 16	9°40'38	24° 5	29°39	23°24	21° 9	11°23	19°17	18°17	29°12	28°57	17°34	16°18	22°47	n.a.	T 7
W 8	18 47 12	10°38'05	6♐15	29°32	24°30	21°47	11°18	19°14	18°14	29°13	28°56	17°35	16°15	22°54	n.a.	W 8
T 9	18 51 9	11°35'34	18°16	29°19	25°36	22°25	11°12	19°11	18°12	29°13	28°55	17°R36	16°12	23° 1	n.a.	T 9
F 10	18 55 5	12°33'03	0♑11	29° 1	26°42	23° 3	11° 6	19° 8	18°10	29°14	28°54	17°35	16° 9	23° 7	n.a.	F 10
S 11	18 59 2	13°30'34	12° 2	28°38	27°48	23°41	11° 0	19° 5	18° 7	29°15	28°52	17°33	16° 6	23°14	n.a.	S 11
S 12	19 2 58	14°28'06	23°52	28°10	28°53	24°19	10°54	19° 1	18° 5	29°16	28°51	17°30	16° 2	23°21	n.a.	S 12
M13	19 6 55	15°25'39	5♒42	27°37	29°58	24°57	10°47	18°58	18° 2	29°17	28°50	17°26	15°59	23°27	n.a.	M13
T 14	19 10 51	16°23'13	17°34	26°59	1♍ 3	25°35	10°41	18°54	18° 0	29°18	28°49	17°21	15°56	23°34	n.a.	T 14
W15	19 14 48	17°20'49	29°31	26°17	2° 8	26°13	10°34	18°51	17°58	29°18	28°47	17°16	15°53	23°41	n.a.	W15
T 16	19 18 45	18°18'27	11♓36	25°32	3°13	26°52	10°27	18°47	17°55	29°19	28°46	17°11	15°50	23°47	n.a.	T 16
F 17	19 22 41	19°16'06	23°50	24°44	4°17	27°30	10°21	18°44	17°53	29°20	28°45	17° 8	15°47	23°54	n.a.	F 17
S 18	19 26 38	20°13'46	6♈18	23°53	5°21	28° 8	10°14	18°40	17°51	29°21	28°44	17° 5	15°43	24° 1	n.a.	S 18
S 19	19 30 34	21°11'29	19° 4	23° 2	6°25	28°47	10° 7	18°36	17°48	29°23	28°42	17°D 4	15°40	24° 7	n.a.	S 19
M20	19 34 31	22° 9'13	2♉10	22°11	7°29	29°25	10° 0	18°32	17°46	29°24	28°41	17° 5	15°37	24°14	n.a.	M20
T 21	19 38 27	23° 6'59	15°40	21°20	8°33	0♍ 4	9°52	18°28	17°43	29°25	28°40	17° 6	15°34	24°21	n.a.	T 21
W22	19 42 24	24° 4'47	29°36	20°32	9°36	0°43	9°45	18°24	17°41	29°26	28°38	17° 7	15°31	24°27	n.a.	W22
T 23	19 46 20	25° 2'37	13♊58	19°46	10°39	1°21	9°38	18°20	17°39	29°27	28°37	17°R 8	15°27	24°34	n.a.	T 23
F 24	19 50 17	26° 0'29	28°43	19° 4	11°42	2° 0	9°30	18°16	17°36	29°28	28°36	17° 8	15°24	24°41	n.a.	F 24
S 25	19 54 14	26°58'22	13♋47	18°27	12°45	2°39	9°23	18°12	17°34	29°30	28°34	17° 5	15°21	24°47	n.a.	S 25
S 26	19 58 10	27°56'17	29° 1	17°56	13°47	3°18	9°15	18° 8	17°32	29°31	28°33	17° 1	15°18	24°54	n.a.	S 26
M27	20 2 7	28°54'14	14♌15	17°31	14°49	3°57	9° 7	18° 4	17°29	29°32	28°32	16°56	15°15	25° 1	n.a.	M27
T 28	20 6 3	29°52'12	29°19	17°13	15°51	4°36	9° 0	18° 0	17°27	29°33	28°31	16°49	15°12	25° 7	n.a.	T 28
W29	20 10 0	0♌50'12	14♍ 3	17° 2	16°52	5°15	8°52	17°55	17°25	29°35	28°29	16°43	15° 8	25°14	n.a.	W29
T 30	20 13 56	1°48'13	28°21	16°D59	17°54	5°54	8°44	17°51	17°22	29°36	28°28	16°38	15° 5	25°21	n.a.	T 30
F 31	20 17 53	2♌46'15	12♎11	17♋ 5	18♍54	6♍33	8♒36	17♒47	17♑20	29♍37	28♑27	16♐34	15♐ 2	25♑27	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	23n39	5n 0	5s 9	18n30	2s14	17n 9	1n12	16n48	1n 3	18s37	1s14	16s51	1s49	22s59	0s34	2n 4	1n53	31s15	10s56	23s 7	23s 2	18s55			n.a.
T 2	23 38	0s29	5 16	18 13	2 27	16 45	1 9	16 36	1 2	18 38	1 15	16 52	1 49	23 0	0 34	2 4	1 53	31 16	10 57	23 7	23 2	18 54			n.a.
F 3	23 35	5 47	5 5	17 56	2 40	16 21	1 6	16 23	1 2	18 40	1 15	16 53	1 49	23 0	0 34	2 4	1 53	31 16	10 57	23 7	23 2	18 52			n.a.
S 4	23 32	10 41	4 38	17 41	2 53	15 56	1 2	16 11	1 1	18 41	1 15	16 54	1 49	23 0	0 34	2 3	1 53	31 17	10 57	23 7	23 1	18 50			n.a.
S 5	23 29	14 57	3 57	17 27	3 6	15 32	0 59	15 58	1 0	18 43	1 15	16 55	1 50	23 1	0 34	2 3	1 53	31 17	10 57	23 7	23 1	18 48			n.a.
M 6	23 26	18 27	3 5	17 14	3 18	15 6	0 55	15 46	1 0	18 45	1 16	16 56	1 50	23 1	0 34	2 3	1 53	31 18	10 57	23 8	23 1	18 46			n.a.
T 7	23 22	21 3	2 6	17 2	3 30	14 41	0 51	15 33	0 59	18 47	1 16	16 57	1 50	23 1	0 34	2 2	1 53	31 18	10 57	23 8	23 0	18 45			n.a.
W 8	23 17	22 37	1 2	16 52	3 42	14 15	0 48	15 20	0 59	18 49	1 16	16 58	1 50	23 2	0 34	2 2	1 53	31 18	10 57	23 8	23 0	18 43			n.a.
T 9	23 12	23 8	0n 4	16 44	3 52	13 49	0 44	15 7	0 58	18 50	1 17	16 59	1 50	23 2	0 34	2 2	1 52	31 19	10 58	23 8	23 0	18 41			n.a.
F 10	23 7	22 34	1 9	16 38	4 3	13 23	0 40	14 54	0 57	18 52	1 17	17 1	1 51	23 2	0 34	2 1	1 52	31 19	10 58	23 8	22 59	18 39			n.a.
S 11	23 1	21 0	2 10	16 34	4 12	12 56	0 36	14 40	0 57	18 54	1 17	17 2	1 51	23 3	0 34	2 1	1 52	31 20	10 58	23 8	22 59	18 37			n.a.
S 12	22 55	18 32	3 6	16 31	4 20	12 29	0 31	14 27	0 56	18 56	1 17	17 3	1 51	23 3	0 34	2 1	1 52	31 20	10 58	23 7	22 59	18 36			n.a.
M13	22 49	15 17	3 54	16 31	4 27	12 2	0 27	14 13	0 55	18 58	1 17	17 4	1 51	23 3	0 34	2 0	1 52	31 20	10 58	23 7	22 58	18 34			n.a.
T 14	22 42	11 26	4 32	16 33	4 33	11 35	0 23	14 0	0 55	19 0	1 18	17 6	1 51	23 4	0 34	2 0	1 52	31 21	10 58	23 6	22 58	18 32			n.a.
W15	22 35	7 8	4 58	16 37	4 37	11 7	0 18	13 46	0 54	19 2	1 18	17 7	1 52	23 4	0 34	1 59	1 52	31 21	10 58	23 6	22 58	18 30			n.a.
T 16	22 27	2 31	5 11	16 42	4 39	10 39	0 14	13 32	0 54	19 4	1 18	17 8	1 52	23 4	0 34	1 59	1 52	31 22	10 58	23 6	22 57	18 28			n.a.
F 17	22 19	2n16	5 10	16 50	4 40	10 11	0 9	13 19	0 53	19 6	1 18	17 9	1 52	23 5	0 34	1 58	1 52	31 22	10 59	23 5	22 57	18 27			n.a.
S 18	22 10	7 2	4 55	17 0	4 39	9 43	0 4	13 5	0 52	19 9	1 19	17 11	1 52	23 5	0 34	1 58	1 52	31 22	10 59	23 5	22 57	18 25			n.a.
S 19	22 2	11 38	4 25	17 11	4 36	9 15	0s 1	12 50	0 52	19 11	1 19	17 12	1 52	23 5	0 34	1 58	1 52	31 23	10 59	23 5	22 56	18 23			n.a.
M20	21 52	15 49	3 41	17 24	4 31	8 46	0 6	12 36	0 51	19 13	1 19	17 14	1 52	23 6	0 34	1 57	1 52	31 23	10 59	23 5	22 56	18 21			n.a.
T 21	21 43	19 19	2 43	17 39	4 25	8 18	0 11	12 22	0 50	19 15	1 19	17 15	1 53	23 6	0 34	1 57	1 52	31 23	10 59	23 5	22 55	18 19			n.a.
W22	21 33	21 50	1 34	17 55	4 16	7 49	0 16	12 7	0 50	19 17	1 19	17 16	1 53	23 6	0 34	1 56	1 52	31 24	10 59	23 5	22 55	18 17			n.a.
T 23	21 22	23 2	0 17	18 11	4 6	7 20	0 21	11 53	0 49	19 19	1 20	17 18	1 53	23 6	0 34	1 55	1 52	31 24	10 59	23 5	22 55	18 15			n.a.
F 24	21 11	22 40	1s 3	18 29	3 54	6 51	0 27	11 38	0 49	19 22	1 20	17 19	1 53	23 7	0 34	1 55	1 52	31 25	10 59	23 5	22 54	18 14			n.a.
S 25	21 0	20 41	2 20	18 47	3 41	6 22	0 32	11 24	0 48	19 24	1 20	17 21	1 53	23 7	0 34	1 54	1 52	31 25	10 59	23 5	22 54	18 12			n.a.
S 26	20 49	17 12	3 28	19 6	3 26	5 52	0 37	11 9	0 47	19 26	1 20	17 22	1 53	23 7	0 34	1 54	1 52	31 25	10 59	23 5	22 54	18 10			n.a.
M27	20 37	12 35	4 21	19 24	3 11	5 23	0 43	10 54	0 47	19 28	1 20	17 23	1 54	23 8	0 34	1 53	1 51	31 26	10 59	23 4	22 53	18 8			n.a.
T 28	20 25	7 14	4 55	19 43	2 54	4 54	0 49	10 39	0 46	19 30	1 20	17 25	1 54	23 8	0 34	1 53	1 51	31 26	10 59	23 3	22 53	18 6			n.a.
W29	20 12	1 36	5 9	20 1	2 37	4 24	0 55	10 24	0 45	19 33	1 21	17 26	1 54	23 8	0 34	1 52	1 51	31 26	10 59	23 3	22 53	18 4			n.a.
T 30	19 59	3s58	5 3	20 19	2 20	3 55	1 0	10 9	0 45	19 35	1 21	17 28	1 54	23 9	0 34	1 52	1 51	31 27	10 59	23 2	22 52	18 2			n.a.
F 31	19n46	9s 8	4s39	20n36	2s 2	3n25	1s 6	9n54	0n44	19s37	1s21	17s29	1s54	23s 9	0s34	1n51	1n51	31s27	10s59	23s 2	22s52	18s 1			n.a.

Julian Day Number = 1653667.5, Delta T = 03h29m36s
Ecliptic obliquity = 23°43'01, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'45, Lahiri = - 6°30'45 Julian Calendar 1 July 186 BCE == Greg. Calendar 28 June 186 BCE

The year -185 astronomical counting style corresponds to year 186 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 186 BCE
geocentric

AUGUST 186 BCE (-185) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 21 49	3♌44'19	25♎33	17♋19	19♍55	7♍12	8°R28	17°R42	17°R18	29♍39	28°R25	16°R32	14♐59	25♑34	n.a.	S 1
S 2	20 25 46	4°42'25	8♏28	17°41	20°55	7°52	8♒20	17♒38	17♑15	29°40	28♑24	16°D32	14°56	25°41	n.a.	S 2
M 3	20 29 43	5°40'32	21° 1	18°11	21°55	8°31	8°13	17°33	17°13	29°42	28°23	16♐33	14°53	25°47	n.a.	M 3
T 4	20 33 39	6°38'41	3♐17	18°50	22°55	9°11	8° 5	17°29	17°11	29°43	28°21	16°34	14°49	25°54	n.a.	T 4
W 5	20 37 36	7°36'51	15°20	19°36	23°54	9°50	7°57	17°24	17° 9	29°45	28°20	16°R35	14°46	26° 1	n.a.	W 5
T 6	20 41 32	8°35'03	27°14	20°30	24°53	10°30	7°49	17°20	17° 7	29°46	28°19	16°34	14°43	26° 7	n.a.	T 6
F 7	20 45 29	9°33'16	9♑ 4	21°32	25°51	11° 9	7°41	17°15	17° 4	29°48	28°18	16°31	14°40	26°14	n.a.	F 7
S 8	20 49 25	10°31'32	20°53	22°40	26°49	11°49	7°33	17°11	17° 2	29°50	28°16	16°26	14°37	26°21	n.a.	S 8
S 9	20 53 22	11°29'49	2♒43	23°54	27°47	12°29	7°25	17° 6	17° 0	29°51	28°15	16°19	14°33	26°28	n.a.	S 9
M10	20 57 18	12°28'08	14°37	25°15	28°44	13° 8	7°17	17° 1	16°58	29°53	28°14	16°10	14°30	26°34	n.a.	M10
T 11	21 1 15	13°26'29	26°35	26°41	29°41	13°48	7° 9	16°57	16°56	29°54	28°13	15°59	14°27	26°41	n.a.	T 11
W12	21 5 12	14°24'52	8♓41	28°11	0♎37	14°28	7° 1	16°52	16°54	29°56	28°11	15°48	14°24	26°48	n.a.	W12
T 13	21 9 8	15°23'16	20°53	29°46	1°33	15° 8	6°54	16°48	16°52	29°58	28°10	15°38	14°21	26°54	n.a.	T 13
F 14	21 13 5	16°21'43	3♈16	1♌25	2°28	15°48	6°46	16°43	16°50	29°59	28° 9	15°29	14°18	27° 1	n.a.	F 14
S 15	21 17 1	17°20'13	15°49	3° 6	3°23	16°28	6°38	16°38	16°48	0♎ 1	28° 8	15°22	14°14	27° 8	n.a.	S 15
S 16	21 20 58	18°18'44	28°37	4°51	4°17	17° 8	6°31	16°34	16°46	0° 3	28° 6	15°18	14°11	27°14	n.a.	S 16
M17	21 24 54	19°17'18	11♉41	6°37	5°10	17°48	6°23	16°29	16°44	0° 5	28° 5	15°16	14° 8	27°21	n.a.	M17
T 18	21 28 51	20°15'54	25° 4	8°26	6° 4	18°29	6°16	16°24	16°42	0° 7	28° 4	15°D16	14° 5	27°28	n.a.	T 18
W19	21 32 47	21°14'33	8♊49	10°15	6°56	19° 9	6° 8	16°20	16°40	0° 8	28° 3	15°R16	14° 2	27°34	n.a.	W19
T 20	21 36 44	22°13'14	22°57	12° 6	7°48	19°49	6° 1	16°15	16°39	0°10	28° 2	15°16	13°59	27°41	n.a.	T 20
F 21	21 40 40	23°11'57	7♋29	13°57	8°39	20°30	5°53	16°11	16°37	0°12	28° 0	15°15	13°55	27°48	n.a.	F 21
S 22	21 44 37	24°10'42	22°19	15°48	9°30	21°10	5°46	16° 6	16°35	0°14	27°59	15°10	13°52	27°54	n.a.	S 22
S 23	21 48 34	25° 9'30	7♌24	17°40	10°20	21°51	5°39	16° 1	16°33	0°16	27°58	15° 4	13°49	28° 1	n.a.	S 23
M24	21 52 30	26° 8'20	22°32	19°32	11° 9	22°32	5°32	15°57	16°32	0°18	27°57	14°54	13°46	28° 8	n.a.	M24
T 25	21 56 27	27° 7'12	7♍36	21°23	11°58	23°12	5°25	15°52	16°30	0°20	27°56	14°44	13°43	28°14	n.a.	T 25
W26	22 0 23	28° 6'06	22°23	23°14	12°45	23°53	5°19	15°48	16°28	0°22	27°55	14°33	13°39	28°21	n.a.	W26
T 27	22 4 20	29° 5'02	6♎48	25° 5	13°32	24°34	5°12	15°44	16°27	0°24	27°54	14°23	13°36	28°28	n.a.	T 27
F 28	22 8 16	0♍ 4'00	20°44	26°55	14°18	25°15	5° 5	15°39	16°25	0°26	27°53	14°16	13°33	28°35	n.a.	F 28
S 29	22 12 13	1° 3'00	4♏11	28°44	15° 4	25°56	4°59	15°35	16°24	0°28	27°52	14°11	13°30	28°41	n.a.	S 29
S 30	22 16 9	2° 2'01	17° 9	0♍33	15°48	26°37	4°53	15°30	16°22	0°30	27°51	14° 8	13°27	28°48	n.a.	S 30
M31	22 20 6	3♍ 1'05	29♏44	2♍20	16♎31	27♍18	4♒47	15♒26	16♑21	0♎32	27♑50	14°D 8	13♐24	28♑55	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	19n32	13s43	4s 1	20n52	1s44	2n56	1s12	9n38	0n44	19s39	1s21	17s31	1s54	23s 9	0s34	1n50	1n51	31s27	11s 0	23s 2	22s52	17s59		n.a.	S 1
S 2	19 19	17 30	3 11	21 7	1 26	2 26	1 18	9 23	0 43	19 42	1 21	17 32	1 54	23 10	0 34	1 50	1 51	31 28	11 0	23 2	22 51	17 57		n.a.	S 2
M 3	19 4	20 22	2 14	21 20	1 9	1 57	1 25	9 7	0 42	19 44	1 21	17 34	1 54	23 10	0 34	1 49	1 51	31 28	11 0	23 2	22 51	17 55		n.a.	M 3
T 4	18 50	22 13	1 11	21 32	0 52	1 27	1 31	8 52	0 42	19 46	1 21	17 35	1 55	23 10	0 34	1 48	1 51	31 28	11 0	23 2	22 51	17 53		n.a.	T 4
W 5	18 35	23 1	0 7	21 41	0 35	0 58	1 37	8 36	0 41	19 48	1 21	17 37	1 55	23 10	0 34	1 48	1 51	31 28	11 0	23 2	22 50	17 51		n.a.	W 5
T 6	18 20	22 44	0n57	21 49	0 19	0 29	1 43	8 21	0 40	19 50	1 22	17 38	1 55	23 11	0 34	1 47	1 51	31 29	11 0	23 2	22 50	17 49		n.a.	T 6
F 7	18 4	21 26	1 58	21 55	0 4	0s 1	1 50	8 5	0 40	19 53	1 22	17 40	1 55	23 11	0 34	1 46	1 51	31 29	11 0	23 2	22 49	17 47		n.a.	F 7
S 8	17 48	19 13	2 53	21 58	0n11	0 30	1 56	7 49	0 39	19 55	1 22	17 41	1 55	23 11	0 34	1 46	1 51	31 29	11 0	23 1	22 49	17 46		n.a.	S 8
S 9	17 32	16 11	3 41	21 58	0 24	0 59	2 3	7 33	0 39	19 57	1 22	17 43	1 55	23 11	0 34	1 45	1 51	31 30	11 0	23 0	22 49	17 44		n.a.	S 9
M10	17 16	12 30	4 20	21 56	0 37	1 28	2 9	7 17	0 38	19 59	1 22	17 44	1 55	23 12	0 34	1 44	1 51	31 30	11 0	22 59	22 48	17 42		n.a.	M10
T 11	16 59	8 18	4 47	21 51	0 48	1 57	2 16	7 1	0 37	20 1	1 22	17 46	1 55	23 12	0 34	1 44	1 51	31 30	11 0	22 58	22 48	17 40		n.a.	T 11
W12	16 42	3 45	5 2	21 43	0 59	2 26	2 23	6 45	0 37	20 3	1 22	17 47	1 55	23 12	0 34	1 43	1 51	31 30	10 59	22 57	22 48	17 38		n.a.	W12
T 13	16 25	0n59	5 3	21 33	1 8	2 54	2 30	6 29	0 36	20 5	1 22	17 49	1 55	23 12	0 34	1 42	1 51	31 31	10 59	22 56	22 47	17 36		n.a.	T 13
F 14	16 7	5 44	4 50	21 19	1 17	3 23	2 37	6 12	0 35	20 7	1 22	17 50	1 56	23 13	0 34	1 42	1 51	31 31	10 59	22 55	22 47	17 34		n.a.	F 14
S 15	15 49	10 20	4 23	21 3	1 24	3 51	2 43	5 56	0 35	20 9	1 22	17 52	1 56	23 13	0 34	1 41	1 51	31 31	10 59	22 54	22 46	17 32		n.a.	S 15
S 16	15 31	14 33	3 42	20 44	1 30	4 19	2 50	5 40	0 34	20 11	1 22	17 53	1 56	23 13	0 34	1 40	1 51	31 31	10 59	22 54	22 46	17 30		n.a.	S 16
M17	15 13	18 11	2 49	20 23	1 36	4 47	2 57	5 23	0 34	20 13	1 22	17 55	1 56	23 13	0 34	1 39	1 51	31 31	10 59	22 54	22 46	17 28		n.a.	M17
T 18	14 54	20 58	1 46	19 59	1 40	5 15	3 4	5 7	0 33	20 15	1 22	17 56	1 56	23 14	0 34	1 39	1 51	31 32	10 59	22 54	22 45	17 26		n.a.	T 18
W19	14 35	22 36	0 34	19 33	1 44	5 42	3 11	4 50	0 32	20 17	1 22	17 58	1 56	23 14	0 34	1 38	1 51	31 32	10 59	22 54	22 45	17 24		n.a.	W19
T 20	14 16	22 51	0s41	19 4	1 47	6 10	3 18	4 34	0 32	20 19	1 22	17 59	1 56	23 14	0 34	1 37	1 50	31 32	10 59	22 54	22 45	17 23		n.a.	T 20
F 21	13 57	21 35	1 55	18 34	1 49	6 37	3 26	4 17	0 31	20 21	1 22	18 1	1 56	23 14	0 34	1 36	1 50	31 32	10 59	22 53	22 44	17 21		n.a.	F 21
S 22	13 37	18 50	3 3	18 2	1 50	7 3	3 33	4 0	0 30	20 23	1 22	18 2	1 56	23 15	0 34	1 35	1 50	31 32	10 59	22 53	22 44	17 19		n.a.	S 22
S 23	13 17	14 46	4 0	17 28	1 50	7 30	3 40	3 43	0 30	20 24	1 22	18 4	1 56	23 15	0 34	1 35	1 50	31 33	10 59	22 52	22 43	17 17		n.a.	S 23
M24	12 57	9 45	4 39	16 52	1 50	7 56	3 47	3 27	0 29	20 26	1 22	18 5	1 56	23 15	0 34	1 34	1 50	31 33	10 59	22 51	22 43	17 15		n.a.	M24
T 25	12 37	4 11	5 0	16 15	1 49	8 22	3 54	3 10	0 28	20 28	1 22	18 6	1 56	23 15	0 34	1 33	1 50	31 33	10 59	22 50	22 43	17 13		n.a.	T 25
W26	12 16	1s31	4 59	15 37	1 48	8 48	4 1	2 53	0 28	20 29	1 22	18 8	1 56	23 15	0 34	1 32	1 50	31 33	10 59	22 49	22 42	17 11		n.a.	W26
T 27	11 56	7 0	4 39	14 58	1 46	9 13	4 9	2 36	0 27	20 31	1 22	18 9	1 56	23 15	0 34	1 31	1 50	31 33	10 59	22 48	22 42	17 9		n.a.	T 27
F 28	11 35	11 56	4 3	14 18	1 43	9 38	4 16	2 19	0 26	20 33	1 22	18 10	1 56	23 16	0 34	1 31	1 50	31 33	10 58	22 47	22 41	17 7		n.a.	F 28
S 29	11 14	16 7	3 15	13 37	1 40	10 2	4 23	2 2	0 26	20 34	1 22	18 12	1 56	23 16	0 34	1 30	1 50	31 33	10 58	22 46	22 41	17 5		n.a.	S 29
S 30	10 52	19 21	2 18	12 55	1 37	10 26	4 30	1 45	0 25	20 36	1 22	18 13	1 56	23 16	0 34	1 29	1 50	31 34	10 58	22 46	22 41	17 3		n.a.	S 30
M31	10n31	21s33	1s16	12n12	1n33	10s50	4s37	1n28	0n25	20s37	1s22	18s14	1s56	23s16	0s34	1n28	1n50	31s34	10s58	22s46	22s40	17s 1		n.a.	M31

Julian Day Number = 1653698.5, Delta T = 03h29m35s
Ecliptic obliquity = 23°43'01, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'41, Lahiri = - 6°30'41 Julian Calendar 1 Aug. 186 BCE == Greg. Calendar 29 July 186 BCE

The year -185 astronomical counting style corresponds to year 186 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 186 BCE
geocentric

SEPTEMBER 186 BCE (-185) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 24 3	4♍ 0'10	11♐59	4♍ 7	17♎14	27♍59	4°R41	15°R22	16°R20	0♎34	27°R49	14°R 8	13♐20	29♑ 1	n.a.	T 1
W 2	22 27 59	4°59'17	24° 1	5°53	17°55	28°40	4♒35	15♒18	16♑18	0°36	27♑48	14♐ 7	13°17	29° 8	n.a.	W 2
T 3	22 31 56	5°58'27	5♑53	7°39	18°35	29°21	4°29	15°13	16°17	0°38	27°47	14° 6	13°14	29°15	n.a.	T 3
F 4	22 35 52	6°57'38	17°42	9°23	19°15	0♎ 2	4°24	15° 9	16°16	0°40	27°46	14° 2	13°11	29°21	n.a.	F 4
S 5	22 39 49	7°56'51	29°31	11° 7	19°53	0°44	4°18	15° 5	16°14	0°42	27°45	13°55	13° 8	29°28	n.a.	S 5
S 6	22 43 45	8°56'06	11♒24	12°50	20°30	1°25	4°13	15° 1	16°13	0°44	27°44	13°45	13° 5	29°35	n.a.	S 6
M 7	22 47 42	9°55'23	23°24	14°32	21° 5	2° 7	4° 8	14°57	16°12	0°46	27°43	13°33	13° 1	29°41	n.a.	M 7
T 8	22 51 38	10°54'42	5♓32	16°13	21°39	2°48	4° 3	14°53	16°11	0°49	27°42	13°20	12°58	29°48	n.a.	T 8
W 9	22 55 35	11°54'03	17°49	17°54	22°12	3°30	3°58	14°49	16°10	0°51	27°41	13° 5	12°55	29°55	n.a.	W 9
T 10	22 59 31	12°53'26	0♈16	19°33	22°44	4°11	3°54	14°45	16° 9	0°53	27°40	12°52	12°52	0♒ 1	n.a.	T 10
F 11	23 3 28	13°52'51	12°53	21°12	23°14	4°53	3°49	14°42	16° 8	0°55	27°39	12°40	12°49	0° 8	n.a.	F 11
S 12	23 7 25	14°52'19	25°41	22°50	23°42	5°35	3°45	14°38	16° 7	0°57	27°39	12°31	12°45	0°15	n.a.	S 12
S 13	23 11 21	15°51'49	8♉39	24°28	24° 9	6°17	3°41	14°34	16° 6	0°59	27°38	12°25	12°42	0°21	n.a.	S 13
M14	23 15 18	16°51'22	21°50	26° 4	24°35	6°59	3°37	14°31	16° 6	1° 2	27°37	12°22	12°39	0°28	n.a.	M14
T 15	23 19 14	17°50'57	5♊16	27°40	24°58	7°40	3°34	14°27	16° 5	1° 4	27°36	12°21	12°36	0°35	n.a.	T 15
W16	23 23 11	18°50'34	18°56	29°16	25°20	8°22	3°30	14°24	16° 4	1° 6	27°36	12°21	12°33	0°42	n.a.	W16
T 17	23 27 7	19°50'14	2♋54	0♎50	25°40	9° 5	3°27	14°21	16° 3	1° 8	27°35	12°21	12°30	0°48	n.a.	T 17
F 18	23 31 4	20°49'56	17° 9	2°25	25°59	9°47	3°24	14°17	16° 3	1°10	27°34	12°19	12°26	0°55	n.a.	F 18
S 19	23 35 0	21°49'41	1♌39	3°58	26°15	10°29	3°21	14°14	16° 2	1°13	27°33	12°14	12°23	1° 2	n.a.	S 19
S 20	23 38 57	22°49'27	16°22	5°31	26°29	11°11	3°18	14°11	16° 2	1°15	27°33	12° 7	12°20	1° 8	n.a.	S 20
M21	23 42 54	23°49'17	1♍10	7° 3	26°41	11°53	3°16	14° 8	16° 1	1°17	27°32	11°57	12°17	1°15	n.a.	M21
T 22	23 46 50	24°49'08	15°57	8°35	26°52	12°36	3°13	14° 5	16° 1	1°19	27°32	11°46	12°14	1°22	n.a.	T 22
W23	23 50 47	25°49'01	0♎32	10° 5	27° 0	13°18	3°11	14° 2	16° 1	1°21	27°31	11°34	12°10	1°28	n.a.	W23
T 24	23 54 43	26°48'56	14°50	11°36	27° 5	14° 1	3° 9	13°59	16° 0	1°24	27°30	11°24	12° 7	1°35	n.a.	T 24
F 25	23 58 40	27°48'54	28°44	13° 6	27° 9	14°43	3° 7	13°57	16° 0	1°26	27°30	11°15	12° 4	1°42	n.a.	F 25
S 26	0 2 36	28°48'53	12♏11	14°35	27°R10	15°26	3° 6	13°54	16° 0	1°28	27°29	11° 9	12° 1	1°48	n.a.	S 26
S 27	0 6 33	29°48'54	25°12	16° 3	27° 9	16° 8	3° 5	13°52	16° 0	1°30	27°29	11° 6	11°58	1°55	n.a.	S 27
M28	0 10 29	0♎48'57	7♐50	17°31	27° 5	16°51	3° 3	13°49	15°59	1°33	27°29	11°D 5	11°55	2° 2	n.a.	M28
T 29	0 14 26	1°49'01	20° 8	18°59	26°59	17°34	3° 3	13°47	15°59	1°35	27°28	11° 5	11°51	2° 9	n.a.	T 29
W30	0 18 22	2♎49'08	2♑11	20♎26	26♎51	18♎17	3♒ 2	13♒45	15°D59	1♎37	27♑28	11°R 5	11♐48	2♒15	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	10n 9	22s41	0s11	11n29	1n29	11s13	4s45	1n11	0n24	20s39	1s22	18s16	1s56	23s16	0s34	1n27	1n50	31s34	10s58	22s46	22s40	16s59		n.a.
W 2	9 47	22 43	0n52	10 46	1 24	11 35	4 52	0 54	0 23	20 40	1 22	18 17	1 56	23 16	0 34	1 26	1 50	31 34	10 58	22 46	22 39	16 57		n.a.
T 3	9 26	21 43	1 53	10 2	1 20	11 58	4 59	0 36	0 23	20 41	1 22	18 18	1 56	23 17	0 34	1 26	1 50	31 34	10 58	22 45	22 39	16 55		n.a.
F 4	9 3	19 46	2 48	9 17	1 15	12 19	5 6	0 19	0 22	20 42	1 22	18 19	1 56	23 17	0 34	1 25	1 50	31 34	10 58	22 45	22 39	16 53		n.a.
S 5	8 41	16 59	3 35	8 33	1 9	12 41	5 13	0 2	0 21	20 44	1 22	18 21	1 56	23 17	0 34	1 24	1 50	31 34	10 57	22 44	22 38	16 51		n.a.
S 6	8 19	13 29	4 14	7 48	1 4	13 1	5 20	0s15	0 21	20 45	1 22	18 22	1 56	23 17	0 34	1 23	1 50	31 34	10 57	22 43	22 38	16 49		n.a.
M 7	7 56	9 27	4 42	7 3	0 58	13 21	5 27	0 33	0 20	20 46	1 22	18 23	1 56	23 17	0 34	1 22	1 50	31 34	10 57	22 41	22 37	16 47		n.a.
T 8	7 34	5 0	4 57	6 18	0 52	13 41	5 34	0 50	0 19	20 47	1 22	18 24	1 56	23 17	0 34	1 21	1 50	31 34	10 57	22 40	22 37	16 45		n.a.
W 9	7 11	0 18	4 59	5 33	0 46	13 59	5 40	1 7	0 19	20 48	1 21	18 25	1 56	23 17	0 34	1 20	1 50	31 34	10 57	22 38	22 37	16 43		n.a.
T 10	6 48	4n28	4 46	4 47	0 40	14 17	5 47	1 24	0 18	20 49	1 21	18 26	1 56	23 17	0 34	1 19	1 50	31 34	10 57	22 36	22 36	16 41		n.a.
F 11	6 25	9 7	4 20	4 2	0 33	14 35	5 53	1 42	0 17	20 50	1 21	18 28	1 56	23 18	0 34	1 19	1 50	31 34	10 57	22 35	22 36	16 39		n.a.
S 12	6 2	13 26	3 40	3 17	0 27	14 52	6 0	1 59	0 17	20 51	1 21	18 29	1 56	23 18	0 34	1 18	1 50	31 34	10 56	22 34	22 35	16 37		n.a.
S 13	5 38	17 12	2 48	2 32	0 20	15 8	6 6	2 16	0 16	20 52	1 21	18 30	1 56	23 18	0 34	1 17	1 50	31 34	10 56	22 33	22 35	16 35		n.a.
M14	5 15	20 9	1 46	1 47	0 14	15 23	6 12	2 34	0 16	20 53	1 21	18 31	1 56	23 18	0 34	1 16	1 50	31 34	10 56	22 32	22 35	16 33		n.a.
T 15	4 51	22 2	0 37	1 3	0 7	15 37	6 18	2 51	0 15	20 53	1 21	18 32	1 56	23 18	0 34	1 15	1 50	31 34	10 56	22 32	22 34	16 31		n.a.
W16	4 28	22 40	0s35	0 18	0 0	15 51	6 24	3 8	0 14	20 54	1 21	18 33	1 56	23 18	0 34	1 14	1 50	31 34	10 56	22 32	22 34	16 29		n.a.
T 17	4 4	21 55	1 46	0s26	0s 7	16 3	6 29	3 26	0 14	20 55	1 21	18 34	1 56	23 18	0 34	1 13	1 50	31 34	10 56	22 32	22 33	16 27		n.a.
F 18	3 40	19 45	2 53	1 10	0 13	16 15	6 34	3 43	0 13	20 55	1 20	18 34	1 56	23 18	0 34	1 12	1 50	31 34	10 55	22 32	22 33	16 25		n.a.
S 19	3 17	16 18	3 49	1 54	0 20	16 26	6 39	4 0	0 12	20 56	1 20	18 35	1 56	23 18	0 34	1 11	1 50	31 34	10 55	22 31	22 33	16 23		n.a.
S 20	2 53	11 48	4 31	2 38	0 27	16 35	6 44	4 18	0 12	20 57	1 20	18 36	1 55	23 18	0 34	1 11	1 50	31 34	10 55	22 30	22 32	16 21		n.a.
M21	2 29	6 35	4 56	3 21	0 34	16 44	6 49	4 35	0 11	20 57	1 20	18 37	1 55	23 18	0 34	1 10	1 50	31 34	10 55	22 29	22 32	16 19		n.a.
T 22	2 5	1 0	5 0	4 4	0 41	16 52	6 53	4 52	0 10	20 57	1 20	18 38	1 55	23 18	0 34	1 9	1 50	31 34	10 55	22 28	22 31	16 17		n.a.
W23	1 41	4s34	4 45	4 46	0 48	16 58	6 57	5 10	0 10	20 58	1 20	18 39	1 55	23 18	0 34	1 8	1 50	31 34	10 55	22 26	22 31	16 15		n.a.
T 24	1 17	9 46	4 12	5 28	0 54	17 4	7 0	5 27	0 9	20 58	1 20	18 39	1 55	23 18	0 34	1 7	1 50	31 34	10 54	22 24	22 30	16 13		n.a.
F 25	0 53	14 19	3 25	6 10	1 1	17 8	7 3	5 44	0 8	20 58	1 19	18 40	1 55	23 18	0 34	1 6	1 50	31 34	10 54	22 23	22 30	16 11		n.a.
S 26	0 29	18 0	2 27	6 51	1 8	17 10	7 6	6 1	0 8	20 59	1 19	18 41	1 55	23 18	0 34	1 5	1 50	31 34	10 54	22 22	22 30	16 9		n.a.
S 27	0 4	20 38	1 23	7 32	1 14	17 12	7 8	6 19	0 7	20 59	1 19	18 41	1 55	23 18	0 34	1 4	1 50	31 34	10 54	22 22	22 29	16 7		n.a.
M28	0s20	22 9	0 17	8 12	1 21	17 12	7 9	6 36	0 6	20 59	1 19	18 42	1 55	23 18	0 34	1 3	1 50	31 34	10 54	22 22	22 29	16 5		n.a.
T 29	0 44	22 33	0n48	8 51	1 27	17 11	7 10	6 53	0 6	20 59	1 19	18 43	1 55	23 18	0 34	1 2	1 50	31 34	10 53	22 22	22 28	16 3		n.a.
W30	1s 8	21s52	1n50	9s30	1s33	17s 8	7s11	7s10	0n 5	20s59	1s19	18s43	1s55	23s18	0s34	1n 2	1n50	31s34	10s53	22s22	22s28	16s 1		n.a.

Julian Day Number = 1653729.5, Delta T = 03h29m34s
Ecliptic obliquity = 23°43'01, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'37, Lahiri = - 6°30'36 Julian Calendar 1 Sept. 186 BCE == Greg. Calendar 29 Aug. 186 BCE

The year -185 astronomical counting style corresponds to year 186 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 186 BCE
geocentric

OCTOBER 186 BCE (-185) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 22 19	3♎49'15	14♑ 4	21♎52	26°R40	19♎ 0	3°R 1	13°R43	15♑59	1♎39	27°R27	11°R 5	11♐45	2♒22	n.a.	T 1
F 2	0 26 16	4°49'25	25°54	23°17	26♎26	19°43	3♒ 1	13♒41	16° 0	1°42	27♑27	11♐ 2	11°42	2°29	n.a.	F 2
S 3	0 30 12	5°49'36	7♒45	24°41	26°11	20°26	3°D 1	13°39	16° 0	1°44	27°27	10°58	11°39	2°35	n.a.	S 3
S 4	0 34 9	6°49'49	19°41	26° 5	25°52	21° 9	3° 1	13°37	16° 0	1°46	27°26	10°50	11°36	2°42	n.a.	S 4
M 5	0 38 5	7°50'04	1♓46	27°28	25°32	21°52	3° 1	13°35	16° 0	1°48	27°26	10°41	11°32	2°49	n.a.	M 5
T 6	0 42 2	8°50'20	14° 3	28°50	25° 9	22°35	3° 2	13°33	16° 0	1°51	27°26	10°30	11°29	2°55	n.a.	T 6
W 7	0 45 58	9°50'38	26°33	0♏11	24°45	23°18	3° 3	13°32	16° 1	1°53	27°26	10°18	11°26	3° 2	n.a.	W 7
T 8	0 49 55	10°50'57	9♈17	1°32	24°18	24° 1	3° 4	13°30	16° 1	1°55	27°25	10° 7	11°23	3° 9	n.a.	T 8
F 9	0 53 51	11°51'19	22°13	2°50	23°49	24°45	3° 5	13°29	16° 2	1°57	27°25	9°57	11°20	3°15	n.a.	F 9
S 10	0 57 48	12°51'42	5♉22	4° 8	23°19	25°28	3° 6	13°28	16° 2	2° 0	27°25	9°50	11°16	3°22	n.a.	S 10
S 11	1 1 45	13°52'07	18°42	5°24	22°47	26°12	3° 8	13°27	16° 3	2° 2	27°25	9°46	11°13	3°29	n.a.	S 11
M12	1 5 41	14°52'35	2♊12	6°39	22°14	26°55	3° 9	13°26	16° 3	2° 4	27°25	9°43	11°10	3°36	n.a.	M12
T 13	1 9 38	15°53'04	15°52	7°52	21°39	27°39	3°11	13°25	16° 4	2° 6	27°25	9°D43	11° 7	3°42	n.a.	T 13
W14	1 13 34	16°53'35	29°40	9° 2	21° 4	28°22	3°13	13°24	16° 5	2° 8	27°25	9°44	11° 4	3°49	n.a.	W14
T 15	1 17 31	17°54'08	13♋38	10°11	20°28	29° 6	3°16	13°23	16° 5	2°11	27°D25	9°R45	11° 1	3°56	n.a.	T 15
F 16	1 21 27	18°54'43	27°45	11°17	19°52	29°50	3°18	13°22	16° 6	2°13	27°25	9°45	10°57	4° 2	n.a.	F 16
S 17	1 25 24	19°55'20	11♌59	12°20	19°16	0♏33	3°21	13°22	16° 7	2°15	27°25	9°43	10°54	4° 9	n.a.	S 17
S 18	1 29 20	20°55'59	26°18	13°21	18°39	1°17	3°24	13°21	16° 8	2°17	27°25	9°38	10°51	4°16	n.a.	S 18
M19	1 33 17	21°56'40	10♍40	14°17	18° 4	2° 1	3°27	13°21	16° 9	2°19	27°25	9°32	10°48	4°22	n.a.	M19
T 20	1 37 14	22°57'22	24°58	15° 9	17°28	2°45	3°30	13°21	16°10	2°21	27°25	9°25	10°45	4°29	n.a.	T 20
W21	1 41 10	23°58'06	9♎ 8	15°57	16°54	3°29	3°34	13°D21	16°11	2°23	27°25	9°17	10°41	4°36	n.a.	W21
T 22	1 45 7	24°58'51	23° 5	16°40	16°20	4°13	3°38	13°21	16°12	2°26	27°25	9° 9	10°38	4°42	n.a.	T 22
F 23	1 49 3	25°59'38	6♏44	17°16	15°48	4°57	3°42	13°21	16°13	2°28	27°25	9° 4	10°35	4°49	n.a.	F 23
S 24	1 53 0	27° 0'27	20° 2	17°47	15°17	5°42	3°46	13°21	16°14	2°30	27°26	9° 0	10°32	4°56	n.a.	S 24
S 25	1 56 56	28° 1'17	2♐59	18° 9	14°48	6°26	3°50	13°22	16°16	2°32	27°26	8°D58	10°29	5° 3	n.a.	S 25
M26	2 0 53	29° 2'08	15°35	18°24	14°21	7°10	3°54	13°22	16°17	2°34	27°26	8°58	10°26	5° 9	n.a.	M26
T 27	2 4 49	0♏ 3'00	27°54	18°R30	13°56	7°54	3°59	13°23	16°18	2°36	27°26	8°59	10°22	5°16	n.a.	T 27
W28	2 8 46	1° 3'53	9♑59	18°26	13°32	8°39	4° 4	13°23	16°20	2°38	27°27	9° 1	10°19	5°23	n.a.	W28
T 29	2 12 43	2° 4'47	21°54	18°12	13°11	9°23	4° 9	13°24	16°21	2°40	27°27	9° 2	10°16	5°29	n.a.	T 29
F 30	2 16 39	3° 5'42	3♒45	17°47	12°52	10° 8	4°14	13°25	16°23	2°42	27°27	9°R 3	10°13	5°36	n.a.	F 30
S 31	2 20 36	4♏ 6'39	15♒37	17♏11	12♎36	10♏52	4♒20	13♒26	16♑24	2♎44	27♑28	9♐ 2	10♐10	5♒43	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	1s32	20s13	2n46	10s 9	1s39	17s 4	7s11	7s27	0n 5	20s59	1s19	18s44	1s55	23s18	0s34	1n 1	1n50	31s33	10s53	22s22	22s27	15s59			n.a.
F 2	1 56	17 41	3 35	10 46	1 45	16 59	7 10	7 44	0 4	20 59	1 18	18 44	1 54	23 18	0 34	1 0	1 50	31 33	10 53	22 22	22 27	15 57			n.a.
S 3	2 20	14 27	4 15	11 23	1 51	16 51	7 9	8 1	0 3	20 59	1 18	18 45	1 54	23 18	0 34	0 59	1 50	31 33	10 52	22 21	22 27	15 55			n.a.
S 4	2 44	10 36	4 43	12 0	1 56	16 43	7 7	8 18	0 3	20 59	1 18	18 45	1 54	23 18	0 34	0 58	1 50	31 33	10 52	22 20	22 26	15 53			n.a.
M 5	3 9	6 18	5 0	12 35	2 2	16 33	7 4	8 35	0 2	20 58	1 18	18 46	1 54	23 18	0 33	0 57	1 50	31 33	10 52	22 18	22 26	15 51			n.a.
T 6	3 33	1 42	5 3	13 10	2 7	16 21	7 1	8 52	0 1	20 58	1 18	18 46	1 54	23 18	0 33	0 56	1 50	31 33	10 52	22 17	22 25	15 49			n.a.
W 7	3 57	3n 4	4 51	13 43	2 12	16 7	6 56	9 9	0 1	20 58	1 18	18 46	1 54	23 18	0 33	0 55	1 50	31 33	10 52	22 15	22 25	15 47			n.a.
T 8	4 21	7 47	4 26	14 16	2 16	15 53	6 51	9 25	0s 0	20 57	1 17	18 47	1 54	23 18	0 33	0 54	1 50	31 32	10 51	22 13	22 24	15 45			n.a.
F 9	4 44	12 14	3 46	14 48	2 21	15 36	6 45	9 42	0 1	20 57	1 17	18 47	1 54	23 18	0 33	0 54	1 50	31 32	10 51	22 12	22 24	15 43			n.a.
S 10	5 8	16 11	2 53	15 18	2 25	15 19	6 39	9 59	0 1	20 56	1 17	18 47	1 54	23 18	0 33	0 53	1 50	31 32	10 51	22 11	22 23	15 41			n.a.
S 11	5 32	19 21	1 50	15 48	2 28	15 0	6 31	10 15	0 2	20 56	1 17	18 47	1 53	23 18	0 33	0 52	1 50	31 32	10 51	22 10	22 23	15 38			n.a.
M12	5 56	21 30	0 40	16 16	2 32	14 39	6 23	10 32	0 3	20 55	1 17	18 48	1 53	23 17	0 33	0 51	1 50	31 32	10 51	22 10	22 23	15 36			n.a.
T 13	6 19	22 25	0s33	16 43	2 34	14 18	6 14	10 48	0 3	20 55	1 17	18 48	1 53	23 17	0 33	0 50	1 50	31 31	10 50	22 10	22 22	15 34			n.a.
W14	6 43	21 58	1 45	17 9	2 37	13 55	6 4	11 5	0 4	20 54	1 16	18 48	1 53	23 17	0 33	0 49	1 50	31 31	10 50	22 10	22 22	15 32			n.a.
T 15	7 6	20 9	2 52	17 33	2 39	13 32	5 54	11 21	0 5	20 53	1 16	18 48	1 53	23 17	0 33	0 48	1 50	31 31	10 50	22 10	22 21	15 30			n.a.
F 16	7 29	17 7	3 49	17 55	2 40	13 7	5 42	11 37	0 5	20 53	1 16	18 48	1 53	23 17	0 33	0 47	1 50	31 31	10 50	22 10	22 21	15 28			n.a.
S 17	7 53	13 2	4 33	18 16	2 40	12 42	5 30	11 53	0 6	20 52	1 16	18 48	1 53	23 17	0 33	0 47	1 50	31 31	10 49	22 10	22 20	15 26			n.a.
S 18	8 16	8 12	4 59	18 34	2 40	12 17	5 18	12 10	0 7	20 51	1 16	18 48	1 53	23 17	0 33	0 46	1 50	31 30	10 49	22 9	22 20	15 24			n.a.
M19	8 39	2 55	5 7	18 51	2 40	11 51	5 5	12 26	0 7	20 50	1 16	18 48	1 52	23 17	0 33	0 45	1 50	31 30	10 49	22 8	22 19	15 22			n.a.
T 20	9 2	2s30	4 56	19 5	2 38	11 24	4 51	12 41	0 8	20 49	1 15	18 48	1 52	23 16	0 33	0 44	1 50	31 30	10 49	22 7	22 19	15 20			n.a.
W21	9 24	7 45	4 27	19 17	2 36	10 58	4 37	12 57	0 8	20 48	1 15	18 48	1 52	23 16	0 33	0 43	1 50	31 30	10 48	22 6	22 19	15 18			n.a.
T 22	9 47	12 30	3 42	19 26	2 32	10 31	4 22	13 13	0 9	20 47	1 15	18 48	1 52	23 16	0 33	0 42	1 50	31 29	10 48	22 5	22 18	15 16			n.a.
F 23	10 9	16 31	2 46	19 32	2 27	10 5	4 7	13 29	0 10	20 46	1 15	18 48	1 52	23 16	0 33	0 42	1 50	31 29	10 48	22 4	22 18	15 13			n.a.
S 24	10 31	19 34	1 41	19 36	2 22	9 39	3 52	13 44	0 10	20 45	1 15	18 47	1 52	23 16	0 33	0 41	1 50	31 29	10 48	22 3	22 17	15 11			n.a.
S 25	10 54	21 32	0 32	19 35	2 15	9 13	3 37	14 0	0 11	20 43	1 15	18 47	1 52	23 16	0 33	0 40	1 50	31 28	10 48	22 3	22 17	15 9			n.a.
M26	11 15	22 20	0n36	19 31	2 6	8 49	3 21	14 15	0 12	20 42	1 14	18 47	1 52	23 15	0 33	0 39	1 50	31 28	10 47	22 3	22 16	15 7			n.a.
T 27	11 37	22 1	1 41	19 24	1 56	8 24	3 6	14 30	0 12	20 41	1 14	18 47	1 51	23 15	0 33	0 38	1 50	31 28	10 47	22 3	22 16	15 5			n.a.
W28	11 59	20 40	2 41	19 11	1 45	8 1	2 50	14 45	0 13	20 40	1 14	18 46	1 51	23 15	0 33	0 38	1 50	31 28	10 47	22 3	22 15	15 3			n.a.
T 29	12 20	18 25	3 33	18 55	1 32	7 38	2 35	15 0	0 14	20 38	1 14	18 46	1 51	23 15	0 33	0 37	1 50	31 27	10 47	22 4	22 15	15 1			n.a.
F 30	12 41	15 24	4 15	18 34	1 17	7 17	2 20	15 15	0 14	20 37	1 14	18 46	1 51	23 15	0 33	0 36	1 50	31 27	10 46	22 4	22 14	14 59			n.a.
S 31	13s 2	11s47	4n47	18s 8	1s 1	6s56	2s 4	15s30	0s15	20s35	1s14	18s45	1s51	23s14	0s33	0n35	1n51	31s27	10s46	22s 4	22s14	14s57			n.a.

Julian Day Number = 1653759.5, Delta T = 03h29m33s
Ecliptic obliquity = 23°43'01, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'33, Lahiri = - 6°30'32 Julian Calendar 1 Oct. 186 BCE == Greg. Calendar 28 Sept. 186 BCE

The year -185 astronomical counting style corresponds to year 186 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 186 BCE
geocentric

NOVEMBER 186 BCE (-185) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 24 32	5♏ 7'35	27♒34	16°R24	12°R22	11♏37	4♒25	13♒27	16♑26	2♎46	27♑28	9°R 0	10♐ 7	5♒49	n.a.	S 1
M 2	2 28 29	6° 8'33	9♓42	15♏27	12♎10	12°22	4°31	13°28	16°28	2°48	27°29	8♐56	10° 3	5°56	n.a.	M 2
T 3	2 32 25	7° 9'32	22° 3	14°20	12° 1	13° 6	4°37	13°29	16°29	2°50	27°29	8°51	10° 0	6° 3	n.a.	T 3
W 4	2 36 22	8°10'32	4♈41	13° 6	11°55	13°51	4°43	13°31	16°31	2°52	27°30	8°46	9°57	6°10	n.a.	W 4
T 5	2 40 18	9°11'32	17°37	11°47	11°50	14°36	4°49	13°32	16°33	2°54	27°30	8°40	9°54	6°16	n.a.	T 5
F 6	2 44 15	10°12'33	0♉51	10°24	11°D49	15°21	4°56	13°34	16°35	2°56	27°31	8°36	9°51	6°23	n.a.	F 6
S 7	2 48 12	11°13'36	14°22	9° 2	11°50	16° 6	5° 2	13°36	16°36	2°58	27°31	8°33	9°47	6°30	n.a.	S 7
S 8	2 52 8	12°14'39	28° 8	7°42	11°53	16°51	5° 9	13°38	16°38	2°59	27°32	8°31	9°44	6°36	n.a.	S 8
M 9	2 56 5	13°15'43	12♊ 5	6°27	11°59	17°35	5°16	13°39	16°40	3° 1	27°33	8°D30	9°41	6°43	n.a.	M 9
T 10	3 0 1	14°16'49	26°11	5°20	12° 7	18°21	5°23	13°42	16°42	3° 3	27°33	8°31	9°38	6°50	n.a.	T 10
W11	3 3 58	15°17'55	10♋22	4°22	12°17	19° 6	5°30	13°44	16°44	3° 5	27°34	8°33	9°35	6°56	n.a.	W11
T 12	3 7 54	16°19'03	24°35	3°34	12°29	19°51	5°38	13°46	16°46	3° 7	27°35	8°34	9°32	7° 3	n.a.	T 12
F 13	3 11 51	17°20'11	8♌47	2°58	12°44	20°36	5°45	13°48	16°49	3° 8	27°35	8°35	9°28	7°10	n.a.	F 13
S 14	3 15 47	18°21'21	22°57	2°33	13° 1	21°21	5°53	13°51	16°51	3°10	27°36	8°R35	9°25	7°17	n.a.	S 14
S 15	3 19 44	19°22'31	7♍ 2	2°19	13°20	22° 6	6° 1	13°53	16°53	3°12	27°37	8°35	9°22	7°23	n.a.	S 15
M16	3 23 41	20°23'42	21° 1	2°D15	13°40	22°52	6° 9	13°56	16°55	3°13	27°38	8°33	9°19	7°30	n.a.	M16
T 17	3 27 37	21°24'54	4♎52	2°21	14° 3	23°37	6°17	13°59	16°57	3°15	27°39	8°31	9°16	7°37	n.a.	T 17
W18	3 31 34	22°26'07	18°33	2°37	14°28	24°23	6°25	14° 1	17° 0	3°17	27°39	8°28	9°13	7°43	n.a.	W18
T 19	3 35 30	23°27'21	2♏ 1	3° 1	14°54	25° 8	6°34	14° 4	17° 2	3°18	27°40	8°26	9° 9	7°50	n.a.	T 19
F 20	3 39 27	24°28'35	15°16	3°32	15°22	25°54	6°42	14° 7	17° 5	3°20	27°41	8°24	9° 6	7°57	n.a.	F 20
S 21	3 43 23	25°29'50	28°15	4°10	15°52	26°39	6°51	14°11	17° 7	3°21	27°42	8°23	9° 3	8° 3	n.a.	S 21
S 22	3 47 20	26°31'06	10♐59	4°54	16°23	27°25	7° 0	14°14	17°10	3°23	27°43	8°D23	9° 0	8°10	n.a.	S 22
M23	3 51 16	27°32'21	23°28	5°44	16°56	28°10	7° 9	14°17	17°12	3°24	27°44	8°23	8°57	8°17	n.a.	M23
T 24	3 55 13	28°33'37	5♑43	6°38	17°30	28°56	7°18	14°21	17°15	3°26	27°45	8°24	8°53	8°24	n.a.	T 24
W25	3 59 10	29°34'53	17°47	7°36	18° 6	29°42	7°27	14°24	17°17	3°27	27°46	8°25	8°50	8°30	n.a.	W25
T 26	4 3 6	0♐36'09	29°42	8°38	18°43	0♐28	7°37	14°28	17°20	3°29	27°47	8°26	8°47	8°37	n.a.	T 26
F 27	4 7 3	1°37'25	11♒34	9°43	19°21	1°13	7°46	14°31	17°22	3°30	27°48	8°27	8°44	8°44	n.a.	F 27
S 28	4 10 59	2°38'40	23°25	10°51	20° 1	1°59	7°56	14°35	17°25	3°32	27°49	8°27	8°41	8°50	n.a.	S 28
S 29	4 14 56	3°39'56	5♓21	12° 2	20°42	2°45	8° 6	14°39	17°28	3°33	27°50	8°R27	8°38	8°57	n.a.	S 29
M30	4 18 52	4♐41'11	17♓27	13♏15	21♎24	3♐31	8♒16	14♒43	17♑31	3♎34	27♑51	8♐27	8♐34	9♒ 4	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s23	7s40	5n 6	17s38	0s43	6s37	1s49	15s44	0s15	20s34	1s13	18s45	1s51	23s14	0s33	0n34	1n51	31s26	10s46	22s 3	22s13	14s55		n.a.
M 2	13 43	3 13	5 12	17 3	0 25	6 19	1 35	15 59	0 16	20 32	1 13	18 44	1 51	23 14	0 33	0 34	1 51	31 26	10 46	22 3	22 13	14 52		n.a.
T 3	14 4	1n27	5 4	16 24	0 5	6 2	1 20	16 13	0 17	20 31	1 13	18 44	1 50	23 14	0 33	0 33	1 51	31 26	10 46	22 2	22 12	14 50		n.a.
W 4	14 24	6 10	4 41	15 42	0n16	5 46	1 6	16 27	0 17	20 29	1 13	18 43	1 50	23 14	0 33	0 32	1 51	31 25	10 45	22 1	22 12	14 48		n.a.
T 5	14 43	10 44	4 3	14 58	0 36	5 32	0 52	16 41	0 18	20 27	1 13	18 43	1 50	23 13	0 33	0 32	1 51	31 25	10 45	22 0	22 12	14 46		n.a.
F 6	15 3	14 54	3 12	14 13	0 57	5 19	0 38	16 55	0 19	20 26	1 13	18 42	1 50	23 13	0 33	0 31	1 51	31 25	10 45	22 0	22 11	14 44		n.a.
S 7	15 22	18 23	2 9	13 28	1 16	5 7	0 25	17 9	0 19	20 24	1 12	18 41	1 50	23 13	0 33	0 30	1 51	31 24	10 45	21 59	22 11	14 42		n.a.
S 8	15 41	20 54	0 57	12 45	1 34	4 56	0 12	17 23	0 20	20 22	1 12	18 41	1 50	23 13	0 33	0 29	1 51	31 24	10 44	21 59	22 10	14 40		n.a.
M 9	16 0	22 11	0s20	12 5	1 51	4 47	0n 0	17 36	0 21	20 20	1 12	18 40	1 50	23 12	0 33	0 29	1 51	31 24	10 44	21 59	22 10	14 38		n.a.
T 10	16 19	22 4	1 36	11 29	2 5	4 39	0 12	17 50	0 21	20 18	1 12	18 39	1 50	23 12	0 33	0 28	1 51	31 23	10 44	21 59	22 9	14 35		n.a.
W11	16 37	20 32	2 46	10 58	2 17	4 32	0 24	18 3	0 22	20 16	1 12	18 38	1 49	23 12	0 33	0 27	1 51	31 23	10 44	21 59	22 9	14 33		n.a.
T 12	16 55	17 44	3 47	10 33	2 27	4 27	0 35	18 16	0 22	20 14	1 12	18 38	1 49	23 11	0 33	0 27	1 51	31 23	10 44	21 59	22 8	14 31		n.a.
F 13	17 12	13 52	4 34	10 13	2 35	4 23	0 46	18 29	0 23	20 12	1 11	18 37	1 49	23 11	0 33	0 26	1 51	31 22	10 43	21 59	22 8	14 29		n.a.
S 14	17 30	9 14	5 4	9 59	2 41	4 20	0 57	18 41	0 24	20 10	1 11	18 36	1 49	23 11	0 33	0 25	1 51	31 22	10 43	21 59	22 7	14 27		n.a.
S 15	17 46	4 9	5 15	9 50	2 45	4 18	1 7	18 54	0 24	20 8	1 11	18 35	1 49	23 11	0 33	0 25	1 51	31 22	10 43	21 59	22 7	14 25		n.a.
M16	18 3	1s 7	5 8	9 47	2 47	4 17	1 17	19 6	0 25	20 6	1 11	18 34	1 49	23 10	0 33	0 24	1 51	31 21	10 43	21 59	22 6	14 23		n.a.
T 17	18 19	6 16	4 43	9 48	2 48	4 17	1 26	19 18	0 26	20 4	1 11	18 33	1 49	23 10	0 33	0 23	1 51	31 21	10 43	21 59	22 6	14 21		n.a.
W18	18 36	11 4	4 2	9 54	2 47	4 19	1 35	19 30	0 26	20 1	1 11	18 32	1 49	23 10	0 33	0 23	1 51	31 20	10 42	21 58	22 5	14 18		n.a.
T 19	18 51	15 15	3 8	10 4	2 45	4 21	1 43	19 42	0 27	19 59	1 11	18 31	1 48	23 9	0 33	0 22	1 51	31 20	10 42	21 58	22 5	14 16		n.a.
F 20	19 6	18 35	2 5	10 18	2 42	4 24	1 51	19 54	0 27	19 57	1 10	18 30	1 48	23 9	0 33	0 22	1 51	31 20	10 42	21 58	22 4	14 14		n.a.
S 21	19 21	20 54	0 56	10 34	2 38	4 29	1 59	20 5	0 28	19 54	1 10	18 29	1 48	23 9	0 33	0 21	1 51	31 19	10 42	21 58	22 4	14 12		n.a.
S 22	19 36	22 7	0n14	10 54	2 34	4 34	2 7	20 16	0 29	19 52	1 10	18 28	1 48	23 8	0 33	0 21	1 52	31 19	10 42	21 57	22 3	14 10		n.a.
M23	19 50	22 11	1 23	11 15	2 29	4 40	2 14	20 27	0 29	19 50	1 10	18 27	1 48	23 8	0 33	0 20	1 52	31 19	10 41	21 58	22 3	14 8		n.a.
T 24	20 4	21 10	2 26	11 39	2 23	4 47	2 20	20 38	0 30	19 47	1 10	18 26	1 48	23 8	0 32	0 19	1 52	31 18	10 41	21 58	22 2	14 5		n.a.
W25	20 18	19 11	3 22	12 4	2 16	4 55	2 27	20 49	0 30	19 45	1 10	18 25	1 48	23 7	0 32	0 19	1 52	31 18	10 41	21 58	22 2	14 3		n.a.
T 26	20 31	16 25	4 8	12 30	2 10	5 4	2 33	20 59	0 31	19 42	1 10	18 24	1 48	23 7	0 32	0 18	1 52	31 17	10 41	21 58	22 1	14 1		n.a.
F 27	20 43	12 59	4 43	12 57	2 3	5 13	2 39	21 9	0 32	19 39	1 10	18 22	1 47	23 7	0 32	0 18	1 52	31 17	10 41	21 58	22 1	13 59		n.a.
S 28	20 56	9 3	5 7	13 26	1 56	5 23	2 44	21 19	0 32	19 37	1 9	18 21	1 47	23 6	0 32	0 17	1 52	31 17	10 40	21 58	22 0	13 57		n.a.
S 29	21 8	4 45	5 17	13 54	1 48	5 34	2 49	21 29	0 33	19 34	1 9	18 20	1 47	23 6	0 32	0 17	1 52	31 16	10 40	21 58	22 0	13 55		n.a.
M30	21s19	0s13	5n14	14s24	1n41	5s45	2n54	21s39	0s33	19s31	1s 9	18s19	1s47	23s 5	0s32	0n16	1n52	31s16	10s40	21s58	21s59	13s53		n.a.

Julian Day Number = 1653790.5, Delta T = 03h29m32s
Ecliptic obliquity = 23°43'01, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'29, Lahiri = - 6°30'28 Julian Calendar 1 Nov. 186 BCE == Greg. Calendar 29 Oct. 186 BCE

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ASTRODIENST EPHEMERIS for the year 186 BCE
geocentric

DECEMBER 186 BCE (-185) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 22 49	5♐42'26	29♓46	14♏29	22♎ 7	4♐17	8♒26	14♒47	17♑33	3♎36	27♑53	8°R27	8♐31	9♒11	n.a.	T 1
W 2	4 26 45	6°43'41	12♈24	15°46	22°51	5° 3	8°36	14°51	17°36	3°37	27°54	8♐27	8°28	9°17	n.a.	W 2
T 3	4 30 42	7°44'56	25°23	17° 4	23°36	5°49	8°46	14°56	17°39	3°38	27°55	8°27	8°25	9°24	n.a.	T 3
F 4	4 34 39	8°46'10	8♉45	18°23	24°22	6°35	8°57	15° 0	17°42	3°39	27°56	8°D27	8°22	9°31	n.a.	F 4
S 5	4 38 35	9°47'24	22°30	19°44	25° 9	7°21	9° 7	15° 4	17°45	3°40	27°57	8°27	8°19	9°37	n.a.	S 5
S 6	4 42 32	10°48'38	6♊37	21° 6	25°57	8° 7	9°18	15° 9	17°48	3°42	27°59	8°R27	8°15	9°44	n.a.	S 6
M 7	4 46 28	11°49'52	21° 0	22°28	26°46	8°54	9°29	15°13	17°51	3°43	28° 0	8°27	8°12	9°51	n.a.	M 7
T 8	4 50 25	12°51'06	5♋36	23°52	27°36	9°40	9°40	15°18	17°54	3°44	28° 1	8°26	8° 9	9°57	n.a.	T 8
W 9	4 54 21	13°52'19	20°17	25°17	28°27	10°26	9°51	15°23	17°57	3°45	28° 2	8°26	8° 6	10° 4	n.a.	W 9
T 10	4 58 18	14°53'32	4♌56	26°42	29°18	11°12	10° 2	15°28	18° 0	3°46	28° 4	8°25	8° 3	10°11	n.a.	T 10
F 11	5 2 15	15°54'45	19°28	28° 8	0♏10	11°59	10°13	15°32	18° 3	3°47	28° 5	8°25	7°59	10°18	n.a.	F 11
S 12	5 6 11	16°55'58	3♍49	29°35	1° 3	12°45	10°24	15°37	18° 6	3°48	28° 6	8°24	7°56	10°24	n.a.	S 12
S 13	5 10 8	17°57'11	17°55	1♐ 3	1°56	13°31	10°35	15°42	18° 9	3°49	28° 8	8°D24	7°53	10°31	n.a.	S 13
M14	5 14 4	18°58'24	1♎45	2°31	2°51	14°18	10°47	15°48	18°12	3°50	28° 9	8°24	7°50	10°38	n.a.	M14
T 15	5 18 1	19°59'36	15°18	4° 0	3°46	15° 4	10°59	15°53	18°15	3°50	28°11	8°25	7°47	10°44	n.a.	T 15
W16	5 21 57	21° 0'48	28°36	5°29	4°41	15°51	11°10	15°58	18°19	3°51	28°12	8°26	7°44	10°51	n.a.	W16
T 17	5 25 54	22° 2'00	11♏39	6°59	5°37	16°37	11°22	16° 3	18°22	3°52	28°13	8°27	7°40	10°58	n.a.	T 17
F 18	5 29 50	23° 3'12	24°29	8°29	6°34	17°24	11°34	16° 9	18°25	3°53	28°15	8°28	7°37	11° 5	n.a.	F 18
S 19	5 33 47	24° 4'23	7♐ 6	10° 1	7°31	18°10	11°46	16°14	18°28	3°53	28°16	8°R28	7°34	11°11	n.a.	S 19
S 20	5 37 44	25° 5'33	19°33	11°32	8°29	18°57	11°58	16°20	18°31	3°54	28°18	8°28	7°31	11°18	n.a.	S 20
M21	5 41 40	26° 6'43	1♑49	13° 4	9°27	19°44	12°10	16°25	18°35	3°55	28°19	8°27	7°28	11°25	n.a.	M21
T 22	5 45 37	27° 7'51	13°56	14°37	10°26	20°30	12°22	16°31	18°38	3°55	28°21	8°24	7°25	11°31	n.a.	T 22
W23	5 49 33	28° 8'59	25°55	16°10	11°25	21°17	12°34	16°37	18°41	3°56	28°22	8°21	7°21	11°38	n.a.	W23
T 24	5 53 30	29°10'06	7♒49	17°44	12°24	22° 4	12°47	16°43	18°45	3°57	28°24	8°18	7°18	11°45	n.a.	T 24
F 25	5 57 26	0♑11'12	19°40	19°19	13°24	22°51	12°59	16°48	18°48	3°57	28°25	8°14	7°15	11°52	n.a.	F 25
S 26	6 1 23	1°12'17	1♓31	20°54	14°25	23°37	13°12	16°54	18°51	3°58	28°27	8°11	7°12	11°58	n.a.	S 26
S 27	6 5 19	2°13'20	13°26	22°30	15°26	24°24	13°24	17° 0	18°55	3°58	28°28	8° 8	7° 9	12° 5	n.a.	S 27
M28	6 9 16	3°14'22	25°29	24° 6	16°27	25°11	13°37	17° 6	18°58	3°58	28°30	8° 7	7° 5	12°12	n.a.	M28
T 29	6 13 13	4°15'23	7♈44	25°43	17°28	25°58	13°50	17°13	19° 2	3°59	28°32	8°D 7	7° 2	12°18	n.a.	T 29
W30	6 17 9	5°16'22	20°16	27°20	18°30	26°45	14° 3	17°19	19° 5	3°59	28°33	8° 7	6°59	12°25	n.a.	W30
T 31	6 21 6	6♑17'20	3♉ 9	28♐59	19♏32	27♐31	14♒16	17♒25	19♑ 8	4♎ 0	28♑35	8♐ 9	6♐56	12♒32	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	21 s30	4n25	4n56	14 s54	1n33	5 s57	2n58	21 s48	0 s34	19 s28	1 s 9	18 s17	1 s47	23 s 5	0 s32	0n16	1n52	31 s15	10 s40	21 s58	21 s59	13 s50			n.a.
W 2	21 41	8 59	4 24	15 23	1 25	6 10	3 2	21 57	0 34	19 26	1 9	18 16	1 47	23 5	0 32	0 16	1 52	31 15	10 40	21 58	21 58	13 48			n.a.
T 3	21 51	13 17	3 37	15 53	1 17	6 23	3 6	22 6	0 35	19 23	1 9	18 15	1 47	23 4	0 32	0 15	1 52	31 14	10 40	21 58	21 58	13 46			n.a.
F 4	22 1	17 4	2 38	16 23	1 9	6 37	3 10	22 15	0 36	19 20	1 9	18 13	1 47	23 4	0 32	0 15	1 52	31 14	10 39	21 58	21 57	13 44			n.a.
S 5	22 11	20 1	1 27	16 53	1 2	6 51	3 13	22 23	0 36	19 17	1 9	18 12	1 47	23 4	0 32	0 14	1 52	31 14	10 39	21 58	21 57	13 42			n.a.
S 6	22 20	21 50	0 10	17 23	0 54	7 6	3 16	22 31	0 37	19 14	1 8	18 10	1 46	23 3	0 32	0 14	1 52	31 13	10 39	21 58	21 56	13 40			n.a.
M 7	22 28	22 15	1 s 9	17 52	0 46	7 21	3 19	22 39	0 37	19 11	1 8	18 9	1 46	23 3	0 32	0 13	1 52	31 13	10 39	21 58	21 56	13 37			n.a.
T 8	22 36	21 11	2 25	18 21	0 38	7 36	3 22	22 47	0 38	19 8	1 8	18 7	1 46	23 2	0 32	0 13	1 52	31 12	10 39	21 58	21 55	13 35			n.a.
W 9	22 44	18 40	3 32	18 49	0 30	7 52	3 24	22 54	0 38	19 5	1 8	18 6	1 46	23 2	0 32	0 13	1 53	31 12	10 39	21 58	21 55	13 33			n.a.
T 10	22 51	14 58	4 25	19 17	0 23	8 8	3 26	23 2	0 39	19 2	1 8	18 4	1 46	23 1	0 32	0 12	1 53	31 12	10 39	21 58	21 54	13 31			n.a.
F 11	22 58	10 24	5 0	19 44	0 15	8 25	3 28	23 8	0 40	18 59	1 8	18 3	1 46	23 1	0 32	0 12	1 53	31 11	10 38	21 58	21 54	13 29			n.a.
S 12	23 4	5 19	5 16	20 10	0 7	8 42	3 30	23 15	0 40	18 55	1 8	18 1	1 46	23 1	0 32	0 12	1 53	31 11	10 38	21 58	21 53	13 26			n.a.
S 13	23 10	0 2	5 13	20 36	0 0	8 59	3 31	23 22	0 41	18 52	1 8	18 0	1 46	23 0	0 32	0 11	1 53	31 10	10 38	21 58	21 53	13 24			n.a.
M14	23 15	5 s 9	4 51	21 1	0 s 7	9 17	3 32	23 28	0 41	18 49	1 8	17 58	1 46	23 0	0 32	0 11	1 53	31 10	10 38	21 58	21 52	13 22			n.a.
T 15	23 20	9 59	4 14	21 26	0 14	9 34	3 33	23 34	0 42	18 46	1 8	17 56	1 46	22 59	0 32	0 11	1 53	31 9	10 38	21 58	21 52	13 20			n.a.
W16	23 24	14 16	3 23	21 49	0 21	9 52	3 34	23 39	0 42	18 42	1 7	17 55	1 45	22 59	0 32	0 11	1 53	31 9	10 38	21 58	21 51	13 18			n.a.
T 17	23 28	17 46	2 23	22 11	0 28	10 10	3 35	23 45	0 43	18 39	1 7	17 53	1 45	22 58	0 32	0 10	1 53	31 9	10 38	21 58	21 51	13 15			n.a.
F 18	23 32	20 21	1 17	22 33	0 35	10 29	3 35	23 50	0 43	18 35	1 7	17 51	1 45	22 58	0 32	0 10	1 53	31 8	10 38	21 58	21 50	13 13			n.a.
S 19	23 35	21 52	0 8	22 53	0 41	10 47	3 36	23 55	0 44	18 32	1 7	17 49	1 45	22 57	0 32	0 10	1 53	31 8	10 38	21 58	21 50	13 11			n.a.
S 20	23 37	22 17	1n 1	23 13	0 48	11 5	3 36	23 59	0 44	18 28	1 7	17 48	1 45	22 57	0 32	0 10	1 53	31 7	10 37	21 58	21 49	13 9			n.a.
M21	23 40	21 37	2 5	23 31	0 54	11 24	3 36	24 4	0 45	18 25	1 7	17 46	1 45	22 57	0 32	0 9	1 53	31 7	10 37	21 58	21 48	13 7			n.a.
T 22	23 41	19 56	3 3	23 48	1 0	11 43	3 35	24 8	0 45	18 21	1 7	17 44	1 45	22 56	0 32	0 9	1 53	31 6	10 37	21 58	21 48	13 4			n.a.
W23	23 42	17 24	3 53	24 5	1 6	12 2	3 35	24 11	0 46	18 18	1 7	17 42	1 45	22 56	0 32	0 9	1 53	31 6	10 37	21 57	21 47	13 2			n.a.
T 24	23 43	14 9	4 31	24 19	1 11	12 20	3 34	24 15	0 46	18 14	1 7	17 40	1 45	22 55	0 32	0 9	1 54	31 6	10 37	21 57	21 47	13 0			n.a.
F 25	23 43	10 22	4 58	24 33	1 16	12 39	3 33	24 18	0 47	18 10	1 7	17 39	1 45	22 55	0 32	0 9	1 54	31 5	10 37	21 56	21 46	12 58			n.a.
S 26	23 43	6 12	5 12	24 45	1 21	12 58	3 33	24 21	0 48	18 7	1 7	17 37	1 45	22 54	0 32	0 9	1 54	31 5	10 37	21 56	21 46	12 56			n.a.
S 27	23 42	1 46	5 13	24 56	1 26	13 17	3 31	24 24	0 48	18 3	1 7	17 35	1 45	22 54	0 32	0 8	1 54	31 4	10 37	21 55	21 45	12 53			n.a.
M28	23 41	2n46	5 0	25 6	1 31	13 35	3 30	24 26	0 48	17 59	1 6	17 33	1 45	22 53	0 32	0 8	1 54	31 4	10 37	21 55	21 45	12 51			n.a.
T 29	23 39	7 17	4 33	25 14	1 35	13 54	3 29	24 28	0 49	17 56	1 6	17 31	1 45	22 53	0 32	0 8	1 54	31 4	10 37	21 55	21 44	12 49			n.a.
W30	23 37	11 36	3 53	25 21	1 39	14 13	3 27	24 30	0 49	17 52	1 6	17 29	1 44	22 52	0 32	0 8	1 54	31 3	10 37	21 55	21 44	12 47			n.a.
T 31	23 s34	15n32	3n 0	25 s26	1 s43	14 s31	3n26	24 s32	0 s50	17 s48	1 s 6	17 s27	1 s44	22 s52	0 s32	0n 8	1n54	31 s 3	10 s37	21 s55	21 s43	12 s45			n.a.

Julian Day Number = 1653820.5, Delta T = 03h29m31s
Ecliptic obliquity = 23°43'00, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'24, Lahiri = - 6°30'24 Julian Calendar 1 Dec. 186 BCE == Greg. Calendar 28 Nov. 186 BCE

The year -185 astronomical counting style corresponds to year 186 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 185 BCE
geocentric

JANUARY 185 BCE (-184) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 25 2	7♑18'17	16♉28	0♑38	20♏35	28♐18	14♒29	17♒31	19♑12	4♎ 0	28♑36	8♐11	6♐53	12♒39	n.a.	F 1
S 2	6 28 59	8°19'13	0♊13	2°17	21°38	29° 5	14°42	17°37	19°15	4° 0	28°38	8°12	6°50	12°45	n.a.	S 2
S 3	6 32 55	9°20'07	14°26	3°58	22°41	29°52	14°55	17°44	19°19	4° 0	28°40	8°R12	6°46	12°52	n.a.	S 3
M 4	6 36 52	10°20'59	29° 3	5°39	23°45	0♑39	15° 8	17°50	19°22	4° 0	28°41	8°10	6°43	12°59	n.a.	M 4
T 5	6 40 49	11°21'51	13♋59	7°20	24°49	1°26	15°21	17°57	19°26	4° 1	28°43	8° 7	6°40	13° 5	n.a.	T 5
W 6	6 44 45	12°22'41	29° 5	9° 3	25°53	2°13	15°34	18° 3	19°29	4° 1	28°45	8° 3	6°37	13°12	n.a.	W 6
T 7	6 48 42	13°23'30	14♌12	10°46	26°57	3° 0	15°48	18°10	19°33	4° 1	28°46	7°58	6°34	13°19	n.a.	T 7
F 8	6 52 38	14°24'17	29°10	12°30	28° 2	3°47	16° 1	18°16	19°36	4° 1	28°48	7°52	6°31	13°26	n.a.	F 8
S 9	6 56 35	15°25'03	13♍51	14°15	29° 7	4°34	16°14	18°23	19°40	4°R 1	28°50	7°48	6°27	13°32	n.a.	S 9
S 10	7 0 31	16°25'49	28°10	16° 1	0♐12	5°21	16°28	18°30	19°43	4° 1	28°51	7°44	6°24	13°39	n.a.	S 10
M11	7 4 28	17°26'33	12♎ 5	17°47	1°17	6° 8	16°41	18°37	19°47	4° 1	28°53	7°D43	6°21	13°46	n.a.	M11
T 12	7 8 24	18°27'15	25°35	19°34	2°23	6°55	16°55	18°43	19°50	4° 1	28°55	7°43	6°18	13°52	n.a.	T 12
W13	7 12 21	19°27'57	8♏43	21°22	3°29	7°42	17° 9	18°50	19°53	4° 1	28°56	7°44	6°15	13°59	n.a.	W13
T 14	7 16 18	20°28'37	21°31	23°11	4°35	8°29	17°22	18°57	19°57	4° 0	28°58	7°46	6°11	14° 6	n.a.	T 14
F 15	7 20 14	21°29'17	4♐ 4	25° 0	5°41	9°17	17°36	19° 4	20° 0	4° 0	29° 0	7°R47	6° 8	14°13	n.a.	F 15
S 16	7 24 11	22°29'54	16°25	26°50	6°47	10° 4	17°50	19°11	20° 4	4° 0	29° 1	7°46	6° 5	14°19	n.a.	S 16
S 17	7 28 7	23°30'31	28°35	28°40	7°54	10°51	18° 4	19°18	20° 7	4° 0	29° 3	7°44	6° 2	14°26	n.a.	S 17
M18	7 32 4	24°31'06	10♑39	0♒31	9° 1	11°38	18°18	19°25	20°11	3°59	29° 5	7°39	5°59	14°33	n.a.	M18
T 19	7 36 0	25°31'39	22°37	2°23	10° 8	12°25	18°32	19°32	20°14	3°59	29° 7	7°32	5°56	14°39	n.a.	T 19
W20	7 39 57	26°32'10	4♒32	4°14	11°15	13°12	18°46	19°39	20°18	3°59	29° 8	7°23	5°52	14°46	n.a.	W20
T 21	7 43 53	27°32'40	16°24	6° 6	12°22	13°59	19° 0	19°46	20°21	3°58	29°10	7°13	5°49	14°53	n.a.	T 21
F 22	7 47 50	28°33'08	28°15	7°57	13°30	14°47	19°14	19°53	20°25	3°58	29°12	7° 3	5°46	15° 0	n.a.	F 22
S 23	7 51 47	29°33'34	10♓ 7	9°49	14°38	15°34	19°28	20° 0	20°28	3°57	29°13	6°53	5°43	15° 6	n.a.	S 23
S 24	7 55 43	0♒33'57	22° 3	11°40	15°45	16°21	19°42	20° 8	20°32	3°57	29°15	6°45	5°40	15°13	n.a.	S 24
M25	7 59 40	1°34'19	4♈ 6	13°30	16°53	17° 8	19°56	20°15	20°35	3°56	29°17	6°39	5°36	15°20	n.a.	M25
T 26	8 3 36	2°34'39	16°19	15°18	18° 1	17°55	20°10	20°22	20°39	3°56	29°19	6°35	5°33	15°26	n.a.	T 26
W27	8 7 33	3°34'57	28°46	17° 6	19° 9	18°42	20°24	20°29	20°42	3°55	29°20	6°D33	5°30	15°33	n.a.	W27
T 28	8 11 29	4°35'12	11♉32	18°51	20°18	19°30	20°38	20°36	20°45	3°55	29°22	6°33	5°27	15°40	n.a.	T 28
F 29	8 15 26	5°35'26	24°42	20°34	21°26	20°17	20°53	20°44	20°49	3°54	29°24	6°34	5°24	15°47	n.a.	F 29
S 30	8 19 22	6°35'37	8♊19	22°14	22°35	21° 4	21° 7	20°51	20°52	3°53	29°25	6°R35	5°21	15°53	n.a.	S 30
S 31	8 23 19	7♒35'47	22♊24	23♒51	23♐43	21♑51	21♒21	20♒58	20♑56	3♎53	29♑27	6♐33	5♐17	16♒ 0	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s31	18n48	1n56	25s29	1s46	14s49	3n24	24s33	0s50	17s44	1s 6	17s25	1s44	22s51	0s32	0n 8	1n54	31s 2	10s37	21s55	21s43	12s42		n.a.
S 2	23 27	21 9	0 44	25 31	1 50	15 8	3 22	24 34	0 51	17 40	1 6	17 23	1 44	22 51	0 32	0 8	1 54	31 2	10 36	21 56	21 42	12 40		n.a.
S 3	23 23	22 14	0s34	25 32	1 52	15 26	3 20	24 34	0 51	17 36	1 6	17 21	1 44	22 50	0 32	0 8	1 54	31 2	10 36	21 56	21 41	12 38		n.a.
M 4	23 18	21 51	1 52	25 30	1 55	15 44	3 18	24 35	0 52	17 32	1 6	17 19	1 44	22 50	0 32	0 8	1 54	31 1	10 36	21 55	21 41	12 36		n.a.
T 5	23 13	19 56	3 3	25 27	1 57	16 1	3 16	24 35	0 52	17 28	1 6	17 17	1 44	22 49	0 32	0 8	1 54	31 1	10 36	21 55	21 40	12 33		n.a.
W 6	23 8	16 37	4 2	25 23	1 59	16 19	3 14	24 35	0 53	17 24	1 6	17 15	1 44	22 49	0 32	0 8	1 54	31 0	10 36	21 54	21 40	12 31		n.a.
T 7	23 2	12 13	4 45	25 16	2 0	16 36	3 11	24 34	0 53	17 20	1 6	17 13	1 44	22 48	0 32	0 8	1 54	31 0	10 36	21 53	21 39	12 29		n.a.
F 8	22 56	7 6	5 7	25 8	2 1	16 53	3 9	24 33	0 54	17 16	1 6	17 10	1 44	22 48	0 32	0 8	1 55	31 0	10 36	21 52	21 39	12 27		n.a.
S 9	22 49	1 40	5 9	24 57	2 2	17 10	3 6	24 32	0 54	17 12	1 6	17 8	1 44	22 47	0 32	0 8	1 55	30 59	10 36	21 52	21 38	12 25		n.a.
S 10	22 42	3s43	4 52	24 45	2 2	17 26	3 3	24 31	0 55	17 8	1 6	17 6	1 44	22 47	0 32	0 8	1 55	30 59	10 36	21 51	21 38	12 22		n.a.
M11	22 34	8 46	4 17	24 31	2 1	17 43	3 1	24 29	0 55	17 3	1 6	17 4	1 44	22 46	0 32	0 8	1 55	30 58	10 36	21 51	21 37	12 20		n.a.
T 12	22 26	13 14	3 29	24 15	2 0	17 58	2 58	24 27	0 55	16 59	1 6	17 2	1 44	22 46	0 32	0 8	1 55	30 58	10 36	21 51	21 37	12 18		n.a.
W13	22 17	16 57	2 31	23 57	1 59	18 14	2 55	24 25	0 56	16 55	1 6	17 0	1 44	22 45	0 32	0 9	1 55	30 58	10 36	21 51	21 36	12 16		n.a.
T 14	22 8	19 45	1 27	23 38	1 57	18 29	2 52	24 23	0 56	16 51	1 6	16 57	1 44	22 45	0 32	0 9	1 55	30 57	10 36	21 51	21 35	12 13		n.a.
F 15	21 59	21 32	0 20	23 16	1 55	18 44	2 49	24 20	0 57	16 46	1 6	16 55	1 44	22 44	0 32	0 9	1 55	30 57	10 36	21 52	21 35	12 11		n.a.
S 16	21 49	22 14	0n47	22 52	1 52	18 59	2 45	24 17	0 57	16 42	1 6	16 53	1 44	22 44	0 32	0 9	1 55	30 57	10 36	21 52	21 34	12 9		n.a.
S 17	21 39	21 52	1 50	22 26	1 48	19 13	2 42	24 13	0 57	16 38	1 6	16 51	1 44	22 43	0 32	0 9	1 55	30 56	10 36	21 51	21 34	12 7		n.a.
M18	21 28	20 30	2 48	21 58	1 44	19 27	2 39	24 10	0 58	16 33	1 5	16 49	1 44	22 43	0 32	0 9	1 55	30 56	10 36	21 50	21 33	12 4		n.a.
T 19	21 17	18 13	3 38	21 28	1 40	19 40	2 35	24 6	0 58	16 29	1 5	16 46	1 44	22 42	0 32	0 9	1 55	30 55	10 36	21 49	21 33	12 2		n.a.
W20	21 5	15 11	4 18	20 57	1 34	19 53	2 32	24 1	0 59	16 25	1 5	16 44	1 44	22 42	0 32	0 10	1 55	30 55	10 36	21 48	21 32	12 0		n.a.
T 21	20 54	11 33	4 46	20 23	1 28	20 5	2 28	23 57	0 59	16 20	1 5	16 42	1 44	22 41	0 32	0 10	1 55	30 55	10 36	21 46	21 32	11 58		n.a.
F 22	20 41	7 30	5 2	19 48	1 21	20 17	2 25	23 52	0 59	16 16	1 5	16 39	1 44	22 41	0 32	0 10	1 55	30 54	10 36	21 44	21 31	11 56		n.a.
S 23	20 29	3 9	5 5	19 11	1 14	20 29	2 21	23 47	1 0	16 11	1 5	16 37	1 44	22 40	0 32	0 10	1 56	30 54	10 37	21 43	21 30	11 53		n.a.
S 24	20 16	1n19	4 55	18 32	1 6	20 40	2 18	23 42	1 0	16 7	1 5	16 35	1 44	22 40	0 32	0 11	1 56	30 54	10 37	21 41	21 30	11 51		n.a.
M25	20 2	5 48	4 32	17 52	0 57	20 50	2 14	23 36	1 0	16 2	1 5	16 32	1 44	22 39	0 32	0 11	1 56	30 53	10 37	21 40	21 29	11 49		n.a.
T 26	19 49	10 6	3 56	17 11	0 47	21 0	2 10	23 30	1 1	15 58	1 5	16 30	1 44	22 39	0 32	0 11	1 56	30 53	10 37	21 40	21 29	11 47		n.a.
W27	19 35	14 5	3 8	16 29	0 37	21 10	2 6	23 24	1 1	15 53	1 5	16 28	1 44	22 38	0 32	0 11	1 56	30 53	10 37	21 39	21 28	11 44		n.a.
T 28	19 20	17 31	2 10	15 46	0 26	21 19	2 3	23 18	1 1	15 49	1 5	16 25	1 44	22 38	0 32	0 12	1 56	30 52	10 37	21 39	21 28	11 42		n.a.
F 29	19 5	20 11	1 3	15 2	0 15	21 28	1 59	23 11	1 2	15 44	1 5	16 23	1 44	22 37	0 32	0 12	1 56	30 52	10 37	21 39	21 27	11 40		n.a.
S 30	18 50	21 48	0s 9	14 18	0 3	21 36	1 55	23 4	1 2	15 39	1 5	16 21	1 44	22 36	0 32	0 12	1 56	30 52	10 37	21 39	21 26	11 38		n.a.
S 31	18s35	22n 6	1s24	13s34	0n10	21s43	1n51	22s57	1s 2	15s35	1s 5	16s18	1s44	22s36	0s32	0n13	1n56	30s52	10s37	21s39	21s26	11s35		n.a.

Julian Day Number = 1653851.5, Delta T = 03h29m30s
Ecliptic obliquity = 23°42'59, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'20, Lahiri = - 6°30'20 Julian Calendar 1 Jan. 185 BCE == Greg. Calendar 29 Dec. 186 BCE

The year -184 astronomical counting style corresponds to year 185 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 185 BCE
geocentric

FEBRUARY 185 BCE (-184) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 27 16	8♒35'54	6♋58	25♒23	24♐52	22♑38	21♒35	21♒ 6	20♑59	3°R52	29♑29	6°R30	5♐14	16♒ 7	n.a.	M 1
T 2	8 31 12	9°35'58	21°56	26°52	26° 1	23°25	21°50	21°13	21° 2	3♎51	29°30	6♐24	5°11	16°13	n.a.	T 2
W 3	8 35 9	10°36'01	7♌11	28°14	27°10	24°13	22° 4	21°21	21° 6	3°50	29°32	6°16	5° 8	16°20	n.a.	W 3
T 4	8 39 5	11°36'02	22°33	29°32	28°19	25° 0	22°19	21°28	21° 9	3°49	29°34	6° 6	5° 5	16°27	n.a.	T 4
F 5	8 43 2	12°36'01	7♍49	0♓43	29°28	25°47	22°33	21°35	21°12	3°49	29°36	5°56	5° 2	16°34	n.a.	F 5
S 6	8 46 58	13°35'57	22°48	1°47	0♑37	26°34	22°47	21°43	21°16	3°48	29°37	5°47	4°58	16°40	n.a.	S 6
S 7	8 50 55	14°35'52	7♎24	2°44	1°47	27°21	23° 2	21°50	21°19	3°47	29°39	5°40	4°55	16°47	n.a.	S 7
M 8	8 54 51	15°35'46	21°30	3°33	2°56	28° 8	23°16	21°58	21°22	3°46	29°41	5°35	4°52	16°54	n.a.	M 8
T 9	8 58 48	16°35'37	5♏ 8	4°14	4° 6	28°55	23°31	22° 5	21°25	3°45	29°42	5°33	4°49	17° 0	n.a.	T 9
W10	9 2 45	17°35'27	18°18	4°47	5°16	29°42	23°45	22°13	21°29	3°44	29°44	5°D33	4°46	17° 7	n.a.	W10
T 11	9 6 41	18°35'15	1♐ 4	5°11	6°25	0♒30	24° 0	22°20	21°32	3°43	29°46	5°R33	4°42	17°14	n.a.	T 11
F 12	9 10 38	19°35'01	13°30	5°27	7°35	1°17	24°14	22°28	21°35	3°42	29°47	5°33	4°39	17°21	n.a.	F 12
S 13	9 14 34	20°34'45	25°43	5°R34	8°45	2° 4	24°28	22°35	21°38	3°41	29°49	5°31	4°36	17°27	n.a.	S 13
S 14	9 18 31	21°34'28	7♑45	5°32	9°55	2°51	24°43	22°43	21°41	3°40	29°50	5°27	4°33	17°34	n.a.	S 14
M15	9 22 27	22°34'09	19°40	5°22	11° 5	3°38	24°57	22°50	21°45	3°39	29°52	5°20	4°30	17°41	n.a.	M15
T 16	9 26 24	23°33'47	1♒32	5° 4	12°15	4°25	25°12	22°58	21°48	3°38	29°54	5°10	4°27	17°47	n.a.	T 16
W17	9 30 20	24°33'24	13°23	4°39	13°26	5°12	25°26	23° 5	21°51	3°36	29°55	4°57	4°23	17°54	n.a.	W17
T 18	9 34 17	25°32'58	25°15	4° 7	14°36	5°59	25°41	23°12	21°54	3°35	29°57	4°43	4°20	18° 1	n.a.	T 18
F 19	9 38 13	26°32'30	7♓ 9	3°29	15°46	6°46	25°55	23°20	21°57	3°34	29°58	4°29	4°17	18° 8	n.a.	F 19
S 20	9 42 10	27°32'00	19° 6	2°46	16°57	7°33	26°10	23°27	22° 0	3°33	29°59	4°15	4°14	18°14	n.a.	S 20
S 21	9 46 7	28°31'28	1♈ 7	1°58	18° 7	8°20	26°24	23°35	22° 3	3°31	0♒ 1	4° 3	4°11	18°21	n.a.	S 21
M22	9 50 3	29°30'54	13°16	1° 8	19°18	9° 7	26°39	23°42	22° 6	3°30	0° 3	3°53	4° 8	18°28	n.a.	M22
T 23	9 54 0	0♓30'17	25°33	0°16	20°28	9°54	26°53	23°50	22° 9	3°29	0° 4	3°46	4° 4	18°34	n.a.	T 23
W24	9 57 56	1°29'38	8♉ 2	29♒23	21°39	10°41	27° 8	23°57	22°12	3°28	0° 6	3°43	4° 1	18°41	n.a.	W24
T 25	10 1 53	2°28'56	20°47	28°30	22°49	11°28	27°22	24° 5	22°14	3°26	0° 7	3°41	3°58	18°48	n.a.	T 25
F 26	10 5 49	3°28'12	3♊52	27°39	24° 0	12°15	27°37	24°12	22°17	3°25	0° 9	3°41	3°55	18°55	n.a.	F 26
S 27	10 9 46	4°27'26	17°20	26°50	25°11	13° 1	27°51	24°20	22°20	3°24	0°10	3°41	3°52	19° 1	n.a.	S 27
S 28	10 13 42	5°26'37	1♋14	26° 4	26°22	13°48	28° 6	24°27	22°23	3°22	0°12	3°39	3°48	19° 8	n.a.	S 28
M29	10 17 39	6♓25'46	15♋34	25♒21	27♑32	14♒35	28♒20	24♒34	22♑26	3♎21	0♒13	3♐36	3♐45	19♒15	n.a.	M29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	18s19	20n57	2s35	12s50	0n24	21s50	1n47	22s49	1s 3	15s30	1s 5	16s16	1s44	22s35	0s32	0n13	1n56	30s51	10s37	21s39	21s25	11s33		n.a.
T 2	18 3	18 20	3 37	12 7	0 37	21 56	1 43	22 41	1 3	15 25	1 5	16 14	1 44	22 35	0 32	0 13	1 56	30 51	10 37	21 38	21 25	11 31		n.a.
W 3	17 47	14 25	4 25	11 25	0 51	22 2	1 39	22 33	1 3	15 21	1 5	16 11	1 44	22 34	0 32	0 14	1 56	30 51	10 37	21 36	21 24	11 28		n.a.
T 4	17 30	9 31	4 54	10 45	1 6	22 7	1 35	22 25	1 4	15 16	1 5	16 9	1 44	22 34	0 32	0 14	1 56	30 50	10 37	21 35	21 24	11 26		n.a.
F 5	17 13	4 4	5 3	10 6	1 20	22 12	1 31	22 17	1 4	15 11	1 5	16 6	1 44	22 33	0 32	0 15	1 56	30 50	10 38	21 33	21 23	11 24		n.a.
S 6	16 56	1s32	4 50	9 29	1 35	22 16	1 27	22 8	1 4	15 6	1 5	16 4	1 44	22 33	0 32	0 15	1 56	30 50	10 38	21 31	21 22	11 22		n.a.
S 7	16 39	6 54	4 18	8 55	1 50	22 19	1 23	21 59	1 4	15 2	1 5	16 2	1 44	22 32	0 32	0 15	1 56	30 50	10 38	21 30	21 22	11 19		n.a.
M 8	16 21	11 44	3 31	8 24	2 4	22 22	1 19	21 50	1 5	14 57	1 5	15 59	1 44	22 32	0 33	0 16	1 56	30 49	10 38	21 29	21 21	11 17		n.a.
T 9	16 3	15 48	2 34	7 56	2 18	22 24	1 15	21 40	1 5	14 52	1 5	15 57	1 44	22 31	0 33	0 16	1 57	30 49	10 38	21 29	21 21	11 15		n.a.
W10	15 44	18 55	1 30	7 31	2 31	22 25	1 11	21 30	1 5	14 47	1 5	15 54	1 44	22 31	0 33	0 17	1 57	30 49	10 38	21 29	21 20	11 13		n.a.
T 11	15 26	21 0	0 24	7 10	2 44	22 26	1 7	21 20	1 5	14 42	1 5	15 52	1 44	22 30	0 33	0 17	1 57	30 49	10 38	21 29	21 19	11 10		n.a.
F 12	15 7	21 59	0n42	6 53	2 56	22 27	1 3	21 10	1 6	14 38	1 6	15 49	1 44	22 30	0 33	0 18	1 57	30 48	10 38	21 29	21 19	11 8		n.a.
S 13	14 48	21 54	1 45	6 41	3 7	22 26	0 59	21 0	1 6	14 33	1 6	15 47	1 44	22 29	0 33	0 18	1 57	30 48	10 39	21 28	21 18	11 6		n.a.
S 14	14 29	20 48	2 42	6 32	3 17	22 25	0 55	20 49	1 6	14 28	1 6	15 44	1 44	22 29	0 33	0 19	1 57	30 48	10 39	21 28	21 18	11 4		n.a.
M15	14 9	18 47	3 31	6 28	3 26	22 24	0 51	20 38	1 6	14 23	1 6	15 42	1 44	22 28	0 33	0 19	1 57	30 48	10 39	21 26	21 17	11 1		n.a.
T 16	13 49	15 59	4 10	6 28	3 33	22 21	0 47	20 27	1 6	14 18	1 6	15 40	1 44	22 28	0 33	0 20	1 57	30 47	10 39	21 24	21 17	10 59		n.a.
W17	13 29	12 32	4 39	6 32	3 38	22 19	0 43	20 16	1 7	14 13	1 6	15 37	1 44	22 28	0 33	0 20	1 57	30 47	10 39	21 22	21 16	10 57		n.a.
T 18	13 9	8 37	4 56	6 40	3 42	22 15	0 40	20 4	1 7	14 8	1 6	15 35	1 44	22 27	0 33	0 21	1 57	30 47	10 39	21 20	21 15	10 54		n.a.
F 19	12 49	4 22	4 59	6 52	3 44	22 11	0 36	19 53	1 7	14 3	1 6	15 32	1 44	22 27	0 33	0 21	1 57	30 47	10 39	21 17	21 15	10 52		n.a.
S 20	12 28	0n 4	4 50	7 8	3 44	22 6	0 32	19 41	1 7	13 58	1 6	15 30	1 44	22 26	0 33	0 22	1 57	30 47	10 40	21 14	21 14	10 50		n.a.
S 21	12 7	4 32	4 27	7 26	3 42	22 1	0 28	19 28	1 7	13 53	1 6	15 27	1 45	22 26	0 33	0 22	1 57	30 46	10 40	21 12	21 14	10 48		n.a.
M22	11 46	8 51	3 53	7 48	3 39	21 55	0 24	19 16	1 8	13 48	1 6	15 25	1 45	22 25	0 33	0 23	1 57	30 46	10 40	21 10	21 13	10 45		n.a.
T 23	11 25	12 53	3 7	8 11	3 33	21 48	0 20	19 4	1 8	13 43	1 6	15 22	1 45	22 25	0 33	0 23	1 57	30 46	10 40	21 9	21 12	10 43		n.a.
W24	11 4	16 25	2 11	8 37	3 26	21 41	0 17	18 51	1 8	13 38	1 6	15 20	1 45	22 24	0 33	0 24	1 57	30 46	10 40	21 8	21 12	10 41		n.a.
T 25	10 43	19 15	1 8	9 3	3 17	21 33	0 13	18 38	1 8	13 33	1 6	15 18	1 45	22 24	0 33	0 25	1 57	30 46	10 41	21 8	21 11	10 39		n.a.
F 26	10 21	21 9	0s 1	9 31	3 7	21 24	0 9	18 25	1 8	13 28	1 6	15 15	1 45	22 23	0 33	0 25	1 57	30 46	10 41	21 8	21 11	10 36		n.a.
S 27	9 59	21 55	1 11	9 59	2 55	21 15	0 6	18 11	1 8	13 23	1 6	15 13	1 45	22 23	0 33	0 26	1 57	30 45	10 41	21 8	21 10	10 34		n.a.
S 28	9 37	21 23	2 20	10 26	2 42	21 6	0 2	17 58	1 8	13 18	1 6	15 10	1 45	22 22	0 33	0 26	1 57	30 45	10 41	21 8	21 9	10 32		n.a.
M29	9s15	19n27	3s22	10s53	2n29	20s55	0s 2	17s44	1s 9	13s13	1s 6	15s 8	1s45	22s22	0s33	0n27	1n57	30s45	10s41	21s 7	21s 9	10s29		n.a.

Julian Day Number = 1653882.5, Delta T = 03h29m29s
Ecliptic obliquity = 23°42'59, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'16, Lahiri = - 6°30'16 Julian Calendar 1 Feb. 185 BCE == Greg. Calendar 29 Jan. 185 BCE

The year -184 astronomical counting style corresponds to year 185 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 185 BCE
geocentric

MARCH 185 BCE (-184) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 21 36	7♓24'52	0♌20	24°R44	28♉43	15♒22	28♒34	24♒42	22♉28	3°R19	0♒15	3°R29	3♐42	19♒22	n.a.	T 1
W 2	10 25 32	8°23'56	15°25	24♒11	29°54	16° 8	28°49	24°49	22°31	3♎18	0°16	3♐20	3°39	19°28	n.a.	W 2
T 3	10 29 29	9°22'58	0♍41	23°43	1♒ 5	16°55	29° 3	24°56	22°34	3°16	0°18	3°10	3°36	19°35	n.a.	T 3
F 4	10 33 25	10°21'57	15°57	23°20	2°16	17°42	29°17	25° 4	22°36	3°15	0°19	2°59	3°33	19°42	n.a.	F 4
S 5	10 37 22	11°20'55	1♎ 2	23° 4	3°27	18°29	29°32	25°11	22°39	3°14	0°20	2°48	3°29	19°48	n.a.	S 5
S 6	10 41 18	12°19'50	15°45	22°52	4°39	19°15	29°46	25°18	22°41	3°12	0°22	2°40	3°26	19°55	n.a.	S 6
M 7	10 45 15	13°18'43	0♏ 1	22°47	5°50	20° 2	0♓ 0	25°26	22°44	3°11	0°23	2°34	3°23	20° 2	n.a.	M 7
T 8	10 49 11	14°17'35	13°47	22°D47	7° 1	20°48	0°15	25°33	22°46	3° 9	0°24	2°31	3°20	20° 9	n.a.	T 8
W 9	10 53 8	15°16'25	27° 4	22°52	8°12	21°35	0°29	25°40	22°49	3° 7	0°26	2°D30	3°17	20°15	n.a.	W 9
T 10	10 57 4	16°15'13	9♐55	23° 2	9°24	22°21	0°43	25°47	22°51	3° 6	0°27	2°R30	3°13	20°22	n.a.	T 10
F 11	11 1 1	17°13'59	22°24	23°18	10°35	23° 8	0°57	25°54	22°54	3° 4	0°28	2°30	3°10	20°29	n.a.	F 11
S 12	11 4 58	18°12'43	4♉36	23°38	11°46	23°54	1°11	26° 2	22°56	3° 3	0°29	2°28	3° 7	20°35	n.a.	S 12
S 13	11 8 54	19°11'26	16°37	24° 3	12°58	24°41	1°26	26° 9	22°58	3° 1	0°31	2°25	3° 4	20°42	n.a.	S 13
M14	11 12 51	20°10'06	28°30	24°32	14° 9	25°27	1°40	26°16	23° 1	3° 0	0°32	2°19	3° 1	20°49	n.a.	M14
T 15	11 16 47	21° 8'45	10♒20	25° 6	15°21	26°14	1°54	26°23	23° 3	2°58	0°33	2°11	2°58	20°56	n.a.	T 15
W16	11 20 44	22° 7'22	22°11	25°43	16°32	27° 0	2° 8	26°30	23° 5	2°56	0°34	2° 0	2°54	21° 2	n.a.	W16
T 17	11 24 40	23° 5'57	4♓ 5	26°25	17°44	27°46	2°22	26°37	23° 7	2°55	0°35	1°48	2°51	21° 9	n.a.	T 17
F 18	11 28 37	24° 4'30	16° 3	27°10	18°55	28°33	2°36	26°44	23° 9	2°53	0°37	1°35	2°48	21°16	n.a.	F 18
S 19	11 32 33	25° 3'01	28° 7	27°58	20° 7	29°19	2°50	26°51	23°11	2°52	0°38	1°23	2°45	21°22	n.a.	S 19
S 20	11 36 30	26° 1'30	10♈19	28°50	21°18	0♓ 5	3° 4	26°58	23°13	2°50	0°39	1°12	2°42	21°29	n.a.	S 20
M21	11 40 27	26°59'57	22°39	29°45	22°30	0°51	3°18	27° 4	23°15	2°48	0°40	1° 4	2°39	21°36	n.a.	M21
T 22	11 44 23	27°58'22	5♉ 8	0♓43	23°42	1°37	3°31	27°11	23°17	2°47	0°41	0°58	2°35	21°43	n.a.	T 22
W23	11 48 20	28°56'45	17°48	1°44	24°53	2°23	3°45	27°18	23°19	2°45	0°42	0°55	2°32	21°49	n.a.	W23
T 24	11 52 16	29°55'05	0♊42	2°47	26° 5	3° 9	3°59	27°25	23°21	2°44	0°43	0°D54	2°29	21°56	n.a.	T 24
F 25	11 56 13	0♈53'24	13°51	3°53	27°17	3°55	4°13	27°31	23°23	2°42	0°44	0°55	2°26	22° 3	n.a.	F 25
S 26	12 0 9	1°51'40	27°19	5° 2	28°29	4°41	4°26	27°38	23°25	2°40	0°45	0°R55	2°23	22°10	n.a.	S 26
S 27	12 4 6	2°49'55	11♋ 6	6°13	29°40	5°27	4°40	27°45	23°26	2°39	0°46	0°55	2°19	22°16	n.a.	S 27
M28	12 8 2	3°48'07	25°15	7°27	0♓52	6°13	4°53	27°51	23°28	2°37	0°47	0°53	2°16	22°23	n.a.	M28
T 29	12 11 59	4°46'17	9♌44	8°43	2° 4	6°59	5° 7	27°58	23°30	2°35	0°48	0°49	2°13	22°30	n.a.	T 29
W30	12 15 55	5°44'24	24°29	10° 1	3°16	7°45	5°20	28° 4	23°31	2°34	0°49	0°43	2°10	22°36	n.a.	W30
T 31	12 19 52	6♈42'30	9♍25	11♓22	4♓28	8♓31	5♓34	28♒11	23♉33	2♎32	0♒50	0♐35	2♐ 7	22♒43	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	8s53	16n13	4s12	11s19	2n14	20s44	0s 5	17s30	1s 9	13s 8	1s 6	15s 5	1s45	22s22	0s33	0n27	1n57	30s45	10s42	21s 6	21s 8	10s27			n.a.
W 2	8 31	11 51	4 46	11 45	1 59	20 33	0 9	17 16	1 9	13 3	1 6	15 3	1 45	22 21	0 33	0 28	1 58	30 45	10 42	21 4	21 8	10 25			n.a.
T 3	8 9	6 41	5 0	12 8	1 44	20 21	0 12	17 2	1 9	12 58	1 6	15 1	1 45	22 21	0 33	0 29	1 58	30 45	10 42	21 2	21 7	10 23			n.a.
F 4	7 46	1 7	4 53	12 30	1 29	20 8	0 15	16 48	1 9	12 53	1 7	14 58	1 45	22 20	0 33	0 29	1 58	30 45	10 42	21 0	21 6	10 20			n.a.
S 5	7 23	4s27	4 25	12 50	1 13	19 55	0 19	16 33	1 9	12 48	1 7	14 56	1 46	22 20	0 33	0 30	1 58	30 45	10 42	20 58	21 6	10 18			n.a.
S 6	7 1	9 39	3 40	13 8	0 58	19 41	0 22	16 19	1 9	12 43	1 7	14 53	1 46	22 20	0 33	0 31	1 58	30 44	10 43	20 56	21 5	10 16			n.a.
M 7	6 38	14 8	2 43	13 24	0 43	19 26	0 25	16 4	1 9	12 38	1 7	14 51	1 46	22 19	0 33	0 31	1 58	30 44	10 43	20 55	21 5	10 13			n.a.
T 8	6 15	17 42	1 37	13 38	0 28	19 11	0 28	15 49	1 9	12 33	1 7	14 49	1 46	22 19	0 33	0 32	1 58	30 44	10 43	20 54	21 4	10 11			n.a.
W 9	5 52	20 12	0 29	13 50	0 14	18 56	0 31	15 34	1 9	12 28	1 7	14 46	1 46	22 18	0 33	0 32	1 58	30 44	10 43	20 54	21 3	10 9			n.a.
T 10	5 29	21 33	0n39	14 0	0s 0	18 40	0 35	15 19	1 9	12 23	1 7	14 44	1 46	22 18	0 33	0 33	1 58	30 44	10 44	20 54	21 3	10 7			n.a.
F 11	5 6	21 46	1 43	14 8	0 14	18 23	0 38	15 3	1 9	12 18	1 7	14 42	1 46	22 18	0 33	0 34	1 58	30 44	10 44	20 54	21 2	10 4			n.a.
S 12	4 43	20 57	2 41	14 13	0 27	18 6	0 40	14 48	1 9	12 13	1 7	14 39	1 46	22 17	0 33	0 34	1 58	30 44	10 44	20 54	21 1	10 2			n.a.
S 13	4 20	19 11	3 31	14 17	0 39	17 49	0 43	14 32	1 9	12 8	1 7	14 37	1 46	22 17	0 33	0 35	1 58	30 44	10 44	20 53	21 1	10 0			n.a.
M14	3 56	16 36	4 11	14 18	0 51	17 31	0 46	14 16	1 9	12 3	1 7	14 34	1 47	22 17	0 33	0 36	1 58	30 44	10 45	20 52	21 0	9 57			n.a.
T 15	3 33	13 21	4 40	14 17	1 3	17 12	0 49	14 0	1 9	11 58	1 7	14 32	1 47	22 16	0 33	0 36	1 58	30 44	10 45	20 50	21 0	9 55			n.a.
W16	3 10	9 36	4 57	14 14	1 13	16 53	0 52	13 44	1 9	11 53	1 8	14 30	1 47	22 16	0 33	0 37	1 58	30 44	10 45	20 48	20 59	9 53			n.a.
T 17	2 46	5 27	5 1	14 10	1 23	16 33	0 54	13 28	1 9	11 48	1 8	14 28	1 47	22 16	0 33	0 38	1 58	30 44	10 45	20 46	20 58	9 50			n.a.
F 18	2 23	1 5	4 52	14 3	1 33	16 13	0 57	13 12	1 9	11 43	1 8	14 25	1 47	22 15	0 33	0 38	1 58	30 44	10 46	20 43	20 58	9 48			n.a.
S 19	1 59	3n22	4 30	13 54	1 42	15 53	0 59	12 55	1 9	11 38	1 8	14 23	1 47	22 15	0 33	0 39	1 58	30 44	10 46	20 40	20 57	9 46			n.a.
S 20	1 36	7 43	3 55	13 44	1 50	15 32	1 2	12 39	1 9	11 33	1 8	14 21	1 47	22 15	0 33	0 40	1 58	30 44	10 46	20 38	20 56	9 44			n.a.
M21	1 12	11 49	3 9	13 31	1 57	15 11	1 4	12 22	1 9	11 28	1 8	14 18	1 47	22 14	0 34	0 40	1 58	30 44	10 46	20 37	20 56	9 41			n.a.
T 22	0 49	15 28	2 13	13 17	2 4	14 49	1 6	12 6	1 9	11 23	1 8	14 16	1 48	22 14	0 34	0 41	1 58	30 44	10 47	20 35	20 55	9 39			n.a.
W23	0 25	18 27	1 9	13 1	2 11	14 27	1 9	11 49	1 9	11 18	1 8	14 14	1 48	22 14	0 34	0 42	1 58	30 44	10 47	20 35	20 55	9 37			n.a.
T 24	0 2	20 33	0 1	12 43	2 17	14 5	1 11	11 32	1 9	11 13	1 8	14 12	1 48	22 13	0 34	0 42	1 58	30 44	10 47	20 35	20 54	9 34			n.a.
F 25	0n21	21 35	1s 9	12 23	2 22	13 42	1 13	11 15	1 9	11 8	1 9	14 10	1 48	22 13	0 34	0 43	1 58	30 44	10 48	20 35	20 53	9 32			n.a.
S 26	0 45	21 25	2 16	12 2	2 26	13 18	1 15	10 58	1 9	11 3	1 9	14 7	1 48	22 13	0 34	0 44	1 58	30 44	10 48	20 35	20 53	9 30			n.a.
S 27	1 8	19 58	3 18	11 39	2 30	12 55	1 17	10 41	1 9	10 59	1 9	14 5	1 48	22 13	0 34	0 44	1 58	30 44	10 48	20 35	20 52	9 27			n.a.
M28	1 32	17 15	4 9	11 14	2 33	12 31	1 19	10 24	1 9	10 54	1 9	14 3	1 48	22 12	0 34	0 45	1 58	30 44	10 48	20 34	20 51	9 25			n.a.
T 29	1 55	13 26	4 45	10 48	2 36	12 6	1 20	10 6	1 9	10 49	1 9	14 1	1 49	22 12	0 34	0 46	1 58	30 44	10 49	20 34	20 51	9 23			n.a.
W30	2 18	8 44	5 4	10 20	2 38	11 42	1 22	9 49	1 9	10 44	1 9	13 59	1 49	22 12	0 34	0 46	1 58	30 44	10 49	20 32	20 50	9 21			n.a.
T 31	2n42	3n28	5s 2	9s50	2s40	11s17	1s24	9s32	1s 8	10s39	1s 9	13s57	1s49	22s12	0s34	0n47	1n58	30s44	10s49	20s31	20s49	9s18			n.a.

Julian Day Number = 1653911.5, Delta T = 03h29m28s
Ecliptic obliquity = 23°43'00, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'12, Lahiri = - 6°30'12 Julian Calendar 1 March 185 BCE == Greg. Calendar 27 Feb. 185 BCE

The year -184 astronomical counting style corresponds to year 185 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 185 BCE
geocentric

APRIL 185 BCE (-184) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 23 49	7♈40'33	24♍24	12♓44	5♓40	9♓16	5♓47	28♒17	23♑34	2°R30	0♒50	0°R27	2♐ 4	22♒50	n.a.	F 1
S 2	12 27 45	8°38'35	9♎15	14° 9	6°52	10° 2	6° 0	28°23	23°36	2♎29	0°51	0♐20	2° 0	22°57	n.a.	S 2
S 3	12 31 42	9°36'35	23°50	15°36	8° 4	10°48	6°14	28°30	23°37	2°27	0°52	0°14	1°57	23° 3	n.a.	S 3
M 4	12 35 38	10°34'34	8♏ 4	17° 5	9°15	11°33	6°27	28°36	23°39	2°26	0°53	0° 9	1°54	23°10	n.a.	M 4
T 5	12 39 35	11°32'31	21°52	18°36	10°27	12°19	6°40	28°42	23°40	2°24	0°54	0° 7	1°51	23°17	n.a.	T 5
W 6	12 43 31	12°30'26	5♐13	20° 9	11°39	13° 4	6°53	28°48	23°41	2°22	0°54	0°D 7	1°48	23°23	n.a.	W 6
T 7	12 47 28	13°28'20	18° 8	21°43	12°52	13°50	7° 6	28°54	23°42	2°21	0°55	0° 8	1°45	23°30	n.a.	T 7
F 8	12 51 24	14°26'13	0♑42	23°20	14° 4	14°35	7°19	29° 0	23°44	2°19	0°56	0° 9	1°41	23°37	n.a.	F 8
S 9	12 55 21	15°24'04	12°58	24°59	15°16	15°20	7°32	29° 6	23°45	2°18	0°56	0°R10	1°38	23°44	n.a.	S 9
S 10	12 59 18	16°21'54	25° 0	26°40	16°28	16° 6	7°45	29°12	23°46	2°16	0°57	0°10	1°35	23°50	n.a.	S 10
M11	13 3 14	17°19'43	6♒55	28°23	17°40	16°51	7°58	29°18	23°47	2°14	0°58	0° 8	1°32	23°57	n.a.	M11
T 12	13 7 11	18°17'30	18°47	0♈ 8	18°52	17°36	8°10	29°24	23°48	2°13	0°58	0° 4	1°29	24° 4	n.a.	T 12
W13	13 11 7	19°15'16	0♓39	1°55	20° 4	18°21	8°23	29°30	23°49	2°11	0°59	29♏58	1°25	24°11	n.a.	W13
T 14	13 15 4	20°13'01	12°36	3°43	21°16	19° 7	8°35	29°35	23°50	2°10	0°59	29°52	1°22	24°17	n.a.	T 14
F 15	13 19 0	21°10'44	24°40	5°34	22°29	19°52	8°48	29°41	23°51	2° 8	1° 0	29°45	1°19	24°24	n.a.	F 15
S 16	13 22 57	22° 8'26	6♈53	7°27	23°41	20°37	9° 0	29°46	23°51	2° 7	1° 0	29°38	1°16	24°31	n.a.	S 16
S 17	13 26 53	23° 6'07	19°17	9°22	24°53	21°22	9°13	29°52	23°52	2° 5	1° 1	29°32	1°13	24°37	n.a.	S 17
M18	13 30 50	24° 3'46	1♉52	11°18	26° 5	22° 7	9°25	29°57	23°53	2° 4	1° 1	29°28	1°10	24°44	n.a.	M18
T 19	13 34 47	25° 1'24	14°39	13°17	27°18	22°51	9°37	0♓ 3	23°54	2° 2	1° 2	29°25	1° 6	24°51	n.a.	T 19
W20	13 38 43	25°59'01	27°39	15°17	28°30	23°36	9°49	0° 8	23°54	2° 1	1° 2	29°D24	1° 3	24°58	n.a.	W20
T 21	13 42 40	26°56'36	10♊50	17°19	29°42	24°21	10° 1	0°13	23°55	1°59	1° 2	29°25	1° 0	25° 4	n.a.	T 21
F 22	13 46 36	27°54'09	24°15	19°23	0♈55	25° 6	10°13	0°18	23°55	1°58	1° 3	29°26	0°57	25°11	n.a.	F 22
S 23	13 50 33	28°51'41	7♋53	21°29	2° 7	25°50	10°25	0°23	23°56	1°56	1° 3	29°27	0°54	25°18	n.a.	S 23
S 24	13 54 29	29°49'12	21°45	23°36	3°19	26°35	10°37	0°28	23°56	1°55	1° 3	29°28	0°50	25°24	n.a.	S 24
M25	13 58 26	0♉46'41	5♌50	25°44	4°32	27°19	10°49	0°33	23°56	1°54	1° 4	29°R29	0°47	25°31	n.a.	M25
T 26	14 2 22	1°44'08	20° 7	27°53	5°44	28° 4	11° 0	0°38	23°57	1°52	1° 4	29°28	0°44	25°38	n.a.	T 26
W27	14 6 19	2°41'34	4♍33	0♉ 4	6°56	28°48	11°12	0°43	23°57	1°51	1° 4	29°25	0°41	25°45	n.a.	W27
T 28	14 10 16	3°38'59	19° 5	2°15	8° 9	29°33	11°23	0°48	23°57	1°50	1° 4	29°22	0°38	25°51	n.a.	T 28
F 29	14 14 12	4°36'22	3♎37	4°26	9°21	0♈17	11°35	0°52	23°57	1°48	1° 4	29°19	0°35	25°58	n.a.	F 29
S 30	14 18 9	5♉33'44	18♎ 3	6♉38	10♈34	1♈ 1	11♓46	0♓57	23♑58	1♎47	1♒ 4	29♏16	0♐31	26♒ 5	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	3n 5	2s 1	4s40	9s19	2s41	10s52	1s25	9s14	1s 8	10s34	1s 9	13s55	1s49	22s11	0s34	0n48	1n58	30s44	10s50	20s29	20s49	9s16		n.a.
S 2	3 28	7 21	3 58	8 47	2 41	10 26	1 27	8 57	1 8	10 29	1 10	13 52	1 49	22 11	0 34	0 48	1 58	30 45	10 50	20 27	20 48	9 14		n.a.
S 3	3 51	12 10	3 2	8 12	2 41	10 0	1 28	8 39	1 8	10 24	1 10	13 50	1 49	22 11	0 34	0 49	1 58	30 45	10 50	20 26	20 48	9 11		n.a.
M 4	4 14	16 11	1 56	7 37	2 40	9 34	1 29	8 21	1 8	10 20	1 10	13 48	1 50	22 11	0 34	0 49	1 58	30 45	10 50	20 25	20 47	9 9		n.a.
T 5	4 37	19 9	0 44	6 59	2 39	9 8	1 31	8 4	1 8	10 15	1 10	13 46	1 50	22 10	0 34	0 50	1 58	30 45	10 51	20 25	20 46	9 7		n.a.
W 6	5 0	20 58	0n27	6 21	2 37	8 41	1 32	7 46	1 8	10 10	1 10	13 44	1 50	22 10	0 34	0 51	1 58	30 45	10 51	20 25	20 46	9 4		n.a.
T 7	5 23	21 35	1 36	5 40	2 34	8 14	1 33	7 28	1 7	10 5	1 10	13 42	1 50	22 10	0 34	0 51	1 58	30 45	10 51	20 25	20 45	9 2		n.a.
F 8	5 45	21 5	2 37	4 59	2 31	7 47	1 34	7 10	1 7	10 1	1 10	13 40	1 50	22 10	0 34	0 52	1 58	30 45	10 52	20 25	20 44	9 0		n.a.
S 9	6 8	19 35	3 31	4 16	2 27	7 20	1 35	6 52	1 7	9 56	1 11	13 38	1 50	22 10	0 34	0 53	1 58	30 45	10 52	20 25	20 44	8 57		n.a.
S 10	6 30	17 14	4 13	3 31	2 23	6 52	1 36	6 34	1 7	9 51	1 11	13 36	1 51	22 10	0 34	0 53	1 58	30 46	10 52	20 25	20 43	8 55		n.a.
M11	6 53	14 10	4 44	2 46	2 18	6 24	1 36	6 16	1 7	9 46	1 11	13 35	1 51	22 9	0 34	0 54	1 58	30 46	10 53	20 25	20 42	8 53		n.a.
T 12	7 15	10 34	5 3	1 59	2 13	5 56	1 37	5 58	1 6	9 42	1 11	13 33	1 51	22 9	0 34	0 55	1 58	30 46	10 53	20 24	20 42	8 50		n.a.
W13	7 37	6 33	5 9	1 10	2 7	5 28	1 38	5 40	1 6	9 37	1 11	13 31	1 51	22 9	0 34	0 55	1 58	30 46	10 53	20 23	20 41	8 48		n.a.
T 14	7 59	2 16	5 2	0 21	2 1	5 0	1 38	5 22	1 6	9 33	1 11	13 29	1 51	22 9	0 34	0 56	1 58	30 46	10 54	20 21	20 40	8 46		n.a.
F 15	8 21	2n 9	4 41	0n30	1 54	4 32	1 39	5 4	1 6	9 28	1 11	13 27	1 52	22 9	0 34	0 56	1 58	30 47	10 54	20 20	20 40	8 44		n.a.
S 16	8 43	6 32	4 7	1 21	1 47	4 3	1 39	4 46	1 6	9 23	1 12	13 25	1 52	22 9	0 34	0 57	1 58	30 47	10 54	20 18	20 39	8 41		n.a.
S 17	9 5	10 43	3 21	2 14	1 39	3 34	1 39	4 28	1 5	9 19	1 12	13 24	1 52	22 9	0 34	0 58	1 58	30 47	10 55	20 17	20 38	8 39		n.a.
M18	9 26	14 31	2 24	3 8	1 31	3 6	1 40	4 10	1 5	9 14	1 12	13 22	1 52	22 9	0 34	0 58	1 58	30 47	10 55	20 16	20 38	8 37		n.a.
T 19	9 48	17 41	1 20	4 3	1 22	2 37	1 40	3 51	1 5	9 10	1 12	13 20	1 52	22 9	0 34	0 59	1 58	30 47	10 55	20 16	20 37	8 34		n.a.
W20	10 9	20 1	0 10	4 58	1 13	2 8	1 40	3 33	1 5	9 5	1 12	13 18	1 53	22 8	0 35	0 59	1 58	30 48	10 56	20 15	20 36	8 32		n.a.
T 21	10 30	21 18	1s 2	5 54	1 3	1 39	1 40	3 15	1 4	9 1	1 12	13 17	1 53	22 8	0 35	1 0	1 58	30 48	10 56	20 15	20 36	8 30		n.a.
F 22	10 51	21 24	2 12	6 51	0 54	1 10	1 40	2 57	1 4	8 56	1 13	13 15	1 53	22 8	0 35	1 0	1 58	30 48	10 56	20 16	20 35	8 27		n.a.
S 23	11 12	20 14	3 15	7 48	0 44	0 40	1 40	2 39	1 4	8 52	1 13	13 13	1 53	22 8	0 35	1 1	1 58	30 48	10 57	20 16	20 34	8 25		n.a.
S 24	11 32	17 51	4 8	8 45	0 33	0 11	1 40	2 21	1 3	8 48	1 13	13 12	1 53	22 8	0 35	1 1	1 58	30 49	10 57	20 16	20 34	8 23		n.a.
M25	11 53	14 24	4 47	9 42	0 23	0n18	1 39	2 2	1 3	8 43	1 13	13 10	1 54	22 8	0 35	1 2	1 58	30 49	10 57	20 16	20 33	8 20		n.a.
T 26	12 13	10 3	5 9	10 39	0 12	0 47	1 39	1 44	1 3	8 39	1 13	13 9	1 54	22 8	0 35	1 3	1 58	30 49	10 58	20 16	20 32	8 18		n.a.
W27	12 33	5 7	5 12	11 36	0 2	1 17	1 39	1 26	1 3	8 35	1 14	13 7	1 54	22 8	0 35	1 3	1 58	30 49	10 58	20 16	20 32	8 16		n.a.
T 28	12 53	0s 9	4 55	12 32	0n 9	1 46	1 38	1 8	1 2	8 31	1 14	13 6	1 54	22 8	0 35	1 4	1 58	30 50	10 58	20 15	20 31	8 13		n.a.
F 29	13 12	5 24	4 19	13 27	0 19	2 15	1 38	0 50	1 2	8 26	1 14	13 4	1 55	22 8	0 35	1 4	1 57	30 50	10 59	20 14	20 30	8 11		n.a.
S 30	13n32	10s20	3s27	14n21	0n30	2n45	1s37	0s32	1s 2	8s22	1s14	13s 3	1s55	22s 8	0s35	1n 5	1n57	30s50	10s59	20s13	20s30	8s 9		n.a.

Julian Day Number = 1653942.5, Delta T = 03h29m27s
Ecliptic obliquity = 23°43'00, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'08, Lahiri = - 6°30'07 Julian Calendar 1 Apr. 185 BCE == Greg. Calendar 29 March 185 BCE

The year -184 astronomical counting style corresponds to year 185 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 185 BCE
geocentric

MAY 185 BCE (-184) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 22 5	6♉31'05	2♏17	8♉49	11♈46	1♈45	11♓57	1♓ 2	23♑58	1°R46	1♒ 5	29°R13	0♐28	26♒12	n.a.	S 1
M 2	14 26 2	7°28'25	16°15	11° 1	12°59	2°29	12° 8	1° 6	23°R58	1♎44	1° 5	29♏12	0°25	26°18	n.a.	M 2
T 3	14 29 58	8°25'44	29°53	13°11	14°11	3°14	12°19	1°10	23°58	1°43	1° 5	29°D11	0°22	26°25	n.a.	T 3
W 4	14 33 55	9°23'02	13♐ 9	15°21	15°24	3°58	12°30	1°15	23°58	1°42	1° 5	29°12	0°19	26°32	n.a.	W 4
T 5	14 37 51	10°20'20	26° 3	17°30	16°36	4°42	12°41	1°19	23°57	1°41	1°R 5	29°13	0°16	26°38	n.a.	T 5
F 6	14 41 48	11°17'37	8♑38	19°37	17°49	5°25	12°51	1°23	23°57	1°40	1° 5	29°14	0°12	26°45	n.a.	F 6
S 7	14 45 45	12°14'53	20°56	21°43	19° 1	6° 9	13° 2	1°27	23°57	1°38	1° 5	29°15	0° 9	26°52	n.a.	S 7
S 8	14 49 41	13°12'09	3♒ 2	23°47	20°14	6°53	13°12	1°31	23°57	1°37	1° 5	29°16	0° 6	26°59	n.a.	S 8
M 9	14 53 38	14° 9'24	14°59	25°49	21°27	7°37	13°23	1°35	23°56	1°36	1° 5	29°R17	0° 3	27° 5	n.a.	M 9
T 10	14 57 34	15° 6'38	26°52	27°50	22°39	8°21	13°33	1°38	23°56	1°35	1° 5	29°16	29♏59	27°12	n.a.	T 10
W11	15 1 31	16° 3'52	8♓47	29°48	23°52	9° 4	13°43	1°42	23°56	1°34	1° 4	29°15	29°56	27°19	n.a.	W11
T 12	15 5 27	17° 1'06	20°46	1♊44	25° 5	9°48	13°53	1°46	23°55	1°33	1° 4	29°14	29°53	27°25	n.a.	T 12
F 13	15 9 24	17°58'19	2♈54	3°37	26°17	10°31	14° 3	1°49	23°55	1°32	1° 4	29°12	29°50	27°32	n.a.	F 13
S 14	15 13 20	18°55'32	15°14	5°29	27°30	11°15	14°13	1°53	23°54	1°31	1° 4	29°11	29°47	27°39	n.a.	S 14
S 15	15 17 17	19°52'44	27°49	7°18	28°43	11°58	14°23	1°56	23°54	1°30	1° 4	29°10	29°44	27°46	n.a.	S 15
M16	15 21 14	20°49'56	10♉39	9° 4	29°56	12°41	14°32	1°59	23°53	1°29	1° 3	29° 9	29°41	27°52	n.a.	M16
T 17	15 25 10	21°47'07	23°46	10°48	1♉ 8	13°25	14°42	2° 2	23°52	1°28	1° 3	29°D 9	29°37	27°59	n.a.	T 17
W18	15 29 7	22°44'18	7♊ 8	12°30	2°21	14° 8	14°51	2° 6	23°52	1°27	1° 3	29° 9	29°34	28° 6	n.a.	W18
T 19	15 33 3	23°41'29	20°44	14°10	3°34	14°51	15° 0	2° 9	23°51	1°26	1° 2	29° 9	29°31	28°13	n.a.	T 19
F 20	15 37 0	24°38'39	4♋33	15°46	4°47	15°34	15° 9	2°11	23°50	1°26	1° 2	29° 9	29°28	28°19	n.a.	F 20
S 21	15 40 56	25°35'48	18°33	17°21	6° 0	16°17	15°18	2°14	23°49	1°25	1° 2	29°10	29°25	28°26	n.a.	S 21
S 22	15 44 53	26°32'57	2♌40	18°53	7°12	17° 0	15°27	2°17	23°48	1°24	1° 1	29°10	29°22	28°33	n.a.	S 22
M23	15 48 49	27°30'05	16°52	20°22	8°25	17°43	15°36	2°20	23°47	1°23	1° 1	29°10	29°18	28°39	n.a.	M23
T 24	15 52 46	28°27'12	1♍ 6	21°49	9°38	18°25	15°45	2°22	23°46	1°22	1° 0	29°R10	29°15	28°46	n.a.	T 24
W25	15 56 43	29°24'19	15°21	23°14	10°51	19° 8	15°53	2°24	23°45	1°22	1° 0	29°D10	29°12	28°53	n.a.	W25
T 26	16 0 39	0♊21'25	29°33	24°35	12° 4	19°51	16° 1	2°27	23°44	1°21	0°59	29°10	29° 9	29° 0	n.a.	T 26
F 27	16 4 36	1°18'31	13♎39	25°55	13°17	20°33	16°10	2°29	23°43	1°20	0°59	29°10	29° 6	29° 6	n.a.	F 27
S 28	16 8 32	2°15'37	27°37	27°11	14°30	21°16	16°18	2°31	23°42	1°20	0°58	29°11	29° 2	29°13	n.a.	S 28
S 29	16 12 29	3°12'42	11♏24	28°25	15°43	21°58	16°25	2°33	23°41	1°19	0°58	29°11	28°59	29°20	n.a.	S 29
M30	16 16 25	4° 9'47	24°58	29°36	16°56	22°41	16°33	2°35	23°39	1°19	0°57	29°R11	28°56	29°27	n.a.	M30
T 31	16 20 22	5♊ 6'52	8♐16	0♋44	18♉ 9	23♈23	16♓41	2♓37	23♑38	1♎18	0♒57	29♏11	28♏53	29♒33	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	13n51	14s38	2s23	15n14	0n40	3n14	1s36	0s14	1s 1	8s18	1s14	13s 1	1s55	22s 8	0s35	1n 5	1n57	30s50	10s59	20s13	20s29	8s 6			n.a.
M 2	14 10	18 1	1 11	16 5	0 49	3 43	1 35	0n 4	1 1	8 14	1 15	13 0	1 55	22 8	0 35	1 6	1 57	30 51	11 0	20 13	20 28	8 4			n.a.
T 3	14 29	20 18	0n 4	16 55	0 59	4 12	1 35	0 22	1 1	8 10	1 15	12 59	1 55	22 8	0 35	1 6	1 57	30 51	11 0	20 12	20 28	8 2			n.a.
W 4	14 47	21 23	1 16	17 42	1 8	4 41	1 34	0 40	1 0	8 6	1 15	12 57	1 56	22 8	0 35	1 6	1 57	30 51	11 0	20 13	20 27	7 59			n.a.
T 5	15 5	21 17	2 23	18 28	1 16	5 10	1 33	0 58	1 0	8 2	1 15	12 56	1 56	22 8	0 35	1 7	1 57	30 52	11 1	20 13	20 26	7 57			n.a.
F 6	15 24	20 6	3 21	19 12	1 24	5 39	1 32	1 16	0 59	7 58	1 15	12 55	1 56	22 8	0 35	1 7	1 57	30 52	11 1	20 13	20 26	7 55			n.a.
S 7	15 41	17 59	4 8	19 53	1 32	6 8	1 31	1 34	0 59	7 54	1 16	12 54	1 56	22 9	0 35	1 8	1 57	30 52	11 1	20 13	20 25	7 52			n.a.
S 8	15 59	15 7	4 43	20 31	1 38	6 37	1 30	1 52	0 59	7 50	1 16	12 52	1 57	22 9	0 35	1 8	1 57	30 53	11 2	20 14	20 24	7 50			n.a.
M 9	16 16	11 39	5 6	21 8	1 44	7 6	1 28	2 10	0 58	7 46	1 16	12 51	1 57	22 9	0 35	1 9	1 57	30 53	11 2	20 14	20 24	7 48			n.a.
T 10	16 33	7 45	5 16	21 41	1 50	7 34	1 27	2 28	0 58	7 43	1 16	12 50	1 57	22 9	0 35	1 9	1 57	30 53	11 2	20 14	20 23	7 45			n.a.
W11	16 50	3 34	5 12	22 12	1 55	8 2	1 26	2 45	0 58	7 39	1 17	12 49	1 57	22 9	0 35	1 9	1 57	30 54	11 2	20 13	20 22	7 43			n.a.
T 12	17 7	0n48	4 54	22 41	1 59	8 30	1 24	3 3	0 57	7 35	1 17	12 48	1 58	22 9	0 35	1 10	1 57	30 54	11 3	20 13	20 22	7 41			n.a.
F 13	17 23	5 11	4 23	23 7	2 2	8 58	1 23	3 21	0 57	7 32	1 17	12 47	1 58	22 9	0 35	1 10	1 57	30 54	11 3	20 13	20 21	7 38			n.a.
S 14	17 39	9 26	3 40	23 30	2 4	9 26	1 21	3 38	0 56	7 28	1 17	12 46	1 58	22 9	0 35	1 10	1 57	30 55	11 3	20 12	20 20	7 36			n.a.
S 15	17 55	13 23	2 45	23 51	2 6	9 54	1 20	3 56	0 56	7 24	1 17	12 45	1 58	22 9	0 35	1 11	1 57	30 55	11 4	20 12	20 20	7 34			n.a.
M16	18 10	16 47	1 41	24 10	2 7	10 21	1 18	4 13	0 55	7 21	1 18	12 44	1 59	22 10	0 35	1 11	1 57	30 55	11 4	20 12	20 19	7 32			n.a.
T 17	18 25	19 25	0 30	24 26	2 8	10 48	1 17	4 31	0 55	7 17	1 18	12 43	1 59	22 10	0 35	1 11	1 57	30 56	11 4	20 12	20 18	7 29			n.a.
W18	18 40	21 2	0s44	24 40	2 7	11 15	1 15	4 48	0 55	7 14	1 18	12 42	1 59	22 10	0 35	1 12	1 57	30 56	11 5	20 12	20 18	7 27			n.a.
T 19	18 55	21 27	1 57	24 51	2 6	11 42	1 13	5 5	0 54	7 11	1 18	12 41	1 59	22 10	0 36	1 12	1 57	30 57	11 5	20 12	20 17	7 25			n.a.
F 20	19 9	20 34	3 4	25 1	2 5	12 9	1 11	5 22	0 54	7 7	1 19	12 40	2 0	22 10	0 36	1 12	1 57	30 57	11 5	20 12	20 16	7 22			n.a.
S 21	19 23	18 26	4 1	25 8	2 2	12 35	1 10	5 39	0 53	7 4	1 19	12 40	2 0	22 10	0 36	1 13	1 57	30 57	11 6	20 12	20 15	7 20			n.a.
S 22	19 36	15 11	4 44	25 13	1 59	13 1	1 8	5 57	0 53	7 1	1 19	12 39	2 0	22 11	0 36	1 13	1 57	30 58	11 6	20 12	20 15	7 18			n.a.
M23	19 50	11 3	5 10	25 17	1 55	13 26	1 6	6 14	0 52	6 57	1 19	12 38	2 0	22 11	0 36	1 13	1 56	30 58	11 6	20 12	20 14	7 15			n.a.
T 24	20 3	6 16	5 17	25 18	1 51	13 51	1 4	6 30	0 52	6 54	1 20	12 37	2 1	22 11	0 36	1 13	1 56	30 59	11 7	20 12	20 13	7 13			n.a.
W25	20 15	1 10	5 4	25 18	1 46	14 16	1 2	6 47	0 51	6 51	1 20	12 37	2 1	22 11	0 36	1 14	1 56	30 59	11 7	20 12	20 13	7 11			n.a.
T 26	20 28	3s59	4 34	25 16	1 40	14 41	1 0	7 4	0 51	6 48	1 20	12 36	2 1	22 11	0 36	1 14	1 56	30 59	11 7	20 12	20 12	7 8			n.a.
F 27	20 40	8 55	3 46	25 13	1 34	15 5	0 58	7 21	0 50	6 45	1 20	12 36	2 1	22 12	0 36	1 14	1 56	31 0	11 7	20 12	20 11	7 6			n.a.
S 28	20 51	13 19	2 46	25 8	1 27	15 29	0 56	7 37	0 50	6 42	1 21	12 35	2 2	22 12	0 36	1 14	1 56	31 0	11 8	20 12	20 11	7 4			n.a.
S 29	21 2	16 58	1 37	25 2	1 19	15 53	0 54	7 54	0 49	6 39	1 21	12 35	2 2	22 12	0 36	1 14	1 56	31 1	11 8	20 12	20 10	7 1			n.a.
M30	21 13	19 36	0 23	24 54	1 11	16 16	0 51	8 10	0 49	6 37	1 21	12 34	2 2	22 12	0 36	1 15	1 56	31 1	11 8	20 12	20 9	6 59			n.a.
T 31	21n24	21s 7	0n50	24n46	1n 3	16n39	0s49	8n26	0s48	6s34	1s22	12s34	2s 2	22s13	0s36	1n15	1n56	31s 1	11s 9	20s12	20s 8	6s57			n.a.

Julian Day Number = 1653972.5, Delta T = 03h29m26s
Ecliptic obliquity = 23°42'59, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'04, Lahiri = - 6°30'03 Julian Calendar 1 May 185 BCE == Greg. Calendar 28 Apr. 185 BCE

The year -184 astronomical counting style corresponds to year 185 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 185 BCE
geocentric

JUNE 185 BCE (-184) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 24 18	6♊ 3'57	21♐19	1♋49	19♉22	24♈ 5	16♓48	2♓39	23°R37	1°R18	0°R56	29°R11	28♏50	29♒40	n.a.	W 1
T 2	16 28 15	7° 1'02	4♑ 5	2°52	20°35	24°47	16°56	2°40	23♑35	1♎17	0♒55	29♏10	28°47	29°47	n.a.	T 2
F 3	16 32 12	7°58'07	16°35	3°51	21°48	25°30	17° 3	2°42	23°34	1°17	0°55	29° 9	28°43	29°53	n.a.	F 3
S 4	16 36 8	8°55'13	28°52	4°47	23° 2	26°12	17°10	2°43	23°32	1°16	0°54	29° 8	28°40	0♓ 0	n.a.	S 4
S 5	16 40 5	9°52'18	10♒57	5°39	24°15	26°54	17°17	2°45	23°31	1°16	0°53	29° 6	28°37	0° 7	n.a.	S 5
M 6	16 44 1	10°49'24	22°55	6°29	25°28	27°36	17°24	2°46	23°29	1°16	0°53	29° 5	28°34	0°14	n.a.	M 6
T 7	16 47 58	11°46'31	4♓49	7°14	26°41	28°17	17°30	2°47	23°28	1°15	0°52	29° 5	28°31	0°20	n.a.	T 7
W 8	16 51 54	12°43'38	16°43	7°56	27°54	28°59	17°37	2°48	23°26	1°15	0°51	29°D 5	28°28	0°27	n.a.	W 8
T 9	16 55 51	13°40'45	28°42	8°35	29° 8	29°41	17°43	2°49	23°25	1°15	0°50	29° 5	28°24	0°34	n.a.	T 9
F 10	16 59 47	14°37'53	10♈52	9° 9	0♊21	0♉23	17°49	2°50	23°23	1°15	0°50	29° 6	28°21	0°41	n.a.	F 10
S 11	17 3 44	15°35'02	23°15	9°39	1°34	1° 4	17°55	2°51	23°21	1°15	0°49	29° 7	28°18	0°47	n.a.	S 11
S 12	17 7 41	16°32'11	5♉56	10° 5	2°47	1°46	18° 1	2°51	23°19	1°14	0°48	29° 9	28°15	0°54	n.a.	S 12
M13	17 11 37	17°29'21	18°56	10°27	4° 1	2°27	18° 6	2°52	23°18	1°14	0°47	29°10	28°12	1° 1	n.a.	M13
T 14	17 15 34	18°26'31	2♊19	10°44	5°14	3° 8	18°12	2°52	23°16	1°14	0°46	29°R10	28° 8	1° 7	n.a.	T 14
W15	17 19 30	19°23'42	16° 2	10°57	6°28	3°50	18°17	2°53	23°14	1°14	0°45	29° 9	28° 5	1°14	n.a.	W15
T 16	17 23 27	20°20'54	0♋ 4	11° 5	7°41	4°31	18°22	2°53	23°12	1°D14	0°44	29° 7	28° 2	1°21	n.a.	T 16
F 17	17 27 23	21°18'06	14°20	11°R 8	8°55	5°12	18°27	2°53	23°10	1°14	0°43	29° 5	27°59	1°28	n.a.	F 17
S 18	17 31 20	22°15'18	28°47	11° 6	10° 8	5°53	18°32	2°R53	23° 8	1°14	0°42	29° 2	27°56	1°34	n.a.	S 18
S 19	17 35 17	23°12'31	13♌17	11° 0	11°22	6°34	18°37	2°53	23° 6	1°14	0°42	28°59	27°53	1°41	n.a.	S 19
M20	17 39 13	24° 9'44	27°46	10°48	12°35	7°15	18°41	2°53	23° 4	1°14	0°41	28°56	27°49	1°48	n.a.	M20
T 21	17 43 10	25° 6'57	12♍ 8	10°32	13°49	7°56	18°45	2°53	23° 2	1°14	0°40	28°54	27°46	1°54	n.a.	T 21
W22	17 47 6	26° 4'11	26°21	10°11	15° 2	8°37	18°50	2°52	23° 0	1°15	0°39	28°D54	27°43	2° 1	n.a.	W22
T 23	17 51 3	27° 1'25	10♎22	9°46	16°16	9°17	18°53	2°52	22°58	1°15	0°37	28°54	27°40	2° 8	n.a.	T 23
F 24	17 54 59	27°58'39	24°10	9°16	17°29	9°58	18°57	2°51	22°56	1°15	0°36	28°56	27°37	2°15	n.a.	F 24
S 25	17 58 56	28°55'54	7♏45	8°42	18°43	10°38	19° 1	2°51	22°54	1°15	0°35	28°57	27°33	2°21	n.a.	S 25
S 26	18 2 52	29°53'10	21° 8	8° 5	19°57	11°19	19° 4	2°50	22°52	1°16	0°34	28°58	27°30	2°28	n.a.	S 26
M27	18 6 49	0♋50'26	4♐17	7°26	21°10	11°59	19° 7	2°49	22°50	1°16	0°33	28°R58	27°27	2°35	n.a.	M27
T 28	18 10 46	1°47'44	17°14	6°44	22°24	12°40	19°10	2°48	22°48	1°16	0°32	28°57	27°24	2°42	n.a.	T 28
W29	18 14 42	2°45'02	29°58	6° 0	23°38	13°20	19°13	2°47	22°45	1°17	0°31	28°54	27°21	2°48	n.a.	W29
T 30	18 18 39	3♋42'20	12♑31	5♋15	24♊52	14♉ 0	19♓16	2♓46	22♑43	1♎17	0♒30	28♏50	27♏18	2♓55	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21n34	21s26	2n 0	24n36	0n53	17n 1	0s47	8n43	0s48	6s31	1s22	12s33	2s 3	22s13	0s36	1n15	1n56	31s 2	11s 9	20s12	20s 8	6s54		n.a.
T 2	21 44	20 38	3 1	24 25	0 44	17 23	0 45	8 59	0 47	6 29	1 22	12 33	2 3	22 13	0 36	1 15	1 56	31 2	11 9	20 12	20 7	6 52		n.a.
F 3	21 53	18 49	3 53	24 13	0 33	17 45	0 43	9 15	0 47	6 26	1 22	12 33	2 3	22 13	0 36	1 15	1 56	31 3	11 10	20 12	20 6	6 50		n.a.
S 4	22 3	16 10	4 33	24 0	0 22	18 6	0 40	9 31	0 46	6 23	1 23	12 32	2 4	22 14	0 36	1 15	1 56	31 3	11 10	20 12	20 6	6 47		n.a.
S 5	22 11	12 52	5 0	23 47	0 11	18 26	0 38	9 47	0 46	6 21	1 23	12 32	2 4	22 14	0 36	1 15	1 56	31 4	11 10	20 11	20 5	6 45		n.a.
M 6	22 20	9 5	5 14	23 33	0s 1	18 46	0 36	10 2	0 45	6 19	1 23	12 32	2 4	22 14	0 36	1 15	1 56	31 4	11 10	20 11	20 4	6 43		n.a.
T 7	22 28	4 59	5 15	23 18	0 13	19 6	0 33	10 18	0 44	6 16	1 23	12 32	2 4	22 15	0 36	1 16	1 56	31 5	11 11	20 11	20 4	6 40		n.a.
W 8	22 35	0 41	5 1	23 3	0 26	19 25	0 31	10 33	0 44	6 14	1 24	12 32	2 5	22 15	0 36	1 16	1 56	31 5	11 11	20 11	20 3	6 38		n.a.
T 9	22 42	3n41	4 35	22 47	0 39	19 44	0 28	10 49	0 43	6 12	1 24	12 32	2 5	22 15	0 36	1 16	1 56	31 5	11 11	20 11	20 2	6 36		n.a.
F 10	22 49	7 57	3 56	22 32	0 52	20 2	0 26	11 4	0 43	6 10	1 24	12 31	2 5	22 16	0 36	1 16	1 55	31 6	11 11	20 11	20 1	6 33		n.a.
S 11	22 56	12 0	3 5	22 16	1 6	20 20	0 24	11 19	0 42	6 8	1 25	12 31	2 5	22 16	0 36	1 16	1 55	31 6	11 12	20 12	20 1	6 31		n.a.
S 12	23 2	15 36	2 5	22 0	1 20	20 37	0 21	11 34	0 42	6 5	1 25	12 31	2 6	22 16	0 36	1 16	1 55	31 7	11 12	20 12	20 0	6 29		n.a.
M13	23 7	18 33	0 56	21 44	1 35	20 53	0 19	11 49	0 41	6 4	1 25	12 32	2 6	22 17	0 36	1 16	1 55	31 7	11 12	20 12	19 59	6 26		n.a.
T 14	23 12	20 35	0s17	21 28	1 49	21 9	0 16	12 4	0 40	6 2	1 26	12 32	2 6	22 17	0 36	1 16	1 55	31 8	11 12	20 12	19 59	6 24		n.a.
W15	23 17	21 27	1 32	21 12	2 4	21 25	0 14	12 19	0 40	6 0	1 26	12 32	2 7	22 17	0 36	1 16	1 55	31 8	11 13	20 12	19 58	6 22		n.a.
T 16	23 22	21 1	2 42	20 57	2 18	21 39	0 11	12 34	0 39	5 58	1 26	12 32	2 7	22 18	0 36	1 16	1 55	31 9	11 13	20 12	19 57	6 19		n.a.
F 17	23 26	19 14	3 43	20 42	2 33	21 54	0 9	12 48	0 38	5 56	1 26	12 32	2 7	22 18	0 36	1 16	1 55	31 9	11 13	20 11	19 56	6 17		n.a.
S 18	23 29	16 13	4 31	20 28	2 47	22 7	0 7	13 3	0 38	5 55	1 27	12 32	2 7	22 18	0 36	1 15	1 55	31 9	11 13	20 10	19 56	6 15		n.a.
S 19	23 32	12 12	5 2	20 14	3 2	22 20	0 4	13 17	0 37	5 53	1 27	12 33	2 8	22 19	0 36	1 15	1 55	31 10	11 14	20 10	19 55	6 12		n.a.
M20	23 35	7 29	5 14	20 1	3 16	22 32	0 2	13 31	0 37	5 52	1 27	12 33	2 8	22 19	0 36	1 15	1 55	31 10	11 14	20 9	19 54	6 10		n.a.
T 21	23 37	2 23	5 5	19 49	3 29	22 44	0n 1	13 45	0 36	5 50	1 28	12 33	2 8	22 19	0 36	1 15	1 55	31 11	11 14	20 9	19 53	6 8		n.a.
W22	23 39	2s47	4 39	19 38	3 42	22 55	0 3	13 59	0 35	5 49	1 28	12 34	2 8	22 20	0 36	1 15	1 55	31 11	11 14	20 9	19 53	6 5		n.a.
T 23	23 41	7 45	3 55	19 28	3 54	23 5	0 6	14 12	0 35	5 48	1 28	12 34	2 9	22 20	0 36	1 15	1 55	31 12	11 15	20 9	19 52	6 3		n.a.
F 24	23 42	12 15	2 59	19 19	4 5	23 15	0 8	14 26	0 34	5 47	1 29	12 35	2 9	22 20	0 36	1 15	1 55	31 12	11 15	20 9	19 51	6 1		n.a.
S 25	23 43	16 3	1 54	19 12	4 14	23 24	0 10	14 40	0 33	5 45	1 29	12 35	2 9	22 21	0 37	1 15	1 55	31 13	11 15	20 9	19 51	5 58		n.a.
S 26	23 43	18 56	0 43	19 5	4 23	23 33	0 13	14 53	0 33	5 44	1 29	12 36	2 10	22 21	0 37	1 14	1 55	31 13	11 15	20 10	19 50	5 56		n.a.
M27	23 43	20 46	0n29	19 0	4 31	23 40	0 15	15 6	0 32	5 43	1 29	12 36	2 10	22 22	0 37	1 14	1 54	31 13	11 15	20 10	19 49	5 54		n.a.
T 28	23 42	21 28	1 38	18 57	4 36	23 47	0 18	15 19	0 31	5 42	1 30	12 37	2 10	22 22	0 37	1 14	1 54	31 14	11 16	20 9	19 48	5 51		n.a.
W29	23 41	21 2	2 41	18 54	4 41	23 54	0 20	15 32	0 31	5 42	1 30	12 37	2 10	22 22	0 37	1 14	1 54	31 14	11 16	20 9	19 48	5 49		n.a.
T 30	23n40	19s33	3n35	18n54	4s43	23n59	0n22	15n45	0s30	5s41	1s30	12s38	2s11	22s23	0s37	1n14	1n54	31s15	11s16	20s 8	19s47	5s47		n.a.

Julian Day Number = 1654003.5, Delta T = 03h29m25s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°37'00, Lahiri = - 6°29'59 Julian Calendar 1 June 185 BCE == Greg. Calendar 29 May 185 BCE

The year -184 astronomical counting style corresponds to year 185 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 185 BCE
geocentric

JULY 185 BCE (-184) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 22 35	4♋39'40	24♑52	4°R31	26♊ 5	14♉40	19♓18	2°R44	22°R41	1♎18	0°R29	28°R44	27♏14	3♓ 2	n.a.	F 1
S 2	18 26 32	5°37'01	7♒ 3	3♋47	27°19	15°20	19°20	2♓43	22♑39	1°18	0♒28	28♏37	27°11	3° 8	n.a.	S 2
S 3	18 30 28	6°34'23	19° 5	3° 5	28°33	16° 0	19°22	2°41	22°37	1°19	0°26	28°31	27° 8	3°15	n.a.	S 3
M 4	18 34 25	7°31'47	1♓ 0	2°25	29°47	16°40	19°24	2°40	22°34	1°19	0°25	28°25	27° 5	3°22	n.a.	M 4
T 5	18 38 21	8°29'11	12°53	1°48	1♋ 1	17°19	19°26	2°38	22°32	1°20	0°24	28°21	27° 2	3°29	n.a.	T 5
W 6	18 42 18	9°26'37	24°46	1°15	2°15	17°59	19°27	2°36	22°30	1°20	0°23	28°18	26°59	3°35	n.a.	W 6
T 7	18 46 15	10°24'04	6♈43	0°47	3°29	18°39	19°29	2°35	22°27	1°21	0°22	28°D16	26°55	3°42	n.a.	T 7
F 8	18 50 11	11°21'33	18°50	0°23	4°43	19°18	19°30	2°33	22°25	1°22	0°20	28°17	26°52	3°49	n.a.	F 8
S 9	18 54 8	12°19'03	1♉12	0° 6	5°57	19°58	19°31	2°31	22°23	1°22	0°19	28°18	26°49	3°56	n.a.	S 9
S 10	18 58 4	13°16'35	13°53	29♊55	7°11	20°37	19°31	2°28	22°20	1°23	0°18	28°19	26°46	4° 2	n.a.	S 10
M11	19 2 1	14°14'08	26°57	29°D50	8°25	21°16	19°32	2°26	22°18	1°24	0°17	28°R20	26°43	4° 9	n.a.	M11
T 12	19 5 57	15°11'43	10♊26	29°51	9°39	21°55	19°32	2°24	22°16	1°25	0°16	28°19	26°39	4°16	n.a.	T 12
W13	19 9 54	16° 9'19	24°22	0♋ 0	10°53	22°35	19°R32	2°21	22°13	1°26	0°14	28°17	26°36	4°22	n.a.	W13
T 14	19 13 50	17° 6'57	8♋42	0°16	12° 7	23°14	19°32	2°19	22°11	1°27	0°13	28°12	26°33	4°29	n.a.	T 14
F 15	19 17 47	18° 4'36	23°22	0°39	13°21	23°52	19°32	2°16	22° 8	1°27	0°12	28° 5	26°30	4°36	n.a.	F 15
S 16	19 21 44	19° 2'17	8♌14	1° 9	14°35	24°31	19°31	2°14	22° 6	1°28	0°11	27°58	26°27	4°43	n.a.	S 16
S 17	19 25 40	19°59'59	23°10	1°46	15°50	25°10	19°31	2°11	22° 4	1°29	0° 9	27°50	26°24	4°49	n.a.	S 17
M18	19 29 37	20°57'42	8♍ 1	2°31	17° 4	25°49	19°30	2° 8	22° 1	1°30	0° 8	27°43	26°20	4°56	n.a.	M18
T 19	19 33 33	21°55'26	22°40	3°22	18°18	26°27	19°29	2° 5	21°59	1°31	0° 7	27°38	26°17	5° 3	n.a.	T 19
W20	19 37 30	22°53'11	7♎ 1	4°20	19°32	27° 6	19°27	2° 2	21°56	1°32	0° 5	27°35	26°14	5° 9	n.a.	W20
T 21	19 41 26	23°50'58	21° 2	5°24	20°47	27°44	19°26	1°59	21°54	1°33	0° 4	27°D34	26°11	5°16	n.a.	T 21
F 22	19 45 23	24°48'46	4♏43	6°35	22° 1	28°22	19°24	1°56	21°52	1°35	0° 3	27°34	26° 8	5°23	n.a.	F 22
S 23	19 49 19	25°46'35	18° 5	7°51	23°15	29° 1	19°22	1°53	21°49	1°36	0° 2	27°35	26° 5	5°30	n.a.	S 23
S 24	19 53 16	26°44'26	1♐ 9	9°14	24°30	29°39	19°20	1°49	21°47	1°37	0° 0	27°R35	26° 1	5°36	n.a.	S 24
M25	19 57 13	27°42'18	13°59	10°41	25°44	0♊17	19°18	1°46	21°44	1°38	29♑59	27°34	25°58	5°43	n.a.	M25
T 26	20 1 9	28°40'11	26°37	12°13	26°58	0°55	19°15	1°42	21°42	1°39	29°58	27°30	25°55	5°50	n.a.	T 26
W27	20 5 6	29°38'06	9♑ 4	13°50	28°13	1°32	19°13	1°39	21°40	1°41	29°56	27°24	25°52	5°57	n.a.	W27
T 28	20 9 2	0♌36'03	21°23	15°30	29°27	2°10	19°10	1°35	21°37	1°42	29°55	27°15	25°49	6° 3	n.a.	T 28
F 29	20 12 59	1°34'01	3♒33	17°14	0♌42	2°48	19° 7	1°32	21°35	1°43	29°54	27° 5	25°45	6°10	n.a.	F 29
S 30	20 16 55	2°32'01	15°36	19° 1	1°56	3°25	19° 4	1°28	21°33	1°44	29°52	26°53	25°42	6°17	n.a.	S 30
S 31	20 20 52	3♌30'03	27♒34	20♋51	3♌11	4♊ 3	19♓ 0	1♓24	21♑30	1♎46	29♑51	26♏40	25♏39	6♓23	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23n38	17s11	4n18	18n54	4s44	24n 4	0n25	15n57	0s29	5s40	1s31	12s39	2s11	22s23	0s37	1n13	1n54	31s15	11s16	20s 6	19s46	5s44		n.a.
S 2	23 36	14 5	4 48	18 57	4 43	24 8	0 27	16 10	0 29	5 40	1 31	12 40	2 11	22 23	0 37	1 13	1 54	31 16	11 16	20 5	19 45	5 42		n.a.
S 3	23 33	10 26	5 6	19 0	4 41	24 12	0 29	16 22	0 28	5 39	1 31	12 40	2 11	22 24	0 37	1 13	1 54	31 16	11 16	20 4	19 45	5 40		n.a.
M 4	23 30	6 25	5 9	19 6	4 36	24 14	0 31	16 35	0 27	5 39	1 32	12 41	2 12	22 24	0 37	1 13	1 54	31 17	11 17	20 2	19 44	5 37		n.a.
T 5	23 26	2 11	5 0	19 12	4 30	24 16	0 33	16 47	0 26	5 38	1 32	12 42	2 12	22 25	0 37	1 12	1 54	31 17	11 17	20 1	19 43	5 35		n.a.
W 6	23 23	2n 8	4 38	19 20	4 22	24 17	0 36	16 59	0 26	5 38	1 32	12 43	2 12	22 25	0 37	1 12	1 54	31 17	11 17	20 1	19 42	5 33		n.a.
T 7	23 18	6 25	4 3	19 30	4 13	24 18	0 38	17 10	0 25	5 38	1 33	12 44	2 12	22 25	0 37	1 12	1 54	31 18	11 17	20 0	19 42	5 30		n.a.
F 8	23 13	10 30	3 17	19 40	4 3	24 18	0 40	17 22	0 24	5 38	1 33	12 45	2 13	22 26	0 37	1 11	1 54	31 18	11 17	20 0	19 41	5 28		n.a.
S 9	23 8	14 14	2 21	19 52	3 51	24 17	0 42	17 33	0 24	5 38	1 33	12 46	2 13	22 26	0 37	1 11	1 54	31 19	11 17	20 1	19 40	5 26		n.a.
S 10	23 3	17 25	1 17	20 5	3 38	24 15	0 44	17 45	0 23	5 38	1 34	12 47	2 13	22 27	0 37	1 11	1 54	31 19	11 17	20 1	19 40	5 23		n.a.
M11	22 57	19 49	0 7	20 19	3 24	24 13	0 46	17 56	0 22	5 38	1 34	12 48	2 13	22 27	0 37	1 10	1 54	31 20	11 18	20 1	19 39	5 21		n.a.
T 12	22 50	21 12	1s 5	20 34	3 9	24 9	0 48	18 7	0 21	5 38	1 34	12 49	2 14	22 27	0 37	1 10	1 54	31 20	11 18	20 1	19 38	5 19		n.a.
W13	22 44	21 20	2 16	20 49	2 54	24 6	0 50	18 18	0 21	5 38	1 35	12 50	2 14	22 28	0 37	1 9	1 54	31 20	11 18	20 0	19 37	5 16		n.a.
T 14	22 36	20 6	3 20	21 5	2 38	24 1	0 52	18 28	0 20	5 38	1 35	12 51	2 14	22 28	0 37	1 9	1 53	31 21	11 18	19 59	19 37	5 14		n.a.
F 15	22 29	17 32	4 12	21 21	2 22	23 56	0 54	18 39	0 19	5 39	1 35	12 52	2 14	22 29	0 37	1 9	1 53	31 21	11 18	19 58	19 36	5 12		n.a.
S 16	22 21	13 46	4 48	21 37	2 6	23 50	0 55	18 49	0 18	5 39	1 36	12 53	2 15	22 29	0 37	1 8	1 53	31 22	11 18	19 56	19 35	5 9		n.a.
S 17	22 12	9 9	5 5	21 53	1 50	23 43	0 57	19 0	0 17	5 40	1 36	12 55	2 15	22 29	0 37	1 8	1 53	31 22	11 18	19 54	19 34	5 7		n.a.
M18	22 4	4 0	5 1	22 8	1 33	23 35	0 59	19 10	0 17	5 41	1 36	12 56	2 15	22 30	0 37	1 7	1 53	31 22	11 18	19 53	19 34	5 5		n.a.
T 19	21 54	1s18	4 38	22 23	1 17	23 27	1 1	19 20	0 16	5 41	1 36	12 57	2 15	22 30	0 37	1 7	1 53	31 23	11 19	19 52	19 33	5 2		n.a.
W20	21 45	6 26	3 57	22 38	1 1	23 18	1 2	19 29	0 15	5 42	1 37	12 59	2 16	22 31	0 37	1 6	1 53	31 23	11 19	19 51	19 32	5 0		n.a.
T 21	21 35	11 7	3 3	22 51	0 46	23 8	1 4	19 39	0 14	5 43	1 37	13 0	2 16	22 31	0 37	1 6	1 53	31 24	11 19	19 51	19 31	4 58		n.a.
F 22	21 25	15 7	1 59	23 3	0 30	22 58	1 5	19 48	0 14	5 44	1 37	13 1	2 16	22 31	0 37	1 5	1 53	31 24	11 19	19 51	19 31	4 55		n.a.
S 23	21 14	18 13	0 51	23 13	0 16	22 47	1 7	19 58	0 13	5 45	1 38	13 3	2 16	22 32	0 37	1 5	1 53	31 24	11 19	19 51	19 30	4 53		n.a.
S 24	21 3	20 19	0n19	23 22	0 2	22 35	1 8	20 7	0 12	5 46	1 38	13 4	2 16	22 32	0 37	1 4	1 53	31 25	11 19	19 51	19 29	4 51		n.a.
M25	20 52	21 19	1 26	23 28	0n11	22 23	1 10	20 16	0 11	5 47	1 38	13 5	2 17	22 33	0 37	1 4	1 53	31 25	11 19	19 51	19 28	4 48		n.a.
T 26	20 40	21 12	2 28	23 33	0 24	22 10	1 11	20 25	0 10	5 48	1 39	13 7	2 17	22 33	0 37	1 3	1 53	31 25	11 19	19 50	19 27	4 46		n.a.
W27	20 28	20 2	3 22	23 35	0 36	21 56	1 12	20 33	0 9	5 50	1 39	13 8	2 17	22 33	0 37	1 3	1 53	31 26	11 19	19 48	19 27	4 44		n.a.
T 28	20 15	17 57	4 6	23 34	0 47	21 42	1 13	20 42	0 9	5 51	1 39	13 10	2 17	22 34	0 37	1 2	1 53	31 26	11 19	19 46	19 26	4 41		n.a.
F 29	20 2	15 5	4 37	23 31	0 57	21 27	1 14	20 50	0 8	5 53	1 39	13 11	2 17	22 34	0 37	1 2	1 53	31 26	11 19	19 44	19 25	4 39		n.a.
S 30	19 49	11 38	4 56	23 26	1 6	21 11	1 16	20 58	0 7	5 54	1 40	13 13	2 18	22 35	0 37	1 1	1 53	31 27	11 19	19 41	19 24	4 37		n.a.
S 31	19n36	7s44	5n 2	23n18	1n14	20n55	1n17	21n 6	0s 6	5s56	1s40	13s14	2s18	22s35	0s37	1n 1	1n53	31s27	11s19	19s38	19s24	4s35		n.a.

Julian Day Number = 1654033.5, Delta T = 03h29m24s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°36'55, Lahiri = - 6°29'55 Julian Calendar 1 July 185 BCE == Greg. Calendar 28 June 185 BCE

The year -184 astronomical counting style corresponds to year 185 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 185 BCE
geocentric

AUGUST 185 BCE (-184) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 24 48	4♌28'06	9♓27	22♋42	4♌25	4♊40	18°R57	1°R20	21°R28	1♎47	29°R50	26°R29	25♏36	6♓30	n.a.	M 1
T 2	20 28 45	5°26'11	21°18	24°36	5°40	5°17	18♓53	1♓16	21♑26	1°49	29♑49	26♏19	25°33	6°37	n.a.	T 2
W 3	20 32 42	6°24'19	3♈ 9	26°30	6°54	5°54	18°49	1°12	21°23	1°50	29°47	26°12	25°30	6°44	n.a.	W 3
T 4	20 36 38	7°22'28	15° 5	28°26	8° 9	6°31	18°45	1° 8	21°21	1°51	29°46	26° 8	25°26	6°50	n.a.	T 4
F 5	20 40 35	8°20'40	27°10	0♌22	9°23	7° 8	18°40	1° 4	21°19	1°53	29°45	26° 5	25°23	6°57	n.a.	F 5
S 6	20 44 31	9°18'54	9♉28	2°18	10°38	7°45	18°36	1° 0	21°17	1°54	29°43	26°D 5	25°20	7° 4	n.a.	S 6
S 7	20 48 28	10°17'10	22° 5	4°15	11°52	8°22	18°31	0°56	21°14	1°56	29°42	26°R 5	25°17	7°10	n.a.	S 7
M 8	20 52 24	11°15'28	5♊ 5	6°11	13° 7	8°59	18°26	0°52	21°12	1°58	29°41	26° 5	25°14	7°17	n.a.	M 8
T 9	20 56 21	12°13'48	18°32	8° 7	14°22	9°35	18°21	0°47	21°10	1°59	29°40	26° 3	25°11	7°24	n.a.	T 9
W10	21 0 17	13°12'11	2♋29	10° 3	15°36	10°12	18°16	0°43	21° 8	2° 1	29°38	25°59	25° 7	7°31	n.a.	W10
T 11	21 4 14	14°10'35	16°55	11°57	16°51	10°48	18°11	0°39	21° 6	2° 2	29°37	25°52	25° 4	7°37	n.a.	T 11
F 12	21 8 11	15° 9'02	1♌45	13°51	18° 6	11°24	18° 5	0°34	21° 4	2° 4	29°36	25°43	25° 1	7°44	n.a.	F 12
S 13	21 12 7	16° 7'31	16°53	15°45	19°21	12° 0	17°59	0°30	21° 1	2° 6	29°35	25°33	24°58	7°51	n.a.	S 13
S 14	21 16 4	17° 6'02	2♍ 8	17°37	20°35	12°36	17°54	0°25	20°59	2° 7	29°33	25°22	24°55	7°58	n.a.	S 14
M15	21 20 0	18° 4'34	17°19	19°28	21°50	13°12	17°48	0°21	20°57	2° 9	29°32	25°12	24°51	8° 4	n.a.	M15
T 16	21 23 57	19° 3'09	2♎16	21°19	23° 5	13°48	17°42	0°16	20°55	2°11	29°31	25° 4	24°48	8°11	n.a.	T 16
W17	21 27 53	20° 1'45	16°52	23° 8	24°20	14°23	17°35	0°12	20°53	2°13	29°30	24°58	24°45	8°18	n.a.	W17
T 18	21 31 50	21° 0'23	1♏ 2	24°57	25°34	14°59	17°29	0° 7	20°51	2°14	29°29	24°55	24°42	8°24	n.a.	T 18
F 19	21 35 46	21°59'03	14°46	26°44	26°49	15°34	17°22	0° 2	20°49	2°16	29°27	24°55	24°39	8°31	n.a.	F 19
S 20	21 39 43	22°57'45	28° 5	28°30	28° 4	16° 9	17°16	29♒58	20°47	2°18	29°26	24°55	24°36	8°38	n.a.	S 20
S 21	21 43 40	23°56'28	11♐ 3	0♍16	29°19	16°44	17° 9	29°53	20°46	2°20	29°25	24°54	24°32	8°45	n.a.	S 21
M22	21 47 36	24°55'13	23°42	2° 0	0♍34	17°19	17° 2	29°48	20°44	2°22	29°24	24°52	24°29	8°51	n.a.	M22
T 23	21 51 33	25°54'00	6♑ 8	3°43	1°48	17°54	16°55	29°44	20°42	2°24	29°23	24°47	24°26	8°58	n.a.	T 23
W24	21 55 29	26°52'49	18°23	5°25	3° 3	18°29	16°48	29°39	20°40	2°25	29°22	24°40	24°23	9° 5	n.a.	W24
T 25	21 59 26	27°51'40	0♒30	7° 7	4°18	19° 3	16°41	29°34	20°38	2°27	29°20	24°30	24°20	9°11	n.a.	T 25
F 26	22 3 22	28°50'33	12°31	8°47	5°33	19°38	16°33	29°30	20°37	2°29	29°19	24°17	24°17	9°18	n.a.	F 26
S 27	22 7 19	29°49'28	24°27	10°27	6°48	20°12	16°26	29°25	20°35	2°31	29°18	24° 3	24°13	9°25	n.a.	S 27
S 28	22 11 15	0♍48'25	6♓21	12° 5	8° 3	20°46	16°19	29°20	20°33	2°33	29°17	23°49	24°10	9°32	n.a.	S 28
M29	22 15 12	1°47'24	18°13	13°43	9°18	21°21	16°11	29°16	20°32	2°35	29°16	23°35	24° 7	9°38	n.a.	M29
T 30	22 19 8	2°46'25	0♈ 5	15°19	10°33	21°54	16° 3	29°11	20°30	2°37	29°15	23°24	24° 4	9°45	n.a.	T 30
W31	22 23 5	3♍45'29	11♈58	16♍55	11♍47	22♊28	15♓56	29♒ 6	20♑28	2♎39	29♑14	23♏15	24♏ 1	9♓52	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	19n22	3s35	4n54	23n 7	1n21	20n38	1n18	21n14	0s 5	5s58	1s40	13s16	2s18	22s35	0s37	1n 0	1n52	31s27	11s19	19s36	19s23	4s32			n.a.
T 2	19 8	0n42	4 34	22 53	1 27	20 20	1 18	21 22	0 4	5 59	1 41	13 18	2 18	22 36	0 37	0 59	1 52	31 28	11 19	19 33	19 22	4 30			n.a.
W 3	18 53	4 58	4 2	22 37	1 33	20 2	1 19	21 29	0 3	6 1	1 41	13 19	2 18	22 36	0 37	0 59	1 52	31 28	11 19	19 32	19 21	4 28			n.a.
T 4	18 38	9 4	3 19	22 18	1 37	19 44	1 20	21 36	0 2	6 3	1 41	13 21	2 18	22 36	0 37	0 58	1 52	31 28	11 19	19 31	19 21	4 25			n.a.
F 5	18 23	12 52	2 27	21 57	1 41	19 24	1 21	21 44	0 2	6 5	1 41	13 22	2 19	22 37	0 37	0 57	1 52	31 29	11 19	19 30	19 20	4 23			n.a.
S 6	18 8	16 11	1 27	21 34	1 44	19 5	1 22	21 51	0 1	6 7	1 42	13 24	2 19	22 37	0 37	0 57	1 52	31 29	11 19	19 30	19 19	4 21			n.a.
S 7	17 52	18 50	0 21	21 8	1 46	18 44	1 22	21 57	0n 0	6 9	1 42	13 26	2 19	22 37	0 37	0 56	1 52	31 29	11 19	19 30	19 18	4 18			n.a.
M 8	17 36	20 37	0s48	20 40	1 47	18 24	1 23	22 4	0 1	6 11	1 42	13 27	2 19	22 38	0 37	0 55	1 52	31 30	11 19	19 30	19 18	4 16			n.a.
T 9	17 20	21 17	1 56	20 11	1 48	18 2	1 23	22 11	0 2	6 13	1 42	13 29	2 19	22 38	0 37	0 55	1 52	31 30	11 19	19 29	19 17	4 14			n.a.
W10	17 3	20 42	3 0	19 40	1 48	17 40	1 24	22 17	0 3	6 16	1 43	13 31	2 19	22 38	0 37	0 54	1 52	31 30	11 19	19 28	19 16	4 11			n.a.
T 11	16 46	18 45	3 55	19 7	1 47	17 18	1 24	22 23	0 4	6 18	1 43	13 32	2 19	22 39	0 37	0 53	1 52	31 30	11 19	19 27	19 15	4 9			n.a.
F 12	16 29	15 32	4 35	18 33	1 46	16 55	1 24	22 29	0 5	6 20	1 43	13 34	2 20	22 39	0 37	0 53	1 52	31 31	11 19	19 25	19 14	4 7			n.a.
S 13	16 11	11 14	4 57	17 58	1 44	16 32	1 24	22 35	0 6	6 23	1 43	13 36	2 20	22 39	0 37	0 52	1 52	31 31	11 19	19 22	19 14	4 4			n.a.
S 14	15 53	6 12	4 58	17 21	1 42	16 8	1 25	22 41	0 7	6 25	1 43	13 38	2 20	22 40	0 37	0 51	1 52	31 31	11 19	19 19	19 13	4 2			n.a.
M15	15 35	0 48	4 39	16 43	1 39	15 43	1 25	22 46	0 8	6 28	1 44	13 39	2 20	22 40	0 37	0 51	1 52	31 31	11 19	19 17	19 12	4 0			n.a.
T 16	15 17	4s35	4 0	16 5	1 36	15 19	1 25	22 52	0 9	6 31	1 44	13 41	2 20	22 40	0 37	0 50	1 52	31 32	11 19	19 15	19 11	3 57			n.a.
W17	14 58	9 34	3 6	15 25	1 33	14 54	1 25	22 57	0 10	6 33	1 44	13 43	2 20	22 41	0 37	0 49	1 52	31 32	11 19	19 14	19 11	3 55			n.a.
T 18	14 40	13 53	2 3	14 45	1 29	14 28	1 25	23 2	0 11	6 36	1 44	13 45	2 20	22 41	0 37	0 48	1 52	31 32	11 19	19 13	19 10	3 53			n.a.
F 19	14 21	17 18	0 53	14 4	1 24	14 2	1 24	23 7	0 12	6 39	1 44	13 46	2 20	22 41	0 37	0 48	1 52	31 32	11 19	19 13	19 9	3 50			n.a.
S 20	14 1	19 41	0n17	13 22	1 20	13 36	1 24	23 12	0 13	6 41	1 45	13 48	2 20	22 41	0 37	0 47	1 52	31 32	11 19	19 13	19 8	3 48			n.a.
S 21	13 42	20 58	1 24	12 40	1 15	13 9	1 24	23 16	0 14	6 44	1 45	13 50	2 21	22 42	0 37	0 46	1 52	31 33	11 19	19 13	19 7	3 46			n.a.
M22	13 22	21 8	2 26	11 58	1 9	12 42	1 24	23 21	0 15	6 47	1 45	13 52	2 21	22 42	0 37	0 45	1 52	31 33	11 19	19 12	19 7	3 44			n.a.
T 23	13 2	20 15	3 19	11 15	1 4	12 15	1 23	23 25	0 16	6 50	1 45	13 53	2 21	22 42	0 37	0 44	1 52	31 33	11 19	19 11	19 6	3 41			n.a.
W24	12 42	18 26	4 2	10 32	0 58	11 47	1 23	23 29	0 17	6 53	1 45	13 55	2 21	22 43	0 37	0 44	1 52	31 33	11 19	19 9	19 5	3 39			n.a.
T 25	12 21	15 49	4 34	9 48	0 52	11 19	1 22	23 33	0 18	6 56	1 45	13 57	2 21	22 43	0 37	0 43	1 52	31 33	11 18	19 7	19 4	3 37			n.a.
F 26	12 1	12 33	4 53	9 5	0 46	10 51	1 21	23 37	0 19	6 59	1 46	13 59	2 21	22 43	0 37	0 42	1 51	31 34	11 18	19 4	19 3	3 34			n.a.
S 27	11 40	8 49	5 0	8 21	0 40	10 22	1 21	23 41	0 20	7 2	1 46	14 0	2 21	22 43	0 37	0 41	1 51	31 34	11 18	19 0	19 3	3 32			n.a.
S 28	11 19	4 45	4 53	7 37	0 33	9 53	1 20	23 44	0 21	7 5	1 46	14 2	2 21	22 44	0 37	0 40	1 51	31 34	11 18	18 56	19 2	3 30			n.a.
M29	10 58	0 32	4 33	6 53	0 27	9 24	1 19	23 48	0 22	7 8	1 46	14 4	2 21	22 44	0 37	0 40	1 51	31 34	11 18	18 53	19 1	3 27			n.a.
T 30	10 36	3n43	4 1	6 9	0 20	8 54	1 18	23 51	0 23	7 11	1 46	14 5	2 21	22 44	0 37	0 39	1 51	31 34	11 18	18 50	19 0	3 25			n.a.
W31	10n15	7n50	3n19	5n26	0n13	8n25	1n17	23n54	0n24	7s14	1s46	14s 7	2s21	22s44	0s37	0n38	1n51	31s34	11s18	18s48	19s 0	3s23			n.a.

Julian Day Number = 1654064.5, Delta T = 03h29m23s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°36'51, Lahiri = - 6°29'51 Julian Calendar 1 Aug. 185 BCE == Greg. Calendar 29 July 185 BCE

The year -184 astronomical counting style corresponds to year 185 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 185 BCE
geocentric

SEPTEMBER 185 BCE (-184) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 27 2	4♍44'35	23♈56	18♍30	13♍ 2	23♊ 2	15°R48	29°R 2	20°R27	2♎41	29°R13	23°R 9	23♏57	9♓58	n.a.	T 1
F 2	22 30 58	5°43'43	6♉ 2	20° 4	14°17	23°35	15♓40	28♒57	20♑26	2°43	29♑12	23♏ 5	23°54	10° 5	n.a.	F 2
S 3	22 34 55	6°42'54	18°20	21°38	15°32	24° 9	15°32	28°52	20°24	2°45	29°11	23°D 4	23°51	10°12	n.a.	S 3
S 4	22 38 51	7°42'07	0♊54	23°10	16°47	24°42	15°24	28°48	20°23	2°47	29°10	23° 4	23°48	10°19	n.a.	S 4
M 5	22 42 48	8°41'22	13°49	24°42	18° 2	25°15	15°16	28°43	20°21	2°49	29° 9	23°R 4	23°45	10°25	n.a.	M 5
T 6	22 46 44	9°40'40	27° 9	26°13	19°17	25°48	15° 8	28°38	20°20	2°52	29° 8	23° 3	23°42	10°32	n.a.	T 6
W 7	22 50 41	10°40'01	10♋57	27°43	20°32	26°21	15° 0	28°34	20°19	2°54	29° 7	23° 0	23°38	10°39	n.a.	W 7
T 8	22 54 37	11°39'24	25°15	29°12	21°47	26°53	14°52	28°29	20°18	2°56	29° 6	22°54	23°35	10°46	n.a.	T 8
F 9	22 58 34	12°38'49	10♌ 0	0♎40	23° 2	27°26	14°44	28°25	20°16	2°58	29° 5	22°46	23°32	10°52	n.a.	F 9
S 10	23 2 31	13°38'16	25° 7	2° 8	24°17	27°58	14°36	28°20	20°15	3° 0	29° 5	22°36	23°29	10°59	n.a.	S 10
S 11	23 6 27	14°37'46	10♍25	3°35	25°32	28°30	14°28	28°16	20°14	3° 2	29° 4	22°26	23°26	11° 6	n.a.	S 11
M12	23 10 24	15°37'18	25°44	5° 1	26°47	29° 2	14°20	28°12	20°13	3° 4	29° 3	22°16	23°22	11°12	n.a.	M12
T 13	23 14 20	16°36'52	10♎53	6°26	28° 2	29°34	14°12	28° 7	20°12	3° 6	29° 2	22° 9	23°19	11°19	n.a.	T 13
W14	23 18 17	17°36'28	25°41	7°50	29°17	0♋ 5	14° 3	28° 3	20°11	3° 9	29° 1	22° 4	23°16	11°26	n.a.	W14
T 15	23 22 13	18°36'06	10♏ 3	9°13	0♎32	0°36	13°55	27°59	20°10	3°11	29° 1	22° 1	23°13	11°33	n.a.	T 15
F 16	23 26 10	19°35'45	23°57	10°35	1°47	1° 8	13°47	27°54	20° 9	3°13	29° 0	22°D 0	23°10	11°39	n.a.	F 16
S 17	23 30 6	20°35'27	7♐22	11°57	3° 2	1°39	13°39	27°50	20° 8	3°15	28°59	22° 1	23° 7	11°46	n.a.	S 17
S 18	23 34 3	21°35'11	20°22	13°17	4°17	2° 9	13°31	27°46	20° 8	3°17	28°58	22°R 2	23° 3	11°53	n.a.	S 18
M19	23 37 59	22°34'56	3♑ 1	14°36	5°32	2°40	13°23	27°42	20° 7	3°20	28°58	22° 1	23° 0	11°59	n.a.	M19
T 20	23 41 56	23°34'43	15°23	15°54	6°47	3°10	13°16	27°38	20° 6	3°22	28°57	21°58	22°57	12° 6	n.a.	T 20
W21	23 45 53	24°34'32	27°32	17°10	8° 2	3°41	13° 8	27°34	20° 6	3°24	28°56	21°53	22°54	12°13	n.a.	W21
T 22	23 49 49	25°34'23	9♒32	18°25	9°17	4°11	13° 0	27°30	20° 5	3°26	28°56	21°46	22°51	12°20	n.a.	T 22
F 23	23 53 46	26°34'15	21°28	19°39	10°31	4°40	12°52	27°27	20° 5	3°29	28°55	21°37	22°48	12°26	n.a.	F 23
S 24	23 57 42	27°34'10	3♓20	20°51	11°46	5°10	12°45	27°23	20° 4	3°31	28°55	21°26	22°44	12°33	n.a.	S 24
S 25	0 1 39	28°34'06	15°12	22° 1	13° 1	5°39	12°37	27°19	20° 4	3°33	28°54	21°16	22°41	12°40	n.a.	S 25
M26	0 5 35	29°34'04	27° 6	23° 9	14°16	6° 8	12°30	27°16	20° 3	3°35	28°54	21° 6	22°38	12°46	n.a.	M26
T 27	0 9 32	0♎34'04	9♈ 2	24°15	15°31	6°37	12°23	27°12	20° 3	3°38	28°53	20°57	22°35	12°53	n.a.	T 27
W28	0 13 28	1°34'07	21° 2	25°19	16°46	7° 6	12°15	27° 9	20° 3	3°40	28°53	20°51	22°32	13° 0	n.a.	W28
T 29	0 17 25	2°34'11	3♉ 8	26°20	18° 1	7°35	12° 8	27° 5	20° 2	3°42	28°52	20°47	22°28	13° 7	n.a.	T 29
F 30	0 21 22	3♎34'17	15♉22	27♎17	19♎16	8♋ 3	12♓ 1	27♒ 2	20♑ 2	3♎44	28♑52	20°D45	22♏25	13♓13	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n53	11n41	2n28	4n42	0n 6	7n55	1n16	23n57	0n25	7s18	1s46	14s 9	2s21	22s44	0s37	0n37	1n51	31s34	11s18	18s46	18s59	3s20		n.a.
F 2	9 31	15 5	1 29	3 58	0s 1	7 25	1 15	24 0	0 26	7 21	1 46	14 10	2 21	22 45	0 37	0 36	1 51	31 34	11 18	18 46	18 58	3 18		n.a.
S 3	9 9	17 53	0 25	3 14	0 8	6 54	1 14	24 2	0 27	7 24	1 46	14 12	2 21	22 45	0 37	0 35	1 51	31 35	11 17	18 45	18 57	3 16		n.a.
S 4	8 47	19 54	0s41	2 31	0 15	6 24	1 13	24 5	0 28	7 27	1 46	14 14	2 21	22 45	0 36	0 35	1 51	31 35	11 17	18 45	18 56	3 14		n.a.
M 5	8 24	20 56	1 48	1 48	0 22	5 53	1 12	24 7	0 29	7 30	1 47	14 15	2 21	22 45	0 36	0 34	1 51	31 35	11 17	18 45	18 56	3 11		n.a.
T 6	8 2	20 51	2 50	1 5	0 29	5 22	1 11	24 9	0 31	7 33	1 47	14 17	2 21	22 45	0 36	0 33	1 51	31 35	11 17	18 45	18 55	3 9		n.a.
W 7	7 39	19 31	3 45	0 22	0 36	4 51	1 9	24 12	0 32	7 37	1 47	14 19	2 21	22 46	0 36	0 32	1 51	31 35	11 17	18 44	18 54	3 7		n.a.
T 8	7 16	16 56	4 28	0s21	0 43	4 20	1 8	24 14	0 33	7 40	1 47	14 20	2 21	22 46	0 36	0 31	1 51	31 35	11 17	18 43	18 53	3 4		n.a.
F 9	6 53	13 12	4 55	1 3	0 51	3 49	1 6	24 15	0 34	7 43	1 47	14 22	2 21	22 46	0 36	0 30	1 51	31 35	11 17	18 41	18 52	3 2		n.a.
S 10	6 30	8 34	5 2	1 44	0 58	3 17	1 5	24 17	0 35	7 46	1 47	14 23	2 21	22 46	0 36	0 29	1 51	31 35	11 16	18 38	18 52	3 0		n.a.
S 11	6 7	3 19	4 48	2 26	1 5	2 46	1 3	24 19	0 36	7 49	1 47	14 25	2 21	22 46	0 36	0 29	1 51	31 35	11 16	18 35	18 51	2 57		n.a.
M12	5 44	2s 9	4 13	3 7	1 12	2 14	1 2	24 20	0 38	7 53	1 47	14 26	2 21	22 46	0 36	0 28	1 51	31 35	11 16	18 33	18 50	2 55		n.a.
T 13	5 21	7 25	3 20	3 47	1 19	1 43	1 0	24 22	0 39	7 56	1 47	14 28	2 21	22 47	0 36	0 27	1 51	31 35	11 16	18 31	18 49	2 53		n.a.
W14	4 57	12 8	2 15	4 27	1 26	1 11	0 58	24 23	0 40	7 59	1 47	14 29	2 21	22 47	0 36	0 26	1 51	31 35	11 16	18 30	18 48	2 50		n.a.
T 15	4 34	16 0	1 3	5 7	1 33	0 39	0 57	24 24	0 41	8 2	1 47	14 31	2 21	22 47	0 36	0 25	1 51	31 35	11 16	18 29	18 47	2 48		n.a.
F 16	4 10	18 48	0n10	5 46	1 40	0 7	0 55	24 25	0 42	8 5	1 47	14 32	2 21	22 47	0 36	0 24	1 51	31 35	11 15	18 29	18 47	2 46		n.a.
S 17	3 46	20 28	1 21	6 24	1 46	0s25	0 53	24 26	0 44	8 8	1 47	14 34	2 21	22 47	0 36	0 23	1 51	31 35	11 15	18 29	18 46	2 44		n.a.
S 18	3 22	20 57	2 25	7 2	1 53	0 56	0 51	24 27	0 45	8 11	1 47	14 35	2 21	22 47	0 36	0 22	1 51	31 35	11 15	18 29	18 45	2 41		n.a.
M19	2 59	20 20	3 21	7 38	1 59	1 28	0 49	24 28	0 46	8 14	1 46	14 37	2 21	22 47	0 36	0 21	1 51	31 35	11 15	18 29	18 44	2 39		n.a.
T 20	2 35	18 45	4 5	8 15	2 5	2 0	0 47	24 28	0 48	8 17	1 46	14 38	2 21	22 47	0 36	0 21	1 51	31 35	11 15	18 28	18 43	2 37		n.a.
W21	2 11	16 21	4 38	8 50	2 11	2 32	0 45	24 29	0 49	8 20	1 46	14 39	2 21	22 47	0 36	0 20	1 51	31 35	11 15	18 27	18 43	2 34		n.a.
T 22	1 47	13 17	4 58	9 24	2 17	3 3	0 43	24 29	0 50	8 23	1 46	14 40	2 21	22 47	0 36	0 19	1 51	31 35	11 14	18 25	18 42	2 32		n.a.
F 23	1 23	9 42	5 5	9 58	2 22	3 35	0 41	24 29	0 51	8 26	1 46	14 42	2 21	22 47	0 36	0 18	1 51	31 35	11 14	18 23	18 41	2 30		n.a.
S 24	0 59	5 46	4 59	10 30	2 27	4 7	0 39	24 30	0 53	8 29	1 46	14 43	2 20	22 47	0 36	0 17	1 51	31 35	11 14	18 20	18 40	2 28		n.a.
S 25	0 35	1 37	4 39	11 1	2 32	4 38	0 37	24 30	0 54	8 32	1 46	14 44	2 20	22 47	0 36	0 16	1 51	31 35	11 14	18 17	18 39	2 25		n.a.
M26	0 10	2n37	4 8	11 31	2 37	5 10	0 34	24 30	0 56	8 34	1 46	14 45	2 20	22 48	0 36	0 15	1 51	31 35	11 14	18 14	18 39	2 23		n.a.
T 27	0s14	6 45	3 25	12 0	2 41	5 41	0 32	24 30	0 57	8 37	1 46	14 46	2 20	22 48	0 36	0 14	1 51	31 35	11 13	18 12	18 38	2 21		n.a.
W28	0 38	10 40	2 33	12 27	2 45	6 12	0 30	24 30	0 58	8 40	1 46	14 48	2 20	22 48	0 36	0 13	1 51	31 34	11 13	18 10	18 37	2 18		n.a.
T 29	1 2	14 10	1 34	12 53	2 48	6 43	0 28	24 29	1 0	8 42	1 45	14 49	2 20	22 48	0 36	0 12	1 51	31 34	11 13	18 9	18 36	2 16		n.a.
F 30	1s26	17n 6	0n29	13s17	2s51	7s14	0n25	24n29	1n 1	8s45	1s45	14s50	2s20	22s48	0s36	0n12	1n51	31s34	11s13	18s 9	18s35	2s14		n.a.

Julian Day Number = 1654095.5, Delta T = 03h29m22s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°36'47, Lahiri = - 6°29'47 Julian Calendar 1 Sept. 185 BCE == Greg. Calendar 29 Aug. 185 BCE

The year -184 astronomical counting style corresponds to year 185 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 185 BCE
geocentric

OCTOBER 185 BCE (-184) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 25 18	4♎34'26	27♉46	28♎12	20♎31	8♋31	11°R54	26°R59	20°R 2	3♎47	28°R51	20♏45	22♏22	13♓20	n.a.	S 1
S 2	0 29 15	5°34'37	10♊25	29° 3	21°46	8°59	11♓48	26♒56	20♑ 2	3°49	28♑51	20°46	22°19	13°27	n.a.	S 2
M 3	0 33 11	6°34'50	23°20	29°50	23° 1	9°26	11°41	26°52	20°D 2	3°51	28°51	20°47	22°16	13°33	n.a.	M 3
T 4	0 37 8	7°35'05	6♋37	0♏32	24°16	9°53	11°34	26°49	20° 2	3°53	28°50	20°R48	22°13	13°40	n.a.	T 4
W 5	0 41 4	8°35'22	20°17	1° 9	25°31	10°20	11°28	26°47	20° 2	3°55	28°50	20°47	22° 9	13°47	n.a.	W 5
T 6	0 45 1	9°35'42	4♌21	1°41	26°46	10°47	11°22	26°44	20° 2	3°58	28°50	20°45	22° 6	13°54	n.a.	T 6
F 7	0 48 57	10°36'04	18°50	2° 6	28° 1	11°14	11°16	26°41	20° 2	4° 0	28°50	20°41	22° 3	14° 0	n.a.	F 7
S 8	0 52 54	11°36'27	3♍39	2°24	29°16	11°40	11°10	26°38	20° 3	4° 2	28°49	20°35	22° 0	14° 7	n.a.	S 8
S 9	0 56 50	12°36'53	18°42	2°35	0♏30	12° 6	11° 4	26°36	20° 3	4° 4	28°49	20°29	21°57	14°14	n.a.	S 9
M10	1 0 47	13°37'20	3♎51	2°R37	1°45	12°31	10°58	26°33	20° 3	4° 7	28°49	20°24	21°53	14°20	n.a.	M10
T 11	1 4 44	14°37'49	18°54	2°31	3° 0	12°57	10°53	26°31	20° 4	4° 9	28°49	20°19	21°50	14°27	n.a.	T 11
W12	1 8 40	15°38'20	3♏43	2°15	4°15	13°22	10°47	26°29	20° 4	4°11	28°49	20°17	21°47	14°34	n.a.	W12
T 13	1 12 37	16°38'53	18°11	1°49	5°30	13°46	10°42	26°27	20° 5	4°13	28°49	20°D16	21°44	14°41	n.a.	T 13
F 14	1 16 33	17°39'27	2♐12	1°13	6°45	14°11	10°37	26°25	20° 5	4°16	28°48	20°16	21°41	14°47	n.a.	F 14
S 15	1 20 30	18°40'03	15°46	0°26	8° 0	14°35	10°32	26°23	20° 6	4°18	28°48	20°17	21°38	14°54	n.a.	S 15
S 16	1 24 26	19°40'40	28°53	29♎30	9°15	14°59	10°28	26°21	20° 6	4°20	28°D48	20°19	21°34	15° 1	n.a.	S 16
M17	1 28 23	20°41'18	11♑37	28°25	10°30	15°22	10°23	26°19	20° 7	4°22	28°48	20°20	21°31	15° 7	n.a.	M17
T 18	1 32 19	21°41'58	24° 2	27°13	11°45	15°45	10°19	26°17	20° 8	4°24	28°48	20°R21	21°28	15°14	n.a.	T 18
W19	1 36 16	22°42'39	6♒12	25°56	12°59	16° 8	10°15	26°16	20° 9	4°26	28°49	20°20	21°25	15°21	n.a.	W19
T 20	1 40 13	23°43'21	18°11	24°35	14°14	16°30	10°11	26°14	20° 9	4°29	28°49	20°18	21°22	15°28	n.a.	T 20
F 21	1 44 9	24°44'04	0♓ 4	23°13	15°29	16°52	10° 7	26°13	20°10	4°31	28°49	20°14	21°19	15°34	n.a.	F 21
S 22	1 48 6	25°44'49	11°56	21°54	16°44	17°14	10° 4	26°12	20°11	4°33	28°49	20°10	21°15	15°41	n.a.	S 22
S 23	1 52 2	26°45'35	23°48	20°40	17°59	17°35	10° 0	26°11	20°12	4°35	28°49	20° 6	21°12	15°48	n.a.	S 23
M24	1 55 59	27°46'22	5♈45	19°33	19°13	17°56	9°57	26°10	20°13	4°37	28°49	20° 2	21° 9	15°54	n.a.	M24
T 25	1 59 55	28°47'10	17°47	18°34	20°28	18°16	9°54	26° 9	20°14	4°39	28°49	19°59	21° 6	16° 1	n.a.	T 25
W26	2 3 52	29°48'00	29°57	17°46	21°43	18°37	9°52	26° 8	20°15	4°41	28°50	19°56	21° 3	16° 8	n.a.	W26
T 27	2 7 48	0♏48'51	12♉17	17°10	22°58	18°56	9°49	26° 7	20°17	4°43	28°50	19°55	20°59	16°14	n.a.	T 27
F 28	2 11 45	1°49'43	24°47	16°45	24°13	19°15	9°47	26° 6	20°18	4°45	28°50	19°D55	20°56	16°21	n.a.	F 28
S 29	2 15 42	2°50'37	7♊28	16°32	25°27	19°34	9°45	26° 6	20°19	4°47	28°51	19°56	20°53	16°28	n.a.	S 29
S 30	2 19 38	3°51'32	20°22	16°D29	26°42	19°53	9°43	26° 6	20°21	4°49	28°51	19°57	20°50	16°35	n.a.	S 30
M31	2 23 35	4♏52'28	3♋30	16♎38	27♏57	20♋11	9♓41	26♒ 5	20♑22	4♎51	28♑51	19♏58	20♏47	16♓41	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	1s50	19n17	0s38	13s39	2s53	7s45	0n23	24n29	1n 3	8s47	1s45	14s51	2s20	22s48	0s36	0n11	1n51	31s34	11s13	18s 9	18s34	2s11		n.a.
S 2	2 14	20 33	1 44	13 59	2 55	8 16	0 21	24 28	1 4	8 50	1 45	14 52	2 20	22 48	0 36	0 10	1 51	31 34	11 12	18 9	18 34	2 9		n.a.
M 3	2 39	20 46	2 47	14 16	2 56	8 46	0 18	24 28	1 5	8 52	1 45	14 53	2 20	22 48	0 36	0 9	1 51	31 34	11 12	18 9	18 33	2 7		n.a.
T 4	3 3	19 50	3 43	14 32	2 56	9 16	0 16	24 27	1 7	8 55	1 45	14 54	2 19	22 48	0 36	0 8	1 51	31 34	11 12	18 10	18 32	2 5		n.a.
W 5	3 27	17 45	4 28	14 44	2 55	9 46	0 13	24 27	1 8	8 57	1 44	14 55	2 19	22 47	0 36	0 7	1 51	31 34	11 12	18 10	18 31	2 2		n.a.
T 6	3 51	14 34	4 58	14 54	2 53	10 16	0 11	24 26	1 10	8 59	1 44	14 55	2 19	22 47	0 36	0 6	1 51	31 33	11 11	18 9	18 30	2 0		n.a.
F 7	4 15	10 26	5 10	15 0	2 50	10 46	0 8	24 25	1 11	9 1	1 44	14 56	2 19	22 47	0 36	0 5	1 51	31 33	11 11	18 8	18 29	1 58		n.a.
S 8	4 39	5 35	5 2	15 3	2 46	11 15	0 6	24 25	1 13	9 4	1 44	14 57	2 19	22 47	0 36	0 4	1 51	31 33	11 11	18 6	18 29	1 55		n.a.
S 9	5 2	0 20	4 34	15 2	2 41	11 44	0 3	24 24	1 15	9 6	1 44	14 58	2 19	22 47	0 36	0 3	1 51	31 33	11 11	18 5	18 28	1 53		n.a.
M10	5 26	5s 0	3 46	14 56	2 35	12 13	0 1	24 23	1 16	9 8	1 43	14 58	2 19	22 47	0 36	0 3	1 51	31 33	11 11	18 3	18 27	1 51		n.a.
T 11	5 50	9 59	2 43	14 46	2 26	12 41	0s 2	24 22	1 18	9 10	1 43	14 59	2 18	22 47	0 36	0 2	1 51	31 32	11 10	18 2	18 26	1 49		n.a.
W12	6 13	14 18	1 29	14 32	2 17	13 9	0 4	24 21	1 19	9 11	1 43	15 0	2 18	22 47	0 36	0 1	1 51	31 32	11 10	18 1	18 25	1 46		n.a.
T 13	6 37	17 37	0 11	14 12	2 5	13 37	0 7	24 20	1 21	9 13	1 43	15 0	2 18	22 47	0 36	0s 0	1 51	31 32	11 10	18 1	18 24	1 44		n.a.
F 14	7 0	19 47	1n 5	13 46	1 52	14 5	0 10	24 19	1 23	9 15	1 42	15 1	2 18	22 47	0 36	0 1	1 51	31 32	11 10	18 1	18 24	1 42		n.a.
S 15	7 24	20 42	2 15	13 16	1 37	14 32	0 12	24 18	1 24	9 16	1 42	15 1	2 18	22 47	0 36	0 2	1 51	31 32	11 9	18 1	18 23	1 40		n.a.
S 16	7 47	20 27	3 16	12 41	1 20	14 58	0 15	24 17	1 26	9 18	1 42	15 2	2 18	22 47	0 36	0 3	1 51	31 31	11 9	18 2	18 22	1 37		n.a.
M17	8 10	19 8	4 5	12 0	1 2	15 25	0 17	24 16	1 28	9 20	1 42	15 2	2 18	22 46	0 35	0 3	1 51	31 31	11 9	18 2	18 21	1 35		n.a.
T 18	8 33	16 56	4 41	11 16	0 43	15 51	0 20	24 15	1 29	9 21	1 41	15 3	2 17	22 46	0 35	0 4	1 51	31 31	11 9	18 2	18 20	1 33		n.a.
W19	8 56	14 2	5 4	10 29	0 23	16 16	0 22	24 14	1 31	9 22	1 41	15 3	2 17	22 46	0 35	0 5	1 51	31 31	11 8	18 2	18 19	1 30		n.a.
T 20	9 19	10 35	5 13	9 40	0 2	16 42	0 25	24 13	1 33	9 24	1 41	15 4	2 17	22 46	0 35	0 6	1 51	31 30	11 8	18 1	18 19	1 28		n.a.
F 21	9 41	6 45	5 9	8 50	0n18	17 6	0 28	24 12	1 35	9 25	1 41	15 4	2 17	22 46	0 35	0 7	1 51	31 30	11 8	18 1	18 18	1 26		n.a.
S 22	10 4	2 41	4 52	8 2	0 39	17 31	0 30	24 11	1 36	9 26	1 40	15 4	2 17	22 46	0 35	0 8	1 51	31 30	11 8	17 59	18 17	1 24		n.a.
S 23	10 26	1n30	4 21	7 16	0 58	17 54	0 33	24 10	1 38	9 27	1 40	15 4	2 17	22 46	0 35	0 8	1 51	31 30	11 7	17 58	18 16	1 21		n.a.
M24	10 48	5 40	3 40	6 34	1 16	18 18	0 35	24 9	1 40	9 28	1 40	15 5	2 16	22 45	0 35	0 9	1 51	31 29	11 7	17 57	18 15	1 19		n.a.
T 25	11 10	9 38	2 48	5 57	1 32	18 41	0 38	24 8	1 42	9 29	1 40	15 5	2 16	22 45	0 35	0 10	1 51	31 29	11 7	17 56	18 14	1 17		n.a.
W26	11 32	13 16	1 48	5 25	1 46	19 3	0 40	24 7	1 44	9 29	1 39	15 5	2 16	22 45	0 35	0 11	1 51	31 29	11 7	17 56	18 14	1 15		n.a.
T 27	11 53	16 22	0 42	5 0	1 58	19 25	0 43	24 6	1 46	9 30	1 39	15 5	2 16	22 45	0 35	0 12	1 51	31 29	11 7	17 55	18 13	1 12		n.a.
F 28	12 15	18 45	0s27	4 41	2 9	19 46	0 45	24 5	1 48	9 31	1 39	15 5	2 16	22 45	0 35	0 13	1 51	31 28	11 6	17 55	18 12	1 10		n.a.
S 29	12 36	20 14	1 36	4 28	2 17	20 7	0 48	24 4	1 49	9 31	1 38	15 5	2 15	22 44	0 35	0 13	1 52	31 28	11 6	17 56	18 11	1 8		n.a.
S 30	12 57	20 42	2 41	4 21	2 23	20 27	0 50	24 4	1 51	9 32	1 38	15 5	2 15	22 44	0 35	0 14	1 52	31 28	11 6	17 56	18 10	1 5		n.a.
M31	13s18	20n 2	3s38	4s20	2n28	20s47	0s52	24n 3	1n53	9s32	1s38	15s 5	2s15	22s44	0s35	0s15	1n52	31s27	11s 6	17s56	18s 9	1s 3		n.a.

Julian Day Number = 1654125.5, Delta T = 03h29m22s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°36'43, Lahiri = - 6°29'42 Julian Calendar 1 Oct. 185 BCE == Greg. Calendar 28 Sept. 185 BCE

The year -184 astronomical counting style corresponds to year 185 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 185 BCE
geocentric

NOVEMBER 185 BCE (-184) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 27 31	5♏53'26	16♋53	16♎56	29♏12	20♋28	9°R39	26°R 5	20♑23	4♎53	28♑52	20♏ 0	20♏44	16♓48	n.a.	T 1
W 2	2 31 28	6°54'26	0♌32	17°23	0♐26	20°45	9♓38	26°D 5	20°25	4°55	28°52	20° 0	20°40	16°55	n.a.	W 2
T 3	2 35 24	7°55'26	14°29	17°58	1°41	21° 2	9°37	26♒ 5	20°26	4°57	28°53	20°R 0	20°37	17° 1	n.a.	T 3
F 4	2 39 21	8°56'28	28°41	18°40	2°56	21°18	9°36	26° 5	20°28	4°59	28°53	20° 0	20°34	17° 8	n.a.	F 4
S 5	2 43 17	9°57'31	13♍ 8	19°28	4°10	21°33	9°35	26° 5	20°30	5° 1	28°54	19°59	20°31	17°15	n.a.	S 5
S 6	2 47 14	10°58'36	27°46	20°23	5°25	21°49	9°35	26° 6	20°31	5° 3	28°54	19°57	20°28	17°22	n.a.	S 6
M 7	2 51 11	11°59'41	12♎28	21°21	6°40	22° 3	9°35	26° 6	20°33	5° 5	28°55	19°56	20°25	17°28	n.a.	M 7
T 8	2 55 7	13° 0'48	27° 9	22°25	7°54	22°17	9°D35	26° 7	20°35	5° 7	28°55	19°56	20°21	17°35	n.a.	T 8
W 9	2 59 4	14° 1'56	11♏42	23°32	9° 9	22°30	9°35	26° 8	20°37	5° 9	28°56	19°55	20°18	17°42	n.a.	W 9
T 10	3 3 0	15° 3'05	26° 0	24°42	10°24	22°43	9°35	26° 8	20°38	5°11	28°57	19°D55	20°15	17°48	n.a.	T 10
F 11	3 6 57	16° 4'14	9♐58	25°55	11°38	22°56	9°36	26° 9	20°40	5°13	28°57	19°56	20°12	17°55	n.a.	F 11
S 12	3 10 53	17° 5'24	23°34	27°10	12°53	23° 7	9°36	26°10	20°42	5°14	28°58	19°56	20° 9	18° 2	n.a.	S 12
S 13	3 14 50	18° 6'35	6♑46	28°27	14° 7	23°19	9°37	26°12	20°44	5°16	28°59	19°56	20° 5	18° 9	n.a.	S 13
M14	3 18 46	19° 7'46	19°35	29°47	15°22	23°29	9°39	26°13	20°46	5°18	28°59	19°56	20° 2	18°15	n.a.	M14
T 15	3 22 43	20° 8'57	2♒ 5	1♏ 7	16°36	23°39	9°40	26°14	20°48	5°20	29° 0	19°R56	19°59	18°22	n.a.	T 15
W16	3 26 40	21°10'09	14°18	2°30	17°51	23°48	9°42	26°16	20°50	5°21	29° 1	19°56	19°56	18°29	n.a.	W16
T 17	3 30 36	22°11'21	26°19	3°53	19° 5	23°57	9°43	26°17	20°53	5°23	29° 2	19°D56	19°53	18°35	n.a.	T 17
F 18	3 34 33	23°12'33	8♓13	5°18	20°20	24° 5	9°45	26°19	20°55	5°25	29° 3	19°56	19°50	18°42	n.a.	F 18
S 19	3 38 29	24°13'45	20° 4	6°43	21°34	24°13	9°48	26°21	20°57	5°26	29° 3	19°57	19°46	18°49	n.a.	S 19
S 20	3 42 26	25°14'58	1♈57	8° 9	22°49	24°19	9°50	26°23	20°59	5°28	29° 4	19°57	19°43	18°55	n.a.	S 20
M21	3 46 22	26°16'11	13°56	9°36	24° 3	24°25	9°53	26°25	21° 2	5°30	29° 5	19°58	19°40	19° 2	n.a.	M21
T 22	3 50 19	27°17'24	26° 4	11° 3	25°18	24°31	9°56	26°27	21° 4	5°31	29° 6	19°59	19°37	19° 9	n.a.	T 22
W23	3 54 15	28°18'37	8♉25	12°31	26°32	24°36	9°59	26°29	21° 6	5°33	29° 7	19°59	19°34	19°16	n.a.	W23
T 24	3 58 12	29°19'50	20°59	14° 0	27°46	24°40	10° 2	26°31	21° 9	5°34	29° 8	19°R59	19°30	19°22	n.a.	T 24
F 25	4 2 9	0♐21'04	3♊48	15°29	29° 1	24°43	10° 5	26°34	21°11	5°36	29° 9	19°59	19°27	19°29	n.a.	F 25
S 26	4 6 5	1°22'18	16°52	16°59	0♑15	24°45	10° 9	26°36	21°14	5°37	29°10	19°58	19°24	19°36	n.a.	S 26
S 27	4 10 2	2°23'32	0♋11	18°29	1°29	24°47	10°13	26°39	21°16	5°39	29°11	19°57	19°21	19°42	n.a.	S 27
M28	4 13 58	3°24'47	13°43	19°59	2°43	24°48	10°17	26°41	21°19	5°40	29°12	19°55	19°18	19°49	n.a.	M28
T 29	4 17 55	4°26'02	27°26	21°30	3°58	24°R49	10°21	26°44	21°21	5°41	29°13	19°53	19°15	19°56	n.a.	T 29
W30	4 21 51	5♐27'17	11♌19	23♏ 1	5♑12	24♋48	10♓25	26♒47	21♑24	5♎43	29♑14	19♏51	19♏11	20♓ 3	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s38	18n15	4s26	4s24	2n31	21s 6	0s55	24n 2	1n55	9s32	1s38	15s 5	2s15	22s44	0s35	0s16	1n52	31s27	11s 5	17s57	18s 8	1s 1		n.a.
W 2	13 59	15 24	4 59	4 33	2 33	21 24	0 57	24 2	1 57	9 33	1 37	15 5	2 15	22 43	0 35	0 16	1 52	31 27	11 5	17 57	18 8	0 59		n.a.
T 3	14 19	11 39	5 15	4 46	2 33	21 42	0 59	24 1	2 0	9 33	1 37	15 4	2 15	22 43	0 35	0 17	1 52	31 26	11 5	17 57	18 7	0 56		n.a.
F 4	14 39	7 10	5 13	5 3	2 32	22 0	1 2	24 1	2 2	9 33	1 37	15 4	2 14	22 43	0 35	0 18	1 52	31 26	11 5	17 57	18 6	0 54		n.a.
S 5	14 58	2 13	4 51	5 23	2 31	22 16	1 4	24 0	2 4	9 33	1 36	15 4	2 14	22 43	0 35	0 19	1 52	31 26	11 4	17 56	18 5	0 52		n.a.
S 6	15 18	2s55	4 11	5 46	2 28	22 32	1 6	24 0	2 6	9 33	1 36	15 4	2 14	22 42	0 35	0 19	1 52	31 25	11 4	17 56	18 4	0 50		n.a.
M 7	15 37	7 56	3 13	6 12	2 25	22 48	1 8	23 59	2 8	9 33	1 36	15 3	2 14	22 42	0 35	0 20	1 52	31 25	11 4	17 56	18 3	0 47		n.a.
T 8	15 55	12 29	2 3	6 39	2 20	23 2	1 10	23 59	2 10	9 32	1 35	15 3	2 14	22 42	0 35	0 21	1 52	31 25	11 4	17 56	18 2	0 45		n.a.
W 9	16 14	16 14	0 46	7 8	2 16	23 16	1 12	23 59	2 12	9 32	1 35	15 3	2 13	22 41	0 35	0 22	1 52	31 24	11 4	17 55	18 2	0 43		n.a.
T 10	16 32	18 56	0n34	7 39	2 11	23 30	1 14	23 59	2 15	9 32	1 35	15 2	2 13	22 41	0 35	0 22	1 52	31 24	11 3	17 55	18 1	0 41		n.a.
F 11	16 50	20 24	1 49	8 11	2 5	23 42	1 16	23 59	2 17	9 31	1 34	15 2	2 13	22 41	0 35	0 23	1 52	31 24	11 3	17 55	18 0	0 38		n.a.
S 12	17 8	20 37	2 56	8 44	1 59	23 54	1 18	24 0	2 19	9 30	1 34	15 1	2 13	22 40	0 35	0 24	1 52	31 23	11 3	17 56	17 59	0 36		n.a.
S 13	17 25	19 41	3 52	9 17	1 53	24 5	1 20	24 0	2 21	9 30	1 34	15 0	2 13	22 40	0 35	0 24	1 52	31 23	11 3	17 56	17 58	0 34		n.a.
M14	17 42	17 45	4 34	9 52	1 47	24 16	1 22	24 0	2 24	9 29	1 34	15 0	2 12	22 40	0 35	0 25	1 52	31 22	11 2	17 56	17 57	0 32		n.a.
T 15	17 59	15 1	5 2	10 27	1 40	24 26	1 24	24 1	2 26	9 28	1 33	14 59	2 12	22 39	0 35	0 26	1 52	31 22	11 2	17 56	17 56	0 29		n.a.
W16	18 16	11 41	5 16	11 2	1 33	24 35	1 26	24 2	2 28	9 27	1 33	14 58	2 12	22 39	0 35	0 26	1 52	31 22	11 2	17 56	17 56	0 27		n.a.
T 17	18 32	7 57	5 16	11 37	1 26	24 43	1 27	24 2	2 31	9 26	1 33	14 58	2 12	22 39	0 35	0 27	1 52	31 21	11 2	17 56	17 55	0 25		n.a.
F 18	18 47	3 56	5 2	12 12	1 19	24 50	1 29	24 3	2 33	9 25	1 32	14 57	2 12	22 38	0 35	0 27	1 52	31 21	11 2	17 56	17 54	0 23		n.a.
S 19	19 3	0n14	4 35	12 47	1 12	24 57	1 31	24 4	2 36	9 24	1 32	14 56	2 12	22 38	0 35	0 28	1 52	31 21	11 1	17 56	17 53	0 20		n.a.
S 20	19 18	4 23	3 56	13 22	1 4	25 3	1 32	24 5	2 38	9 23	1 32	14 55	2 11	22 38	0 35	0 29	1 52	31 20	11 1	17 56	17 52	0 18		n.a.
M21	19 32	8 25	3 7	13 57	0 57	25 8	1 34	24 7	2 40	9 22	1 31	14 55	2 11	22 37	0 35	0 29	1 53	31 20	11 1	17 56	17 51	0 16		n.a.
T 22	19 47	12 11	2 9	14 32	0 50	25 13	1 35	24 8	2 43	9 20	1 31	14 54	2 11	22 37	0 35	0 30	1 53	31 19	11 1	17 56	17 50	0 14		n.a.
W23	20 1	15 29	1 4	15 6	0 42	25 17	1 37	24 10	2 45	9 19	1 31	14 53	2 11	22 37	0 35	0 30	1 53	31 19	11 1	17 56	17 50	0 11		n.a.
T 24	20 14	18 7	0s 6	15 40	0 35	25 20	1 38	24 12	2 48	9 17	1 30	14 52	2 11	22 36	0 35	0 31	1 53	31 18	11 0	17 57	17 49	0 9		n.a.
F 25	20 28	19 55	1 16	16 13	0 28	25 22	1 39	24 13	2 50	9 16	1 30	14 51	2 10	22 36	0 35	0 32	1 53	31 18	11 0	17 56	17 48	0 7		n.a.
S 26	20 40	20 41	2 24	16 46	0 21	25 23	1 40	24 15	2 53	9 14	1 30	14 50	2 10	22 35	0 35	0 32	1 53	31 18	11 0	17 56	17 47	0 5		n.a.
S 27	20 53	20 18	3 25	17 19	0 13	25 24	1 41	24 18	2 56	9 12	1 29	14 49	2 10	22 35	0 35	0 33	1 53	31 17	11 0	17 56	17 46	0 2		n.a.
M28	21 5	18 46	4 15	17 50	0 6	25 24	1 42	24 20	2 58	9 10	1 29	14 47	2 10	22 34	0 35	0 33	1 53	31 17	11 0	17 55	17 45	0 0		n.a.
T 29	21 16	16 8	4 52	18 21	0s 1	25 23	1 43	24 22	3 1	9 9	1 29	14 46	2 10	22 34	0 35	0 34	1 53	31 16	10 59	17 55	17 44	0n 2		n.a.
W30	21s28	12n34	5s12	18s52	0s 8	25s21	1s44	24n25	3n 3	9s 7	1s29	14s45	2s 9	22s34	0s35	0s34	1n53	31s16	10s59	17s54	17s43	0n 4		n.a.

Julian Day Number = 1654156.5, Delta T = 03h29m21s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°36'39, Lahiri = - 6°29'38 Julian Calendar 1 Nov. 185 BCE == Greg. Calendar 29 Oct. 185 BCE

The year -184 astronomical counting style corresponds to year 185 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 185 BCE
geocentric

DECEMBER 185 BCE (-184) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 25 48	6♐28'32	25♌20	24♏32	6♑26	24°R47	10♓30	26♒50	21♑27	5♎44	29♑16	19°R50	19♏ 8	20♓ 9	n.a.	T 1
F 2	4 29 45	7°29'47	9♍28	26° 4	7°40	24♋45	10°35	26°53	21°29	5°45	29°17	19°D50	19° 5	20°16	n.a.	F 2
S 3	4 33 41	8°31'03	23°39	27°36	8°54	24°42	10°39	26°57	21°32	5°47	29°18	19♏50	19° 2	20°23	n.a.	S 3
S 4	4 37 38	9°32'19	7♎53	29° 9	10° 8	24°38	10°45	27° 0	21°35	5°48	29°19	19°52	18°59	20°29	n.a.	S 4
M 5	4 41 34	10°33'35	22° 7	0♐41	11°22	24°34	10°50	27° 3	21°38	5°49	29°20	19°53	18°56	20°36	n.a.	M 5
T 6	4 45 31	11°34'51	6♏18	2°15	12°36	24°29	10°55	27° 7	21°41	5°50	29°21	19°54	18°52	20°43	n.a.	T 6
W 7	4 49 27	12°36'07	20°23	3°48	13°50	24°23	11° 1	27°10	21°43	5°51	29°23	19°R55	18°49	20°49	n.a.	W 7
T 8	4 53 24	13°37'23	4♐17	5°22	15° 4	24°16	11° 7	27°14	21°46	5°52	29°24	19°54	18°46	20°56	n.a.	T 8
F 9	4 57 20	14°38'39	17°59	6°57	16°18	24° 8	11°13	27°18	21°49	5°54	29°25	19°52	18°43	21° 3	n.a.	F 9
S 10	5 1 17	15°39'55	1♑24	8°31	17°32	23°59	11°19	27°22	21°52	5°55	29°26	19°49	18°40	21°10	n.a.	S 10
S 11	5 5 14	16°41'10	14°31	10° 6	18°46	23°50	11°25	27°26	21°55	5°56	29°28	19°44	18°36	21°16	n.a.	S 11
M12	5 9 10	17°42'24	27°19	11°42	20° 0	23°40	11°32	27°30	21°58	5°57	29°29	19°40	18°33	21°23	n.a.	M12
T 13	5 13 7	18°43'38	9♒50	13°18	21°14	23°29	11°39	27°34	22° 1	5°58	29°30	19°35	18°30	21°30	n.a.	T 13
W14	5 17 3	19°44'51	22° 5	14°55	22°27	23°17	11°46	27°38	22° 4	5°59	29°32	19°31	18°27	21°36	n.a.	W14
T 15	5 21 0	20°46'03	4♓ 7	16°32	23°41	23° 5	11°53	27°42	22° 7	5°59	29°33	19°28	18°24	21°43	n.a.	T 15
F 16	5 24 56	21°47'14	16° 1	18° 9	24°55	22°51	12° 0	27°47	22°10	6° 0	29°35	19°26	18°21	21°50	n.a.	F 16
S 17	5 28 53	22°48'24	27°52	19°47	26° 8	22°37	12° 7	27°51	22°14	6° 1	29°36	19°D26	18°17	21°56	n.a.	S 17
S 18	5 32 49	23°49'34	9♈45	21°26	27°22	22°22	12°15	27°56	22°17	6° 2	29°37	19°28	18°14	22° 3	n.a.	S 18
M19	5 36 46	24°50'42	21°43	23° 5	28°35	22° 7	12°22	28° 1	22°20	6° 3	29°39	19°29	18°11	22°10	n.a.	M19
T 20	5 40 43	25°51'50	3♉54	24°44	29°49	21°51	12°30	28° 5	22°23	6° 3	29°40	19°31	18° 8	22°17	n.a.	T 20
W21	5 44 39	26°52'56	16°19	26°25	1♒ 2	21°34	12°38	28°10	22°26	6° 4	29°42	19°R32	18° 5	22°23	n.a.	W21
T 22	5 48 36	27°54'02	29° 4	28° 5	2°15	21°16	12°46	28°15	22°30	6° 5	29°43	19°32	18° 2	22°30	n.a.	T 22
F 23	5 52 32	28°55'07	12♊ 9	29°47	3°29	20°58	12°54	28°20	22°33	6° 5	29°45	19°29	17°58	22°37	n.a.	F 23
S 24	5 56 29	29°56'10	25°35	1♑29	4°42	20°39	13° 3	28°25	22°36	6° 6	29°46	19°25	17°55	22°43	n.a.	S 24
S 25	6 0 25	0♑57'13	9♋20	3°11	5°55	20°19	13°11	28°30	22°39	6° 7	29°48	19°19	17°52	22°50	n.a.	S 25
M26	6 4 22	1°58'15	23°22	4°54	7° 8	19°59	13°20	28°35	22°43	6° 7	29°49	19°12	17°49	22°57	n.a.	M26
T 27	6 8 19	2°59'16	7♌34	6°38	8°21	19°39	13°29	28°41	22°46	6° 8	29°51	19° 5	17°46	23° 3	n.a.	T 27
W28	6 12 15	4° 0'16	21°53	8°22	9°34	19°18	13°38	28°46	22°49	6° 8	29°52	18°58	17°42	23°10	n.a.	W28
T 29	6 16 12	5° 1'15	6♍13	10° 6	10°47	18°56	13°47	28°51	22°53	6° 9	29°54	18°53	17°39	23°17	n.a.	T 29
F 30	6 20 8	6° 2'13	20°30	11°52	12° 0	18°34	13°56	28°57	22°56	6° 9	29°56	18°50	17°36	23°24	n.a.	F 30
S 31	6 24 5	7♑ 3'11	4♎41	13♑37	13♒13	18♋12	14♓ 5	29♒ 3	22♑59	6♎ 9	29♑57	18°D49	17♏33	23♓30	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	21s38	8n17	5s15	19s21	0s15	25s18	1s45	24n28	3n 6	9s 5	1s28	14s44	2s 9	22s33	0s35	0s35	1n53	31s16	10s59	17s54	17s43	0n 6			n.a.
F 2	21 49	3 31	4 58	19 50	0 21	25 15	1 46	24 31	3 9	9 2	1 28	14 43	2 9	22 33	0 35	0 35	1 53	31 15	10 59	17 54	17 42	0 9			n.a.
S 3	21 59	1s28	4 23	20 18	0 28	25 11	1 46	24 34	3 11	9 0	1 28	14 41	2 9	22 32	0 35	0 35	1 53	31 15	10 59	17 54	17 41	0 11			n.a.
S 4	22 8	6 24	3 32	20 45	0 34	25 6	1 47	24 37	3 14	8 58	1 27	14 40	2 9	22 32	0 34	0 36	1 53	31 14	10 59	17 54	17 40	0 13			n.a.
M 5	22 17	10 59	2 27	21 12	0 41	25 0	1 47	24 41	3 16	8 56	1 27	14 39	2 9	22 31	0 34	0 36	1 53	31 14	10 58	17 55	17 39	0 15			n.a.
T 6	22 26	14 57	1 14	21 37	0 47	24 54	1 48	24 44	3 19	8 53	1 27	14 37	2 8	22 31	0 34	0 37	1 53	31 13	10 58	17 55	17 38	0 18			n.a.
W 7	22 34	18 0	0n 3	22 1	0 53	24 47	1 48	24 48	3 22	8 51	1 26	14 36	2 8	22 30	0 34	0 37	1 53	31 13	10 58	17 55	17 37	0 20			n.a.
T 8	22 42	19 58	1 18	22 24	0 59	24 39	1 49	24 52	3 24	8 48	1 26	14 34	2 8	22 30	0 34	0 38	1 53	31 13	10 58	17 55	17 36	0 22			n.a.
F 9	22 49	20 42	2 28	22 47	1 4	24 30	1 49	24 56	3 27	8 46	1 26	14 33	2 8	22 29	0 34	0 38	1 54	31 12	10 58	17 55	17 35	0 24			n.a.
S 10	22 56	20 14	3 28	23 8	1 10	24 21	1 49	25 0	3 29	8 43	1 26	14 31	2 8	22 29	0 34	0 38	1 54	31 12	10 58	17 54	17 35	0 26			n.a.
S 11	23 2	18 40	4 16	23 28	1 15	24 11	1 49	25 4	3 32	8 40	1 25	14 30	2 8	22 28	0 34	0 39	1 54	31 11	10 57	17 52	17 34	0 29			n.a.
M12	23 8	16 12	4 50	23 46	1 20	24 0	1 49	25 8	3 35	8 38	1 25	14 28	2 7	22 28	0 34	0 39	1 54	31 11	10 57	17 51	17 33	0 31			n.a.
T 13	23 14	13 2	5 8	24 4	1 25	23 49	1 49	25 13	3 37	8 35	1 25	14 27	2 7	22 27	0 34	0 39	1 54	31 10	10 57	17 50	17 32	0 33			n.a.
W14	23 19	9 23	5 13	24 20	1 30	23 36	1 49	25 17	3 40	8 32	1 25	14 25	2 7	22 27	0 34	0 40	1 54	31 10	10 57	17 49	17 31	0 35			n.a.
T 15	23 23	5 25	5 3	24 35	1 34	23 23	1 48	25 22	3 42	8 29	1 24	14 23	2 7	22 26	0 34	0 40	1 54	31 9	10 57	17 48	17 30	0 38			n.a.
F 16	23 27	1 17	4 40	24 49	1 38	23 10	1 48	25 26	3 45	8 26	1 24	14 22	2 7	22 26	0 34	0 40	1 54	31 9	10 57	17 48	17 29	0 40			n.a.
S 17	23 31	2n53	4 5	25 1	1 42	22 55	1 47	25 31	3 47	8 23	1 24	14 20	2 7	22 25	0 34	0 40	1 54	31 9	10 57	17 48	17 28	0 42			n.a.
S 18	23 34	6 58	3 20	25 11	1 46	22 41	1 47	25 36	3 49	8 20	1 23	14 18	2 6	22 25	0 34	0 41	1 54	31 8	10 57	17 48	17 27	0 44			n.a.
M19	23 37	10 49	2 26	25 21	1 49	22 25	1 46	25 41	3 52	8 16	1 23	14 16	2 6	22 24	0 34	0 41	1 54	31 8	10 56	17 48	17 27	0 46			n.a.
T 20	23 39	14 17	1 24	25 28	1 52	22 9	1 46	25 46	3 54	8 13	1 23	14 15	2 6	22 24	0 34	0 41	1 54	31 7	10 56	17 49	17 26	0 49			n.a.
W21	23 41	17 11	0 17	25 34	1 54	21 52	1 45	25 51	3 56	8 10	1 23	14 13	2 6	22 23	0 34	0 41	1 54	31 7	10 56	17 49	17 25	0 51			n.a.
T 22	23 42	19 20	0s52	25 39	1 57	21 34	1 44	25 56	3 58	8 7	1 22	14 11	2 6	22 23	0 34	0 42	1 54	31 6	10 56	17 49	17 24	0 53			n.a.
F 23	23 43	20 32	2 0	25 42	1 59	21 16	1 43	26 1	4 0	8 3	1 22	14 9	2 6	22 22	0 34	0 42	1 54	31 6	10 56	17 48	17 23	0 55			n.a.
S 24	23 43	20 35	3 3	25 43	2 0	20 57	1 42	26 6	4 2	8 0	1 22	14 7	2 6	22 22	0 34	0 42	1 55	31 6	10 56	17 47	17 22	0 57			n.a.
S 25	23 43	19 26	3 57	25 42	2 1	20 38	1 41	26 11	4 4	7 56	1 22	14 5	2 5	22 21	0 34	0 42	1 55	31 5	10 56	17 46	17 21	1 0			n.a.
M26	23 42	17 6	4 38	25 39	2 2	20 18	1 40	26 16	4 6	7 52	1 21	14 3	2 5	22 20	0 34	0 42	1 55	31 5	10 56	17 44	17 20	1 2			n.a.
T 27	23 41	13 43	5 2	25 35	2 2	19 58	1 38	26 21	4 8	7 49	1 21	14 1	2 5	22 20	0 34	0 42	1 55	31 4	10 56	17 42	17 19	1 4			n.a.
W28	23 39	9 31	5 8	25 29	2 2	19 37	1 37	26 26	4 10	7 45	1 21	13 59	2 5	22 19	0 34	0 43	1 55	31 4	10 56	17 40	17 19	1 6			n.a.
T 29	23 37	4 47	4 55	25 21	2 2	19 16	1 35	26 31	4 12	7 41	1 21	13 57	2 5	22 19	0 34	0 43	1 55	31 3	10 56	17 38	17 18	1 8			n.a.
F 30	23 35	0s13	4 23	25 11	2 1	18 54	1 34	26 35	4 13	7 37	1 20	13 55	2 5	22 18	0 34	0 43	1 55	31 3	10 56	17 37	17 17	1 11			n.a.
S 31	23s32	5s10	3s35	24s59	1s59	18s31	1s32	26n40	4n15	7s34	1s20	13s53	2s 5	22s18	0s34	0s43	1n55	31s 3	10s55	17s37	17s16	1n13			n.a.

Julian Day Number = 1654186.5, Delta T = 03h29m20s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°36'35, Lahiri = - 6°29'34 Julian Calendar 1 Dec. 185 BCE == Greg. Calendar 28 Nov. 185 BCE

The year -184 astronomical counting style corresponds to year 185 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 184 BCE
geocentric

JANUARY 184 BCE (-183) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 28 1	8♉ 4'07	18♎44	15♉23	14♒25	17°R49	14♓15	29♒ 8	23♉ 3	6♎10	29♉59	18♏49	17♏30	23♓37	n.a.	S 1
M 2	6 31 58	9° 5'03	2♏39	17° 9	15°38	17♋26	14°24	29°14	23° 6	6°10	0♒ 0	18°50	17°27	23°44	n.a.	M 2
T 3	6 35 54	10° 5'58	16°25	18°56	16°50	17° 2	14°34	29°20	23°10	6°10	0° 2	18°R51	17°23	23°50	n.a.	T 3
W 4	6 39 51	11° 6'52	0♐ 2	20°42	18° 3	16°39	14°44	29°25	23°13	6°10	0° 4	18°50	17°20	23°57	n.a.	W 4
T 5	6 43 48	12° 7'45	13°29	22°29	19°15	16°15	14°54	29°31	23°16	6°11	0° 5	18°48	17°17	24° 4	n.a.	T 5
F 6	6 47 44	13° 8'36	26°46	24°15	20°28	15°51	15° 4	29°37	23°20	6°11	0° 7	18°42	17°14	24°10	n.a.	F 6
S 7	6 51 41	14° 9'27	9♑51	26° 1	21°40	15°27	15°14	29°43	23°23	6°11	0° 9	18°34	17°11	24°17	n.a.	S 7
S 8	6 55 37	15°10'16	22°43	27°46	22°52	15° 3	15°25	29°49	23°27	6°11	0°10	18°24	17° 8	24°24	n.a.	S 8
M 9	6 59 34	16°11'03	5♒21	29°30	24° 4	14°39	15°35	29°56	23°30	6°11	0°12	18°13	17° 4	24°31	n.a.	M 9
T 10	7 3 30	17°11'49	17°46	1♒13	25°16	14°15	15°46	0♓ 2	23°34	6°R11	0°13	18° 2	17° 1	24°37	n.a.	T 10
W11	7 7 27	18°12'33	29°58	2°54	26°28	13°51	15°56	0° 8	23°37	6°11	0°15	17°52	16°58	24°44	n.a.	W11
T 12	7 11 23	19°13'16	11♓59	4°33	27°40	13°28	16° 7	0°14	23°41	6°11	0°17	17°43	16°55	24°51	n.a.	T 12
F 13	7 15 20	20°13'57	23°52	6°10	28°52	13° 4	16°18	0°21	23°44	6°11	0°19	17°37	16°52	24°57	n.a.	F 13
S 14	7 19 17	21°14'36	5♈42	7°43	0♓ 3	12°41	16°29	0°27	23°48	6°11	0°20	17°33	16°48	25° 4	n.a.	S 14
S 15	7 23 13	22°15'13	17°32	9°13	1°15	12°18	16°40	0°34	23°51	6°11	0°22	17°D32	16°45	25°11	n.a.	S 15
M16	7 27 10	23°15'48	29°29	10°39	2°26	11°55	16°51	0°40	23°55	6°10	0°24	17°32	16°42	25°17	n.a.	M16
T 17	7 31 6	24°16'21	11♉37	11°59	3°38	11°33	17° 2	0°47	23°58	6°10	0°25	17°R32	16°39	25°24	n.a.	T 17
W18	7 35 3	25°16'53	24° 2	13°14	4°49	11°11	17°14	0°53	24° 1	6°10	0°27	17°32	16°36	25°31	n.a.	W18
T 19	7 38 59	26°17'23	6♊49	14°22	6° 0	10°49	17°25	1° 0	24° 5	6°10	0°29	17°31	16°33	25°37	n.a.	T 19
F 20	7 42 56	27°17'50	20° 0	15°24	7°11	10°28	17°37	1° 7	24° 8	6° 9	0°30	17°27	16°29	25°44	n.a.	F 20
S 21	7 46 52	28°18'16	3♋39	16°18	8°22	10° 8	17°48	1°13	24°12	6° 9	0°32	17°20	16°26	25°51	n.a.	S 21
S 22	7 50 49	29°18'40	17°42	17° 3	9°33	9°48	18° 0	1°20	24°15	6° 9	0°34	17°11	16°23	25°58	n.a.	S 22
M23	7 54 46	0♒19'02	2♌ 7	17°40	10°43	9°29	18°12	1°27	24°19	6° 8	0°35	17° 0	16°20	26° 4	n.a.	M23
T 24	7 58 42	1°19'22	16°48	18° 7	11°54	9°10	18°24	1°34	24°22	6° 8	0°37	16°48	16°17	26°11	n.a.	T 24
W25	8 2 39	2°19'41	1♍35	18°25	13° 4	8°52	18°36	1°41	24°26	6° 7	0°39	16°38	16°14	26°18	n.a.	W25
T 26	8 6 35	3°19'57	16°21	18°R33	14°14	8°34	18°48	1°48	24°29	6° 7	0°41	16°29	16°10	26°24	n.a.	T 26
F 27	8 10 32	4°20'12	0♎59	18°31	15°24	8°18	19° 0	1°55	24°33	6° 6	0°42	16°23	16° 7	26°31	n.a.	F 27
S 28	8 14 28	5°20'26	15°23	18°20	16°34	8° 1	19°12	2° 2	24°36	6° 6	0°44	16°19	16° 4	26°38	n.a.	S 28
S 29	8 18 25	6°20'38	29°31	17°59	17°44	7°46	19°25	2° 9	24°40	6° 5	0°46	16°18	16° 1	26°44	n.a.	S 29
M30	8 22 21	7°20'48	13♏22	17°29	18°54	7°31	19°37	2°16	24°43	6° 5	0°47	16°18	15°58	26°51	n.a.	M30
T 31	8 26 18	8♒20'57	26♏56	16♒52	20♓ 3	7♋17	19♓50	2♓23	24♉46	6♎ 4	0♒49	16♏18	15♏54	26♓58	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s28	9s48	2s35	24s45	1s57	18s 8	1s30	26n45	4n16	7s30	1s20	13s51	2s 5	22s17	0s34	0s43	1n55	31s 2	10s55	17s37	17s15	1n15		n.a.
M 2	23 24	13 53	1 26	24 29	1 54	17 45	1 29	26 49	4 17	7 26	1 20	13 49	2 4	22 16	0 34	0 43	1 55	31 2	10 55	17 37	17 14	1 17		n.a.
T 3	23 20	17 9	0 13	24 11	1 51	17 21	1 27	26 53	4 19	7 22	1 19	13 47	2 4	22 16	0 34	0 43	1 55	31 1	10 55	17 38	17 13	1 19		n.a.
W 4	23 15	19 25	1n 0	23 51	1 47	16 56	1 25	26 58	4 20	7 18	1 19	13 44	2 4	22 15	0 34	0 43	1 55	31 1	10 55	17 38	17 12	1 22		n.a.
T 5	23 9	20 33	2 8	23 29	1 42	16 32	1 23	27 2	4 21	7 14	1 19	13 42	2 4	22 15	0 34	0 43	1 55	31 0	10 55	17 37	17 11	1 24		n.a.
F 6	23 3	20 32	3 9	23 6	1 37	16 6	1 20	27 5	4 22	7 9	1 19	13 40	2 4	22 14	0 34	0 43	1 55	31 0	10 55	17 35	17 10	1 26		n.a.
S 7	22 57	19 23	3 58	22 40	1 30	15 41	1 18	27 9	4 23	7 5	1 19	13 38	2 4	22 14	0 34	0 43	1 55	31 0	10 55	17 33	17 9	1 28		n.a.
S 8	22 50	17 16	4 35	22 13	1 24	15 15	1 16	27 13	4 23	7 1	1 18	13 36	2 4	22 13	0 34	0 43	1 56	30 59	10 55	17 30	17 9	1 30		n.a.
M 9	22 43	14 21	4 57	21 44	1 16	14 48	1 13	27 16	4 24	6 57	1 18	13 33	2 4	22 12	0 34	0 43	1 56	30 59	10 55	17 27	17 8	1 33		n.a.
T 10	22 36	10 52	5 4	21 13	1 8	14 22	1 11	27 19	4 24	6 52	1 18	13 31	2 4	22 12	0 34	0 43	1 56	30 58	10 55	17 24	17 7	1 35		n.a.
W11	22 28	6 59	4 57	20 41	0 59	13 54	1 8	27 22	4 25	6 48	1 18	13 29	2 3	22 11	0 34	0 43	1 56	30 58	10 55	17 21	17 6	1 37		n.a.
T 12	22 19	2 52	4 38	20 8	0 49	13 27	1 6	27 25	4 25	6 44	1 17	13 26	2 3	22 11	0 34	0 43	1 56	30 58	10 55	17 19	17 5	1 39		n.a.
F 13	22 10	1n18	4 6	19 34	0 38	12 59	1 3	27 28	4 25	6 39	1 17	13 24	2 3	22 10	0 34	0 43	1 56	30 57	10 55	17 17	17 4	1 41		n.a.
S 14	22 1	5 24	3 24	18 58	0 26	12 31	1 0	27 30	4 25	6 35	1 17	13 21	2 3	22 9	0 34	0 43	1 56	30 57	10 55	17 16	17 3	1 43		n.a.
S 15	21 51	9 18	2 33	18 23	0 14	12 3	0 57	27 32	4 25	6 30	1 17	13 19	2 3	22 9	0 34	0 42	1 56	30 56	10 55	17 15	17 2	1 46		n.a.
M16	21 41	12 53	1 35	17 47	0 1	11 34	0 54	27 34	4 25	6 25	1 17	13 17	2 3	22 8	0 34	0 42	1 56	30 56	10 55	17 15	17 1	1 48		n.a.
T 17	21 31	16 0	0 32	17 11	0n13	11 5	0 51	27 36	4 25	6 21	1 16	13 14	2 3	22 8	0 34	0 42	1 56	30 56	10 55	17 16	17 0	1 50		n.a.
W18	21 20	18 26	0s35	16 36	0 27	10 36	0 48	27 38	4 24	6 16	1 16	13 12	2 3	22 7	0 34	0 42	1 56	30 55	10 55	17 16	16 59	1 52		n.a.
T 19	21 8	20 3	1 41	16 2	0 42	10 7	0 45	27 39	4 24	6 11	1 16	13 9	2 3	22 6	0 34	0 42	1 56	30 55	10 55	17 15	16 58	1 54		n.a.
F 20	20 56	20 37	2 43	15 29	0 58	9 37	0 42	27 40	4 23	6 7	1 16	13 7	2 3	22 6	0 34	0 42	1 56	30 55	10 55	17 14	16 58	1 56		n.a.
S 21	20 44	20 1	3 39	14 58	1 13	9 7	0 38	27 41	4 23	6 2	1 16	13 4	2 3	22 5	0 34	0 41	1 56	30 54	10 55	17 12	16 57	1 59		n.a.
S 22	20 32	18 11	4 23	14 29	1 29	8 37	0 35	27 42	4 22	5 57	1 16	13 2	2 3	22 4	0 34	0 41	1 57	30 54	10 55	17 9	16 56	2 1		n.a.
M23	20 19	15 11	4 51	14 3	1 45	8 7	0 32	27 43	4 21	5 52	1 15	12 59	2 3	22 4	0 34	0 41	1 57	30 53	10 55	17 6	16 55	2 3		n.a.
T 24	20 6	11 12	5 1	13 39	2 1	7 37	0 28	27 43	4 20	5 47	1 15	12 57	2 2	22 3	0 34	0 41	1 57	30 53	10 55	17 3	16 54	2 5		n.a.
W25	19 52	6 30	4 51	13 19	2 17	7 6	0 24	27 44	4 19	5 42	1 15	12 54	2 2	22 3	0 34	0 41	1 57	30 53	10 55	17 0	16 53	2 7		n.a.
T 26	19 38	1 26	4 22	13 2	2 32	6 35	0 21	27 44	4 18	5 38	1 15	12 52	2 2	22 2	0 34	0 40	1 57	30 52	10 55	16 57	16 52	2 9		n.a.
F 27	19 24	3s41	3 35	12 48	2 47	6 5	0 17	27 44	4 17	5 33	1 15	12 49	2 2	22 1	0 34	0 40	1 57	30 52	10 55	16 56	16 51	2 12		n.a.
S 28	19 9	8 31	2 36	12 39	3 0	5 34	0 13	27 44	4 16	5 28	1 14	12 46	2 2	22 1	0 34	0 40	1 57	30 52	10 56	16 55	16 50	2 14		n.a.
S 29	18 54	12 48	1 28	12 34	3 13	5 3	0 9	27 43	4 15	5 23	1 14	12 44	2 2	22 0	0 34	0 39	1 57	30 51	10 56	16 54	16 49	2 16		n.a.
M30	18 39	16 17	0 16	12 32	3 23	4 31	0 5	27 43	4 14	5 17	1 14	12 41	2 2	22 0	0 34	0 39	1 57	30 51	10 56	16 54	16 48	2 18		n.a.
T 31	18s23	18s47	0n56	12s35	3n33	4s 0	0s 1	27n43	4n12	5s12	1s14	12s38	2s 2	21s59	0s34	0s39	1n57	30s51	10s56	16s54	16s47	2n20		n.a.

Julian Day Number = 1654217.5, Delta T = 03h29m19s
Ecliptic obliquity = 23°42'56, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°36'30, Lahiri = - 6°29'30 Julian Calendar 1 Jan. 184 BCE == Greg. Calendar 29 Dec. 185 BCE

The year -183 astronomical counting style corresponds to year 184 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 184 BCE
geocentric

FEBRUARY 184 BCE (-183) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	8 30 15	9♒21'04	10♐16	16°R 7	21♓13	7°R 4	20♓ 2	2♓30	24♑50	6°R 3	0♒51	16°R16	15♏51	27♓ 4	n.a.	W 1
T 2	8 34 11	10°21'09	23°22	15♒17	22°22	6♋52	20°15	2°37	24°53	6♎ 2	0°52	16♏12	15°48	27°11	n.a.	T 2
F 3	8 38 8	11°21'13	6♑17	14°21	23°31	6°40	20°27	2°45	24°57	6° 2	0°54	16° 5	15°45	27°18	n.a.	F 3
S 4	8 42 4	12°21'15	19° 1	13°23	24°40	6°29	20°40	2°52	25° 0	6° 1	0°56	15°54	15°42	27°25	n.a.	S 4
S 5	8 46 1	13°21'14	1♒34	12°23	25°49	6°19	20°53	2°59	25° 3	6° 0	0°57	15°42	15°39	27°31	n.a.	S 5
M 6	8 49 57	14°21'12	13°58	11°22	26°58	6° 9	21° 6	3° 6	25° 7	5°59	0°59	15°27	15°35	27°38	n.a.	M 6
T 7	8 53 54	15°21'08	26°11	10°22	28° 6	6° 1	21°19	3°14	25°10	5°58	1° 1	15°13	15°32	27°45	n.a.	T 7
W 8	8 57 50	16°21'02	8♓16	9°25	29°14	5°53	21°32	3°21	25°13	5°57	1° 2	14°59	15°29	27°51	n.a.	W 8
T 9	9 1 47	17°20'53	20°13	8°30	0♈23	5°46	21°45	3°29	25°17	5°57	1° 4	14°48	15°26	27°58	n.a.	T 9
F 10	9 5 44	18°20'42	2♈ 3	7°40	1°30	5°40	21°58	3°36	25°20	5°56	1° 6	14°39	15°23	28° 5	n.a.	F 10
S 11	9 9 40	19°20'29	13°51	6°55	2°38	5°35	22°11	3°43	25°23	5°55	1° 7	14°33	15°20	28°11	n.a.	S 11
S 12	9 13 37	20°20'14	25°40	6°16	3°46	5°30	22°24	3°51	25°26	5°54	1° 9	14°30	15°16	28°18	n.a.	S 12
M13	9 17 33	21°19'56	7♉35	5°42	4°53	5°26	22°38	3°58	25°30	5°53	1°11	14°29	15°13	28°25	n.a.	M13
T 14	9 21 30	22°19'36	19°41	5°15	6° 0	5°23	22°51	4° 6	25°33	5°52	1°12	14°29	15°10	28°31	n.a.	T 14
W15	9 25 26	23°19'14	2♊ 2	4°54	7° 7	5°21	23° 4	4°13	25°36	5°50	1°14	14°29	15° 7	28°38	n.a.	W15
T 16	9 29 23	24°18'50	14°46	4°40	8°14	5°20	23°18	4°21	25°39	5°49	1°15	14°27	15° 4	28°45	n.a.	T 16
F 17	9 33 19	25°18'22	27°55	4°31	9°20	5°D19	23°31	4°28	25°42	5°48	1°17	14°24	15° 0	28°51	n.a.	F 17
S 18	9 37 16	26°17'53	11♋34	4°D29	10°27	5°19	23°45	4°36	25°45	5°47	1°19	14°17	14°57	28°58	n.a.	S 18
S 19	9 41 12	27°17'21	25°41	4°32	11°33	5°20	23°59	4°43	25°48	5°46	1°20	14° 9	14°54	29° 5	n.a.	S 19
M20	9 45 9	28°16'47	10♌16	4°42	12°38	5°21	24°12	4°51	25°52	5°45	1°22	13°59	14°51	29°12	n.a.	M20
T 21	9 49 6	29°16'11	25°12	4°56	13°44	5°23	24°26	4°58	25°55	5°43	1°23	13°48	14°48	29°18	n.a.	T 21
W22	9 53 2	0♓15'32	10♍19	5°16	14°49	5°26	24°39	5° 6	25°58	5°42	1°25	13°37	14°45	29°25	n.a.	W22
T 23	9 56 59	1°14'51	25°28	5°41	15°54	5°30	24°53	5°13	26° 1	5°41	1°26	13°28	14°41	29°32	n.a.	T 23
F 24	10 0 55	2°14'08	10♎28	6°10	16°59	5°34	25° 7	5°21	26° 4	5°40	1°28	13°22	14°38	29°38	n.a.	F 24
S 25	10 4 52	3°13'24	25°12	6°44	18° 3	5°39	25°21	5°29	26° 7	5°38	1°29	13°19	14°35	29°45	n.a.	S 25
S 26	10 8 48	4°12'37	9♏34	7°21	19° 8	5°45	25°35	5°36	26° 9	5°37	1°31	13°D18	14°32	29°52	n.a.	S 26
M27	10 12 45	5°11'49	23°34	8° 3	20°12	5°51	25°49	5°44	26°12	5°36	1°32	13°18	14°29	29°58	n.a.	M27
T 28	10 16 41	6♓10'59	7♐10	8♒48	21♈15	5♋58	26♓ 2	5♓51	26♑15	5♎34	1♒34	13°R18	14♏25	0♈ 5	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	18s 7	20s13	2n 3	12s41	3n40	3s29	0n 3	27n42	4n11	5s 7	1s14	12s36	2s 2	21s58	0s34	0s38	1n57	30s50	10s56	16s54	16s46	2n22		n.a.
T 2	17 51	20 31	3 2	12 51	3 46	2 58	0 7	27 41	4 9	5 2	1 14	12 33	2 2	21 58	0 34	0 38	1 57	30 50	10 56	16 52	16 46	2 24		n.a.
F 3	17 34	19 43	3 51	13 3	3 49	2 26	0 11	27 40	4 8	4 57	1 14	12 30	2 2	21 57	0 34	0 38	1 57	30 50	10 56	16 50	16 45	2 27		n.a.
S 4	17 17	17 56	4 28	13 19	3 51	1 55	0 15	27 39	4 6	4 52	1 13	12 28	2 2	21 57	0 34	0 37	1 57	30 50	10 56	16 47	16 44	2 29		n.a.
S 5	17 0	15 19	4 51	13 37	3 50	1 23	0 19	27 38	4 5	4 46	1 13	12 25	2 2	21 56	0 34	0 37	1 57	30 49	10 56	16 44	16 43	2 31		n.a.
M 6	16 43	12 3	4 59	13 56	3 47	0 52	0 23	27 37	4 3	4 41	1 13	12 22	2 2	21 55	0 34	0 37	1 57	30 49	10 56	16 39	16 42	2 33		n.a.
T 7	16 25	8 19	4 54	14 17	3 42	0 20	0 28	27 36	4 1	4 36	1 13	12 20	2 2	21 55	0 34	0 36	1 57	30 49	10 56	16 35	16 41	2 35		n.a.
W 8	16 7	4 18	4 36	14 39	3 35	0n11	0 32	27 34	3 59	4 31	1 13	12 17	2 2	21 54	0 35	0 36	1 58	30 48	10 57	16 31	16 40	2 37		n.a.
T 9	15 49	0 10	4 5	15 1	3 27	0 42	0 37	27 33	3 58	4 25	1 13	12 14	2 2	21 54	0 35	0 35	1 58	30 48	10 57	16 28	16 39	2 39		n.a.
F 10	15 30	3n57	3 24	15 23	3 17	1 14	0 41	27 31	3 56	4 20	1 13	12 11	2 2	21 53	0 35	0 35	1 58	30 48	10 57	16 25	16 38	2 42		n.a.
S 11	15 12	7 54	2 34	15 45	3 6	1 45	0 45	27 30	3 54	4 14	1 12	12 9	2 2	21 52	0 35	0 35	1 58	30 48	10 57	16 23	16 37	2 44		n.a.
S 12	14 52	11 33	1 38	16 6	2 54	2 16	0 50	27 28	3 52	4 9	1 12	12 6	2 2	21 52	0 35	0 34	1 58	30 47	10 57	16 22	16 36	2 46		n.a.
M13	14 33	14 46	0 36	16 27	2 42	2 48	0 54	27 26	3 50	4 4	1 12	12 3	2 2	21 51	0 35	0 34	1 58	30 47	10 57	16 22	16 35	2 48		n.a.
T 14	14 14	17 25	0s28	16 47	2 28	3 19	0 59	27 25	3 49	3 58	1 12	12 0	2 2	21 51	0 35	0 33	1 58	30 47	10 57	16 22	16 34	2 50		n.a.
W15	13 54	19 19	1 32	17 5	2 14	3 50	1 4	27 23	3 47	3 53	1 12	11 58	2 2	21 50	0 35	0 33	1 58	30 47	10 57	16 22	16 33	2 52		n.a.
T 16	13 34	20 18	2 33	17 22	2 0	4 21	1 8	27 21	3 45	3 47	1 12	11 55	2 2	21 49	0 35	0 32	1 58	30 46	10 58	16 22	16 32	2 54		n.a.
F 17	13 14	20 13	3 29	17 38	1 46	4 51	1 13	27 19	3 43	3 42	1 12	11 52	2 2	21 49	0 35	0 32	1 58	30 46	10 58	16 21	16 32	2 57		n.a.
S 18	12 54	18 59	4 14	17 53	1 32	5 22	1 18	27 17	3 41	3 36	1 12	11 49	2 2	21 48	0 35	0 31	1 58	30 46	10 58	16 19	16 31	2 59		n.a.
S 19	12 33	16 34	4 46	18 6	1 18	5 53	1 22	27 15	3 39	3 31	1 11	11 47	2 2	21 48	0 35	0 31	1 58	30 46	10 58	16 16	16 30	3 1		n.a.
M20	12 13	13 3	5 1	18 17	1 4	6 23	1 27	27 13	3 37	3 25	1 11	11 44	2 2	21 47	0 35	0 30	1 58	30 45	10 58	16 13	16 29	3 3		n.a.
T 21	11 52	8 38	4 56	18 27	0 50	6 53	1 32	27 11	3 35	3 20	1 11	11 41	2 2	21 47	0 35	0 30	1 58	30 45	10 58	16 10	16 28	3 5		n.a.
W22	11 31	3 38	4 30	18 35	0 36	7 23	1 36	27 9	3 33	3 14	1 11	11 38	2 2	21 46	0 35	0 29	1 58	30 45	10 59	16 7	16 27	3 7		n.a.
T 23	11 9	1s37	3 45	18 42	0 23	7 53	1 41	27 7	3 32	3 8	1 11	11 35	2 2	21 46	0 35	0 29	1 58	30 45	10 59	16 4	16 26	3 9		n.a.
F 24	10 48	6 43	2 45	18 47	0 10	8 22	1 46	27 5	3 30	3 3	1 11	11 33	2 2	21 45	0 35	0 28	1 58	30 45	10 59	16 2	16 25	3 11		n.a.
S 25	10 26	11 20	1 35	18 50	0s 2	8 52	1 51	27 3	3 28	2 57	1 11	11 30	2 2	21 44	0 35	0 27	1 58	30 44	10 59	16 1	16 24	3 13		n.a.
S 26	10 5	15 10	0 20	18 52	0 14	9 21	1 55	27 1	3 26	2 51	1 11	11 27	2 2	21 44	0 35	0 27	1 58	30 44	10 59	16 1	16 23	3 16		n.a.
M27	9 43	18 0	0n54	18 52	0 25	9 50	2 0	26 59	3 24	2 46	1 11	11 24	2 2	21 43	0 35	0 26	1 58	30 44	11 0	16 1	16 22	3 18		n.a.
T 28	9s21	19s44	2n 3	18s51	0s36	10n18	2n 5	26n57	3n22	2s40	1s11	11s21	2s 2	21s43	0s35	0s26	1n58	30s44	11s 0	16s 1	16s21	3n20		n.a.

Julian Day Number = 1654248.5, Delta T = 03h29m18s
Ecliptic obliquity = 23°42'56, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°36'26, Lahiri = - 6°29'26 Julian Calendar 1 Feb. 184 BCE == Greg. Calendar 29 Jan. 184 BCE

The year -183 astronomical counting style corresponds to year 184 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 184 BCE
geocentric

MARCH 184 BCE (-183) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	10 20 38	7♓10'07	20♐25	9♒37	22♈19	6♋ 5	26♓16	5♓59	26♑18	5°R33	1♒35	13°R17	14♏22	0♈12	n.a.	W 1
T 2	10 24 35	8° 9'13	3♑22	10°29	23°22	6°13	26°30	6° 6	26°21	5♎32	1°37	13♏15	14°19	0°18	n.a.	T 2
F 3	10 28 31	9° 8'17	16° 4	11°24	24°24	6°22	26°44	6°14	26°24	5°30	1°38	13° 9	14°16	0°25	n.a.	F 3
S 4	10 32 28	10° 7'19	28°33	12°22	25°27	6°31	26°58	6°22	26°26	5°29	1°39	13° 1	14°13	0°32	n.a.	S 4
S 5	10 36 24	11° 6'20	10♒51	13°23	26°29	6°41	27°13	6°29	26°29	5°27	1°41	12°51	14°10	0°38	n.a.	S 5
M 6	10 40 21	12° 5'18	23° 1	14°27	27°30	6°52	27°27	6°37	26°32	5°26	1°42	12°40	14° 6	0°45	n.a.	M 6
T 7	10 44 17	13° 4'14	5♓ 3	15°33	28°32	7° 3	27°41	6°44	26°34	5°24	1°44	12°28	14° 3	0°52	n.a.	T 7
W 8	10 48 14	14° 3'08	17° 0	16°41	29°33	7°14	27°55	6°52	26°37	5°23	1°45	12°17	14° 0	0°58	n.a.	W 8
T 9	10 52 10	15° 2'00	28°51	17°52	0♉33	7°26	28° 9	6°59	26°40	5°21	1°46	12° 8	13°57	1° 5	n.a.	T 9
F 10	10 56 7	16° 0'50	10♈40	19° 5	1°34	7°39	28°23	7° 7	26°42	5°20	1°48	12° 1	13°54	1°12	n.a.	F 10
S 11	11 0 3	16°59'38	22°28	20°20	2°33	7°52	28°37	7°14	26°45	5°18	1°49	11°56	13°51	1°19	n.a.	S 11
S 12	11 4 0	17°58'23	4♉18	21°37	3°33	8° 6	28°52	7°22	26°47	5°17	1°50	11°54	13°47	1°25	n.a.	S 12
M13	11 7 57	18°57'07	16°14	22°57	4°32	8°20	29° 6	7°29	26°50	5°15	1°51	11°D54	13°44	1°32	n.a.	M13
T 14	11 11 53	19°55'48	28°20	24°18	5°30	8°35	29°20	7°37	26°52	5°14	1°53	11°55	13°41	1°39	n.a.	T 14
W15	11 15 50	20°54'26	10♊41	25°41	6°28	8°50	29°34	7°44	26°54	5°12	1°54	11°56	13°38	1°45	n.a.	W15
T 16	11 19 46	21°53'03	23°22	27° 6	7°26	9° 5	29°49	7°52	26°57	5°11	1°55	11°R56	13°35	1°52	n.a.	T 16
F 17	11 23 43	22°51'37	6♋26	28°32	8°23	9°22	0♈ 3	7°59	26°59	5° 9	1°56	11°55	13°31	1°59	n.a.	F 17
S 18	11 27 39	23°50'09	19°58	0♓ 1	9°20	9°38	0°17	8° 7	27° 1	5° 7	1°57	11°53	13°28	2° 5	n.a.	S 18
S 19	11 31 36	24°48'38	3♌59	1°31	10°16	9°55	0°31	8°14	27° 4	5° 6	1°59	11°48	13°25	2°12	n.a.	S 19
M20	11 35 32	25°47'05	18°29	3° 3	11°11	10°12	0°46	8°21	27° 6	5° 4	2° 0	11°42	13°22	2°19	n.a.	M20
T 21	11 39 29	26°45'30	3♍23	4°37	12° 6	10°30	1° 0	8°29	27° 8	5° 3	2° 1	11°35	13°19	2°25	n.a.	T 21
W22	11 43 26	27°43'53	18°33	6°12	13° 1	10°48	1°14	8°36	27°10	5° 1	2° 2	11°29	13°16	2°32	n.a.	W22
T 23	11 47 22	28°42'14	3♎50	7°50	13°55	11° 7	1°29	8°43	27°12	4°59	2° 3	11°23	13°12	2°39	n.a.	T 23
F 24	11 51 19	29°40'33	19° 2	9°29	14°48	11°26	1°43	8°51	27°14	4°58	2° 4	11°19	13° 9	2°45	n.a.	F 24
S 25	11 55 15	0♈38'50	4♏ 1	11° 9	15°40	11°45	1°57	8°58	27°16	4°56	2° 5	11°18	13° 6	2°52	n.a.	S 25
S 26	11 59 12	1°37'05	18°39	12°52	16°32	12° 5	2°12	9° 5	27°18	4°55	2° 6	11°D18	13° 3	2°59	n.a.	S 26
M27	12 3 8	2°35'19	2♐52	14°36	17°23	12°25	2°26	9°12	27°20	4°53	2° 7	11°19	13° 0	3° 5	n.a.	M27
T 28	12 7 5	3°33'31	16°38	16°22	18°14	12°46	2°40	9°20	27°22	4°51	2° 8	11°20	12°56	3°12	n.a.	T 28
W29	12 11 1	4°31'42	29°58	18° 9	19° 4	13° 6	2°55	9°27	27°24	4°50	2° 9	11°R21	12°53	3°19	n.a.	W29
T 30	12 14 58	5°29'51	12♑56	19°59	19°53	13°28	3° 9	9°34	27°26	4°48	2°10	11°21	12°50	3°25	n.a.	T 30
F 31	12 18 54	6♈27'59	25♑35	21♓50	20♉41	13♋49	3♈23	9♓41	27♑27	4♎46	2♒11	11♏19	12♏47	3♈32	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	8s59	20s18	3n 4	18s48	0s46	10n47	2n10	26n54	3n20	2s34	1s10	11s19	2s 2	21s42	0s35	0s25	1n59	30s44	11s 0	16s 1	16s20	3n22			n.a.
T 2	8 36	19 47	3 54	18 43	0 56	11 15	2 14	26 52	3 18	2 29	1 10	11 16	2 2	21 42	0 35	0 25	1 59	30 44	11 0	16 0	16 19	3 24			n.a.
F 3	8 14	18 15	4 31	18 37	1 6	11 43	2 19	26 50	3 16	2 23	1 10	11 13	2 2	21 41	0 35	0 24	1 59	30 44	11 0	15 58	16 18	3 26			n.a.
S 4	7 52	15 54	4 54	18 29	1 15	12 10	2 24	26 47	3 14	2 17	1 10	11 10	2 2	21 41	0 35	0 23	1 59	30 43	11 1	15 56	16 17	3 28			n.a.
S 5	7 29	12 51	5 3	18 19	1 23	12 38	2 28	26 45	3 13	2 12	1 10	11 7	2 2	21 40	0 35	0 23	1 59	30 43	11 1	15 53	16 16	3 30			n.a.
M 6	7 6	9 18	4 59	18 8	1 31	13 5	2 33	26 43	3 11	2 6	1 10	11 5	2 2	21 40	0 35	0 22	1 59	30 43	11 1	15 49	16 15	3 32			n.a.
T 7	6 44	5 25	4 41	17 56	1 39	13 31	2 38	26 40	3 9	2 0	1 10	11 2	2 2	21 39	0 35	0 22	1 59	30 43	11 1	15 45	16 14	3 35			n.a.
W 8	6 21	1 21	4 10	17 41	1 46	13 58	2 42	26 38	3 7	1 54	1 10	10 59	2 2	21 39	0 35	0 21	1 59	30 43	11 2	15 42	16 13	3 37			n.a.
T 9	5 58	2n44	3 29	17 26	1 52	14 24	2 47	26 35	3 5	1 49	1 10	10 56	2 2	21 38	0 35	0 20	1 59	30 43	11 2	15 39	16 12	3 39			n.a.
F 10	5 35	6 42	2 39	17 8	1 58	14 49	2 51	26 33	3 3	1 43	1 10	10 53	2 3	21 38	0 35	0 20	1 59	30 43	11 2	15 37	16 12	3 41			n.a.
S 11	5 12	10 25	1 42	16 49	2 3	15 15	2 56	26 30	3 2	1 37	1 10	10 51	2 3	21 37	0 35	0 19	1 59	30 43	11 2	15 36	16 11	3 43			n.a.
S 12	4 48	13 44	0 41	16 29	2 8	15 39	3 0	26 27	3 0	1 31	1 10	10 48	2 3	21 37	0 35	0 18	1 59	30 43	11 2	15 35	16 10	3 45			n.a.
M13	4 25	16 31	0s23	16 7	2 12	16 4	3 4	26 25	2 58	1 26	1 10	10 45	2 3	21 37	0 35	0 18	1 59	30 43	11 3	15 35	16 9	3 47			n.a.
T 14	4 2	18 36	1 27	15 43	2 16	16 28	3 9	26 22	2 56	1 20	1 10	10 42	2 3	21 36	0 35	0 17	1 59	30 43	11 3	15 35	16 8	3 49			n.a.
W15	3 39	19 51	2 29	15 18	2 20	16 52	3 13	26 19	2 55	1 14	1 9	10 40	2 3	21 36	0 35	0 16	1 59	30 42	11 3	15 35	16 7	3 51			n.a.
T 16	3 15	20 8	3 25	14 51	2 22	17 15	3 17	26 16	2 53	1 8	1 9	10 37	2 3	21 35	0 35	0 16	1 59	30 42	11 3	15 36	16 6	3 53			n.a.
F 17	2 52	19 22	4 12	14 22	2 25	17 38	3 21	26 14	2 51	1 2	1 9	10 34	2 3	21 35	0 35	0 15	1 59	30 42	11 4	15 35	16 5	3 55			n.a.
S 18	2 29	17 29	4 46	13 52	2 26	18 1	3 26	26 11	2 49	0 57	1 9	10 31	2 3	21 34	0 35	0 15	1 59	30 42	11 4	15 34	16 4	3 58			n.a.
S 19	2 5	14 32	5 6	13 21	2 28	18 23	3 30	26 8	2 48	0 51	1 9	10 29	2 3	21 34	0 35	0 14	1 59	30 42	11 4	15 33	16 3	4 0			n.a.
M20	1 42	10 36	5 6	12 48	2 28	18 44	3 34	26 5	2 46	0 45	1 9	10 26	2 3	21 34	0 35	0 13	1 59	30 42	11 5	15 31	16 2	4 2			n.a.
T 21	1 18	5 56	4 47	12 14	2 28	19 5	3 37	26 2	2 44	0 39	1 9	10 23	2 3	21 33	0 35	0 13	1 59	30 42	11 5	15 29	16 1	4 4			n.a.
W22	0 55	0 48	4 7	11 38	2 28	19 26	3 41	25 58	2 43	0 33	1 9	10 21	2 4	21 33	0 35	0 12	1 59	30 42	11 5	15 27	16 0	4 6			n.a.
T 23	0 31	4s25	3 9	11 0	2 27	19 46	3 45	25 55	2 41	0 28	1 9	10 18	2 4	21 32	0 36	0 11	1 59	30 42	11 5	15 25	15 59	4 8			n.a.
F 24	0 8	9 21	1 58	10 21	2 26	20 6	3 49	25 52	2 39	0 22	1 9	10 15	2 4	21 32	0 36	0 11	1 59	30 42	11 6	15 24	15 58	4 10			n.a.
S 25	0n16	13 37	0 39	9 40	2 24	20 25	3 52	25 49	2 38	0 16	1 9	10 13	2 4	21 32	0 36	0 10	1 59	30 42	11 6	15 24	15 57	4 12			n.a.
S 26	0 39	16 56	0n40	8 58	2 21	20 44	3 56	25 45	2 36	0 10	1 9	10 10	2 4	21 31	0 36	0 9	1 59	30 42	11 6	15 24	15 56	4 14			n.a.
M27	1 2	19 6	1 55	8 15	2 18	21 2	3 59	25 42	2 35	0 4	1 9	10 7	2 4	21 31	0 36	0 9	1 59	30 42	11 6	15 24	15 55	4 16			n.a.
T 28	1 26	20 3	3 0	7 30	2 14	21 20	4 2	25 38	2 33	0n 1	1 9	10 5	2 4	21 31	0 36	0 8	1 59	30 43	11 7	15 24	15 54	4 18			n.a.
W29	1 49	19 49	3 54	6 44	2 10	21 37	4 5	25 35	2 32	0 7	1 9	10 2	2 4	21 30	0 36	0 7	1 59	30 43	11 7	15 25	15 53	4 20			n.a.
T 30	2 13	18 31	4 35	5 56	2 6	21 53	4 8	25 31	2 30	0 13	1 9	9 59	2 4	21 30	0 36	0 7	1 59	30 43	11 7	15 25	15 52	4 22			n.a.
F 31	2n36	16s21	5n 0	5s 7	2s 0	22n 9	4n11	25n27	2n29	0n19	1s 9	9s57	2s 5	21s30	0s36	0s 6	1n59	30s43	11s 8	15s24	15s51	4n24			n.a.

Julian Day Number = 1654276.5, Delta T = 03h29m17s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°36'22, Lahiri = - 6°29'22 Julian Calendar 1 March 184 BCE == Greg. Calendar 26 Feb. 184 BCE

The year -183 astronomical counting style corresponds to year 184 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 184 BCE
geocentric

APRIL 184 BCE (-183) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 22 51	7♈26'05	7♒57	23♓43	21♉28	14♋11	3♈37	9♓48	27♑29	4°R45	2♒12	11°R16	12♏44	3♈39	n.a.	S 1
S 2	12 26 48	8°24'09	20° 7	25°37	22°15	14°33	3°52	9°55	27°31	4♎43	2°12	11♏12	12°41	3°45	n.a.	S 2
M 3	12 30 44	9°22'12	2♓ 8	27°33	23° 0	14°55	4° 6	10° 2	27°32	4°41	2°13	11° 6	12°37	3°52	n.a.	M 3
T 4	12 34 41	10°20'14	14° 3	29°31	23°45	15°18	4°20	10° 9	27°34	4°40	2°14	11° 1	12°34	3°59	n.a.	T 4
W 5	12 38 37	11°18'13	25°53	1♈31	24°29	15°41	4°35	10°16	27°35	4°38	2°15	10°55	12°31	4° 5	n.a.	W 5
T 6	12 42 34	12°16'11	7♈42	3°32	25°12	16° 5	4°49	10°23	27°37	4°37	2°16	10°51	12°28	4°12	n.a.	T 6
F 7	12 46 30	13°14'08	19°31	5°35	25°54	16°28	5° 3	10°29	27°38	4°35	2°16	10°48	12°25	4°19	n.a.	F 7
S 8	12 50 27	14°12'02	1♉22	7°40	26°34	16°52	5°17	10°36	27°40	4°33	2°17	10°46	12°22	4°25	n.a.	S 8
S 9	12 54 23	15° 9'56	13°18	9°46	27°14	17°17	5°31	10°43	27°41	4°32	2°18	10°D46	12°18	4°32	n.a.	S 9
M10	12 58 20	16° 7'47	25°21	11°53	27°53	17°41	5°46	10°50	27°42	4°30	2°18	10°47	12°15	4°39	n.a.	M10
T 11	13 2 17	17° 5'37	7♊34	14° 1	28°30	18° 6	6° 0	10°56	27°44	4°29	2°19	10°48	12°12	4°46	n.a.	T 11
W12	13 6 13	18° 3'25	20° 0	16°10	29° 6	18°31	6°14	11° 3	27°45	4°27	2°20	10°50	12° 9	4°52	n.a.	W12
T 13	13 10 10	19° 1'11	2♋43	18°20	29°41	18°56	6°28	11° 9	27°46	4°25	2°20	10°51	12° 6	4°59	n.a.	T 13
F 14	13 14 6	19°58'55	15°47	20°31	0♊15	19°22	6°42	11°16	27°47	4°24	2°21	10°R52	12° 2	5° 6	n.a.	F 14
S 15	13 18 3	20°56'38	29°13	22°41	0°47	19°48	6°56	11°22	27°48	4°22	2°21	10°52	11°59	5°12	n.a.	S 15
S 16	13 21 59	21°54'18	13♌ 5	24°52	1°17	20°14	7°10	11°29	27°49	4°21	2°22	10°51	11°56	5°19	n.a.	S 16
M17	13 25 56	22°51'57	27°22	27° 3	1°46	20°40	7°24	11°35	27°50	4°19	2°22	10°49	11°53	5°26	n.a.	M17
T 18	13 29 52	23°49'35	12♍ 2	29°13	2°14	21° 7	7°38	11°41	27°51	4°18	2°23	10°47	11°50	5°32	n.a.	T 18
W19	13 33 49	24°47'10	27° 0	1♉22	2°40	21°33	7°52	11°48	27°52	4°16	2°23	10°45	11°47	5°39	n.a.	W19
T 20	13 37 45	25°44'45	12♎ 7	3°31	3° 4	22° 0	8° 6	11°54	27°53	4°15	2°24	10°43	11°43	5°46	n.a.	T 20
F 21	13 41 42	26°42'18	27°16	5°38	3°27	22°28	8°20	12° 0	27°53	4°13	2°24	10°42	11°40	5°52	n.a.	F 21
S 22	13 45 39	27°39'49	12♏16	7°43	3°48	22°55	8°34	12° 6	27°54	4°12	2°25	10°D42	11°37	5°59	n.a.	S 22
S 23	13 49 35	28°37'20	27° 0	9°47	4° 7	23°23	8°48	12°12	27°55	4°10	2°25	10°42	11°34	6° 6	n.a.	S 23
M24	13 53 32	29°34'49	11♐22	11°48	4°24	23°50	9° 2	12°18	27°55	4° 9	2°25	10°43	11°31	6°12	n.a.	M24
T 25	13 57 28	0♑32'17	25°17	13°48	4°39	24°18	9°16	12°24	27°56	4° 7	2°26	10°44	11°28	6°19	n.a.	T 25
W26	14 1 25	1°29'45	8♑46	15°45	4°52	24°47	9°29	12°30	27°57	4° 6	2°26	10°45	11°24	6°26	n.a.	W26
T 27	14 5 21	2°27'11	21°50	17°40	5° 3	25°15	9°43	12°36	27°57	4° 5	2°26	10°45	11°21	6°32	n.a.	T 27
F 28	14 9 18	3°24'37	4♒31	19°32	5°12	25°44	9°57	12°41	27°58	4° 3	2°26	10°R45	11°18	6°39	n.a.	F 28
S 29	14 13 15	4°22'02	16°54	21°21	5°19	26°13	10°10	12°47	27°58	4° 2	2°27	10°45	11°15	6°46	n.a.	S 29
S 30	14 17 11	5♉19'26	29♒ 1	23♉ 8	5♊24	26♋42	10♈24	12♓53	27♑58	4♎ 0	2♒27	10♏45	11♏12	6♈52	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	2n59	13s29	5n11	4s17	1s55	22n25	4n14	25n23	2n27	0n24	1s 9	9s54	2s 5	21s29	0s36	0s 5	1n59	30s43	11s 8	15s23	15s50	4n26		n.a.
S 2	3 22	10 4	5 8	3 25	1 48	22 40	4 16	25 19	2 25	0 30	1 9	9 52	2 5	21 29	0 36	0 5	1 59	30 43	11 8	15 22	15 49	4 29		n.a.
M 3	3 45	6 18	4 51	2 32	1 42	22 54	4 19	25 15	2 24	0 36	1 9	9 49	2 5	21 29	0 36	0 4	1 59	30 43	11 9	15 20	15 48	4 31		n.a.
T 4	4 8	2 19	4 22	1 38	1 34	23 8	4 21	25 11	2 23	0 42	1 9	9 47	2 5	21 28	0 36	0 3	1 59	30 43	11 9	15 18	15 47	4 33		n.a.
W 5	4 31	1n44	3 42	0 43	1 27	23 21	4 23	25 7	2 21	0 47	1 9	9 44	2 5	21 28	0 36	0 3	1 59	30 43	11 9	15 17	15 46	4 35		n.a.
T 6	4 54	5 43	2 52	0n13	1 19	23 34	4 25	25 3	2 20	0 53	1 9	9 42	2 5	21 28	0 36	0 2	1 59	30 43	11 9	15 15	15 45	4 37		n.a.
F 7	5 17	9 29	1 54	1 11	1 10	23 46	4 27	24 58	2 18	0 59	1 9	9 39	2 5	21 28	0 36	0 1	1 59	30 43	11 10	15 14	15 44	4 39		n.a.
S 8	5 40	12 53	0 51	2 9	1 1	23 58	4 29	24 54	2 17	1 4	1 9	9 37	2 6	21 27	0 36	0 1	1 59	30 44	11 10	15 14	15 43	4 41		n.a.
S 9	6 2	15 47	0s14	3 7	0 52	24 9	4 30	24 49	2 15	1 10	1 9	9 34	2 6	21 27	0 36	0 0	1 59	30 44	11 10	15 14	15 42	4 43		n.a.
M10	6 25	18 2	1 20	4 7	0 42	24 19	4 31	24 45	2 14	1 16	1 9	9 32	2 6	21 27	0 36	0n 1	1 59	30 44	11 11	15 14	15 41	4 45		n.a.
T 11	6 47	19 29	2 22	5 6	0 32	24 29	4 33	24 40	2 12	1 21	1 9	9 29	2 6	21 27	0 36	0 1	1 59	30 44	11 11	15 14	15 40	4 47		n.a.
W12	7 10	20 1	3 20	6 6	0 22	24 38	4 33	24 35	2 11	1 27	1 9	9 27	2 6	21 27	0 36	0 2	1 59	30 44	11 11	15 15	15 39	4 49		n.a.
T 13	7 32	19 33	4 9	7 6	0 11	24 46	4 34	24 30	2 10	1 33	1 9	9 25	2 6	21 26	0 36	0 2	1 59	30 44	11 12	15 15	15 38	4 51		n.a.
F 14	7 54	18 2	4 46	8 6	0 1	24 54	4 34	24 25	2 8	1 38	1 9	9 22	2 7	21 26	0 36	0 3	1 59	30 44	11 12	15 15	15 37	4 53		n.a.
S 15	8 16	15 30	5 9	9 5	0n10	25 1	4 34	24 20	2 7	1 44	1 9	9 20	2 7	21 26	0 36	0 4	1 59	30 45	11 12	15 15	15 37	4 55		n.a.
S 16	8 38	12 2	5 16	10 4	0 21	25 8	4 34	24 15	2 6	1 50	1 9	9 18	2 7	21 26	0 36	0 4	1 59	30 45	11 13	15 15	15 36	4 57		n.a.
M17	8 59	7 47	5 3	11 1	0 31	25 13	4 34	24 9	2 4	1 55	1 9	9 15	2 7	21 26	0 36	0 5	1 59	30 45	11 13	15 14	15 35	4 59		n.a.
T 18	9 21	2 58	4 30	11 58	0 41	25 18	4 33	24 4	2 3	2 1	1 9	9 13	2 7	21 26	0 36	0 5	1 59	30 45	11 13	15 14	15 34	5 1		n.a.
W19	9 42	2s 8	3 39	12 53	0 52	25 23	4 32	23 58	2 2	2 6	1 9	9 11	2 7	21 25	0 36	0 6	1 59	30 45	11 14	15 13	15 33	5 3		n.a.
T 20	10 4	7 10	2 32	13 47	1 1	25 27	4 31	23 52	2 0	2 12	1 9	9 8	2 8	21 25	0 36	0 7	1 59	30 46	11 14	15 13	15 32	5 5		n.a.
F 21	10 25	11 46	1 14	14 40	1 11	25 30	4 30	23 47	1 59	2 17	1 9	9 6	2 8	21 25	0 37	0 7	1 59	30 46	11 14	15 12	15 31	5 7		n.a.
S 22	10 46	15 34	0n 9	15 30	1 20	25 32	4 28	23 41	1 58	2 23	1 9	9 4	2 8	21 25	0 37	0 8	1 59	30 46	11 15	15 12	15 30	5 9		n.a.
S 23	11 6	18 16	1 29	16 18	1 28	25 33	4 26	23 35	1 57	2 28	1 9	9 2	2 8	21 25	0 37	0 8	1 59	30 46	11 15	15 12	15 29	5 11		n.a.
M24	11 27	19 44	2 42	17 4	1 36	25 34	4 23	23 29	1 55	2 34	1 9	9 0	2 8	21 25	0 37	0 9	1 59	30 47	11 15	15 13	15 28	5 13		n.a.
T 25	11 48	19 55	3 43	17 48	1 43	25 34	4 20	23 22	1 54	2 39	1 9	8 58	2 9	21 25	0 37	0 9	1 59	30 47	11 16	15 13	15 27	5 15		n.a.
W26	12 8	18 56	4 29	18 30	1 50	25 33	4 17	23 16	1 53	2 45	1 9	8 56	2 9	21 25	0 37	0 10	1 59	30 47	11 16	15 13	15 26	5 17		n.a.
T 27	12 28	16 59	5 0	19 9	1 56	25 32	4 13	23 9	1 52	2 50	1 9	8 53	2 9	21 25	0 37	0 10	1 59	30 47	11 16	15 13	15 25	5 19		n.a.
F 28	12 48	14 15	5 16	19 45	2 1	25 30	4 9	23 3	1 50	2 56	1 9	8 51	2 9	21 25	0 37	0 11	1 59	30 48	11 17	15 13	15 24	5 21		n.a.
S 29	13 7	10 56	5 16	20 20	2 6	25 26	4 4	22 56	1 49	3 1	1 9	8 49	2 9	21 25	0 37	0 12	1 59	30 48	11 17	15 13	15 23	5 23		n.a.
S 30	13n27	7s14	5n 1	20n51	2n 9	25n22	3n59	22n49	1n48	3n 6	1s 9	8s47	2s10	21s24	0s37	0n12	1n59	30s48	11s17	15s13	15s22	5n25		n.a.

Julian Day Number = 1654307.5, Delta T = 03h29m16s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°36'18, Lahiri = - 6°29'18 Julian Calendar 1 Apr. 184 BCE == Greg. Calendar 29 March 184 BCE

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ASTRODIENST EPHEMERIS for the year 184 BCE
geocentric

MAY 184 BCE (-183) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	14 21 8	6♉16'49	10♓59	24♉52	5°R26	27♋11	10♈37	12♓58	27♏59	3°R59	2♒27	10°R44	11♏ 8	6♈59	n.a.	M 1
T 2	14 25 4	7°14'11	22°50	26°34	5♊26	27°40	10°51	13° 4	27°59	3♎58	2°27	10♏44	11° 5	7° 6	n.a.	T 2
W 3	14 29 1	8°11'33	4♈39	28°12	5°24	28°10	11° 4	13° 9	27°59	3°56	2°27	10°43	11° 2	7°12	n.a.	W 3
T 4	14 32 57	9° 8'54	16°27	29°48	5°19	28°40	11°18	13°15	27°59	3°55	2°27	10°43	10°59	7°19	n.a.	T 4
F 5	14 36 54	10° 6'13	28°20	1♊21	5°12	29° 9	11°31	13°20	27°59	3°54	2°27	10°43	10°56	7°26	n.a.	F 5
S 6	14 40 50	11° 3'33	10♉18	2°51	5° 2	29°40	11°45	13°25	27°R59	3°53	2°27	10°43	10°53	7°32	n.a.	S 6
S 7	14 44 47	12° 0'51	22°23	4°18	4°50	0♌10	11°58	13°30	27°59	3°52	2°R27	10°43	10°49	7°39	n.a.	S 7
M 8	14 48 43	12°58'08	4♊39	5°42	4°36	0°40	12°11	13°35	27°59	3°50	2°27	10°43	10°46	7°46	n.a.	M 8
T 9	14 52 40	13°55'25	17° 5	7° 3	4°19	1°11	12°24	13°40	27°59	3°49	2°27	10°43	10°43	7°52	n.a.	T 9
W10	14 56 37	14°52'41	29°45	8°21	4° 0	1°42	12°37	13°45	27°59	3°48	2°27	10°42	10°40	7°59	n.a.	W10
T 11	15 0 33	15°49'56	12♋39	9°36	3°39	2°13	12°51	13°50	27°59	3°47	2°27	10°42	10°37	8° 6	n.a.	T 11
F 12	15 4 30	16°47'09	25°50	10°47	3°16	2°44	13° 4	13°55	27°58	3°46	2°27	10°41	10°33	8°12	n.a.	F 12
S 13	15 8 26	17°44'22	9♌19	11°56	2°50	3°15	13°17	14° 0	27°58	3°45	2°27	10°41	10°30	8°19	n.a.	S 13
S 14	15 12 23	18°41'34	23° 6	13° 1	2°23	3°46	13°29	14° 4	27°58	3°44	2°27	10°D41	10°27	8°26	n.a.	S 14
M15	15 16 19	19°38'45	7♍11	14° 3	1°53	4°18	13°42	14° 9	27°57	3°43	2°26	10°41	10°24	8°32	n.a.	M15
T 16	15 20 16	20°35'55	21°34	15° 2	1°22	4°49	13°55	14°13	27°57	3°42	2°26	10°42	10°21	8°39	n.a.	T 16
W17	15 24 13	21°33'05	6♎11	15°57	0°49	5°21	14° 8	14°18	27°56	3°41	2°26	10°43	10°18	8°46	n.a.	W17
T 18	15 28 9	22°30'13	20°58	16°48	0°15	5°53	14°20	14°22	27°56	3°40	2°26	10°43	10°14	8°52	n.a.	T 18
F 19	15 32 6	23°27'21	5♏49	17°36	29♉40	6°25	14°33	14°26	27°55	3°39	2°25	10°R44	10°11	8°59	n.a.	F 19
S 20	15 36 2	24°24'29	20°36	18°20	29° 4	6°58	14°46	14°31	27°55	3°38	2°25	10°44	10° 8	9° 6	n.a.	S 20
S 21	15 39 59	25°21'36	5♐12	19° 0	28°27	7°30	14°58	14°35	27°54	3°37	2°25	10°43	10° 5	9°12	n.a.	S 21
M22	15 43 55	26°18'43	19°30	19°36	27°50	8° 2	15°10	14°39	27°53	3°36	2°24	10°41	10° 2	9°19	n.a.	M22
T 23	15 47 52	27°15'49	3♑28	20° 8	27°12	8°35	15°23	14°43	27°53	3°35	2°24	10°39	9°59	9°26	n.a.	T 23
W24	15 51 48	28°12'56	17° 0	20°36	26°34	9° 8	15°35	14°46	27°52	3°35	2°24	10°37	9°55	9°32	n.a.	W24
T 25	15 55 45	29°10'02	0♒ 8	20°59	25°57	9°41	15°47	14°50	27°51	3°34	2°23	10°35	9°52	9°39	n.a.	T 25
F 26	15 59 42	0♊ 7'09	12°53	21°18	25°20	10°14	15°59	14°54	27°50	3°33	2°23	10°33	9°49	9°46	n.a.	F 26
S 27	16 3 38	1° 4'15	25°18	21°33	24°44	10°47	16°11	14°57	27°49	3°32	2°22	10°32	9°46	9°52	n.a.	S 27
S 28	16 7 35	2° 1'21	7♓27	21°43	24° 9	11°20	16°23	15° 1	27°48	3°32	2°22	10°D32	9°43	9°59	n.a.	S 28
M29	16 11 31	2°58'28	19°24	21°48	23°35	11°54	16°35	15° 4	27°47	3°31	2°21	10°33	9°39	10° 6	n.a.	M29
T 30	16 15 28	3°55'35	1♈15	21°R49	23° 2	12°27	16°47	15° 8	27°46	3°30	2°21	10°35	9°36	10°12	n.a.	T 30
W31	16 19 24	4♊52'42	13♈ 3	21♊45	22♉31	13♌ 1	16♈59	15♓11	27♏45	3♎30	2♒20	10♏36	9♏33	10♈19	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	13n46	3s18	4n34	21n21	2n13	25n17	3n54	22n42	1n47	3n12	1s 9	8s45	2s10	21s24	0s37	0n13	1n59	30s48	11s18	15s13	15s21	5n27			n.a.
T 2	14 5	0n44	3 56	21 48	2 15	25 12	3 48	22 35	1 45	3 17	1 9	8 43	2 10	21 24	0 37	0 13	1 59	30 49	11 18	15 13	15 20	5 29			n.a.
W 3	14 24	4 43	3 7	22 12	2 16	25 5	3 42	22 28	1 44	3 22	1 9	8 42	2 10	21 24	0 37	0 14	1 59	30 49	11 18	15 13	15 19	5 31			n.a.
T 4	14 43	8 33	2 11	22 34	2 17	24 57	3 35	22 21	1 43	3 27	1 9	8 40	2 10	21 24	0 37	0 14	1 59	30 49	11 19	15 13	15 18	5 33			n.a.
F 5	15 1	12 4	1 8	22 54	2 17	24 49	3 27	22 13	1 42	3 33	1 9	8 38	2 11	21 24	0 37	0 14	1 58	30 50	11 19	15 13	15 17	5 35			n.a.
S 6	15 19	15 7	0 2	23 12	2 17	24 39	3 20	22 6	1 41	3 38	1 9	8 36	2 11	21 24	0 37	0 15	1 58	30 50	11 19	15 13	15 16	5 37			n.a.
S 7	15 37	17 33	1s 4	23 27	2 15	24 29	3 11	21 58	1 40	3 43	1 10	8 34	2 11	21 25	0 37	0 15	1 58	30 50	11 20	15 13	15 15	5 39			n.a.
M 8	15 55	19 12	2 9	23 41	2 13	24 17	3 2	21 50	1 38	3 48	1 10	8 32	2 11	21 25	0 37	0 16	1 58	30 51	11 20	15 13	15 14	5 41			n.a.
T 9	16 12	19 57	3 9	23 52	2 10	24 5	2 53	21 42	1 37	3 53	1 10	8 31	2 12	21 25	0 37	0 16	1 58	30 51	11 20	15 13	15 13	5 43			n.a.
W10	16 29	19 43	4 0	24 1	2 6	23 52	2 43	21 34	1 36	3 59	1 10	8 29	2 12	21 25	0 37	0 17	1 58	30 51	11 21	15 12	15 12	5 45			n.a.
T 11	16 46	18 27	4 40	24 9	2 1	23 37	2 33	21 26	1 35	4 4	1 10	8 27	2 12	21 25	0 37	0 17	1 58	30 52	11 21	15 12	15 11	5 47			n.a.
F 12	17 3	16 12	5 7	24 14	1 56	23 22	2 22	21 18	1 34	4 9	1 10	8 26	2 12	21 25	0 37	0 18	1 58	30 52	11 21	15 12	15 10	5 49			n.a.
S 13	17 19	13 2	5 17	24 18	1 50	23 6	2 11	21 10	1 33	4 14	1 10	8 24	2 12	21 25	0 37	0 18	1 58	30 52	11 22	15 12	15 9	5 51			n.a.
S 14	17 35	9 6	5 10	24 20	1 43	22 49	1 59	21 1	1 32	4 19	1 10	8 22	2 13	21 25	0 37	0 18	1 58	30 53	11 22	15 12	15 8	5 53			n.a.
M15	17 51	4 35	4 44	24 20	1 36	22 31	1 47	20 52	1 31	4 24	1 10	8 21	2 13	21 25	0 37	0 19	1 58	30 53	11 22	15 12	15 7	5 55			n.a.
T 16	18 6	0s18	4 0	24 19	1 28	22 12	1 34	20 44	1 30	4 29	1 10	8 19	2 13	21 25	0 37	0 19	1 58	30 53	11 23	15 12	15 6	5 57			n.a.
W17	18 22	5 14	3 0	24 16	1 19	21 53	1 21	20 35	1 28	4 34	1 10	8 18	2 13	21 25	0 37	0 19	1 58	30 54	11 23	15 12	15 5	5 59			n.a.
T 18	18 36	9 56	1 47	24 12	1 9	21 33	1 8	20 26	1 27	4 38	1 10	8 16	2 14	21 26	0 37	0 20	1 58	30 54	11 23	15 13	15 4	6 1			n.a.
F 19	18 51	14 2	0 27	24 6	0 59	21 12	0 55	20 16	1 26	4 43	1 10	8 15	2 14	21 26	0 38	0 20	1 58	30 55	11 24	15 13	15 3	6 3			n.a.
S 20	19 5	17 14	0n54	23 59	0 48	20 51	0 41	20 7	1 25	4 48	1 10	8 13	2 14	21 26	0 38	0 20	1 58	30 55	11 24	15 13	15 2	6 5			n.a.
S 21	19 19	19 15	2 11	23 51	0 36	20 29	0 27	19 58	1 24	4 53	1 10	8 12	2 14	21 26	0 38	0 21	1 58	30 55	11 24	15 13	15 1	6 7			n.a.
M22	19 33	20 0	3 19	23 42	0 24	20 7	0 13	19 48	1 23	4 58	1 11	8 11	2 15	21 26	0 38	0 21	1 58	30 56	11 25	15 12	15 0	6 9			n.a.
T 23	19 46	19 28	4 12	23 32	0 11	19 45	0s 1	19 39	1 22	5 2	1 11	8 9	2 15	21 26	0 38	0 21	1 58	30 56	11 25	15 11	14 58	6 11			n.a.
W24	19 59	17 50	4 50	23 20	0s 2	19 22	0 15	19 29	1 21	5 7	1 11	8 8	2 15	21 27	0 38	0 21	1 58	30 56	11 25	15 11	14 57	6 13			n.a.
T 25	20 12	15 18	5 11	23 8	0 16	19 0	0 29	19 19	1 20	5 12	1 11	8 7	2 15	21 27	0 38	0 22	1 58	30 57	11 26	15 10	14 56	6 15			n.a.
F 26	20 25	12 6	5 16	22 55	0 31	18 38	0 43	19 9	1 19	5 16	1 11	8 6	2 16	21 27	0 38	0 22	1 58	30 57	11 26	15 10	14 55	6 17			n.a.
S 27	20 37	8 27	5 5	22 41	0 46	18 16	0 56	18 59	1 18	5 21	1 11	8 5	2 16	21 27	0 38	0 22	1 57	30 58	11 26	15 9	14 54	6 19			n.a.
S 28	20 48	4 31	4 42	22 26	1 1	17 54	1 10	18 48	1 17	5 25	1 11	8 4	2 16	21 27	0 38	0 22	1 57	30 58	11 26	15 9	14 53	6 21			n.a.
M29	21 0	0 28	4 6	22 11	1 17	17 33	1 23	18 38	1 16	5 30	1 11	8 2	2 16	21 28	0 38	0 23	1 57	30 59	11 27	15 9	14 52	6 23			n.a.
T 30	21 11	3n34	3 20	21 55	1 33	17 12	1 36	18 28	1 15	5 34	1 11	8 1	2 17	21 28	0 38	0 23	1 57	30 59	11 27	15 10	14 51	6 25			n.a.
W31	21n21	7n27	2n26	21n39	1s49	16n52	1s49	18n17	1n14	5n39	1s11	8s 0	2s17	21s28	0s38	0n23	1n57	30s59	11s27	15s10	14s50	6n26			n.a.

Julian Day Number = 1654337.5, Delta T = 03h29m15s
Ecliptic obliquity = 23°42'56, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°36'14, Lahiri = - 6°29'14 Julian Calendar 1 May 184 BCE == Greg. Calendar 28 Apr. 184 BCE

The year -183 astronomical counting style corresponds to year 184 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 184 BCE
geocentric

JUNE 184 BCE (-183) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 23 21	5♊49'49	24♈54	21°R37	22°R 1	13♌35	17♈10	15♓14	27°R44	3°R29	2°R20	10♏38	9♏30	10♈26	n.a.	T 1
F 2	16 27 17	6°46'56	6♉52	21♊24	21♉34	14° 8	17°22	15°17	27♉43	3♎29	2♒19	10°R39	9°27	10°32	n.a.	F 2
S 3	16 31 14	7°44'04	18°58	21° 7	21° 8	14°42	17°33	15°20	27°41	3°28	2°18	10°38	9°24	10°39	n.a.	S 3
S 4	16 35 11	8°41'11	1♊16	20°46	20°44	15°17	17°45	15°23	27°40	3°28	2°18	10°37	9°20	10°46	n.a.	S 4
M 5	16 39 7	9°38'19	13°48	20°21	20°23	15°51	17°56	15°26	27°39	3°27	2°17	10°34	9°17	10°52	n.a.	M 5
T 6	16 43 4	10°35'27	26°33	19°53	20° 4	16°25	18° 7	15°28	27°37	3°27	2°16	10°30	9°14	10°59	n.a.	T 6
W 7	16 47 0	11°32'35	9♋33	19°21	19°47	17° 0	18°18	15°31	27°36	3°26	2°16	10°25	9°11	11° 6	n.a.	W 7
T 8	16 50 57	12°29'44	22°48	18°47	19°32	17°34	18°29	15°33	27°34	3°26	2°15	10°20	9° 8	11°12	n.a.	T 8
F 9	16 54 53	13°26'52	6♌15	18°11	19°20	18° 9	18°40	15°36	27°33	3°26	2°14	10°16	9° 5	11°19	n.a.	F 9
S 10	16 58 50	14°24'00	19°55	17°34	19°10	18°44	18°51	15°38	27°32	3°26	2°13	10°12	9° 1	11°26	n.a.	S 10
S 11	17 2 46	15°21'08	3♍46	16°55	19° 3	19°19	19° 2	15°40	27°30	3°25	2°13	10°10	8°58	11°32	n.a.	S 11
M12	17 6 43	16°18'17	17°48	16°16	18°58	19°54	19°13	15°42	27°28	3°25	2°12	10°D10	8°55	11°39	n.a.	M12
T 13	17 10 40	17°15'25	1♎59	15°38	18°55	20°29	19°23	15°44	27°27	3°25	2°11	10°10	8°52	11°46	n.a.	T 13
W14	17 14 36	18°12'33	16°17	15° 1	18°D55	21° 4	19°34	15°46	27°25	3°25	2°10	10°12	8°49	11°52	n.a.	W14
T 15	17 18 33	19° 9'42	0♏41	14°26	18°57	21°40	19°44	15°48	27°23	3°25	2° 9	10°13	8°45	11°59	n.a.	T 15
F 16	17 22 29	20° 6'51	15° 7	13°53	19° 1	22°15	19°54	15°49	27°22	3°24	2° 8	10°R13	8°42	12° 6	n.a.	F 16
S 17	17 26 26	21° 4'00	29°30	13°23	19° 7	22°51	20° 4	15°51	27°20	3°24	2° 7	10°12	8°39	12°12	n.a.	S 17
S 18	17 30 22	22° 1'10	13♐46	12°56	19°16	23°26	20°14	15°53	27°18	3°24	2° 7	10° 8	8°36	12°19	n.a.	S 18
M19	17 34 19	22°58'20	27°50	12°34	19°26	24° 2	20°24	15°54	27°16	3°D24	2° 6	10° 3	8°33	12°26	n.a.	M19
T 20	17 38 16	23°55'31	11♑37	12°16	19°39	24°38	20°34	15°55	27°14	3°24	2° 5	9°57	8°30	12°32	n.a.	T 20
W21	17 42 12	24°52'43	25° 4	12° 4	19°54	25°14	20°44	15°56	27°13	3°24	2° 4	9°49	8°26	12°39	n.a.	W21
T 22	17 46 9	25°49'55	8♒10	11°56	20°10	25°50	20°53	15°57	27°11	3°25	2° 3	9°42	8°23	12°46	n.a.	T 22
F 23	17 50 5	26°47'08	20°55	11°D54	20°29	26°26	21° 3	15°58	27° 9	3°25	2° 2	9°36	8°20	12°52	n.a.	F 23
S 24	17 54 2	27°44'22	3♓20	11°57	20°49	27° 2	21°12	15°59	27° 7	3°25	2° 1	9°31	8°17	12°59	n.a.	S 24
S 25	17 57 58	28°41'37	15°29	12° 7	21°12	27°39	21°21	16° 0	27° 5	3°25	2° 0	9°28	8°14	13° 6	n.a.	S 25
M26	18 1 55	29°38'54	27°27	12°22	21°35	28°15	21°30	16° 1	27° 3	3°25	1°59	9°D27	8°11	13°12	n.a.	M26
T 27	18 5 51	0♋36'11	9♈18	12°44	22° 1	28°52	21°39	16° 1	27° 1	3°25	1°58	9°28	8° 7	13°19	n.a.	T 27
W28	18 9 48	1°33'29	21° 7	13°11	22°28	29°28	21°48	16° 2	26°59	3°26	1°56	9°29	8° 4	13°25	n.a.	W28
T 29	18 13 45	2°30'49	3♉ 0	13°45	22°57	0♍ 5	21°57	16° 2	26°57	3°26	1°55	9°30	8° 1	13°32	n.a.	T 29
F 30	18 17 41	3♋28'10	15♉ 1	14♊24	23♉27	0♍42	22♈ 5	16♓ 2	26♑54	3♎26	1♒54	9°R30	7♏58	13♈39	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n32	11n 5	1n26	21n23	2s 5	16n32	2s 1	18n 6	1n13	5n43	1s12	7s59	2s17	21s28	0s38	0n23	1n57	31s 0	11s28	15s11	14s49	6n28		n.a.
F 2	21 42	14 17	0 21	21 6	2 20	16 14	2 13	17 55	1 12	5 48	1 12	7 58	2 18	21 29	0 38	0 23	1 57	31 0	11 28	15 11	14 48	6 30		n.a.
S 3	21 51	16 56	0s46	20 49	2 36	15 56	2 24	17 44	1 11	5 52	1 12	7 58	2 18	21 29	0 38	0 24	1 57	31 1	11 28	15 11	14 47	6 32		n.a.
S 4	22 0	18 51	1 51	20 32	2 51	15 39	2 35	17 33	1 10	5 56	1 12	7 57	2 18	21 29	0 38	0 24	1 57	31 1	11 28	15 11	14 46	6 34		n.a.
M 5	22 9	19 53	2 52	20 16	3 6	15 24	2 45	17 22	1 9	6 0	1 12	7 56	2 18	21 30	0 38	0 24	1 57	31 2	11 29	15 10	14 45	6 36		n.a.
T 6	22 18	19 55	3 45	20 0	3 20	15 9	2 55	17 11	1 8	6 5	1 12	7 55	2 19	21 30	0 38	0 24	1 57	31 2	11 29	15 8	14 44	6 38		n.a.
W 7	22 26	18 54	4 28	19 44	3 34	14 55	3 5	16 59	1 7	6 9	1 12	7 54	2 19	21 30	0 38	0 24	1 57	31 2	11 29	15 7	14 43	6 40		n.a.
T 8	22 33	16 52	4 58	19 29	3 46	14 43	3 14	16 47	1 6	6 13	1 12	7 54	2 19	21 31	0 38	0 24	1 57	31 3	11 30	15 5	14 42	6 42		n.a.
F 9	22 41	13 54	5 11	19 15	3 57	14 31	3 22	16 36	1 5	6 17	1 12	7 53	2 20	21 31	0 38	0 24	1 57	31 3	11 30	15 4	14 41	6 44		n.a.
S 10	22 47	10 9	5 8	19 1	4 7	14 21	3 30	16 24	1 4	6 21	1 13	7 52	2 20	21 31	0 38	0 24	1 57	31 4	11 30	15 3	14 40	6 46		n.a.
S 11	22 54	5 48	4 46	18 49	4 16	14 12	3 37	16 12	1 3	6 25	1 13	7 52	2 20	21 32	0 38	0 24	1 57	31 4	11 30	15 2	14 39	6 48		n.a.
M12	23 0	1 5	4 7	18 38	4 24	14 4	3 44	16 0	1 2	6 29	1 13	7 51	2 20	21 32	0 38	0 24	1 57	31 5	11 31	15 2	14 38	6 50		n.a.
T 13	23 6	3s45	3 13	18 28	4 29	13 57	3 51	15 48	1 1	6 33	1 13	7 51	2 21	21 32	0 38	0 24	1 57	31 5	11 31	15 2	14 37	6 52		n.a.
W14	23 11	8 25	2 7	18 20	4 34	13 51	3 57	15 35	1 0	6 37	1 13	7 50	2 21	21 33	0 38	0 24	1 56	31 6	11 31	15 3	14 36	6 53		n.a.
T 15	23 16	12 39	0 52	18 13	4 36	13 46	4 2	15 23	0 59	6 41	1 13	7 50	2 21	21 33	0 38	0 24	1 56	31 6	11 31	15 3	14 35	6 55		n.a.
F 16	23 21	16 8	0n27	18 8	4 37	13 42	4 8	15 10	0 58	6 44	1 13	7 49	2 22	21 33	0 38	0 24	1 56	31 7	11 32	15 3	14 34	6 57		n.a.
S 17	23 25	18 36	1 43	18 5	4 37	13 40	4 12	14 58	0 57	6 48	1 13	7 49	2 22	21 34	0 38	0 24	1 56	31 7	11 32	15 3	14 33	6 59		n.a.
S 18	23 28	19 52	2 52	18 4	4 35	13 38	4 16	14 45	0 57	6 52	1 14	7 49	2 22	21 34	0 38	0 24	1 56	31 7	11 32	15 2	14 32	7 1		n.a.
M19	23 32	19 53	3 49	18 5	4 31	13 37	4 20	14 32	0 56	6 55	1 14	7 48	2 22	21 34	0 38	0 24	1 56	31 8	11 32	15 0	14 31	7 3		n.a.
T 20	23 34	18 41	4 32	18 8	4 26	13 37	4 24	14 19	0 55	6 59	1 14	7 48	2 23	21 35	0 38	0 24	1 56	31 8	11 33	14 58	14 30	7 5		n.a.
W21	23 37	16 28	4 59	18 13	4 19	13 38	4 27	14 6	0 54	7 2	1 14	7 48	2 23	21 35	0 39	0 24	1 56	31 9	11 33	14 56	14 29	7 7		n.a.
T 22	23 39	13 28	5 8	18 19	4 12	13 40	4 29	13 53	0 53	7 6	1 14	7 48	2 23	21 36	0 39	0 24	1 56	31 9	11 33	14 53	14 28	7 9		n.a.
F 23	23 41	9 55	5 3	18 28	4 3	13 43	4 32	13 40	0 52	7 9	1 14	7 48	2 24	21 36	0 39	0 24	1 56	31 10	11 33	14 51	14 27	7 11		n.a.
S 24	23 42	6 1	4 43	18 38	3 53	13 46	4 34	13 26	0 51	7 13	1 14	7 48	2 24	21 36	0 39	0 24	1 56	31 10	11 34	14 50	14 26	7 13		n.a.
S 25	23 43	1 57	4 10	18 50	3 42	13 50	4 35	13 13	0 50	7 16	1 15	7 48	2 24	21 37	0 39	0 24	1 56	31 11	11 34	14 49	14 25	7 14		n.a.
M26	23 43	2n 8	3 27	19 4	3 30	13 55	4 37	12 59	0 49	7 19	1 15	7 48	2 24	21 37	0 39	0 23	1 56	31 11	11 34	14 48	14 24	7 16		n.a.
T 27	23 43	6 6	2 36	19 19	3 18	14 0	4 38	12 45	0 48	7 23	1 15	7 48	2 25	21 38	0 39	0 23	1 56	31 12	11 34	14 49	14 23	7 18		n.a.
W28	23 42	9 50	1 37	19 35	3 5	14 7	4 39	12 32	0 47	7 26	1 15	7 48	2 25	21 38	0 39	0 23	1 56	31 12	11 34	14 49	14 22	7 20		n.a.
T 29	23 41	13 12	0 35	19 53	2 51	14 13	4 39	12 18	0 47	7 29	1 15	7 48	2 25	21 39	0 39	0 23	1 56	31 13	11 35	14 49	14 21	7 22		n.a.
F 30	23n40	16n 3	0s30	20n11	2s37	14n21	4s39	12n 4	0n46	7n32	1s15	7s48	2s26	21s39	0s39	0n23	1n55	31s13	11s35	14s49	14s19	7n24		n.a.

Julian Day Number = 1654368.5, Delta T = 03h29m14s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°36'10, Lahiri = - 6°29'09 Julian Calendar 1 June 184 BCE == Greg. Calendar 29 May 184 BCE

The year -183 astronomical counting style corresponds to year 184 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 184 BCE
geocentric

JULY 184 BCE (-183) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 21 38	4♋25'32	27♉15	15♊10	23♉58	1♍19	22♈14	16♓ 2	26°R52	3♎27	1°R53	9°R28	7♏55	13♈45	n.a.	S 1
S 2	18 25 34	5°22'55	9♊45	16° 1	24°31	1°56	22°22	16°R 3	26♑50	3°27	1♒52	9♏24	7°51	13°52	n.a.	S 2
M 3	18 29 31	6°20'19	22°32	16°58	25° 6	2°33	22°30	16° 2	26°48	3°28	1°51	9°18	7°48	13°59	n.a.	M 3
T 4	18 33 27	7°17'45	5♋38	18° 1	25°41	3°10	22°38	16° 2	26°46	3°28	1°50	9°10	7°45	14° 5	n.a.	T 4
W 5	18 37 24	8°15'11	19° 2	19°10	26°18	3°47	22°46	16° 2	26°43	3°29	1°49	9° 0	7°42	14°12	n.a.	W 5
T 6	18 41 20	9°12'39	2♌41	20°24	26°56	4°25	22°54	16° 2	26°41	3°29	1°47	8°50	7°39	14°19	n.a.	T 6
F 7	18 45 17	10°10'07	16°32	21°43	27°35	5° 2	23° 2	16° 1	26°39	3°30	1°46	8°41	7°36	14°25	n.a.	F 7
S 8	18 49 14	11° 7'37	0♍33	23° 7	28°15	5°40	23° 9	16° 1	26°37	3°30	1°45	8°34	7°32	14°32	n.a.	S 8
S 9	18 53 10	12° 5'07	14°38	24°36	28°56	6°18	23°16	16° 0	26°34	3°31	1°44	8°29	7°29	14°39	n.a.	S 9
M10	18 57 7	13° 2'38	28°47	26°10	29°38	6°55	23°24	15°59	26°32	3°32	1°43	8°26	7°26	14°45	n.a.	M10
T 11	19 1 3	14° 0'11	12♎55	27°48	0♊21	7°33	23°31	15°58	26°30	3°32	1°41	8°D25	7°23	14°52	n.a.	T 11
W12	19 5 0	14°57'44	27° 3	29°30	1° 5	8°11	23°38	15°57	26°27	3°33	1°40	8°25	7°20	14°59	n.a.	W12
T 13	19 8 56	15°55'18	11♏ 9	1♋15	1°50	8°49	23°44	15°56	26°25	3°34	1°39	8°R26	7°17	15° 5	n.a.	T 13
F 14	19 12 53	16°52'54	25°12	3° 4	2°36	9°27	23°51	15°55	26°23	3°35	1°38	8°25	7°13	15°12	n.a.	F 14
S 15	19 16 49	17°50'30	9♐10	4°55	3°23	10° 5	23°57	15°54	26°20	3°35	1°36	8°21	7°10	15°19	n.a.	S 15
S 16	19 20 46	18°48'08	23° 1	6°49	4°10	10°44	24° 4	15°52	26°18	3°36	1°35	8°15	7° 7	15°25	n.a.	S 16
M17	19 24 43	19°45'47	6♑42	8°45	4°58	11°22	24°10	15°51	26°16	3°37	1°34	8° 7	7° 4	15°32	n.a.	M17
T 18	19 28 39	20°43'27	20°10	10°43	5°47	12° 1	24°16	15°49	26°13	3°38	1°33	7°56	7° 1	15°39	n.a.	T 18
W19	19 32 36	21°41'09	3♒23	12°42	6°37	12°39	24°22	15°47	26°11	3°39	1°31	7°44	6°57	15°45	n.a.	W19
T 20	19 36 32	22°38'53	16°19	14°42	7°28	13°18	24°27	15°46	26° 9	3°40	1°30	7°33	6°54	15°52	n.a.	T 20
F 21	19 40 29	23°36'38	28°57	16°42	8°19	13°56	24°33	15°44	26° 6	3°41	1°29	7°22	6°51	15°59	n.a.	F 21
S 22	19 44 25	24°34'24	11♓18	18°43	9°11	14°35	24°38	15°42	26° 4	3°42	1°28	7°13	6°48	16° 5	n.a.	S 22
S 23	19 48 22	25°32'12	23°25	20°44	10° 3	15°14	24°43	15°40	26° 1	3°43	1°26	7° 7	6°45	16°12	n.a.	S 23
M24	19 52 18	26°30'03	5♈21	22°44	10°56	15°53	24°48	15°37	25°59	3°44	1°25	7° 3	6°42	16°19	n.a.	M24
T 25	19 56 15	27°27'55	17°11	24°44	11°50	16°32	24°53	15°35	25°57	3°45	1°24	7° 1	6°38	16°25	n.a.	T 25
W26	20 0 12	28°25'49	29° 0	26°44	12°44	17°11	24°57	15°33	25°54	3°47	1°22	7°D 1	6°35	16°32	n.a.	W26
T 27	20 4 8	29°23'44	10♉53	28°43	13°39	17°50	25° 2	15°30	25°52	3°48	1°21	7°R 1	6°32	16°39	n.a.	T 27
F 28	20 8 5	0♌21'42	22°55	0♌41	14°34	18°30	25° 6	15°28	25°49	3°49	1°20	7° 0	6°29	16°45	n.a.	F 28
S 29	20 12 1	1°19'42	5♊13	2°38	15°30	19° 9	25°10	15°25	25°47	3°50	1°19	6°58	6°26	16°52	n.a.	S 29
S 30	20 15 58	2°17'44	17°49	4°34	16°27	19°48	25°14	15°22	25°45	3°51	1°17	6°53	6°22	16°59	n.a.	S 30
M31	20 19 54	3♌15'48	0♋47	6♌29	17♊24	20♍28	25♈18	15♓20	25♑42	3♎53	1♒16	6♏45	6♏19	17♈ 5	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n38	18n15	1s34	20n31	2s23	14n28	4s39	11n50	0n45	7n35	1s16	7s48	2s26	21s39	0s39	0n23	1n55	31s13	11s35	14s49	14s18	7n26		n.a.
S 2	23 36	19 37	2 35	20 51	2 8	14 37	4 39	11 35	0 44	7 38	1 16	7 48	2 26	21 40	0 39	0 22	1 55	31 14	11 35	14 47	14 17	7 28		n.a.
M 3	23 34	20 1	3 30	21 11	1 54	14 45	4 39	11 21	0 43	7 41	1 16	7 49	2 26	21 40	0 39	0 22	1 55	31 14	11 35	14 45	14 16	7 29		n.a.
T 4	23 31	19 21	4 14	21 32	1 39	14 54	4 38	11 7	0 42	7 44	1 16	7 49	2 27	21 41	0 39	0 22	1 55	31 15	11 36	14 43	14 15	7 31		n.a.
W 5	23 27	17 37	4 46	21 52	1 24	15 4	4 37	10 52	0 41	7 47	1 16	7 49	2 27	21 41	0 39	0 22	1 55	31 15	11 36	14 40	14 14	7 33		n.a.
T 6	23 23	14 53	5 3	22 13	1 9	15 13	4 36	10 38	0 40	7 49	1 16	7 50	2 27	21 42	0 39	0 21	1 55	31 16	11 36	14 37	14 13	7 35		n.a.
F 7	23 19	11 16	5 1	22 32	0 55	15 23	4 34	10 23	0 39	7 52	1 17	7 50	2 28	21 42	0 39	0 21	1 55	31 16	11 36	14 34	14 12	7 37		n.a.
S 8	23 15	7 0	4 42	22 52	0 41	15 34	4 33	10 8	0 39	7 55	1 17	7 51	2 28	21 43	0 39	0 21	1 55	31 17	11 36	14 31	14 11	7 39		n.a.
S 9	23 10	2 20	4 6	23 10	0 27	15 44	4 31	9 53	0 38	7 57	1 17	7 51	2 28	21 43	0 39	0 20	1 55	31 17	11 36	14 30	14 10	7 41		n.a.
M10	23 4	2s29	3 15	23 26	0 13	15 55	4 29	9 38	0 37	8 0	1 17	7 52	2 29	21 43	0 39	0 20	1 55	31 17	11 36	14 29	14 9	7 43		n.a.
T 11	22 58	7 11	2 12	23 42	0 0	16 6	4 27	9 23	0 36	8 2	1 17	7 53	2 29	21 44	0 39	0 20	1 55	31 18	11 37	14 28	14 8	7 44		n.a.
W12	22 52	11 29	1 0	23 55	0n12	16 17	4 25	9 8	0 35	8 5	1 17	7 53	2 29	21 44	0 39	0 19	1 55	31 18	11 37	14 28	14 7	7 46		n.a.
T 13	22 45	15 7	0n15	24 7	0 24	16 29	4 23	8 53	0 34	8 7	1 18	7 54	2 29	21 45	0 39	0 19	1 55	31 19	11 37	14 29	14 6	7 48		n.a.
F 14	22 38	17 52	1 28	24 16	0 35	16 40	4 20	8 38	0 33	8 9	1 18	7 55	2 30	21 45	0 39	0 19	1 55	31 19	11 37	14 28	14 5	7 50		n.a.
S 15	22 31	19 31	2 36	24 23	0 45	16 52	4 18	8 22	0 33	8 12	1 18	7 55	2 30	21 46	0 39	0 18	1 55	31 20	11 37	14 27	14 4	7 52		n.a.
S 16	22 23	19 59	3 33	24 27	0 55	17 3	4 15	8 7	0 32	8 14	1 18	7 56	2 30	21 46	0 39	0 18	1 55	31 20	11 37	14 25	14 3	7 54		n.a.
M17	22 14	19 15	4 18	24 29	1 4	17 15	4 12	7 52	0 31	8 16	1 18	7 57	2 30	21 47	0 39	0 18	1 54	31 20	11 37	14 22	14 2	7 56		n.a.
T 18	22 6	17 27	4 47	24 28	1 12	17 26	4 9	7 36	0 30	8 18	1 19	7 58	2 31	21 47	0 39	0 17	1 54	31 21	11 37	14 19	14 1	7 57		n.a.
W19	21 57	14 45	5 1	24 25	1 19	17 38	4 6	7 20	0 29	8 20	1 19	7 59	2 31	21 48	0 39	0 17	1 54	31 21	11 38	14 15	14 0	7 59		n.a.
T 20	21 47	11 23	4 58	24 18	1 25	17 49	4 2	7 5	0 28	8 22	1 19	8 0	2 31	21 48	0 39	0 16	1 54	31 22	11 38	14 11	13 59	8 1		n.a.
F 21	21 37	7 35	4 41	24 9	1 31	18 1	3 59	6 49	0 28	8 24	1 19	8 1	2 32	21 49	0 39	0 16	1 54	31 22	11 38	14 8	13 57	8 3		n.a.
S 22	21 27	3 33	4 11	23 58	1 35	18 12	3 56	6 33	0 27	8 25	1 19	8 2	2 32	21 49	0 39	0 15	1 54	31 22	11 38	14 5	13 56	8 5		n.a.
S 23	21 17	0n33	3 29	23 44	1 39	18 23	3 52	6 17	0 26	8 27	1 20	8 3	2 32	21 50	0 39	0 15	1 54	31 23	11 38	14 3	13 55	8 7		n.a.
M24	21 6	4 35	2 40	23 27	1 42	18 34	3 48	6 1	0 25	8 29	1 20	8 4	2 32	21 50	0 39	0 14	1 54	31 23	11 38	14 1	13 54	8 8		n.a.
T 25	20 54	8 25	1 43	23 8	1 45	18 45	3 45	5 45	0 24	8 30	1 20	8 5	2 33	21 50	0 39	0 14	1 54	31 24	11 38	14 1	13 53	8 10		n.a.
W26	20 43	11 54	0 42	22 47	1 46	18 56	3 41	5 29	0 23	8 32	1 20	8 6	2 33	21 51	0 39	0 13	1 54	31 24	11 38	14 1	13 52	8 12		n.a.
T 27	20 31	14 56	0s21	22 24	1 47	19 7	3 37	5 12	0 23	8 33	1 20	8 7	2 33	21 51	0 39	0 13	1 54	31 24	11 38	14 1	13 51	8 14		n.a.
F 28	20 18	17 22	1 23	21 59	1 47	19 17	3 33	4 56	0 22	8 35	1 21	8 9	2 33	21 52	0 39	0 12	1 54	31 25	11 38	14 0	13 50	8 16		n.a.
S 29	20 6	19 4	2 24	21 32	1 47	19 27	3 29	4 40	0 21	8 36	1 21	8 10	2 34	21 52	0 39	0 12	1 54	31 25	11 38	14 0	13 49	8 18		n.a.
S 30	19 53	19 52	3 18	21 3	1 46	19 37	3 25	4 23	0 20	8 37	1 21	8 11	2 34	21 53	0 39	0 11	1 54	31 25	11 38	13 58	13 48	8 19		n.a.
M31	19n39	19n39	4s 4	20n33	1n44	19n47	3s21	4n 7	0n19	8n38	1s21	8s13	2s34	21s53	0s39	0n11	1n54	31s26	11s38	13s55	13s47	8n21		n.a.

Julian Day Number = 1654398.5, Delta T = 03h29m13s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°36'06, Lahiri = - 6°29'05 Julian Calendar 1 July 184 BCE == Greg. Calendar 28 June 184 BCE

The year -183 astronomical counting style corresponds to year 184 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 184 BCE
geocentric

AUGUST 184 BCE (-183) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 23 51	4♌13'53	14♋ 9	8♌22	18♊21	21♍ 8	25♈21	15°R17	25°R40	3♎54	1°R15	6°R35	6♏16	17♈12	n.a.	T 1
W 2	20 27 47	5°12'01	27°53	10°15	19°19	21°47	25°25	15♓14	25♉38	3°55	1♒13	6♏24	6°13	17°18	n.a.	W 2
T 3	20 31 44	6°10'10	11♌56	12° 6	20°17	22°27	25°28	15°11	25°35	3°57	1°12	6°11	6°10	17°25	n.a.	T 3
F 4	20 35 41	7° 8'21	26°14	13°56	21°16	23° 7	25°31	15° 8	25°33	3°58	1°11	6° 0	6° 7	17°32	n.a.	F 4
S 5	20 39 37	8° 6'34	10♍40	15°45	22°15	23°47	25°34	15° 4	25°30	4° 0	1°10	5°51	6° 3	17°38	n.a.	S 5
S 6	20 43 34	9° 4'49	25° 9	17°33	23°14	24°27	25°36	15° 1	25°28	4° 1	1° 8	5°44	6° 0	17°45	n.a.	S 6
M 7	20 47 30	10° 3'05	9♎34	19°20	24°14	25° 7	25°39	14°58	25°26	4° 2	1° 7	5°40	5°57	17°52	n.a.	M 7
T 8	20 51 27	11° 1'23	23°52	21° 5	25°14	25°47	25°41	14°54	25°24	4° 4	1° 6	5°38	5°54	17°58	n.a.	T 8
W 9	20 55 23	11°59'42	8♏ 1	22°49	26°15	26°27	25°43	14°51	25°21	4° 5	1° 4	5°38	5°51	18° 5	n.a.	W 9
T 10	20 59 20	12°58'03	21°59	24°32	27°16	27° 8	25°45	14°47	25°19	4° 7	1° 3	5°38	5°48	18°12	n.a.	T 10
F 11	21 3 16	13°56'26	5♐48	26°14	28°17	27°48	25°46	14°43	25°17	4° 9	1° 2	5°37	5°44	18°18	n.a.	F 11
S 12	21 7 13	14°54'50	19°26	27°55	29°19	28°29	25°48	14°40	25°15	4°10	1° 1	5°33	5°41	18°25	n.a.	S 12
S 13	21 11 10	15°53'17	2♑54	29°34	0♋21	29° 9	25°49	14°36	25°12	4°12	0°59	5°27	5°38	18°32	n.a.	S 13
M14	21 15 6	16°51'45	16°11	1♍13	1°23	29°50	25°50	14°32	25°10	4°13	0°58	5°18	5°35	18°38	n.a.	M14
T 15	21 19 3	17°50'14	29°17	2°50	2°26	0♎31	25°51	14°28	25° 8	4°15	0°57	5° 6	5°32	18°45	n.a.	T 15
W16	21 22 59	18°48'46	12♒10	4°27	3°29	1°11	25°52	14°24	25° 6	4°17	0°56	4°54	5°28	18°52	n.a.	W16
T 17	21 26 56	19°47'20	24°50	6° 2	4°32	1°52	25°52	14°20	25° 4	4°19	0°54	4°41	5°25	18°58	n.a.	T 17
F 18	21 30 52	20°45'55	7♓16	7°36	5°36	2°33	25°52	14°16	25° 2	4°20	0°53	4°29	5°22	19° 5	n.a.	F 18
S 19	21 34 49	21°44'33	19°29	9° 9	6°40	3°14	25°R52	14°12	25° 0	4°22	0°52	4°20	5°19	19°12	n.a.	S 19
S 20	21 38 45	22°43'13	1♈31	10°42	7°44	3°55	25°52	14° 7	24°58	4°24	0°51	4°13	5°16	19°18	n.a.	S 20
M21	21 42 42	23°41'55	13°24	12°13	8°48	4°36	25°52	14° 3	24°56	4°26	0°50	4° 8	5°13	19°25	n.a.	M21
T 22	21 46 38	24°40'39	25°12	13°43	9°53	5°18	25°51	13°59	24°54	4°27	0°49	4° 6	5° 9	19°32	n.a.	T 22
W23	21 50 35	25°39'26	6♉59	15°12	10°58	5°59	25°51	13°54	24°52	4°29	0°47	4°D 6	5° 6	19°38	n.a.	W23
T 24	21 54 32	26°38'15	18°50	16°40	12° 3	6°40	25°50	13°50	24°50	4°31	0°46	4° 6	5° 3	19°45	n.a.	T 24
F 25	21 58 28	27°37'07	0♊52	18° 7	13° 9	7°22	25°49	13°46	24°48	4°33	0°45	4°R 6	5° 0	19°51	n.a.	F 25
S 26	22 2 25	28°36'01	13° 8	19°33	14°15	8° 4	25°47	13°41	24°46	4°35	0°44	4° 5	4°57	19°58	n.a.	S 26
S 27	22 6 21	29°34'57	25°44	20°57	15°21	8°45	25°46	13°37	24°44	4°37	0°43	4° 2	4°54	20° 5	n.a.	S 27
M28	22 10 18	0♍33'56	8♋45	22°21	16°27	9°27	25°44	13°32	24°42	4°39	0°42	3°57	4°50	20°11	n.a.	M28
T 29	22 14 14	1°32'57	22°12	23°44	17°33	10° 9	25°42	13°27	24°41	4°41	0°41	3°49	4°47	20°18	n.a.	T 29
W30	22 18 11	2°32'01	6♌ 7	25° 5	18°40	10°51	25°40	13°23	24°39	4°43	0°40	3°40	4°44	20°25	n.a.	W30
T 31	22 22 7	3♍31'06	20♌26	26♍25	19♋47	11♎32	25♈37	13♓18	24♉37	4♎44	0♒39	3♏30	4♏41	20♈31	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	19n25	18n21	4s38	20n 1	1n42	19n56	3s16	3n50	0n19	8n40	1s21	8s14	2s34	21s54	0s39	0n10	1n54	31s26	11s38	13s52	13s46	8n23			n.a.
W 2	19 11	15 58	4 57	19 28	1 40	20 5	3 12	3 34	0 18	8 41	1 22	8 15	2 35	21 54	0 39	0 9	1 54	31 26	11 38	13 48	13 45	8 25			n.a.
T 3	18 57	12 37	4 59	18 54	1 37	20 14	3 8	3 17	0 17	8 42	1 22	8 17	2 35	21 54	0 39	0 9	1 54	31 27	11 39	13 44	13 44	8 27			n.a.
F 4	18 42	8 29	4 42	18 19	1 33	20 23	3 3	3 1	0 16	8 42	1 22	8 18	2 35	21 55	0 39	0 8	1 53	31 27	11 39	13 40	13 43	8 28			n.a.
S 5	18 27	3 50	4 7	17 43	1 29	20 31	2 59	2 44	0 15	8 43	1 22	8 20	2 35	21 55	0 39	0 8	1 53	31 27	11 39	13 37	13 42	8 30			n.a.
S 6	18 12	1s 3	3 17	17 6	1 25	20 38	2 54	2 27	0 15	8 44	1 22	8 21	2 35	21 56	0 39	0 7	1 53	31 28	11 39	13 35	13 41	8 32			n.a.
M 7	17 56	5 52	2 13	16 28	1 20	20 46	2 50	2 10	0 14	8 45	1 23	8 23	2 36	21 56	0 39	0 6	1 53	31 28	11 39	13 34	13 39	8 34			n.a.
T 8	17 40	10 19	1 2	15 50	1 16	20 53	2 45	1 54	0 13	8 45	1 23	8 24	2 36	21 57	0 39	0 6	1 53	31 28	11 39	13 33	13 38	8 36			n.a.
W 9	17 24	14 9	0n13	15 10	1 10	20 59	2 41	1 37	0 12	8 46	1 23	8 26	2 36	21 57	0 39	0 5	1 53	31 29	11 39	13 33	13 37	8 37			n.a.
T 10	17 7	17 6	1 25	14 31	1 5	21 5	2 36	1 20	0 11	8 46	1 23	8 27	2 36	21 57	0 39	0 4	1 53	31 29	11 39	13 33	13 36	8 39			n.a.
F 11	16 50	19 1	2 32	13 50	0 59	21 11	2 31	1 3	0 11	8 47	1 23	8 29	2 36	21 58	0 39	0 4	1 53	31 29	11 39	13 33	13 35	8 41			n.a.
S 12	16 33	19 48	3 30	13 10	0 53	21 16	2 27	0 46	0 10	8 47	1 24	8 31	2 37	21 58	0 39	0 3	1 53	31 29	11 38	13 31	13 34	8 43			n.a.
S 13	16 15	19 27	4 15	12 29	0 47	21 21	2 22	0 29	0 9	8 47	1 24	8 32	2 37	21 59	0 39	0 2	1 53	31 30	11 38	13 29	13 33	8 45			n.a.
M14	15 58	18 1	4 45	11 48	0 40	21 25	2 17	0 12	0 8	8 48	1 24	8 34	2 37	21 59	0 39	0 2	1 53	31 30	11 38	13 26	13 32	8 46			n.a.
T 15	15 40	15 39	5 0	11 6	0 34	21 29	2 12	0s 5	0 8	8 48	1 24	8 36	2 37	21 59	0 39	0 1	1 53	31 30	11 38	13 22	13 31	8 48			n.a.
W16	15 21	12 34	4 59	10 25	0 27	21 33	2 8	0 23	0 7	8 48	1 24	8 37	2 37	22 0	0 39	0 0	1 53	31 31	11 38	13 18	13 30	8 50			n.a.
T 17	15 3	8 57	4 43	9 43	0 20	21 35	2 3	0 40	0 6	8 48	1 25	8 39	2 37	22 0	0 39	0s 0	1 53	31 31	11 38	13 14	13 29	8 52			n.a.
F 18	14 44	5 1	4 14	9 1	0 13	21 38	1 58	0 57	0 5	8 48	1 25	8 41	2 38	22 1	0 39	0 1	1 53	31 31	11 38	13 10	13 28	8 53			n.a.
S 19	14 25	0 56	3 34	8 19	0 6	21 40	1 53	1 14	0 4	8 48	1 25	8 43	2 38	22 1	0 39	0 2	1 53	31 31	11 38	13 7	13 27	8 55			n.a.
S 20	14 6	3n 7	2 44	7 37	0s 2	21 41	1 49	1 31	0 4	8 47	1 25	8 44	2 38	22 1	0 39	0 3	1 53	31 31	11 38	13 4	13 26	8 57			n.a.
M21	13 47	7 0	1 48	6 55	0 9	21 42	1 44	1 48	0 3	8 47	1 25	8 46	2 38	22 2	0 39	0 3	1 53	31 32	11 38	13 3	13 25	8 59			n.a.
T 22	13 27	10 35	0 47	6 13	0 16	21 42	1 39	2 6	0 2	8 47	1 25	8 48	2 38	22 2	0 39	0 4	1 53	31 32	11 38	13 2	13 23	9 1			n.a.
W23	13 7	13 46	0s15	5 32	0 24	21 41	1 34	2 23	0 1	8 46	1 26	8 50	2 38	22 2	0 39	0 5	1 53	31 32	11 38	13 2	13 22	9 2			n.a.
T 24	12 47	16 23	1 18	4 50	0 32	21 40	1 30	2 40	0 1	8 46	1 26	8 52	2 39	22 3	0 39	0 6	1 53	31 32	11 38	13 2	13 21	9 4			n.a.
F 25	12 26	18 19	2 18	4 9	0 39	21 39	1 25	2 57	0s 0	8 45	1 26	8 54	2 39	22 3	0 39	0 7	1 53	31 32	11 38	13 2	13 20	9 6			n.a.
S 26	12 6	19 27	3 13	3 28	0 47	21 37	1 20	3 15	0 1	8 44	1 26	8 55	2 39	22 3	0 39	0 7	1 53	31 33	11 38	13 2	13 19	9 8			n.a.
S 27	11 45	19 39	4 0	2 47	0 55	21 34	1 15	3 32	0 2	8 44	1 26	8 57	2 39	22 4	0 39	0 8	1 53	31 33	11 38	13 1	13 18	9 9			n.a.
M28	11 24	18 50	4 36	2 7	1 2	21 31	1 11	3 49	0 2	8 43	1 27	8 59	2 39	22 4	0 39	0 9	1 52	31 33	11 37	12 59	13 17	9 11			n.a.
T 29	11 3	16 57	4 58	1 27	1 10	21 27	1 6	4 7	0 3	8 42	1 27	9 1	2 39	22 4	0 39	0 10	1 52	31 33	11 37	12 56	13 16	9 13			n.a.
W30	10 41	14 3	5 4	0 47	1 18	21 23	1 1	4 24	0 4	8 41	1 27	9 3	2 39	22 5	0 39	0 11	1 52	31 33	11 37	12 53	13 15	9 15			n.a.
T 31	10n20	10n14	4s52	0n 8	1s25	21n18	0s57	4s41	0s 5	8n40	1s27	9s 5	2s39	22s 5	0s39	0s11	1n52	31s33	11s37	12s50	13s14	9n16			n.a.

Julian Day Number = 1654429.5, Delta T = 03h29m12s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°36'01, Lahiri = - 6°29'01 Julian Calendar 1 Aug. 184 BCE == Greg. Calendar 29 July 184 BCE

The year -183 astronomical counting style corresponds to year 184 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 184 BCE
geocentric

SEPTEMBER 184 BCE (-183) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	22 26 4	4♍30'14	5♍ 4	27♍44	20♋54	12♎14	25°R35	13°R14	24°R35	4♎46	0°R38	3°R21	4♏38	20♈38	n.a.	F 1
S 2	22 30 1	5°29'24	19°53	29° 2	22° 1	12°57	25♈32	13♓ 9	24♉34	4°48	0♒36	3♏13	4°34	20°45	n.a.	S 2
S 3	22 33 57	6°28'36	4♎46	0♎18	23° 9	13°39	25°29	13° 4	24°32	4°50	0°35	3° 8	4°31	20°51	n.a.	S 3
M 4	22 37 54	7°27'50	19°34	1°33	24°16	14°21	25°26	12°59	24°31	4°53	0°34	3° 5	4°28	20°58	n.a.	M 4
T 5	22 41 50	8°27'06	4♏11	2°46	25°24	15° 3	25°23	12°55	24°29	4°55	0°33	3°D 4	4°25	21° 5	n.a.	T 5
W 6	22 45 47	9°26'24	18°33	3°58	26°32	15°46	25°19	12°50	24°28	4°57	0°33	3° 5	4°22	21°11	n.a.	W 6
T 7	22 49 43	10°25'44	2♐37	5° 8	27°41	16°28	25°15	12°45	24°26	4°59	0°32	3° 6	4°19	21°18	n.a.	T 7
F 8	22 53 40	11°25'06	16°23	6°16	28°49	17°11	25°11	12°40	24°25	5° 1	0°31	3°R 6	4°15	21°25	n.a.	F 8
S 9	22 57 36	12°24'29	29°51	7°22	29°58	17°53	25° 7	12°36	24°23	5° 3	0°30	3° 4	4°12	21°31	n.a.	S 9
S 10	23 1 33	13°23'55	13♑ 5	8°25	1♌ 6	18°36	25° 3	12°31	24°22	5° 5	0°29	3° 0	4° 9	21°38	n.a.	S 10
M11	23 5 29	14°23'22	26° 3	9°27	2°15	19°19	24°59	12°26	24°21	5° 7	0°28	2°55	4° 6	21°44	n.a.	M11
T 12	23 9 26	15°22'51	8♒49	10°25	3°24	20° 1	24°54	12°21	24°20	5° 9	0°27	2°47	4° 3	21°51	n.a.	T 12
W13	23 13 23	16°22'22	21°23	11°21	4°34	20°44	24°49	12°17	24°18	5°11	0°26	2°39	3°59	21°58	n.a.	W13
T 14	23 17 19	17°21'55	3♓45	12°13	5°43	21°27	24°44	12°12	24°17	5°14	0°26	2°30	3°56	22° 4	n.a.	T 14
F 15	23 21 16	18°21'30	15°58	13° 2	6°53	22°10	24°39	12° 7	24°16	5°16	0°25	2°22	3°53	22°11	n.a.	F 15
S 16	23 25 12	19°21'07	28° 1	13°48	8° 2	22°53	24°34	12° 2	24°15	5°18	0°24	2°16	3°50	22°18	n.a.	S 16
S 17	23 29 9	20°20'47	9♈56	14°29	9°12	23°36	24°28	11°58	24°14	5°20	0°23	2°11	3°47	22°24	n.a.	S 17
M18	23 33 5	21°20'28	21°46	15° 5	10°22	24°20	24°23	11°53	24°13	5°22	0°22	2° 8	3°44	22°31	n.a.	M18
T 19	23 37 2	22°20'12	3♉32	15°37	11°33	25° 3	24°17	11°48	24°12	5°24	0°22	2°D 8	3°40	22°38	n.a.	T 19
W20	23 40 58	23°19'58	15°19	16° 3	12°43	25°46	24°11	11°44	24°11	5°27	0°21	2° 9	3°37	22°44	n.a.	W20
T 21	23 44 55	24°19'47	27°10	16°22	13°53	26°30	24° 5	11°39	24°10	5°29	0°20	2°10	3°34	22°51	n.a.	T 21
F 22	23 48 52	25°19'37	9♊10	16°35	15° 4	27°13	23°59	11°34	24°10	5°31	0°20	2°12	3°31	22°58	n.a.	F 22
S 23	23 52 48	26°19'31	21°24	16°R41	16°15	27°57	23°52	11°30	24° 9	5°33	0°19	2°R13	3°28	23° 4	n.a.	S 23
S 24	23 56 45	27°19'26	3♋57	16°39	17°26	28°40	23°46	11°25	24° 8	5°36	0°19	2°13	3°25	23°11	n.a.	S 24
M25	0 0 41	28°19'24	16°53	16°29	18°37	29°24	23°39	11°21	24° 7	5°38	0°18	2°11	3°21	23°18	n.a.	M25
T 26	0 4 38	29°19'24	0♌16	16°10	19°48	0♏ 8	23°32	11°17	24° 7	5°40	0°17	2° 8	3°18	23°24	n.a.	T 26
W27	0 8 34	0♎19'26	14° 7	15°42	20°59	0°51	23°25	11°12	24° 6	5°42	0°17	2° 4	3°15	23°31	n.a.	W27
T 28	0 12 31	1°19'30	28°27	15° 5	22°11	1°35	23°18	11° 8	24° 6	5°44	0°16	1°59	3°12	23°37	n.a.	T 28
F 29	0 16 27	2°19'37	13♍10	14°19	23°22	2°19	23°11	11° 4	24° 5	5°47	0°16	1°55	3° 9	23°44	n.a.	F 29
S 30	0 20 24	3♎19'46	28♍11	13♎23	24♌34	3♏ 3	23♈ 4	10♓59	24♑ 5	5♎49	0♒15	1♏51	3♏ 5	23♈51	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	9n58	5n44	4s20	0s31	1s33	21n13	0s52	4s58	0s 5	8n39	1s27	9s 7	2s39	22s 5	0s39	0s12	1n52	31s34	11s37	12s46	13s13	9n18		n.a.
S 2	9 36	0 50	3 30	1 9	1 40	21 6	0 48	5 16	0 6	8 38	1 27	9 9	2 39	22 5	0 39	0 13	1 52	31 34	11 37	12 44	13 12	9 20		n.a.
S 3	9 14	4s 9	2 26	1 46	1 48	21 0	0 43	5 33	0 7	8 36	1 28	9 11	2 40	22 6	0 39	0 14	1 52	31 34	11 37	12 42	13 11	9 22		n.a.
M 4	8 52	8 51	1 12	2 23	1 55	20 52	0 39	5 50	0 7	8 35	1 28	9 12	2 40	22 6	0 39	0 15	1 52	31 34	11 37	12 41	13 9	9 23		n.a.
T 5	8 30	12 58	0n 6	2 59	2 2	20 45	0 34	6 7	0 8	8 34	1 28	9 14	2 40	22 6	0 39	0 15	1 52	31 34	11 37	12 41	13 8	9 25		n.a.
W 6	8 7	16 14	1 22	3 34	2 9	20 36	0 30	6 24	0 9	8 32	1 28	9 16	2 40	22 7	0 39	0 16	1 52	31 34	11 36	12 41	13 7	9 27		n.a.
T 7	7 45	18 26	2 32	4 8	2 16	20 27	0 25	6 42	0 10	8 31	1 28	9 18	2 40	22 7	0 39	0 17	1 52	31 34	11 36	12 41	13 6	9 28		n.a.
F 8	7 22	19 30	3 32	4 42	2 23	20 17	0 21	6 59	0 10	8 29	1 28	9 20	2 40	22 7	0 39	0 18	1 52	31 34	11 36	12 41	13 5	9 30		n.a.
S 9	6 59	19 25	4 18	5 14	2 29	20 7	0 17	7 16	0 11	8 28	1 29	9 22	2 40	22 7	0 39	0 19	1 52	31 34	11 36	12 41	13 4	9 32		n.a.
S 10	6 36	18 16	4 50	5 45	2 36	19 56	0 13	7 33	0 12	8 26	1 29	9 24	2 40	22 7	0 39	0 20	1 52	31 34	11 36	12 39	13 3	9 34		n.a.
M11	6 13	16 11	5 6	6 15	2 41	19 45	0 8	7 50	0 12	8 24	1 29	9 26	2 40	22 8	0 39	0 21	1 52	31 34	11 36	12 37	13 2	9 35		n.a.
T 12	5 50	13 20	5 6	6 44	2 47	19 33	0 4	8 7	0 13	8 22	1 29	9 28	2 40	22 8	0 39	0 22	1 52	31 34	11 35	12 35	13 1	9 37		n.a.
W13	5 26	9 56	4 52	7 10	2 52	19 20	0 0	8 24	0 14	8 20	1 29	9 29	2 40	22 8	0 38	0 22	1 52	31 34	11 35	12 32	13 0	9 39		n.a.
T 14	5 3	6 9	4 24	7 36	2 57	19 7	0n 4	8 41	0 15	8 19	1 29	9 31	2 40	22 8	0 38	0 23	1 52	31 34	11 35	12 29	12 59	9 41		n.a.
F 15	4 39	2 10	3 44	7 59	3 1	18 53	0 8	8 58	0 15	8 17	1 29	9 33	2 40	22 8	0 38	0 24	1 52	31 35	11 35	12 26	12 57	9 42		n.a.
S 16	4 16	1n52	2 55	8 20	3 5	18 39	0 12	9 15	0 16	8 14	1 29	9 35	2 40	22 9	0 38	0 25	1 52	31 35	11 35	12 24	12 56	9 44		n.a.
S 17	3 52	5 47	1 58	8 40	3 8	18 24	0 15	9 31	0 17	8 12	1 29	9 37	2 40	22 9	0 38	0 26	1 52	31 35	11 35	12 22	12 55	9 46		n.a.
M18	3 28	9 27	0 56	8 56	3 11	18 9	0 19	9 48	0 17	8 10	1 30	9 39	2 40	22 9	0 38	0 27	1 52	31 35	11 34	12 21	12 54	9 47		n.a.
T 19	3 4	12 43	0s 8	9 10	3 13	17 53	0 23	10 5	0 18	8 8	1 30	9 40	2 40	22 9	0 38	0 28	1 52	31 34	11 34	12 21	12 53	9 49		n.a.
W20	2 41	15 29	1 11	9 21	3 14	17 37	0 27	10 22	0 19	8 6	1 30	9 42	2 40	22 9	0 38	0 29	1 52	31 34	11 34	12 21	12 52	9 51		n.a.
T 21	2 17	17 36	2 13	9 29	3 14	17 20	0 30	10 38	0 19	8 3	1 30	9 44	2 40	22 9	0 38	0 29	1 52	31 34	11 34	12 22	12 51	9 52		n.a.
F 22	1 53	18 58	3 9	9 33	3 13	17 2	0 34	10 55	0 20	8 1	1 30	9 46	2 40	22 9	0 38	0 30	1 52	31 34	11 34	12 23	12 50	9 54		n.a.
S 23	1 29	19 29	3 57	9 34	3 11	16 44	0 37	11 11	0 21	7 58	1 30	9 47	2 40	22 10	0 38	0 31	1 52	31 34	11 33	12 23	12 49	9 56		n.a.
S 24	1 5	19 3	4 36	9 30	3 7	16 26	0 40	11 27	0 21	7 56	1 30	9 49	2 40	22 10	0 38	0 32	1 52	31 34	11 33	12 23	12 48	9 58		n.a.
M25	0 40	17 38	5 2	9 21	3 2	16 7	0 44	11 44	0 22	7 53	1 30	9 51	2 40	22 10	0 38	0 33	1 52	31 34	11 33	12 22	12 47	9 59		n.a.
T 26	0 16	15 14	5 13	9 8	2 56	15 47	0 47	12 0	0 23	7 51	1 30	9 52	2 40	22 10	0 38	0 34	1 52	31 34	11 33	12 21	12 45	10 1		n.a.
W27	0s 8	11 54	5 6	8 49	2 48	15 27	0 50	12 16	0 23	7 48	1 30	9 54	2 40	22 10	0 38	0 35	1 52	31 34	11 33	12 20	12 44	10 3		n.a.
T 28	0 32	7 46	4 41	8 26	2 38	15 7	0 53	12 32	0 24	7 46	1 30	9 56	2 39	22 10	0 38	0 36	1 52	31 34	11 32	12 18	12 43	10 4		n.a.
F 29	0 56	3 4	3 56	7 56	2 26	14 46	0 56	12 48	0 25	7 43	1 30	9 57	2 39	22 10	0 38	0 37	1 52	31 34	11 32	12 17	12 42	10 6		n.a.
S 30	1s20	1s56	2s54	7s22	2s12	14n25	0n59	13s 4	0s25	7n40	1s30	9s59	2s39	22s10	0s38	0s38	1n52	31s34	11s32	12s15	12s41	10n 8		n.a.

Julian Day Number = 1654460.5, Delta T = 03h29m11s
Ecliptic obliquity = 23°42'56, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°35'57, Lahiri = - 6°28'57 Julian Calendar 1 Sept. 184 BCE == Greg. Calendar 29 Aug. 184 BCE

The year -183 astronomical counting style corresponds to year 184 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 184 BCE
geocentric

OCTOBER 184 BCE (-183) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 24 20	4♎19'56	13♎20	12°R20	25♌46	3♏47	22°R57	10°R55	24°R 5	5♎51	0°R15	1°R49	3♏ 2	23♈57	n.a.	S 1
M 2	0 28 17	5°20'09	28°28	11♎11	26°58	4°31	22♈49	10♓51	24♉ 4	5°53	0♒15	1°D48	2°59	24° 4	n.a.	M 2
T 3	0 32 14	6°20'23	13♏26	9°56	28° 9	5°16	22°42	10°47	24° 4	5°56	0°14	1♏48	2°56	24°11	n.a.	T 3
W 4	0 36 10	7°20'39	28° 7	8°38	29°22	6° 0	22°34	10°43	24° 4	5°58	0°14	1°49	2°53	24°17	n.a.	W 4
T 5	0 40 7	8°20'57	12♐26	7°20	0♍34	6°44	22°26	10°39	24° 4	6° 0	0°13	1°51	2°50	24°24	n.a.	T 5
F 6	0 44 3	9°21'16	26°21	6° 3	1°46	7°29	22°19	10°35	24° 4	6° 2	0°13	1°52	2°46	24°31	n.a.	F 6
S 7	0 48 0	10°21'37	9♑53	4°51	2°58	8°13	22°11	10°31	24°D 4	6° 5	0°13	1°R53	2°43	24°37	n.a.	S 7
S 8	0 51 56	11°21'59	23° 2	3°45	4°11	8°58	22° 3	10°28	24° 4	6° 7	0°13	1°52	2°40	24°44	n.a.	S 8
M 9	0 55 53	12°22'23	5♒52	2°48	5°23	9°42	21°55	10°24	24° 4	6° 9	0°12	1°51	2°37	24°51	n.a.	M 9
T 10	0 59 49	13°22'49	18°25	2° 1	6°36	10°27	21°47	10°20	24° 4	6°11	0°12	1°48	2°34	24°57	n.a.	T 10
W11	1 3 46	14°23'15	0♓45	1°25	7°49	11°11	21°39	10°17	24° 4	6°14	0°12	1°46	2°31	25° 4	n.a.	W11
T 12	1 7 43	15°23'44	12°54	1° 0	9° 1	11°56	21°31	10°13	24° 4	6°16	0°12	1°43	2°27	25°11	n.a.	T 12
F 13	1 11 39	16°24'14	24°54	0°47	10°14	12°41	21°23	10°10	24° 4	6°18	0°12	1°40	2°24	25°17	n.a.	F 13
S 14	1 15 36	17°24'45	6♈48	0°D46	11°27	13°26	21°15	10° 7	24° 5	6°20	0°11	1°39	2°21	25°24	n.a.	S 14
S 15	1 19 32	18°25'18	18°38	0°55	12°40	14°11	21° 6	10° 3	24° 5	6°23	0°11	1°37	2°18	25°30	n.a.	S 15
M16	1 23 29	19°25'53	0♉26	1°15	13°53	14°56	20°58	10° 0	24° 5	6°25	0°11	1°D37	2°15	25°37	n.a.	M16
T 17	1 27 25	20°26'29	12°13	1°44	15° 7	15°41	20°50	9°57	24° 6	6°27	0°11	1°37	2°11	25°44	n.a.	T 17
W18	1 31 22	21°27'07	24° 4	2°22	16°20	16°26	20°42	9°54	24° 6	6°29	0°D11	1°38	2° 8	25°50	n.a.	W18
T 19	1 35 18	22°27'47	5♊59	3° 7	17°33	17°11	20°34	9°51	24° 7	6°31	0°11	1°39	2° 5	25°57	n.a.	T 19
F 20	1 39 15	23°28'29	18° 3	3°59	18°47	17°56	20°26	9°49	24° 8	6°34	0°11	1°40	2° 2	26° 4	n.a.	F 20
S 21	1 43 12	24°29'12	0♋19	4°58	20° 0	18°41	20°17	9°46	24° 8	6°36	0°11	1°41	1°59	26°10	n.a.	S 21
S 22	1 47 8	25°29'57	12°50	6° 1	21°14	19°27	20° 9	9°43	24° 9	6°38	0°12	1°41	1°56	26°17	n.a.	S 22
M23	1 51 5	26°30'44	25°41	7° 9	22°28	20°12	20° 1	9°41	24°10	6°40	0°12	1°R41	1°52	26°24	n.a.	M23
T 24	1 55 1	27°31'32	8♌56	8°20	23°41	20°57	19°53	9°38	24°11	6°42	0°12	1°41	1°49	26°30	n.a.	T 24
W25	1 58 58	28°32'22	22°36	9°35	24°55	21°43	19°45	9°36	24°12	6°44	0°12	1°41	1°46	26°37	n.a.	W25
T 26	2 2 54	29°33'14	6♍42	10°53	26° 9	22°28	19°37	9°34	24°12	6°46	0°12	1°41	1°43	26°44	n.a.	T 26
F 27	2 6 51	0♏34'07	21°14	12°13	27°23	23°14	19°29	9°32	24°13	6°48	0°12	1°41	1°40	26°50	n.a.	F 27
S 28	2 10 47	1°35'02	6♎ 8	13°36	28°37	24° 0	19°21	9°30	24°14	6°51	0°13	1°D40	1°36	26°57	n.a.	S 28
S 29	2 14 44	2°35'58	21°16	15° 0	29°51	24°45	19°14	9°28	24°16	6°53	0°13	1°40	1°33	27° 4	n.a.	S 29
M30	2 18 40	3°36'55	6♏29	16°25	1♎ 5	25°31	19° 6	9°26	24°17	6°55	0°13	1°R41	1°30	27°10	n.a.	M30
T 31	2 22 37	4♏37'54	21♏39	17♎52	2♎19	26♏17	18♈58	9♓24	24♉18	6♎57	0♒14	1♏40	1♏27	27♈17	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	1s44	6s51	1s40	6s43	1s57	14n 3	1n 2	13s20	0s26	7n37	1s30	10s 0	2s39	22s10	0s38	0s38	1n52	31s34	11s32	12s14	12s40	10n 9			n.a.
M 2	2 9	11 20	0 18	6 0	1 40	13 41	1 5	13 35	0 26	7 35	1 30	10 2	2 39	22 10	0 38	0 39	1 52	31 34	11 32	12 14	12 39	10 11			n.a.
T 3	2 33	15 2	1n 4	5 13	1 21	13 18	1 7	13 51	0 27	7 32	1 30	10 3	2 39	22 10	0 38	0 40	1 52	31 33	11 31	12 14	12 38	10 13			n.a.
W 4	2 57	17 42	2 20	4 24	1 1	12 55	1 10	14 7	0 28	7 29	1 30	10 5	2 39	22 10	0 38	0 41	1 52	31 33	11 31	12 15	12 37	10 14			n.a.
T 5	3 21	19 9	3 26	3 34	0 41	12 32	1 13	14 22	0 28	7 26	1 30	10 6	2 39	22 10	0 38	0 42	1 52	31 33	11 31	12 15	12 36	10 16			n.a.
F 6	3 45	19 23	4 17	2 44	0 20	12 8	1 15	14 37	0 29	7 23	1 30	10 7	2 39	22 10	0 38	0 43	1 52	31 33	11 31	12 16	12 34	10 18			n.a.
S 7	4 9	18 28	4 53	1 57	0n 0	11 44	1 17	14 52	0 30	7 20	1 30	10 9	2 39	22 10	0 38	0 44	1 52	31 33	11 30	12 16	12 33	10 19			n.a.
S 8	4 33	16 36	5 12	1 12	0 20	11 19	1 20	15 8	0 30	7 17	1 30	10 10	2 38	22 10	0 38	0 45	1 52	31 33	11 30	12 16	12 32	10 21			n.a.
M 9	4 57	13 56	5 15	0 32	0 39	10 54	1 22	15 22	0 31	7 14	1 30	10 11	2 38	22 10	0 38	0 46	1 52	31 33	11 30	12 15	12 31	10 23			n.a.
T 10	5 20	10 41	5 3	0n 4	0 57	10 29	1 24	15 37	0 31	7 11	1 30	10 13	2 38	22 10	0 38	0 46	1 52	31 32	11 30	12 14	12 30	10 24			n.a.
W11	5 44	7 1	4 37	0 33	1 13	10 4	1 26	15 52	0 32	7 8	1 30	10 14	2 38	22 10	0 38	0 47	1 52	31 32	11 29	12 13	12 29	10 26			n.a.
T 12	6 8	3 8	3 58	0 56	1 27	9 38	1 28	16 7	0 33	7 5	1 30	10 15	2 38	22 10	0 38	0 48	1 52	31 32	11 29	12 12	12 28	10 28			n.a.
F 13	6 31	0n51	3 10	1 12	1 40	9 12	1 30	16 21	0 33	7 2	1 30	10 16	2 38	22 10	0 38	0 49	1 52	31 32	11 29	12 12	12 27	10 29			n.a.
S 14	6 55	4 46	2 13	1 23	1 50	8 45	1 31	16 35	0 34	6 59	1 30	10 17	2 38	22 10	0 38	0 50	1 52	31 32	11 29	12 11	12 26	10 31			n.a.
S 15	7 18	8 29	1 11	1 27	1 59	8 19	1 33	16 49	0 34	6 56	1 30	10 19	2 37	22 10	0 38	0 51	1 52	31 31	11 29	12 10	12 25	10 32			n.a.
M16	7 41	11 51	0 7	1 26	2 6	7 52	1 35	17 4	0 35	6 53	1 30	10 20	2 37	22 9	0 38	0 52	1 52	31 31	11 28	12 10	12 23	10 34			n.a.
T 17	8 4	14 45	0s59	1 19	2 12	7 24	1 36	17 17	0 36	6 50	1 30	10 21	2 37	22 9	0 38	0 53	1 52	31 31	11 28	12 10	12 22	10 36			n.a.
W18	8 28	17 2	2 2	1 8	2 16	6 57	1 38	17 31	0 36	6 47	1 30	10 22	2 37	22 9	0 38	0 53	1 52	31 31	11 28	12 11	12 21	10 37			n.a.
T 19	8 50	18 36	3 0	0 52	2 19	6 29	1 39	17 45	0 37	6 44	1 30	10 22	2 37	22 9	0 38	0 54	1 52	31 30	11 28	12 11	12 20	10 39			n.a.
F 20	9 13	19 21	3 51	0 32	2 20	6 1	1 40	17 58	0 37	6 41	1 30	10 23	2 37	22 9	0 38	0 55	1 52	31 30	11 27	12 11	12 19	10 41			n.a.
S 21	9 36	19 11	4 32	0 9	2 21	5 33	1 41	18 11	0 38	6 38	1 29	10 24	2 36	22 9	0 38	0 56	1 52	31 30	11 27	12 12	12 18	10 42			n.a.
S 22	9 58	18 5	5 1	0s17	2 20	5 5	1 42	18 25	0 38	6 35	1 29	10 25	2 36	22 9	0 37	0 57	1 52	31 30	11 27	12 12	12 17	10 44			n.a.
M23	10 21	16 4	5 17	0 45	2 19	4 36	1 43	18 37	0 39	6 32	1 29	10 26	2 36	22 9	0 37	0 58	1 52	31 29	11 27	12 12	12 16	10 45			n.a.
T 24	10 43	13 9	5 16	1 16	2 16	4 7	1 44	18 50	0 40	6 29	1 29	10 27	2 36	22 8	0 37	0 59	1 52	31 29	11 26	12 12	12 15	10 47			n.a.
W25	11 5	9 27	4 57	1 48	2 13	3 39	1 45	19 3	0 40	6 27	1 29	10 27	2 36	22 8	0 37	0 59	1 52	31 29	11 26	12 12	12 13	10 49			n.a.
T 26	11 27	5 7	4 21	2 22	2 10	3 10	1 45	19 15	0 41	6 24	1 29	10 28	2 35	22 8	0 37	1 0	1 52	31 29	11 26	12 12	12 12	10 50			n.a.
F 27	11 48	0 21	3 27	2 57	2 6	2 40	1 46	19 27	0 41	6 21	1 29	10 29	2 35	22 8	0 37	1 1	1 52	31 28	11 26	12 12	12 11	10 52			n.a.
S 28	12 10	4s34	2 18	3 34	2 1	2 11	1 47	19 40	0 42	6 18	1 28	10 29	2 35	22 8	0 37	1 2	1 52	31 28	11 25	12 12	12 10	10 54			n.a.
S 29	12 31	9 17	0 58	4 11	1 56	1 42	1 47	19 51	0 42	6 15	1 28	10 30	2 35	22 7	0 37	1 3	1 52	31 28	11 25	12 12	12 9	10 55			n.a.
M30	12 52	13 25	0n27	4 49	1 51	1 12	1 47	20 3	0 43	6 12	1 28	10 30	2 35	22 7	0 37	1 3	1 52	31 27	11 25	12 12	12 8	10 57			n.a.
T 31	13s13	16s38	1n49	5s28	1n45	0n43	1n48	20s15	0s43	6n10	1s28	10s31	2s34	22s 7	0s37	1s 4	1n52	31s27	11s25	12s11	12s 7	10n58			n.a.

Julian Day Number = 1654490.5, Delta T = 03h29m10s
Ecliptic obliquity = 23°42'56, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°35'53, Lahiri = - 6°28'53 Julian Calendar 1 Oct. 184 BCE == Greg. Calendar 28 Sept. 184 BCE

The year -183 astronomical counting style corresponds to year 184 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 184 BCE
geocentric

NOVEMBER 184 BCE (-183) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	2 26 34	5♏38'53	6♐35	19♎20	3♎33	27♏ 3	18°R51	9°R23	24♑19	6♎59	0♒14	1°R40	1♏24	27♈23	n.a.	W 1
T 2	2 30 30	6°39'54	21°10	20°48	4°47	27°48	18♈43	9♓21	24°20	7° 1	0°14	1♏40	1°21	27°30	n.a.	T 2
F 3	2 34 27	7°40'56	5♑20	22°18	6° 1	28°34	18°36	9°20	24°22	7° 3	0°15	1°39	1°17	27°37	n.a.	F 3
S 4	2 38 23	8°41'58	19° 2	23°48	7°16	29°20	18°29	9°19	24°23	7° 5	0°15	1°38	1°14	27°43	n.a.	S 4
S 5	2 42 20	9°43'01	2♒18	25°18	8°30	0♐ 6	18°21	9°17	24°24	7° 7	0°16	1°38	1°11	27°50	n.a.	S 5
M 6	2 46 16	10°44'05	15° 9	26°49	9°44	0°52	18°14	9°16	24°26	7° 9	0°16	1°D38	1° 8	27°57	n.a.	M 6
T 7	2 50 13	11°45'09	27°39	28°20	10°59	1°38	18° 8	9°15	24°27	7°11	0°17	1°38	1° 5	28° 3	n.a.	T 7
W 8	2 54 10	12°46'14	9♓52	29°52	12°13	2°25	18° 1	9°15	24°29	7°13	0°17	1°39	1° 2	28°10	n.a.	W 8
T 9	2 58 6	13°47'20	21°53	1♏23	13°28	3°11	17°54	9°14	24°31	7°15	0°18	1°40	0°58	28°17	n.a.	T 9
F 10	3 2 3	14°48'26	3♈46	2°55	14°42	3°57	17°48	9°13	24°32	7°16	0°18	1°42	0°55	28°23	n.a.	F 10
S 11	3 5 59	15°49'32	15°35	4°28	15°57	4°43	17°41	9°13	24°34	7°18	0°19	1°43	0°52	28°30	n.a.	S 11
S 12	3 9 56	16°50'40	27°22	6° 0	17°11	5°29	17°35	9°12	24°36	7°20	0°20	1°R43	0°49	28°37	n.a.	S 12
M13	3 13 52	17°51'48	9♉10	7°33	18°26	6°16	17°29	9°12	24°37	7°22	0°20	1°43	0°46	28°43	n.a.	M13
T 14	3 17 49	18°52'57	21° 3	9° 5	19°40	7° 2	17°23	9°12	24°39	7°24	0°21	1°42	0°42	28°50	n.a.	T 14
W15	3 21 45	19°54'06	3♊ 1	10°38	20°55	7°49	17°17	9°D12	24°41	7°26	0°22	1°40	0°39	28°56	n.a.	W15
T 16	3 25 42	20°55'16	15° 6	12°11	22°10	8°35	17°12	9°12	24°43	7°27	0°22	1°37	0°36	29° 3	n.a.	T 16
F 17	3 29 39	21°56'27	27°21	13°44	23°24	9°22	17° 6	9°12	24°45	7°29	0°23	1°34	0°33	29°10	n.a.	F 17
S 18	3 33 35	22°57'39	9♋47	15°17	24°39	10° 8	17° 1	9°12	24°47	7°31	0°24	1°31	0°30	29°16	n.a.	S 18
S 19	3 37 32	23°58'51	22°26	16°51	25°54	10°55	16°56	9°13	24°49	7°32	0°25	1°27	0°27	29°23	n.a.	S 19
M20	3 41 28	25° 0'04	5♌19	18°24	27° 9	11°41	16°51	9°13	24°51	7°34	0°26	1°25	0°23	29°30	n.a.	M20
T 21	3 45 25	26° 1'17	18°31	19°58	28°23	12°28	16°46	9°14	24°53	7°36	0°27	1°24	0°20	29°36	n.a.	T 21
W22	3 49 21	27° 2'32	2♍ 2	21°32	29°38	13°15	16°42	9°14	24°56	7°37	0°27	1°D24	0°17	29°43	n.a.	W22
T 23	3 53 18	28° 3'46	15°54	23° 6	0♏53	14° 1	16°37	9°15	24°58	7°39	0°28	1°24	0°14	29°50	n.a.	T 23
F 24	3 57 14	29° 5'02	0♎ 7	24°40	2° 8	14°48	16°33	9°16	25° 0	7°41	0°29	1°26	0°11	29°56	n.a.	F 24
S 25	4 1 11	0♐ 6'18	14°40	26°15	3°23	15°35	16°29	9°17	25° 2	7°42	0°30	1°27	0° 7	0♉ 3	n.a.	S 25
S 26	4 5 8	1° 7'34	29°29	27°50	4°38	16°22	16°25	9°18	25° 5	7°44	0°31	1°R28	0° 4	0°10	n.a.	S 26
M27	4 9 4	2° 8'51	14♏29	29°25	5°53	17° 8	16°21	9°20	25° 7	7°45	0°32	1°28	0° 1	0°16	n.a.	M27
T 28	4 13 1	3°10'08	29°31	1♐ 0	7° 8	17°55	16°18	9°21	25° 9	7°47	0°33	1°25	29♎58	0°23	n.a.	T 28
W29	4 16 57	4°11'25	14♐26	2°35	8°22	18°42	16°15	9°22	25°12	7°48	0°34	1°22	29°55	0°30	n.a.	W29
T 30	4 20 54	5♐12'42	29♐ 7	4♐11	9♏37	19♐29	16♈12	9♓24	25♑14	7♎50	0♒35	1♏17	29♎52	0♉36	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	13s33	18s40	3n 2	6s 7	1n39	0n13	1n48	20s26	0s44	6n 7	1s28	10s31	2s34	22s 7	0s37	1s 5	1n53	31s27	11s24	12s11	12s 6	11n 0		n.a.
T 2	13 54	19 23	4 2	6 46	1 33	0s17	1 48	20 37	0 44	6 4	1 27	10 31	2 34	22 6	0 37	1 6	1 53	31 26	11 24	12 11	12 5	11 2		n.a.
F 3	14 14	18 51	4 45	7 26	1 27	0 46	1 48	20 48	0 45	6 2	1 27	10 32	2 34	22 6	0 37	1 7	1 53	31 26	11 24	12 11	12 3	11 3		n.a.
S 4	14 34	17 13	5 10	8 6	1 21	1 16	1 48	20 59	0 45	5 59	1 27	10 32	2 34	22 6	0 37	1 7	1 53	31 26	11 24	12 11	12 2	11 5		n.a.
S 5	14 54	14 43	5 18	8 45	1 14	1 46	1 48	21 9	0 46	5 56	1 27	10 32	2 33	22 6	0 37	1 8	1 53	31 25	11 23	12 11	12 1	11 6		n.a.
M 6	15 13	11 33	5 9	9 25	1 7	2 15	1 47	21 19	0 46	5 54	1 27	10 33	2 33	22 5	0 37	1 9	1 53	31 25	11 23	12 11	12 0	11 8		n.a.
T 7	15 32	7 57	4 46	10 4	1 0	2 45	1 47	21 29	0 47	5 52	1 26	10 33	2 33	22 5	0 37	1 10	1 53	31 25	11 23	12 11	11 59	11 9		n.a.
W 8	15 51	4 6	4 10	10 43	0 54	3 15	1 47	21 39	0 47	5 49	1 26	10 33	2 33	22 5	0 37	1 10	1 53	31 24	11 23	12 11	11 58	11 11		n.a.
T 9	16 10	0 8	3 24	11 22	0 47	3 45	1 46	21 49	0 48	5 47	1 26	10 33	2 32	22 4	0 37	1 11	1 53	31 24	11 22	12 11	11 57	11 13		n.a.
F 10	16 28	3n47	2 29	12 0	0 40	4 14	1 46	21 58	0 48	5 45	1 26	10 33	2 32	22 4	0 37	1 12	1 53	31 24	11 22	12 12	11 56	11 14		n.a.
S 11	16 46	7 33	1 28	12 38	0 33	4 44	1 45	22 7	0 49	5 42	1 25	10 33	2 32	22 4	0 37	1 12	1 53	31 23	11 22	12 12	11 54	11 16		n.a.
S 12	17 4	11 2	0 24	13 16	0 26	5 13	1 44	22 16	0 49	5 40	1 25	10 33	2 32	22 3	0 37	1 13	1 53	31 23	11 22	12 13	11 53	11 17		n.a.
M13	17 21	14 4	0s41	13 53	0 19	5 43	1 44	22 25	0 50	5 38	1 25	10 33	2 31	22 3	0 37	1 14	1 53	31 23	11 22	12 12	11 52	11 19		n.a.
T 14	17 38	16 32	1 45	14 30	0 12	6 12	1 43	22 33	0 50	5 36	1 25	10 33	2 31	22 3	0 37	1 14	1 53	31 22	11 21	12 12	11 51	11 20		n.a.
W15	17 55	18 19	2 45	15 6	0 5	6 41	1 42	22 42	0 50	5 34	1 24	10 32	2 31	22 2	0 37	1 15	1 53	31 22	11 21	12 11	11 50	11 22		n.a.
T 16	18 12	19 16	3 38	15 42	0s 2	7 10	1 41	22 49	0 51	5 32	1 24	10 32	2 31	22 2	0 37	1 16	1 53	31 21	11 21	12 10	11 49	11 24		n.a.
F 17	18 28	19 20	4 21	16 17	0 8	7 39	1 40	22 57	0 51	5 30	1 24	10 32	2 31	22 2	0 37	1 16	1 53	31 21	11 21	12 9	11 48	11 25		n.a.
S 18	18 44	18 29	4 53	16 51	0 15	8 8	1 39	23 5	0 52	5 28	1 24	10 32	2 30	22 1	0 37	1 17	1 53	31 21	11 20	12 8	11 47	11 27		n.a.
S 19	18 59	16 42	5 11	17 24	0 22	8 36	1 37	23 12	0 52	5 27	1 23	10 31	2 30	22 1	0 37	1 18	1 53	31 20	11 20	12 7	11 45	11 28		n.a.
M20	19 14	14 4	5 14	17 57	0 28	9 5	1 36	23 19	0 53	5 25	1 23	10 31	2 30	22 0	0 37	1 18	1 53	31 20	11 20	12 6	11 44	11 30		n.a.
T 21	19 29	10 41	5 1	18 29	0 34	9 33	1 35	23 25	0 53	5 24	1 23	10 30	2 30	22 0	0 37	1 19	1 53	31 19	11 20	12 6	11 43	11 31		n.a.
W22	19 43	6 39	4 31	19 0	0 41	10 1	1 33	23 32	0 53	5 22	1 22	10 30	2 29	22 0	0 37	1 20	1 53	31 19	11 20	12 6	11 42	11 33		n.a.
T 23	19 57	2 10	3 45	19 31	0 47	10 29	1 32	23 38	0 54	5 21	1 22	10 29	2 29	21 59	0 37	1 20	1 53	31 19	11 19	12 6	11 41	11 34		n.a.
F 24	20 11	2s33	2 44	20 0	0 53	10 56	1 30	23 44	0 54	5 19	1 22	10 29	2 29	21 59	0 37	1 21	1 53	31 18	11 19	12 6	11 40	11 36		n.a.
S 25	20 24	7 14	1 31	20 29	0 58	11 24	1 29	23 50	0 54	5 18	1 22	10 28	2 29	21 58	0 37	1 21	1 54	31 18	11 19	12 7	11 39	11 37		n.a.
S 26	20 37	11 35	0 11	20 57	1 4	11 51	1 27	23 55	0 55	5 17	1 21	10 27	2 28	21 58	0 37	1 22	1 54	31 17	11 19	12 7	11 38	11 39		n.a.
M27	20 50	15 14	1n11	21 23	1 10	12 17	1 25	24 0	0 55	5 16	1 21	10 27	2 28	21 57	0 37	1 22	1 54	31 17	11 19	12 7	11 36	11 41		n.a.
T 28	21 2	17 52	2 28	21 49	1 15	12 44	1 24	24 5	0 56	5 15	1 21	10 26	2 28	21 57	0 37	1 23	1 54	31 16	11 18	12 6	11 35	11 42		n.a.
W29	21 14	19 15	3 34	22 13	1 20	13 10	1 22	24 9	0 56	5 14	1 20	10 25	2 28	21 56	0 37	1 23	1 54	31 16	11 18	12 5	11 34	11 44		n.a.
T 30	21s25	19s18	4n25	22s37	1s25	13s36	1n20	24s14	0s56	5n13	1s20	10s24	2s27	21s56	0s37	1s24	1n54	31s16	11s18	12s 3	11s33	11n45		n.a.

Julian Day Number = 1654521.5, Delta T = 03h29m09s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°35'49, Lahiri = - 6°28'48 Julian Calendar 1 Nov. 184 BCE == Greg. Calendar 29 Oct. 184 BCE

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ASTRODIENST EPHEMERIS for the year 184 BCE
geocentric

DECEMBER 184 BCE (-183) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	4 24 50	6♐13'59	13♑25	5♐47	10♏52	20♐16	16°R 9	9♓26	25♑17	7♎51	0♒36	1°R11	29♎48	0♉43	n.a.	F 1
S 2	4 28 47	7°15'16	27°17	7°24	12° 7	21° 3	16♈ 6	9°27	25°20	7°52	0°37	1♏ 5	29°45	0°49	n.a.	S 2
S 3	4 32 43	8°16'33	10♒41	9° 1	13°22	21°50	16° 4	9°29	25°22	7°54	0°39	1° 1	29°42	0°56	n.a.	S 3
M 4	4 36 40	9°17'49	23°39	10°38	14°37	22°37	16° 1	9°31	25°25	7°55	0°40	0°58	29°39	1° 3	n.a.	M 4
T 5	4 40 37	10°19'04	6♓12	12°15	15°52	23°24	15°59	9°34	25°27	7°56	0°41	0°D56	29°36	1° 9	n.a.	T 5
W 6	4 44 33	11°20'20	18°26	13°53	17° 7	24°11	15°57	9°36	25°30	7°57	0°42	0°57	29°33	1°16	n.a.	W 6
T 7	4 48 30	12°21'34	0♈26	15°31	18°22	24°58	15°56	9°38	25°33	7°59	0°43	0°58	29°29	1°23	n.a.	T 7
F 8	4 52 26	13°22'48	12°17	17°10	19°37	25°46	15°54	9°41	25°36	8° 0	0°45	1° 0	29°26	1°29	n.a.	F 8
S 9	4 56 23	14°24'02	24° 3	18°49	20°52	26°33	15°53	9°43	25°38	8° 1	0°46	1° 1	29°23	1°36	n.a.	S 9
S 10	5 0 19	15°25'15	5♉50	20°28	22° 7	27°20	15°52	9°46	25°41	8° 2	0°47	1°R 1	29°20	1°43	n.a.	S 10
M11	5 4 16	16°26'28	17°42	22° 8	23°22	28° 7	15°51	9°48	25°44	8° 3	0°48	0°59	29°17	1°49	n.a.	M11
T 12	5 8 12	17°27'40	29°40	23°48	24°37	28°54	15°51	9°51	25°47	8° 4	0°50	0°55	29°13	1°56	n.a.	T 12
W13	5 12 9	18°28'51	11♊49	25°28	25°52	29°41	15°50	9°54	25°50	8° 5	0°51	0°49	29°10	2° 3	n.a.	W13
T 14	5 16 6	19°30'02	24° 9	27° 9	27° 7	0♑29	15°D50	9°57	25°53	8° 6	0°52	0°41	29° 7	2° 9	n.a.	T 14
F 15	5 20 2	20°31'12	6♋41	28°50	28°22	1°16	15°50	10° 1	25°56	8° 7	0°54	0°32	29° 4	2°16	n.a.	F 15
S 16	5 23 59	21°32'22	19°25	0♑31	29°37	2° 3	15°50	10° 4	25°59	8° 8	0°55	0°22	29° 1	2°22	n.a.	S 16
S 17	5 27 55	22°33'32	2♌21	2°12	0♐52	2°50	15°51	10° 7	26° 2	8° 9	0°56	0°13	28°58	2°29	n.a.	S 17
M18	5 31 52	23°34'41	15°29	3°54	2° 7	3°38	15°51	10°11	26° 5	8°10	0°58	0° 5	28°54	2°36	n.a.	M18
T 19	5 35 48	24°35'49	28°49	5°35	3°22	4°25	15°52	10°14	26° 8	8°11	0°59	29♎59	28°51	2°42	n.a.	T 19
W20	5 39 45	25°36'57	12♍22	7°16	4°37	5°12	15°53	10°18	26°11	8°12	1° 1	29°57	28°48	2°49	n.a.	W20
T 21	5 43 42	26°38'04	26° 8	8°57	5°52	6° 0	15°54	10°21	26°14	8°13	1° 2	29°D56	28°45	2°56	n.a.	T 21
F 22	5 47 38	27°39'11	10♎ 8	10°38	7° 7	6°47	15°56	10°25	26°17	8°13	1° 3	29°56	28°42	3° 2	n.a.	F 22
S 23	5 51 35	28°40'18	24°21	12°18	8°23	7°34	15°58	10°29	26°20	8°14	1° 5	29°R57	28°39	3° 9	n.a.	S 23
S 24	5 55 31	29°41'24	8♏46	13°57	9°38	8°22	15°59	10°33	26°24	8°15	1° 6	29°57	28°35	3°16	n.a.	S 24
M25	5 59 28	0♑42'29	23°20	15°35	10°53	9° 9	16° 2	10°37	26°27	8°15	1° 8	29°55	28°32	3°22	n.a.	M25
T 26	6 3 24	1°43'33	7♐59	17°11	12° 8	9°56	16° 4	10°42	26°30	8°16	1° 9	29°50	28°29	3°29	n.a.	T 26
W27	6 7 21	2°44'37	22°36	18°45	13°23	10°44	16° 6	10°46	26°33	8°17	1°11	29°42	28°26	3°36	n.a.	W27
T 28	6 11 17	3°45'40	7♑ 4	20°18	14°38	11°31	16° 9	10°50	26°36	8°17	1°12	29°32	28°23	3°42	n.a.	T 28
F 29	6 15 14	4°46'41	21°15	21°47	15°53	12°19	16°12	10°55	26°40	8°18	1°14	29°21	28°19	3°49	n.a.	F 29
S 30	6 19 11	5°47'42	5♒ 6	23°13	17° 8	13° 6	16°15	10°59	26°43	8°18	1°15	29°10	28°16	3°56	n.a.	S 30
S 31	6 23 7	6♑48'41	18♒32	24♑35	18♐23	13♑54	16♈18	11♓ 4	26♑46	8♎19	1♒17	29♎ 0	28♎13	4♉ 2	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21s36	18s 6	4n57	22s59	1s30	14s 1	1n18	24s18	0s57	5n12	1s20	10s24	2s27	21s55	0s37	1s24	1n54	31s15	11s18	12s 1	11s32	11n47		n.a.
S 2	21 46	15 51	5 11	23 20	1 34	14 27	1 16	24 21	0 57	5 11	1 19	10 23	2 27	21 55	0 37	1 25	1 54	31 15	11 18	11 59	11 31	11 48		n.a.
S 3	21 56	12 49	5 8	23 40	1 38	14 51	1 14	24 25	0 57	5 10	1 19	10 22	2 27	21 54	0 36	1 25	1 54	31 14	11 17	11 58	11 30	11 50		n.a.
M 4	22 6	9 16	4 48	23 59	1 42	15 16	1 12	24 28	0 58	5 10	1 19	10 21	2 26	21 54	0 36	1 26	1 54	31 14	11 17	11 57	11 29	11 51		n.a.
T 5	22 15	5 24	4 15	24 16	1 46	15 40	1 10	24 31	0 58	5 9	1 18	10 20	2 26	21 53	0 36	1 26	1 54	31 13	11 17	11 56	11 27	11 53		n.a.
W 6	22 24	1 23	3 31	24 32	1 49	16 3	1 8	24 33	0 58	5 9	1 18	10 19	2 26	21 53	0 36	1 27	1 54	31 13	11 17	11 56	11 26	11 54		n.a.
T 7	22 32	2n36	2 39	24 47	1 53	16 27	1 6	24 36	0 59	5 9	1 18	10 17	2 26	21 52	0 36	1 27	1 54	31 12	11 17	11 57	11 25	11 56		n.a.
F 8	22 40	6 26	1 40	25 0	1 55	16 49	1 4	24 38	0 59	5 8	1 17	10 16	2 26	21 52	0 36	1 28	1 54	31 12	11 17	11 57	11 24	11 57		n.a.
S 9	22 47	10 1	0 38	25 12	1 58	17 12	1 1	24 39	0 59	5 8	1 17	10 15	2 25	21 51	0 36	1 28	1 54	31 12	11 16	11 58	11 23	11 59		n.a.
S 10	22 54	13 13	0s26	25 22	2 0	17 33	0 59	24 41	0 59	5 8	1 17	10 14	2 25	21 51	0 36	1 28	1 54	31 11	11 16	11 58	11 22	12 0		n.a.
M11	23 1	15 53	1 29	25 30	2 2	17 55	0 57	24 42	1 0	5 8	1 16	10 13	2 25	21 50	0 36	1 29	1 54	31 11	11 16	11 57	11 21	12 2		n.a.
T 12	23 7	17 53	2 29	25 37	2 3	18 16	0 54	24 43	1 0	5 8	1 16	10 11	2 25	21 50	0 36	1 29	1 55	31 10	11 16	11 56	11 19	12 3		n.a.
W13	23 13	19 7	3 22	25 42	2 4	18 36	0 52	24 43	1 0	5 8	1 16	10 10	2 24	21 49	0 36	1 30	1 55	31 10	11 16	11 53	11 18	12 5		n.a.
T 14	23 18	19 28	4 7	25 46	2 5	18 56	0 50	24 43	1 1	5 8	1 15	10 9	2 24	21 49	0 36	1 30	1 55	31 9	11 16	11 51	11 17	12 6		n.a.
F 15	23 22	18 52	4 41	25 47	2 5	19 15	0 47	24 43	1 1	5 9	1 15	10 7	2 24	21 48	0 36	1 30	1 55	31 9	11 16	11 47	11 16	12 8		n.a.
S 16	23 26	17 20	5 1	25 47	2 4	19 34	0 45	24 43	1 1	5 9	1 15	10 6	2 24	21 47	0 36	1 31	1 55	31 8	11 15	11 44	11 15	12 9		n.a.
S 17	23 30	14 53	5 6	25 45	2 3	19 53	0 42	24 42	1 1	5 10	1 14	10 4	2 23	21 47	0 36	1 31	1 55	31 8	11 15	11 41	11 14	12 11		n.a.
M18	23 33	11 40	4 56	25 41	2 2	20 10	0 40	24 41	1 2	5 10	1 14	10 3	2 23	21 46	0 36	1 31	1 55	31 7	11 15	11 38	11 13	12 12		n.a.
T 19	23 36	7 49	4 29	25 36	2 0	20 28	0 37	24 40	1 2	5 11	1 14	10 1	2 23	21 46	0 36	1 31	1 55	31 7	11 15	11 36	11 11	12 14		n.a.
W20	23 38	3 30	3 47	25 28	1 57	20 44	0 35	24 39	1 2	5 12	1 14	10 0	2 23	21 45	0 36	1 32	1 55	31 7	11 15	11 35	11 10	12 15		n.a.
T 21	23 40	1s 4	2 51	25 18	1 54	21 0	0 32	24 37	1 2	5 12	1 13	9 58	2 23	21 44	0 36	1 32	1 55	31 6	11 15	11 35	11 9	12 17		n.a.
F 22	23 42	5 39	1 44	25 7	1 50	21 16	0 30	24 35	1 2	5 13	1 13	9 56	2 22	21 44	0 36	1 32	1 55	31 6	11 15	11 35	11 8	12 18		n.a.
S 23	23 42	10 0	0 30	24 53	1 45	21 30	0 27	24 32	1 3	5 14	1 13	9 55	2 22	21 43	0 36	1 32	1 55	31 5	11 15	11 35	11 7	12 19		n.a.
S 24	23 43	13 51	0n47	24 38	1 40	21 45	0 25	24 30	1 3	5 15	1 12	9 53	2 22	21 43	0 36	1 33	1 55	31 5	11 14	11 35	11 6	12 21		n.a.
M25	23 43	16 51	2 2	24 21	1 34	21 58	0 22	24 27	1 3	5 16	1 12	9 51	2 22	21 42	0 36	1 33	1 55	31 4	11 14	11 34	11 5	12 22		n.a.
T 26	23 42	18 47	3 9	24 2	1 27	22 11	0 20	24 23	1 3	5 17	1 12	9 49	2 22	21 41	0 36	1 33	1 55	31 4	11 14	11 32	11 3	12 24		n.a.
W27	23 41	19 28	4 3	23 41	1 19	22 23	0 17	24 20	1 3	5 19	1 11	9 47	2 21	21 41	0 36	1 33	1 56	31 3	11 14	11 30	11 2	12 25		n.a.
T 28	23 40	18 51	4 41	23 19	1 10	22 35	0 14	24 16	1 4	5 20	1 11	9 45	2 21	21 40	0 36	1 33	1 56	31 3	11 14	11 26	11 1	12 27		n.a.
F 29	23 38	17 4	5 0	22 56	1 1	22 46	0 12	24 12	1 4	5 21	1 11	9 44	2 21	21 39	0 36	1 33	1 56	31 3	11 14	11 22	11 0	12 28		n.a.
S 30	23 35	14 20	5 2	22 31	0 50	22 56	0 9	24 7	1 4	5 23	1 10	9 42	2 21	21 39	0 36	1 34	1 56	31 2	11 14	11 18	10 59	12 30		n.a.
S 31	23s32	10s55	4n46	22s 5	0s39	23s 5	0n 7	24s 2	1s 4	5n24	1s10	9s40	2s21	21s38	0s36	1s34	1n56	31s 2	11s14	11s15	10s58	12n31		n.a.

Julian Day Number = 1654551.5, Delta T = 03h29m08s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°35'45, Lahiri = - 6°28'44 Julian Calendar 1 Dec. 184 BCE == Greg. Calendar 28 Nov. 184 BCE

The year -183 astronomical counting style corresponds to year 184 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 183 BCE
geocentric

JANUARY 183 BCE (-182) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 27 4	7♑49'39	1♓32	25♑53	19♐38	14♑41	16♈21	11♓ 9	26♑50	8♎19	1♒19	28°R52	28♎10	4♉ 9	n.a.	M 1
T 2	6 31 0	8°50'35	14°10	27° 5	20°53	15°28	16°25	11°13	26°53	8°19	1°20	28♎47	28° 7	4°15	n.a.	T 2
W 3	6 34 57	9°51'29	26°27	28°11	22° 8	16°16	16°29	11°18	26°56	8°20	1°22	28°44	28° 4	4°22	n.a.	W 3
T 4	6 38 53	10°52'23	8♈28	29°10	23°23	17° 3	16°33	11°23	27° 0	8°20	1°23	28°D43	28° 0	4°29	n.a.	T 4
F 5	6 42 50	11°53'14	20°20	0♒ 1	24°38	17°51	16°37	11°28	27° 3	8°20	1°25	28°43	27°57	4°35	n.a.	F 5
S 6	6 46 46	12°54'04	2♉ 7	0°44	25°53	18°38	16°42	11°33	27° 6	8°20	1°27	28°R43	27°54	4°42	n.a.	S 6
S 7	6 50 43	13°54'53	13°55	1°18	27° 7	19°25	16°46	11°39	27°10	8°21	1°28	28°42	27°51	4°49	n.a.	S 7
M 8	6 54 40	14°55'40	25°49	1°42	28°22	20°13	16°51	11°44	27°13	8°21	1°30	28°39	27°48	4°55	n.a.	M 8
T 9	6 58 36	15°56'25	7♊54	1°56	29°37	21° 0	16°56	11°49	27°17	8°21	1°31	28°33	27°45	5° 2	n.a.	T 9
W10	7 2 33	16°57'09	20°12	1°R58	0♑52	21°48	17° 1	11°55	27°20	8°21	1°33	28°25	27°41	5° 9	n.a.	W10
T 11	7 6 29	17°57'51	2♋46	1°51	2° 7	22°35	17° 6	12° 0	27°24	8°21	1°35	28°13	27°38	5°15	n.a.	T 11
F 12	7 10 26	18°58'31	15°35	1°32	3°22	23°22	17°12	12° 6	27°27	8°21	1°36	28° 1	27°35	5°22	n.a.	F 12
S 13	7 14 22	19°59'10	28°41	1° 3	4°37	24°10	17°17	12°11	27°30	8°R21	1°38	27°47	27°32	5°29	n.a.	S 13
S 14	7 18 19	20°59'48	12♌ 1	0°24	5°52	24°57	17°23	12°17	27°34	8°21	1°40	27°34	27°29	5°35	n.a.	S 14
M15	7 22 15	22° 0'24	25°33	29♑37	7° 7	25°44	17°29	12°23	27°37	8°21	1°41	27°23	27°25	5°42	n.a.	M15
T 16	7 26 12	23° 0'58	9♍14	28°42	8°22	26°32	17°35	12°28	27°41	8°21	1°43	27°15	27°22	5°49	n.a.	T 16
W17	7 30 9	24° 1'31	23° 3	27°42	9°36	27°19	17°41	12°34	27°44	8°21	1°45	27°10	27°19	5°55	n.a.	W17
T 18	7 34 5	25° 2'02	6♎57	26°37	10°51	28° 6	17°48	12°40	27°48	8°21	1°46	27° 7	27°16	6° 2	n.a.	T 18
F 19	7 38 2	26° 2'33	20°57	25°30	12° 6	28°54	17°54	12°46	27°51	8°21	1°48	27° 7	27°13	6° 8	n.a.	F 19
S 20	7 41 58	27° 3'01	5♏ 2	24°22	13°21	29°41	18° 1	12°52	27°55	8°20	1°50	27° 7	27°10	6°15	n.a.	S 20
S 21	7 45 55	28° 3'29	19°10	23°15	14°36	0♒28	18° 8	12°59	27°58	8°20	1°52	27° 6	27° 6	6°22	n.a.	S 21
M22	7 49 51	29° 3'55	3♐21	22°11	15°51	1°16	18°15	13° 5	28° 2	8°20	1°53	27° 3	27° 3	6°28	n.a.	M22
T 23	7 53 48	0♒ 4'20	17°34	21°11	17° 5	2° 3	18°22	13°11	28° 5	8°19	1°55	26°57	27° 0	6°35	n.a.	T 23
W24	7 57 44	1° 4'43	1♑43	20°16	18°20	2°50	18°30	13°17	28° 9	8°19	1°57	26°48	26°57	6°42	n.a.	W24
T 25	8 1 41	2° 5'04	15°45	19°26	19°35	3°37	18°37	13°24	28°12	8°19	1°58	26°37	26°54	6°48	n.a.	T 25
F 26	8 5 38	3° 5'23	29°36	18°44	20°50	4°25	18°45	13°30	28°15	8°18	2° 0	26°24	26°51	6°55	n.a.	F 26
S 27	8 9 34	4° 5'41	13♒10	18° 8	22° 5	5°12	18°53	13°37	28°19	8°18	2° 2	26°11	26°47	7° 2	n.a.	S 27
S 28	8 13 31	5° 5'57	26°26	17°40	23°19	5°59	19° 1	13°43	28°22	8°17	2° 3	26° 0	26°44	7° 8	n.a.	S 28
M29	8 17 27	6° 6'10	9♓21	17°19	24°34	6°46	19° 9	13°50	28°26	8°17	2° 5	25°50	26°41	7°15	n.a.	M29
T 30	8 21 24	7° 6'22	21°55	17° 4	25°49	7°33	19°17	13°56	28°29	8°16	2° 7	25°43	26°38	7°22	n.a.	T 30
W31	8 25 20	8♒ 6'31	4♈12	16♑57	27♑ 4	8♒20	19♈26	14♓ 3	28♑33	8♎16	2♒ 8	25♎39	26♎35	7♉28	n.a.	W31

Day	☉	☽			☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat		decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	23s29	7s 4	4n16		21s39	0s27	23s14	0n 4	23s57	1s 4	5n26	1s10	9s38	2s20	21s37	0s36	1s34	1n56	31s 1	11s14	11s12	10s57	12n33		n.a.
T 2	23 25	3 1	3 34		21 12	0 13	23 22	0 2	23 52	1 4	5 28	1 9	9 36	2 20	21 37	0 36	1 34	1 56	31 1	11 14	11 10	10 55	12 34		n.a.
W 3	23 21	1n 4	2 43		20 45	0n 1	23 30	0s 1	23 47	1 4	5 30	1 9	9 34	2 20	21 36	0 36	1 34	1 56	31 0	11 14	11 9	10 54	12 35		n.a.
T 4	23 16	5 1	1 46		20 18	0 16	23 36	0 3	23 41	1 5	5 31	1 9	9 32	2 20	21 35	0 36	1 34	1 56	31 0	11 14	11 9	10 53	12 37		n.a.
F 5	23 11	8 43	0 45		19 52	0 31	23 42	0 6	23 35	1 5	5 33	1 8	9 29	2 20	21 35	0 36	1 34	1 56	30 59	11 14	11 9	10 52	12 38		n.a.
S 6	23 5	12 4	0s18		19 27	0 48	23 47	0 8	23 28	1 5	5 35	1 8	9 27	2 19	21 34	0 36	1 34	1 56	30 59	11 13	11 9	10 51	12 40		n.a.
S 7	22 59	14 56	1 20		19 3	1 5	23 52	0 11	23 22	1 5	5 37	1 8	9 25	2 19	21 33	0 36	1 34	1 56	30 59	11 13	11 8	10 50	12 41		n.a.
M 8	22 52	17 11	2 19		18 41	1 22	23 56	0 13	23 15	1 5	5 39	1 7	9 23	2 19	21 33	0 36	1 34	1 56	30 58	11 13	11 7	10 49	12 43		n.a.
T 9	22 45	18 43	3 12		18 21	1 39	23 59	0 16	23 7	1 5	5 42	1 7	9 21	2 19	21 32	0 36	1 34	1 56	30 58	11 13	11 5	10 47	12 44		n.a.
W10	22 38	19 24	3 57		18 3	1 57	24 1	0 18	23 0	1 5	5 44	1 7	9 18	2 19	21 31	0 36	1 34	1 56	30 57	11 13	11 2	10 46	12 45		n.a.
T 11	22 30	19 9	4 32		17 48	2 14	24 3	0 21	22 52	1 5	5 46	1 7	9 16	2 19	21 31	0 36	1 34	1 57	30 57	11 13	10 58	10 45	12 47		n.a.
F 12	22 21	17 56	4 54		17 36	2 31	24 3	0 23	22 44	1 5	5 49	1 6	9 14	2 18	21 30	0 36	1 34	1 57	30 56	11 13	10 53	10 44	12 48		n.a.
S 13	22 12	15 45	5 0		17 27	2 46	24 3	0 25	22 36	1 5	5 51	1 6	9 12	2 18	21 29	0 36	1 34	1 57	30 56	11 13	10 48	10 43	12 50		n.a.
S 14	22 3	12 44	4 51		17 21	3 1	24 3	0 28	22 27	1 5	5 54	1 6	9 9	2 18	21 29	0 36	1 34	1 57	30 56	11 13	10 44	10 42	12 51		n.a.
M15	21 54	8 59	4 25		17 18	3 14	24 1	0 30	22 19	1 5	5 56	1 5	9 7	2 18	21 28	0 36	1 34	1 57	30 55	11 13	10 40	10 41	12 52		n.a.
T 16	21 44	4 44	3 44		17 19	3 25	23 59	0 32	22 10	1 5	5 59	1 5	9 4	2 18	21 27	0 36	1 34	1 57	30 55	11 13	10 37	10 39	12 54		n.a.
W17	21 33	0 12	2 50		17 21	3 34	23 56	0 35	22 0	1 5	6 1	1 5	9 2	2 18	21 27	0 36	1 34	1 57	30 54	11 13	10 35	10 38	12 55		n.a.
T 18	21 22	4s23	1 44		17 27	3 42	23 53	0 37	21 51	1 5	6 4	1 4	8 59	2 17	21 26	0 36	1 33	1 57	30 54	11 13	10 34	10 37	12 57		n.a.
F 19	21 11	8 46	0 33		17 35	3 46	23 48	0 39	21 41	1 5	6 7	1 4	8 57	2 17	21 25	0 36	1 33	1 57	30 54	11 13	10 34	10 36	12 58		n.a.
S 20	20 59	12 41	0n42		17 44	3 49	23 43	0 41	21 31	1 5	6 10	1 4	8 55	2 17	21 25	0 36	1 33	1 57	30 53	11 13	10 34	10 35	12 59		n.a.
S 21	20 47	15 54	1 54		17 55	3 49	23 37	0 43	21 21	1 5	6 13	1 4	8 52	2 17	21 24	0 36	1 33	1 57	30 53	11 13	10 33	10 34	13 1		n.a.
M22	20 35	18 8	2 59		18 8	3 47	23 31	0 45	21 10	1 5	6 16	1 3	8 49	2 17	21 23	0 36	1 33	1 57	30 52	11 13	10 32	10 32	13 2		n.a.
T 23	20 22	19 15	3 53		18 21	3 43	23 23	0 47	21 0	1 5	6 19	1 3	8 47	2 17	21 22	0 36	1 33	1 57	30 52	11 13	10 30	10 31	13 4		n.a.
W24	20 9	19 10	4 33		18 35	3 38	23 15	0 49	20 49	1 5	6 22	1 3	8 44	2 17	21 22	0 36	1 32	1 57	30 52	11 13	10 27	10 30	13 5		n.a.
T 25	19 55	17 53	4 55		18 49	3 30	23 7	0 51	20 38	1 5	6 25	1 3	8 42	2 16	21 21	0 36	1 32	1 58	30 51	11 13	10 23	10 29	13 6		n.a.
F 26	19 41	15 35	5 0		19 4	3 21	22 57	0 53	20 26	1 5	6 28	1 2	8 39	2 16	21 20	0 36	1 32	1 58	30 51	11 14	10 18	10 28	13 8		n.a.
S 27	19 27	12 28	4 48		19 19	3 11	22 47	0 55	20 15	1 5	6 31	1 2	8 36	2 16	21 20	0 36	1 32	1 58	30 51	11 14	10 14	10 27	13 9		n.a.
S 28	19 13	8 47	4 20		19 33	3 1	22 36	0 57	20 3	1 5	6 35	1 2	8 34	2 16	21 19	0 36	1 31	1 58	30 50	11 14	10 9	10 25	13 10		n.a.
M29	18 58	4 47	3 39		19 47	2 49	22 25	0 59	19 51	1 5	6 38	1 1	8 31	2 16	21 18	0 36	1 31	1 58	30 50	11 14	10 6	10 24	13 12		n.a.
T 30	18 42	0 40	2 49		20 1	2 37	22 13	1 0	19 38	1 5	6 41	1 1	8 28	2 16	21 17	0 36	1 31	1 58	30 50	11 14	10 3	10 23	13 13		n.a.
W31	18s27	3n23	1n51		20s15	2n24	22s 0	1s 2	19s26	1s 5	6n45	1s 1	8s26	2s16	21s17	0s36	1s31	1n58	30s49	11s14	10s 1	10s22	13n15		n.a.

Julian Day Number = 1654582.5, Delta T = 03h29m07s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°35'41, Lahiri = - 6°28'40 Julian Calendar 1 Jan. 183 BCE == Greg. Calendar 29 Dec. 184 BCE

The year -182 astronomical counting style corresponds to year 183 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 183 BCE
geocentric

FEBRUARY 183 BCE (-182) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 29 17	9♒ 6'38	16♈15	16°D57	28♉18	9♒ 7	19♈34	14♓10	28♉36	8°R15	2♒10	25°R37	26♎31	7♉35	n.a.	T 1
F 2	8 33 13	10° 6'43	28° 7	17♉ 2	29°33	9°55	19°43	14°17	28°40	8♎14	2°12	25°D36	26°28	7°42	n.a.	F 2
S 3	8 37 10	11° 6'46	9♉55	17°14	0♒48	10°42	19°52	14°23	28°43	8°14	2°14	25°R37	26°25	7°48	n.a.	S 3
S 4	8 41 7	12° 6'47	21°44	17°32	2° 2	11°29	20° 1	14°30	28°46	8°13	2°15	25♎36	26°22	7°55	n.a.	S 4
M 5	8 45 3	13° 6'45	3♊40	17°55	3°17	12°16	20°10	14°37	28°50	8°12	2°17	25°34	26°19	8° 1	n.a.	M 5
T 6	8 49 0	14° 6'41	15°47	18°22	4°32	13° 3	20°19	14°44	28°53	8°11	2°19	25°30	26°16	8° 8	n.a.	T 6
W 7	8 52 56	15° 6'35	28°10	18°55	5°46	13°49	20°28	14°51	28°57	8°11	2°20	25°23	26°12	8°15	n.a.	W 7
T 8	8 56 53	16° 6'27	10♋52	19°32	7° 1	14°36	20°38	14°58	29° 0	8°10	2°22	25°14	26° 9	8°21	n.a.	T 8
F 9	9 0 49	17° 6'16	23°55	20°12	8°16	15°23	20°47	15° 5	29° 3	8° 9	2°23	25° 3	26° 6	8°28	n.a.	F 9
S 10	9 4 46	18° 6'03	7♌19	20°57	9°30	16°10	20°57	15°12	29° 7	8° 8	2°25	24°51	26° 3	8°35	n.a.	S 10
S 11	9 8 42	19° 5'48	21° 1	21°45	10°45	16°57	21° 6	15°19	29°10	8° 7	2°27	24°40	26° 0	8°41	n.a.	S 11
M12	9 12 39	20° 5'31	4♍58	22°37	11°59	17°44	21°16	15°27	29°13	8° 6	2°28	24°31	25°57	8°48	n.a.	M12
T 13	9 16 36	21° 5'12	19° 6	23°31	13°14	18°31	21°26	15°34	29°16	8° 5	2°30	24°24	25°53	8°55	n.a.	T 13
W14	9 20 32	22° 4'51	3♎20	24°29	14°29	19°17	21°36	15°41	29°20	8° 4	2°32	24°20	25°50	9° 1	n.a.	W14
T 15	9 24 29	23° 4'28	17°36	25°29	15°43	20° 4	21°47	15°48	29°23	8° 3	2°33	24°18	25°47	9° 8	n.a.	T 15
F 16	9 28 25	24° 4'03	1♏50	26°32	16°58	20°51	21°57	15°56	29°26	8° 2	2°35	24°D18	25°44	9°15	n.a.	F 16
S 17	9 32 22	25° 3'36	16° 1	27°38	18°12	21°37	22° 7	16° 3	29°29	8° 1	2°36	24°19	25°41	9°21	n.a.	S 17
S 18	9 36 18	26° 3'08	0♐ 7	28°45	19°27	22°24	22°18	16°10	29°33	8° 0	2°38	24°R19	25°37	9°28	n.a.	S 18
M19	9 40 15	27° 2'37	14° 7	29°55	20°41	23°11	22°29	16°18	29°36	7°59	2°40	24°17	25°34	9°35	n.a.	M19
T 20	9 44 11	28° 2'05	28° 0	1♒ 7	21°56	23°57	22°39	16°25	29°39	7°58	2°41	24°14	25°31	9°41	n.a.	T 20
W21	9 48 8	29° 1'32	11♉46	2°21	23°10	24°44	22°50	16°33	29°42	7°57	2°43	24° 8	25°28	9°48	n.a.	W21
T 22	9 52 4	0♓ 0'56	25°21	3°37	24°25	25°30	23° 1	16°40	29°45	7°55	2°44	24° 0	25°25	9°55	n.a.	T 22
F 23	9 56 1	1° 0'18	8♒45	4°55	25°39	26°17	23°12	16°47	29°48	7°54	2°46	23°51	25°22	10° 1	n.a.	F 23
S 24	9 59 58	1°59'38	21°56	6°15	26°54	27° 3	23°23	16°55	29°51	7°53	2°47	23°41	25°18	10° 8	n.a.	S 24
S 25	10 3 54	2°58'56	4♓52	7°36	28° 8	27°49	23°34	17° 2	29°54	7°52	2°49	23°33	25°15	10°14	n.a.	S 25
M26	10 7 51	3°58'12	17°32	8°59	29°22	28°36	23°46	17°10	29°58	7°50	2°50	23°26	25°12	10°21	n.a.	M26
T 27	10 11 47	4°57'25	29°57	10°24	0♓37	29°22	23°57	17°18	0♒ 1	7°49	2°52	23°21	25° 9	10°28	n.a.	T 27
W28	10 15 44	5♓56'36	12♈ 8	11♒50	1♓51	0♓ 8	24♈ 9	17♓25	0♒ 3	7♎48	2♒53	23♎18	25♎ 6	10♉34	n.a.	W28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s11	7n13	0n50	20s27	2n11	21s46	1s 4	19s13	1s 5	6n48	1s 1	8s23	2s16	21s16	0s36	1s30	1n58	30s49	11s14	10s 1	10s21	13n16		n.a.
F 2	17 55	10 43	0s13	20 39	1 58	21 32	1 5	19 1	1 5	6 52	1 0	8 20	2 16	21 15	0 36	1 30	1 58	30 49	11 14	10 1	10 20	13 17		n.a.
S 3	17 38	13 46	1 15	20 51	1 45	21 18	1 7	18 48	1 5	6 56	1 0	8 17	2 15	21 15	0 36	1 30	1 58	30 48	11 14	10 1	10 18	13 19		n.a.
S 4	17 22	16 15	2 14	21 1	1 32	21 2	1 8	18 34	1 5	6 59	1 0	8 15	2 15	21 14	0 36	1 29	1 58	30 48	11 14	10 1	10 17	13 20		n.a.
M 5	17 4	18 3	3 8	21 11	1 20	20 46	1 9	18 21	1 5	7 3	1 0	8 12	2 15	21 13	0 36	1 29	1 58	30 48	11 14	10 0	10 16	13 21		n.a.
T 6	16 47	19 4	3 54	21 20	1 7	20 30	1 11	18 7	1 4	7 7	0 59	8 9	2 15	21 13	0 36	1 29	1 58	30 47	11 14	9 58	10 15	13 23		n.a.
W 7	16 29	19 12	4 30	21 28	0 55	20 13	1 12	17 54	1 4	7 10	0 59	8 6	2 15	21 12	0 36	1 28	1 58	30 47	11 14	9 56	10 14	13 24		n.a.
T 8	16 11	18 23	4 53	21 35	0 42	19 55	1 13	17 40	1 4	7 14	0 59	8 3	2 15	21 11	0 36	1 28	1 58	30 47	11 15	9 52	10 13	13 25		n.a.
F 9	15 53	16 36	5 3	21 40	0 31	19 36	1 15	17 26	1 4	7 18	0 59	8 1	2 15	21 11	0 36	1 27	1 58	30 46	11 15	9 48	10 12	13 27		n.a.
S 10	15 35	13 53	4 56	21 45	0 19	19 18	1 16	17 11	1 4	7 22	0 58	7 58	2 15	21 10	0 36	1 27	1 58	30 46	11 15	9 44	10 10	13 28		n.a.
S 11	15 16	10 22	4 32	21 48	0 8	18 58	1 17	16 57	1 4	7 26	0 58	7 55	2 15	21 9	0 36	1 27	1 59	30 46	11 15	9 40	10 9	13 29		n.a.
M12	14 57	6 13	3 51	21 51	0s 3	18 38	1 18	16 42	1 4	7 30	0 58	7 52	2 15	21 9	0 36	1 26	1 59	30 45	11 15	9 36	10 8	13 31		n.a.
T 13	14 38	1 40	2 56	21 52	0 13	18 18	1 19	16 28	1 4	7 34	0 58	7 49	2 15	21 8	0 36	1 26	1 59	30 45	11 15	9 34	10 7	13 32		n.a.
W14	14 19	3s 1	1 50	21 51	0 23	17 57	1 20	16 13	1 3	7 38	0 58	7 46	2 15	21 7	0 36	1 25	1 59	30 45	11 15	9 32	10 6	13 33		n.a.
T 15	13 59	7 32	0 36	21 50	0 33	17 35	1 20	15 58	1 3	7 42	0 57	7 43	2 14	21 6	0 36	1 25	1 59	30 45	11 15	9 32	10 5	13 35		n.a.
F 16	13 39	11 37	0n40	21 47	0 42	17 13	1 21	15 42	1 3	7 46	0 57	7 40	2 14	21 6	0 36	1 24	1 59	30 44	11 16	9 32	10 3	13 36		n.a.
S 17	13 19	15 1	1 54	21 43	0 51	16 51	1 22	15 27	1 3	7 50	0 57	7 37	2 14	21 5	0 36	1 24	1 59	30 44	11 16	9 32	10 2	13 37		n.a.
S 18	12 59	17 29	3 0	21 37	1 0	16 28	1 23	15 11	1 3	7 54	0 57	7 34	2 14	21 4	0 36	1 23	1 59	30 44	11 16	9 32	10 1	13 39		n.a.
M19	12 38	18 53	3 54	21 30	1 8	16 4	1 23	14 56	1 2	7 58	0 56	7 31	2 14	21 4	0 36	1 23	1 59	30 44	11 16	9 31	10 0	13 40		n.a.
T 20	12 18	19 7	4 35	21 22	1 16	15 41	1 24	14 40	1 2	8 3	0 56	7 29	2 14	21 3	0 37	1 23	1 59	30 43	11 16	9 30	9 59	13 41		n.a.
W21	11 57	18 14	4 59	21 12	1 23	15 16	1 24	14 24	1 2	8 7	0 56	7 26	2 14	21 3	0 37	1 22	1 59	30 43	11 16	9 28	9 57	13 42		n.a.
T 22	11 36	16 18	5 6	21 1	1 30	14 52	1 24	14 8	1 2	8 11	0 56	7 23	2 14	21 2	0 37	1 21	1 59	30 43	11 17	9 25	9 56	13 44		n.a.
F 23	11 15	13 31	4 56	20 49	1 36	14 27	1 25	13 52	1 2	8 15	0 56	7 20	2 14	21 1	0 37	1 21	1 59	30 43	11 17	9 21	9 55	13 45		n.a.
S 24	10 53	10 6	4 30	20 34	1 42	14 1	1 25	13 36	1 1	8 20	0 55	7 17	2 14	21 1	0 37	1 20	1 59	30 43	11 17	9 18	9 54	13 46		n.a.
S 25	10 32	6 16	3 51	20 19	1 48	13 35	1 25	13 19	1 1	8 24	0 55	7 14	2 14	21 0	0 37	1 20	1 59	30 42	11 17	9 15	9 53	13 48		n.a.
M26	10 10	2 13	3 1	20 2	1 53	13 9	1 25	13 3	1 1	8 29	0 55	7 11	2 14	20 59	0 37	1 19	1 59	30 42	11 17	9 12	9 52	13 49		n.a.
T 27	9 48	1n51	2 3	19 43	1 58	12 43	1 25	12 46	1 1	8 33	0 55	7 8	2 14	20 59	0 37	1 19	1 59	30 42	11 17	9 10	9 50	13 50		n.a.
W28	9s26	5n46	1n 0	19s23	2s 2	12s16	1s25	12s29	1s 0	8n37	0s55	7s 5	2s14	20s58	0s37	1s18	1n59	30s42	11s18	9s 9	9s49	13n52		n.a.

Julian Day Number = 1654613.5, Delta T = 03h29m06s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°35'36, Lahiri = - 6°28'36 Julian Calendar 1 Feb. 183 BCE == Greg. Calendar 29 Jan. 183 BCE

The year -182 astronomical counting style corresponds to year 183 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 183 BCE
geocentric

MARCH 183 BCE (-182) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 19 40	6♓55'45	24♈ 8	13♒18	3♓ 6	0♓54	24♈20	17♓33	0♒ 6	7°R47	2♒55	23°D17	25♎ 2	10♉41	n.a.	T 1
F 2	10 23 37	7°54'52	6♉ 0	14°47	4°20	1°41	24°32	17°40	0° 9	7♎45	2°56	23♎18	24°59	10°48	n.a.	F 2
S 3	10 27 33	8°53'56	17°48	16°18	5°34	2°27	24°43	17°48	0°12	7°44	2°58	23°19	24°56	10°54	n.a.	S 3
S 4	10 31 30	9°52'58	29°37	17°50	6°49	3°13	24°55	17°56	0°15	7°42	2°59	23°21	24°53	11° 1	n.a.	S 4
M 5	10 35 27	10°51'58	11♊32	19°24	8° 3	3°59	25° 7	18° 3	0°18	7°41	3° 0	23°R21	24°50	11° 8	n.a.	M 5
T 6	10 39 23	11°50'55	23°39	21° 0	9°17	4°45	25°19	18°11	0°21	7°40	3° 2	23°20	24°47	11°14	n.a.	T 6
W 7	10 43 20	12°49'50	6♋ 3	22°37	10°32	5°31	25°31	18°18	0°24	7°38	3° 3	23°18	24°43	11°21	n.a.	W 7
T 8	10 47 16	13°48'42	18°46	24°15	11°46	6°17	25°43	18°26	0°26	7°37	3° 5	23°14	24°40	11°28	n.a.	T 8
F 9	10 51 13	14°47'32	1♌54	25°55	13° 0	7° 3	25°55	18°34	0°29	7°35	3° 6	23° 8	24°37	11°34	n.a.	F 9
S 10	10 55 9	15°46'20	15°25	27°36	14°14	7°49	26° 7	18°41	0°32	7°34	3° 7	23° 2	24°34	11°41	n.a.	S 10
S 11	10 59 6	16°45'06	29°20	29°19	15°29	8°34	26°20	18°49	0°34	7°32	3° 8	22°57	24°31	11°48	n.a.	S 11
M12	11 3 2	17°43'49	13♍36	1♓ 4	16°43	9°20	26°32	18°57	0°37	7°31	3°10	22°52	24°28	11°54	n.a.	M12
T 13	11 6 59	18°42'30	28° 7	2°50	17°57	10° 6	26°45	19° 4	0°40	7°29	3°11	22°48	24°24	12° 1	n.a.	T 13
W14	11 10 55	19°41'09	12♎47	4°37	19°11	10°52	26°57	19°12	0°42	7°28	3°12	22°46	24°21	12° 8	n.a.	W14
T 15	11 14 52	20°39'47	27°29	6°26	20°25	11°37	27°10	19°20	0°45	7°26	3°14	22°D46	24°18	12°14	n.a.	T 15
F 16	11 18 49	21°38'22	12♏ 7	8°17	21°40	12°23	27°22	19°27	0°47	7°25	3°15	22°47	24°15	12°21	n.a.	F 16
S 17	11 22 45	22°36'56	26°36	10° 9	22°54	13° 8	27°35	19°35	0°50	7°23	3°16	22°48	24°12	12°27	n.a.	S 17
S 18	11 26 42	23°35'28	10♐52	12° 3	24° 8	13°54	27°47	19°43	0°52	7°22	3°17	22°49	24° 8	12°34	n.a.	S 18
M19	11 30 38	24°33'58	24°54	13°58	25°22	14°39	28° 0	19°50	0°54	7°20	3°18	22°R50	24° 5	12°41	n.a.	M19
T 20	11 34 35	25°32'27	8♑41	15°55	26°36	15°25	28°13	19°58	0°57	7°18	3°19	22°49	24° 2	12°47	n.a.	T 20
W21	11 38 31	26°30'54	22°12	17°53	27°50	16°10	28°26	20° 6	0°59	7°17	3°21	22°47	23°59	12°54	n.a.	W21
T 22	11 42 28	27°29'19	5♒28	19°53	29° 4	16°55	28°39	20°13	1° 1	7°15	3°22	22°45	23°56	13° 1	n.a.	T 22
F 23	11 46 24	28°27'43	18°30	21°54	0♈18	17°41	28°52	20°21	1° 4	7°14	3°23	22°41	23°53	13° 7	n.a.	F 23
S 24	11 50 21	29°26'04	1♓18	23°56	1°32	18°26	29° 5	20°29	1° 6	7°12	3°24	22°37	23°49	13°14	n.a.	S 24
S 25	11 54 18	0♈24'24	13°53	26° 0	2°46	19°11	29°18	20°36	1° 8	7°10	3°25	22°34	23°46	13°21	n.a.	S 25
M26	11 58 14	1°22'42	26°15	28° 6	4° 0	19°56	29°31	20°44	1°10	7° 9	3°26	22°31	23°43	13°27	n.a.	M26
T 27	12 2 11	2°20'59	8♈27	0♈12	5°14	20°41	29°44	20°51	1°12	7° 7	3°27	22°29	23°40	13°34	n.a.	T 27
W28	12 6 7	3°19'13	20°29	2°19	6°28	21°26	29°58	20°59	1°14	7° 5	3°28	22°D29	23°37	13°41	n.a.	W28
T 29	12 10 4	4°17'25	2♉23	4°27	7°42	22°11	0♉11	21° 7	1°16	7° 4	3°29	22°29	23°33	13°47	n.a.	T 29
F 30	12 14 0	5°15'36	14°13	6°36	8°56	22°56	0°24	21°14	1°18	7° 2	3°30	22°30	23°30	13°54	n.a.	F 30
S 31	12 17 57	6♈13'44	26♉ 0	8♈45	10♈10	23♓41	0♉37	21♓22	1♒20	7♎ 1	3♒31	22♎31	23♎27	14♉ 1	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	9s 4	9n24	0s 5	19s 1	2s 6	11s49	1s25	12s13	1s 0	8n42	0s54	7s 2	2s14	20s57	0s37	1s18	1n59	30s42	11s18	9s 9	9s48	13n53			n.a.
F 2	8 42	12 36	1 8	18 38	2 9	11 21	1 25	11 56	1 0	8 46	0 54	6 59	2 14	20 57	0 37	1 17	1 59	30 41	11 18	9 9	9 47	13 54			n.a.
S 3	8 20	15 16	2 9	18 13	2 12	10 53	1 25	11 39	1 0	8 51	0 54	6 55	2 14	20 56	0 37	1 17	1 59	30 41	11 18	9 10	9 46	13 55			n.a.
S 4	7 57	17 18	3 4	17 47	2 14	10 25	1 25	11 22	0 59	8 55	0 54	6 52	2 14	20 56	0 37	1 16	2 0	30 41	11 18	9 10	9 45	13 57			n.a.
M 5	7 35	18 36	3 52	17 19	2 16	9 57	1 25	11 4	0 59	9 0	0 54	6 49	2 14	20 55	0 37	1 15	2 0	30 41	11 19	9 10	9 43	13 58			n.a.
T 6	7 12	19 4	4 30	16 50	2 17	9 29	1 24	10 47	0 59	9 4	0 53	6 46	2 14	20 54	0 37	1 15	2 0	30 41	11 19	9 10	9 42	13 59			n.a.
W 7	6 49	18 38	4 57	16 19	2 18	9 0	1 24	10 30	0 58	9 9	0 53	6 43	2 14	20 54	0 37	1 14	2 0	30 41	11 19	9 9	9 41	14 0			n.a.
T 8	6 26	17 16	5 10	15 46	2 19	8 31	1 23	10 12	0 58	9 14	0 53	6 40	2 14	20 53	0 37	1 14	2 0	30 41	11 19	9 8	9 40	14 2			n.a.
F 9	6 3	14 58	5 7	15 12	2 19	8 1	1 23	9 55	0 58	9 18	0 53	6 37	2 14	20 53	0 37	1 13	2 0	30 41	11 20	9 6	9 39	14 3			n.a.
S 10	5 40	11 49	4 48	14 36	2 18	7 32	1 22	9 37	0 57	9 23	0 53	6 34	2 14	20 52	0 37	1 12	2 0	30 40	11 20	9 3	9 38	14 4			n.a.
S 11	5 17	7 55	4 11	13 59	2 17	7 2	1 21	9 20	0 57	9 28	0 53	6 31	2 14	20 52	0 37	1 12	2 0	30 40	11 20	9 1	9 36	14 5			n.a.
M12	4 54	3 29	3 18	13 20	2 16	6 32	1 21	9 2	0 57	9 32	0 52	6 28	2 14	20 51	0 37	1 11	2 0	30 40	11 20	8 59	9 35	14 7			n.a.
T 13	4 31	1s14	2 11	12 39	2 14	6 2	1 20	8 44	0 56	9 37	0 52	6 25	2 14	20 51	0 37	1 10	2 0	30 40	11 21	8 58	9 34	14 8			n.a.
W14	4 8	5 56	0 54	11 57	2 11	5 32	1 19	8 26	0 56	9 42	0 52	6 22	2 14	20 50	0 37	1 10	2 0	30 40	11 21	8 57	9 33	14 9			n.a.
T 15	3 44	10 18	0n26	11 14	2 8	5 2	1 18	8 9	0 56	9 46	0 52	6 19	2 14	20 49	0 37	1 9	2 0	30 40	11 21	8 57	9 32	14 10			n.a.
F 16	3 21	14 0	1 44	10 29	2 4	4 32	1 17	7 51	0 55	9 51	0 52	6 16	2 14	20 49	0 37	1 9	2 0	30 40	11 21	8 58	9 30	14 12			n.a.
S 17	2 58	16 47	2 55	9 42	2 0	4 1	1 16	7 33	0 55	9 56	0 52	6 13	2 14	20 48	0 37	1 8	2 0	30 40	11 22	8 58	9 29	14 13			n.a.
S 18	2 34	18 28	3 54	8 54	1 55	3 30	1 15	7 15	0 55	10 1	0 51	6 10	2 14	20 48	0 37	1 7	2 0	30 40	11 22	8 59	9 28	14 14			n.a.
M19	2 11	18 59	4 38	8 4	1 50	2 59	1 14	6 57	0 54	10 5	0 51	6 7	2 14	20 47	0 37	1 7	2 0	30 40	11 22	8 59	9 27	14 15			n.a.
T 20	1 48	18 22	5 5	7 13	1 44	2 29	1 13	6 38	0 54	10 10	0 51	6 4	2 14	20 47	0 37	1 6	2 0	30 40	11 22	8 58	9 26	14 17			n.a.
W21	1 24	16 42	5 14	6 21	1 38	1 58	1 12	6 20	0 54	10 15	0 51	6 1	2 14	20 46	0 37	1 5	2 0	30 40	11 23	8 58	9 25	14 18			n.a.
T 22	1 1	14 10	5 6	5 27	1 31	1 27	1 10	6 2	0 53	10 20	0 51	5 58	2 14	20 46	0 37	1 5	2 0	30 40	11 23	8 57	9 23	14 19			n.a.
F 23	0 37	10 58	4 43	4 32	1 24	0 56	1 9	5 44	0 53	10 24	0 51	5 55	2 14	20 46	0 37	1 4	2 0	30 40	11 23	8 55	9 22	14 20			n.a.
S 24	0 14	7 19	4 6	3 36	1 16	0 25	1 7	5 26	0 52	10 29	0 50	5 52	2 14	20 45	0 37	1 3	2 0	30 40	11 23	8 54	9 21	14 21			n.a.
S 25	0n10	3 23	3 17	2 38	1 8	0n 6	1 6	5 7	0 52	10 34	0 50	5 49	2 14	20 45	0 37	1 3	2 0	30 40	11 24	8 53	9 20	14 23			n.a.
M26	0 33	0n38	2 20	1 40	0 59	0 38	1 4	4 49	0 52	10 39	0 50	5 46	2 14	20 44	0 37	1 2	2 0	30 40	11 24	8 52	9 19	14 24			n.a.
T 27	0 57	4 34	1 17	0 41	0 50	1 9	1 3	4 31	0 51	10 44	0 50	5 43	2 14	20 44	0 37	1 1	2 0	30 40	11 24	8 51	9 17	14 25			n.a.
W28	1 20	8 16	0 11	0n19	0 40	1 40	1 1	4 13	0 51	10 49	0 50	5 40	2 14	20 43	0 37	1 1	2 0	30 40	11 25	8 51	9 16	14 26			n.a.
T 29	1 43	11 35	0s55	1 19	0 30	2 11	1 0	3 54	0 50	10 53	0 50	5 37	2 15	20 43	0 37	1 0	2 0	30 40	11 25	8 51	9 15	14 28			n.a.
F 30	2 7	14 25	1 57	2 20	0 20	2 42	0 58	3 36	0 50	10 58	0 50	5 34	2 15	20 42	0 37	0 59	2 0	30 40	11 25	8 51	9 14	14 29			n.a.
S 31	2n30	16n38	2s55	3n21	0s10	3n13	0s56	3s18	0s50	11n 3	0s50	5s31	2s15	20s42	0s38	0s59	2n 0	30s40	11s25	8s52	9s13	14n30			n.a.

Julian Day Number = 1654641.5, Delta T = 03h29m05s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°35'33, Lahiri = - 6°28'32 Julian Calendar 1 March 183 BCE == Greg. Calendar 26 Feb. 183 BCE

The year -182 astronomical counting style corresponds to year 183 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 183 BCE
geocentric

APRIL 183 BCE (-182) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 21 53	7♈11'51	7♊50	10♈54	11♈24	24♓26	0♉51	21♓29	1♒22	6°R59	3♒32	22♎33	23♎24	14♉ 7	n.a.	S 1
M 2	12 25 50	8° 9'55	19°46	13° 3	12°38	25°11	1° 4	21°37	1°24	6♎57	3°33	22°34	23°21	14°14	n.a.	M 2
T 3	12 29 46	9° 7'58	1♋52	15°12	13°52	25°55	1°18	21°44	1°26	6°56	3°33	22°35	23°18	14°21	n.a.	T 3
W 4	12 33 43	10° 5'58	14°13	17°20	15° 6	26°40	1°31	21°52	1°27	6°54	3°34	22°R35	23°14	14°27	n.a.	W 4
T 5	12 37 40	11° 3'57	26°54	19°27	16°20	27°24	1°45	21°59	1°29	6°52	3°35	22°34	23°11	14°34	n.a.	T 5
F 6	12 41 36	12° 1'54	9♌58	21°32	17°34	28° 9	1°58	22° 6	1°31	6°51	3°36	22°33	23° 8	14°41	n.a.	F 6
S 7	12 45 33	12°59'48	23°28	23°36	18°48	28°54	2°12	22°14	1°32	6°49	3°37	22°32	23° 5	14°47	n.a.	S 7
S 8	12 49 29	13°57'41	7♍25	25°39	20° 1	29°38	2°25	22°21	1°34	6°48	3°37	22°31	23° 2	14°54	n.a.	S 8
M 9	12 53 26	14°55'32	21°46	27°39	21°15	0♈22	2°39	22°28	1°35	6°46	3°38	22°30	22°59	15° 1	n.a.	M 9
T 10	12 57 22	15°53'21	6♎28	29°36	22°29	1° 7	2°53	22°36	1°37	6°44	3°39	22°30	22°55	15° 7	n.a.	T 10
W11	13 1 19	16°51'08	21°25	1♉32	23°43	1°51	3° 6	22°43	1°38	6°43	3°40	22°D30	22°52	15°14	n.a.	W11
T 12	13 5 15	17°48'54	6♏28	3°24	24°57	2°35	3°20	22°50	1°40	6°41	3°40	22°30	22°49	15°20	n.a.	T 12
F 13	13 9 12	18°46'39	21°29	5°14	26°10	3°19	3°34	22°57	1°41	6°39	3°41	22°30	22°46	15°27	n.a.	F 13
S 14	13 13 9	19°44'22	6♐19	7° 0	27°24	4° 3	3°47	23° 5	1°42	6°38	3°41	22°30	22°43	15°34	n.a.	S 14
S 15	13 17 5	20°42'04	20°54	8°44	28°38	4°48	4° 1	23°12	1°44	6°36	3°42	22°30	22°39	15°40	n.a.	S 15
M16	13 21 2	21°39'45	5♑ 7	10°24	29°52	5°32	4°15	23°19	1°45	6°35	3°43	22°30	22°36	15°47	n.a.	M16
T 17	13 24 58	22°37'25	18°58	12° 1	1♉ 5	6°16	4°29	23°26	1°46	6°33	3°43	22°31	22°33	15°54	n.a.	T 17
W18	13 28 55	23°35'04	2♒26	13°35	2°19	6°59	4°43	23°33	1°47	6°32	3°44	22°31	22°30	16° 0	n.a.	W18
T 19	13 32 51	24°32'42	15°33	15° 5	3°33	7°43	4°56	23°40	1°48	6°30	3°44	22°31	22°27	16° 7	n.a.	T 19
F 20	13 36 48	25°30'18	28°21	16°32	4°46	8°27	5°10	23°47	1°49	6°29	3°45	22°31	22°24	16°14	n.a.	F 20
S 21	13 40 44	26°27'53	10♓54	17°55	6° 0	9°11	5°24	23°54	1°50	6°27	3°45	22°31	22°20	16°20	n.a.	S 21
S 22	13 44 41	27°25'27	23°12	19°15	7°14	9°55	5°38	24° 1	1°51	6°26	3°45	22°32	22°17	16°27	n.a.	S 22
M23	13 48 38	28°23'01	5♈20	20°31	8°27	10°38	5°52	24° 7	1°52	6°24	3°46	22°32	22°14	16°34	n.a.	M23
T 24	13 52 34	29°20'32	17°19	21°44	9°41	11°22	6° 6	24°14	1°53	6°23	3°46	22°R32	22°11	16°40	n.a.	T 24
W25	13 56 31	0♉18'03	29°13	22°53	10°55	12° 5	6°20	24°21	1°54	6°21	3°47	22°32	22° 8	16°47	n.a.	W25
T 26	14 0 27	1°15'33	11♉ 2	23°58	12° 8	12°49	6°34	24°28	1°55	6°20	3°47	22°32	22° 5	16°54	n.a.	T 26
F 27	14 4 24	2°13'01	22°50	24°59	13°22	13°32	6°48	24°34	1°55	6°18	3°47	22°31	22° 1	17° 0	n.a.	F 27
S 28	14 8 20	3°10'29	4♊39	25°57	14°35	14°16	7° 1	24°41	1°56	6°17	3°47	22°30	21°58	17° 7	n.a.	S 28
S 29	14 12 17	4° 7'55	16°31	26°50	15°49	14°59	7°15	24°47	1°56	6°15	3°48	22°28	21°55	17°14	n.a.	S 29
M30	14 16 13	5♉ 5'20	28♊29	27♉39	17♉ 3	15♈42	7♉29	24♓54	1♒57	6♎14	3♒48	22♎26	21♎52	17♉20	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	2n53	18n 9	3s46	4n22	0n 1	3n44	0s54	2s59	0s49	11n 8	0s49	5s28	2s15	20s42	0s38	0s58	2n 0	30s40	11s26	8s52	9s11	14n31		n.a.
M 2	3 16	18 53	4 27	5 23	0 12	4 15	0 53	2 41	0 49	11 13	0 49	5 25	2 15	20 41	0 38	0 57	2 0	30 40	11 26	8 53	9 10	14 32		n.a.
T 3	3 40	18 45	4 57	6 24	0 22	4 45	0 51	2 23	0 48	11 18	0 49	5 23	2 15	20 41	0 38	0 57	2 0	30 40	11 26	8 53	9 9	14 34		n.a.
W 4	4 3	17 45	5 14	7 23	0 33	5 16	0 49	2 4	0 48	11 22	0 49	5 20	2 15	20 41	0 38	0 56	2 0	30 40	11 27	8 53	9 8	14 35		n.a.
T 5	4 26	15 51	5 16	8 22	0 44	5 46	0 47	1 46	0 47	11 27	0 49	5 17	2 15	20 40	0 38	0 55	2 0	30 40	11 27	8 53	9 7	14 36		n.a.
F 6	4 49	13 5	5 3	9 20	0 54	6 17	0 45	1 28	0 47	11 32	0 49	5 14	2 15	20 40	0 38	0 55	2 0	30 40	11 27	8 52	9 6	14 37		n.a.
S 7	5 11	9 34	4 32	10 16	1 4	6 47	0 43	1 9	0 46	11 37	0 49	5 11	2 15	20 40	0 38	0 54	2 0	30 41	11 28	8 52	9 4	14 38		n.a.
S 8	5 34	5 24	3 45	11 10	1 14	7 17	0 41	0 51	0 46	11 42	0 48	5 8	2 15	20 39	0 38	0 54	2 0	30 41	11 28	8 52	9 3	14 39		n.a.
M 9	5 57	0 49	2 43	12 3	1 24	7 47	0 39	0 33	0 45	11 47	0 48	5 5	2 15	20 39	0 38	0 53	2 0	30 41	11 28	8 51	9 2	14 41		n.a.
T 10	6 19	3s56	1 28	12 54	1 33	8 17	0 37	0 14	0 45	11 51	0 48	5 3	2 16	20 39	0 38	0 52	2 0	30 41	11 29	8 51	9 1	14 42		n.a.
W11	6 42	8 32	0 6	13 43	1 41	8 47	0 34	0n 4	0 45	11 56	0 48	5 0	2 16	20 38	0 38	0 52	2 0	30 41	11 29	8 51	9 0	14 43		n.a.
T 12	7 4	12 37	1n17	14 30	1 49	9 16	0 32	0 22	0 44	12 1	0 48	4 57	2 16	20 38	0 38	0 51	2 0	30 41	11 29	8 51	8 58	14 44		n.a.
F 13	7 26	15 51	2 34	15 15	1 57	9 45	0 30	0 40	0 44	12 6	0 48	4 54	2 16	20 38	0 38	0 50	2 0	30 41	11 30	8 51	8 57	14 45		n.a.
S 14	7 48	18 0	3 40	15 57	2 3	10 14	0 28	0 58	0 43	12 11	0 48	4 51	2 16	20 38	0 38	0 50	2 0	30 41	11 30	8 51	8 56	14 46		n.a.
S 15	8 10	18 54	4 31	16 37	2 9	10 43	0 26	1 17	0 43	12 15	0 48	4 49	2 16	20 37	0 38	0 49	2 0	30 42	11 30	8 51	8 55	14 48		n.a.
M16	8 32	18 34	5 3	17 14	2 15	11 11	0 23	1 35	0 42	12 20	0 48	4 46	2 16	20 37	0 38	0 48	2 0	30 42	11 31	8 51	8 54	14 49		n.a.
T 17	8 54	17 7	5 17	17 49	2 19	11 40	0 21	1 53	0 42	12 25	0 47	4 43	2 16	20 37	0 38	0 48	2 0	30 42	11 31	8 51	8 52	14 50		n.a.
W18	9 16	14 46	5 13	18 22	2 23	12 8	0 19	2 11	0 41	12 30	0 47	4 40	2 16	20 37	0 38	0 47	2 0	30 42	11 31	8 51	8 51	14 51		n.a.
T 19	9 37	11 42	4 53	18 52	2 26	12 35	0 16	2 29	0 41	12 35	0 47	4 38	2 17	20 36	0 38	0 47	2 0	30 42	11 31	8 51	8 50	14 52		n.a.
F 20	9 58	8 9	4 18	19 20	2 28	13 3	0 14	2 47	0 40	12 39	0 47	4 35	2 17	20 36	0 38	0 46	2 0	30 43	11 32	8 52	8 49	14 53		n.a.
S 21	10 20	4 18	3 31	19 45	2 29	13 30	0 12	3 4	0 40	12 44	0 47	4 32	2 17	20 36	0 38	0 46	2 0	30 43	11 32	8 52	8 48	14 54		n.a.
S 22	10 41	0 21	2 36	20 8	2 30	13 56	0 9	3 22	0 39	12 49	0 47	4 30	2 17	20 36	0 38	0 45	2 0	30 43	11 32	8 52	8 46	14 56		n.a.
M23	11 1	3n35	1 34	20 29	2 29	14 23	0 7	3 40	0 39	12 54	0 47	4 27	2 17	20 36	0 38	0 44	2 0	30 43	11 33	8 52	8 45	14 57		n.a.
T 24	11 22	7 19	0 29	20 47	2 28	14 49	0 4	3 58	0 38	12 58	0 47	4 25	2 17	20 35	0 38	0 44	2 0	30 43	11 33	8 52	8 44	14 58		n.a.
W25	11 42	10 45	0s37	21 3	2 26	15 14	0 2	4 15	0 37	13 3	0 47	4 22	2 17	20 35	0 38	0 43	2 0	30 44	11 34	8 52	8 43	14 59		n.a.
T 26	12 3	13 43	1 41	21 17	2 23	15 40	0n 1	4 33	0 37	13 8	0 47	4 20	2 18	20 35	0 38	0 43	2 0	30 44	11 34	8 52	8 42	15 0		n.a.
F 27	12 23	16 7	2 40	21 29	2 19	16 5	0 3	4 51	0 36	13 12	0 46	4 17	2 18	20 35	0 38	0 42	2 0	30 44	11 34	8 52	8 40	15 1		n.a.
S 28	12 43	17 49	3 33	21 38	2 14	16 29	0 5	5 8	0 36	13 17	0 46	4 15	2 18	20 35	0 39	0 42	2 0	30 44	11 35	8 51	8 39	15 2		n.a.
S 29	13 3	18 46	4 17	21 46	2 9	16 53	0 8	5 26	0 35	13 22	0 46	4 12	2 18	20 35	0 39	0 41	2 0	30 45	11 35	8 50	8 38	15 3		n.a.
M30	13n22	18n53	4s50	21n51	2n 2	17n17	0n10	5n43	0s35	13n27	0s46	4s10	2s18	20s35	0s39	0s40	2n 0	30s45	11s35	8s50	8s37	15n 5		n.a.

Julian Day Number = 1654672.5, Delta T = 03h29m04s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°35'28, Lahiri = - 6°28'28 Julian Calendar 1 Apr. 183 BCE == Greg. Calendar 29 March 183 BCE

The year -182 astronomical counting style corresponds to year 183 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 183 BCE
geocentric

MAY 183 BCE (-182) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 20 10	6♉ 2'43	10♋37	28♉25	18♉16	16♈25	7♉43	25♓ 0	1♒58	6°R13	3♒48	22°R25	21♎49	17♉27	n.a.	T 1
W 2	14 24 7	7° 0'05	22°58	29° 6	19°30	17° 9	7°57	25° 7	1°58	6♎11	3°48	22♎24	21°45	17°34	n.a.	W 2
T 3	14 28 3	7°57'26	5♌37	29°43	20°43	17°52	8°11	25°13	1°58	6°10	3°48	22°D23	21°42	17°40	n.a.	T 3
F 4	14 32 0	8°54'46	18°36	0♊15	21°57	18°35	8°25	25°19	1°59	6° 9	3°49	22°24	21°39	17°47	n.a.	F 4
S 5	14 35 56	9°52'05	1♍59	0°43	23°10	19°18	8°39	25°26	1°59	6° 7	3°49	22°24	21°36	17°54	n.a.	S 5
S 6	14 39 53	10°49'22	15°48	1° 7	24°24	20° 1	8°53	25°32	1°59	6° 6	3°49	22°26	21°33	18° 0	n.a.	S 6
M 7	14 43 49	11°46'38	0♎ 3	1°26	25°37	20°44	9° 7	25°38	1°59	6° 5	3°49	22°27	21°30	18° 7	n.a.	M 7
T 8	14 47 46	12°43'54	14°42	1°41	26°50	21°26	9°21	25°44	2° 0	6° 4	3°R49	22°28	21°26	18°14	n.a.	T 8
W 9	14 51 42	13°41'08	29°41	1°51	28° 4	22° 9	9°35	25°50	2° 0	6° 2	3°49	22°R28	21°23	18°20	n.a.	W 9
T 10	14 55 39	14°38'21	14♏52	1°56	29°17	22°52	9°49	25°56	2° 0	6° 1	3°49	22°27	21°20	18°27	n.a.	T 10
F 11	14 59 36	15°35'34	0♐ 6	1°R57	0♊31	23°34	10° 2	26° 2	2°R 0	6° 0	3°49	22°24	21°17	18°34	n.a.	F 11
S 12	15 3 32	16°32'47	15°12	1°53	1°44	24°17	10°16	26° 8	2° 0	5°59	3°49	22°22	21°14	18°40	n.a.	S 12
S 13	15 7 29	17°29'58	0♑ 2	1°45	2°58	24°59	10°30	26°14	2° 0	5°58	3°48	22°18	21°10	18°47	n.a.	S 13
M14	15 11 25	18°27'10	14°29	1°33	4°11	25°42	10°44	26°19	2° 0	5°57	3°48	22°15	21° 7	18°54	n.a.	M14
T 15	15 15 22	19°24'21	28°30	1°16	5°24	26°24	10°58	26°25	1°59	5°55	3°48	22°13	21° 4	19° 0	n.a.	T 15
W16	15 19 18	20°21'31	12♒ 3	0°56	6°38	27° 7	11°12	26°31	1°59	5°54	3°48	22°11	21° 1	19° 7	n.a.	W16
T 17	15 23 15	21°18'42	25° 9	0°33	7°51	27°49	11°25	26°36	1°59	5°53	3°48	22°D11	20°58	19°14	n.a.	T 17
F 18	15 27 11	22°15'52	7♓53	0° 7	9° 4	28°31	11°39	26°42	1°59	5°52	3°48	22°12	20°55	19°20	n.a.	F 18
S 19	15 31 8	23°13'02	20°17	29♉37	10°18	29°13	11°53	26°47	1°58	5°51	3°47	22°14	20°51	19°27	n.a.	S 19
S 20	15 35 5	24°10'11	2♈27	29° 6	11°31	29°56	12° 7	26°52	1°58	5°50	3°47	22°15	20°48	19°34	n.a.	S 20
M21	15 39 1	25° 7'21	14°26	28°33	12°44	0♉38	12°21	26°58	1°57	5°49	3°47	22°16	20°45	19°40	n.a.	M21
T 22	15 42 58	26° 4'30	26°17	27°59	13°57	1°20	12°34	27° 3	1°57	5°49	3°46	22°R17	20°42	19°47	n.a.	T 22
W23	15 46 54	27° 1'39	8♉ 6	27°25	15°11	2° 2	12°48	27° 8	1°56	5°48	3°46	22°15	20°39	19°54	n.a.	W23
T 24	15 50 51	27°58'48	19°53	26°50	16°24	2°44	13° 2	27°13	1°56	5°47	3°46	22°12	20°36	20° 0	n.a.	T 24
F 25	15 54 47	28°55'57	1♊42	26°16	17°37	3°25	13°15	27°18	1°55	5°46	3°45	22° 8	20°32	20° 7	n.a.	F 25
S 26	15 58 44	29°53'05	13°35	25°43	18°50	4° 7	13°29	27°23	1°54	5°45	3°45	22° 2	20°29	20°14	n.a.	S 26
S 27	16 2 40	0♊50'13	25°33	25°13	20° 4	4°49	13°42	27°28	1°53	5°44	3°45	21°55	20°26	20°20	n.a.	S 27
M28	16 6 37	1°47'21	7♋39	24°44	21°17	5°31	13°56	27°32	1°53	5°44	3°44	21°48	20°23	20°27	n.a.	M28
T 29	16 10 34	2°44'29	19°53	24°18	22°30	6°12	14°10	27°37	1°52	5°43	3°44	21°41	20°20	20°34	n.a.	T 29
W30	16 14 30	3°41'37	2♌20	23°56	23°43	6°54	14°23	27°42	1°51	5°42	3°43	21°36	20°16	20°40	n.a.	W30
T 31	16 18 27	4♊38'44	15♌ 0	23♉37	24♊56	7♉35	14♉37	27♓46	1♒50	5♎42	3♒43	21♎32	20♎13	20♉47	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	13n41	18n 8	5s10	21n54	1n55	17n40	0n13	6n 0	0s34	13n31	0s46	4s 7	2s18	20s35	0s39	0s40	2n 0	30s45	11s36	8s49	8s36	15n 6			n.a.
W 2	14 0	16 32	5 17	21 55	1 47	18 3	0 15	6 17	0 34	13 36	0 46	4 5	2 19	20 35	0 39	0 39	2 0	30 46	11 36	8 49	8 34	15 7			n.a.
T 3	14 19	14 6	5 8	21 54	1 37	18 25	0 18	6 35	0 33	13 40	0 46	4 2	2 19	20 35	0 39	0 39	2 0	30 46	11 36	8 49	8 33	15 8			n.a.
F 4	14 38	10 55	4 44	21 52	1 27	18 47	0 20	6 52	0 33	13 45	0 46	4 0	2 19	20 35	0 39	0 38	2 0	30 46	11 37	8 49	8 32	15 9			n.a.
S 5	14 56	7 6	4 4	21 47	1 17	19 8	0 22	7 9	0 32	13 50	0 46	3 58	2 19	20 35	0 39	0 38	1 59	30 46	11 37	8 49	8 31	15 10			n.a.
S 6	15 15	2 46	3 9	21 41	1 5	19 29	0 25	7 26	0 31	13 54	0 46	3 55	2 19	20 35	0 39	0 37	1 59	30 47	11 37	8 50	8 30	15 11			n.a.
M 7	15 33	1s52	2 1	21 32	0 52	19 50	0 27	7 42	0 31	13 59	0 46	3 53	2 19	20 34	0 39	0 37	1 59	30 47	11 38	8 50	8 28	15 12			n.a.
T 8	15 50	6 31	0 43	21 22	0 39	20 9	0 30	7 59	0 30	14 3	0 46	3 51	2 20	20 34	0 39	0 37	1 59	30 47	11 38	8 50	8 27	15 13			n.a.
W 9	16 8	10 52	0n40	21 11	0 25	20 29	0 32	8 16	0 30	14 8	0 45	3 48	2 20	20 35	0 39	0 36	1 59	30 48	11 38	8 50	8 26	15 14			n.a.
T 10	16 25	14 34	2 1	20 57	0 11	20 47	0 34	8 32	0 29	14 12	0 45	3 46	2 20	20 35	0 39	0 36	1 59	30 48	11 39	8 50	8 25	15 16			n.a.
F 11	16 42	17 16	3 13	20 43	0s 5	21 6	0 37	8 49	0 29	14 17	0 45	3 44	2 20	20 35	0 39	0 35	1 59	30 48	11 39	8 49	8 24	15 17			n.a.
S 12	16 59	18 43	4 11	20 27	0 20	21 23	0 39	9 5	0 28	14 21	0 45	3 42	2 20	20 35	0 39	0 35	1 59	30 49	11 39	8 48	8 22	15 18			n.a.
S 13	17 15	18 52	4 51	20 9	0 37	21 40	0 41	9 22	0 27	14 26	0 45	3 40	2 21	20 35	0 39	0 34	1 59	30 49	11 40	8 47	8 21	15 19			n.a.
M14	17 31	17 45	5 12	19 50	0 53	21 56	0 44	9 38	0 27	14 30	0 45	3 38	2 21	20 35	0 39	0 34	1 59	30 49	11 40	8 46	8 20	15 20			n.a.
T 15	17 47	15 36	5 13	19 31	1 10	22 12	0 46	9 54	0 26	14 35	0 45	3 36	2 21	20 35	0 39	0 34	1 59	30 50	11 40	8 45	8 19	15 21			n.a.
W16	18 2	12 39	4 56	19 10	1 27	22 27	0 48	10 10	0 26	14 39	0 45	3 33	2 21	20 35	0 39	0 33	1 59	30 50	11 41	8 44	8 18	15 22			n.a.
T 17	18 18	9 8	4 24	18 49	1 44	22 42	0 50	10 26	0 25	14 43	0 45	3 31	2 21	20 35	0 39	0 33	1 59	30 51	11 41	8 44	8 16	15 23			n.a.
F 18	18 33	5 19	3 40	18 27	2 0	22 56	0 53	10 42	0 24	14 48	0 45	3 29	2 22	20 35	0 39	0 32	1 59	30 51	11 41	8 44	8 15	15 24			n.a.
S 19	18 47	1 21	2 47	18 5	2 17	23 9	0 55	10 57	0 24	14 52	0 45	3 28	2 22	20 35	0 39	0 32	1 59	30 51	11 42	8 45	8 14	15 25			n.a.
S 20	19 2	2n37	1 47	17 43	2 32	23 22	0 57	11 13	0 23	14 56	0 45	3 26	2 22	20 35	0 39	0 32	1 59	30 52	11 42	8 46	8 13	15 26			n.a.
M21	19 16	6 25	0 43	17 21	2 47	23 34	0 59	11 28	0 23	15 1	0 45	3 24	2 22	20 35	0 39	0 31	1 59	30 52	11 42	8 46	8 12	15 27			n.a.
T 22	19 30	9 55	0s22	16 59	3 2	23 45	1 1	11 44	0 22	15 5	0 45	3 22	2 23	20 36	0 39	0 31	1 59	30 52	11 43	8 46	8 10	15 28			n.a.
W23	19 43	13 1	1 25	16 38	3 15	23 55	1 3	11 59	0 21	15 9	0 44	3 20	2 23	20 36	0 39	0 31	1 59	30 53	11 43	8 46	8 9	15 29			n.a.
T 24	19 56	15 35	2 25	16 18	3 28	24 5	1 5	12 14	0 21	15 13	0 44	3 18	2 23	20 36	0 39	0 31	1 59	30 53	11 43	8 45	8 8	15 30			n.a.
F 25	20 9	17 30	3 18	16 0	3 39	24 14	1 7	12 29	0 20	15 18	0 44	3 16	2 23	20 36	0 40	0 30	1 59	30 54	11 43	8 43	8 7	15 31			n.a.
S 26	20 22	18 40	4 3	15 42	3 49	24 23	1 9	12 44	0 20	15 22	0 44	3 15	2 23	20 36	0 40	0 30	1 59	30 54	11 44	8 41	8 6	15 33			n.a.
S 27	20 34	19 1	4 38	15 26	3 58	24 31	1 10	12 59	0 19	15 26	0 44	3 13	2 24	20 37	0 40	0 30	1 59	30 54	11 44	8 38	8 4	15 34			n.a.
M28	20 45	18 30	5 0	15 13	4 5	24 38	1 12	13 13	0 18	15 30	0 44	3 11	2 24	20 37	0 40	0 29	1 58	30 55	11 44	8 35	8 3	15 35			n.a.
T 29	20 57	17 7	5 10	15 1	4 11	24 44	1 14	13 28	0 18	15 34	0 44	3 10	2 24	20 37	0 40	0 29	1 58	30 55	11 45	8 33	8 2	15 36			n.a.
W30	21 8	14 56	5 4	14 51	4 15	24 49	1 16	13 42	0 17	15 38	0 44	3 8	2 24	20 37	0 40	0 29	1 58	30 56	11 45	8 31	8 1	15 37			n.a.
T 31	21n19	11n59	4s44	14n43	4s18	24n54	1n17	13n57	0s16	15n42	0s44	3s 6	2s25	20s37	0s40	0s29	1n58	30s56	11s45	8s29	7s59	15n38			n.a.

Julian Day Number = 1654702.5, Delta T = 03h29m03s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°35'24, Lahiri = - 6°28'24 Julian Calendar 1 May 183 BCE == Greg. Calendar 28 Apr. 183 BCE

The year -182 astronomical counting style corresponds to year 183 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 183 BCE
geocentric

JUNE 183 BCE (-182) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 22 23	5♊35'50	27♌58	23°R22	26♊10	8♉17	14♉50	27♓50	1°R49	5°R41	3°R42	21°R31	20♎10	20♉54	n.a.	F 1
S 2	16 26 20	6°32'57	11♍15	23♉12	27°23	8°58	15° 3	27°55	1♒48	5♎40	3♒41	21°D30	20° 7	21° 0	n.a.	S 2
S 3	16 30 16	7°30'03	24°55	23° 6	28°36	9°40	15°17	27°59	1°47	5°40	3°41	21♎31	20° 4	21° 7	n.a.	S 3
M 4	16 34 13	8°27'09	8♎58	23°D 4	29°49	10°21	15°30	28° 3	1°46	5°39	3°40	21°32	20° 1	21°14	n.a.	M 4
T 5	16 38 9	9°24'14	23°25	23° 8	1♋ 2	11° 2	15°43	28° 7	1°45	5°39	3°40	21°R33	19°57	21°20	n.a.	T 5
W 6	16 42 6	10°21'20	8♏13	23°17	2°15	11°43	15°57	28°11	1°44	5°38	3°39	21°32	19°54	21°27	n.a.	W 6
T 7	16 46 3	11°18'26	23°17	23°30	3°28	12°24	16°10	28°15	1°42	5°38	3°38	21°29	19°51	21°34	n.a.	T 7
F 8	16 49 59	12°15'31	8♐28	23°49	4°41	13° 5	16°23	28°19	1°41	5°37	3°38	21°23	19°48	21°40	n.a.	F 8
S 9	16 53 56	13°12'38	23°36	24°13	5°54	13°46	16°36	28°23	1°40	5°37	3°37	21°17	19°45	21°47	n.a.	S 9
S 10	16 57 52	14° 9'44	8♑32	24°42	7° 7	14°27	16°49	28°26	1°38	5°36	3°36	21° 9	19°42	21°54	n.a.	S 10
M11	17 1 49	15° 6'51	23° 7	25°17	8°20	15° 8	17° 2	28°30	1°37	5°36	3°35	21° 1	19°38	22° 0	n.a.	M11
T 12	17 5 45	16° 3'58	7♒15	25°56	9°33	15°49	17°15	28°34	1°36	5°36	3°35	20°54	19°35	22° 7	n.a.	T 12
W13	17 9 42	17° 1'06	20°54	26°40	10°46	16°30	17°28	28°37	1°34	5°36	3°34	20°49	19°32	22°14	n.a.	W13
T 14	17 13 39	17°58'15	4♓ 4	27°30	11°59	17°11	17°41	28°40	1°33	5°35	3°33	20°47	19°29	22°20	n.a.	T 14
F 15	17 17 35	18°55'24	16°49	28°24	13°12	17°51	17°54	28°43	1°31	5°35	3°32	20°D46	19°26	22°27	n.a.	F 15
S 16	17 21 32	19°52'34	29°12	29°23	14°25	18°32	18° 7	28°47	1°30	5°35	3°31	20°46	19°22	22°34	n.a.	S 16
S 17	17 25 28	20°49'44	11♈19	0♊27	15°38	19°12	18°19	28°50	1°28	5°35	3°30	20°47	19°19	22°40	n.a.	S 17
M18	17 29 25	21°46'56	23°15	1°36	16°51	19°53	18°32	28°53	1°26	5°35	3°30	20°R47	19°16	22°47	n.a.	M18
T 19	17 33 21	22°44'08	5♉ 4	2°49	18° 3	20°33	18°45	28°55	1°25	5°35	3°29	20°46	19°13	22°54	n.a.	T 19
W20	17 37 18	23°41'21	16°51	4° 7	19°16	21°14	18°57	28°58	1°23	5°35	3°28	20°43	19°10	23° 0	n.a.	W20
T 21	17 41 14	24°38'35	28°40	5°30	20°29	21°54	19°10	29° 1	1°21	5°D35	3°27	20°37	19° 7	23° 7	n.a.	T 21
F 22	17 45 11	25°35'50	10♊33	6°57	21°42	22°34	19°22	29° 3	1°19	5°35	3°26	20°29	19° 3	23°14	n.a.	F 22
S 23	17 49 8	26°33'05	22°33	8°28	22°55	23°15	19°35	29° 6	1°18	5°35	3°25	20°18	19° 0	23°20	n.a.	S 23
S 24	17 53 4	27°30'22	4♋41	10° 3	24° 8	23°55	19°47	29° 8	1°16	5°35	3°24	20° 6	18°57	23°27	n.a.	S 24
M25	17 57 1	28°27'39	16°59	11°42	25°20	24°35	19°59	29°10	1°14	5°35	3°23	19°54	18°54	23°34	n.a.	M25
T 26	18 0 57	29°24'56	29°26	13°25	26°33	25°15	20°11	29°13	1°12	5°35	3°22	19°43	18°51	23°40	n.a.	T 26
W27	18 4 54	0♌22'15	12♌ 4	15°11	27°46	25°55	20°24	29°15	1°10	5°35	3°21	19°33	18°48	23°47	n.a.	W27
T 28	18 8 50	1°19'34	24°55	17° 1	28°58	26°35	20°36	29°17	1° 8	5°35	3°20	19°26	18°44	23°54	n.a.	T 28
F 29	18 12 47	2°16'53	7♍58	18°54	0♌11	27°15	20°48	29°18	1° 6	5°36	3°19	19°21	18°41	24° 0	n.a.	F 29
S 30	18 16 43	3♌14'14	21♍17	20♊49	1♌24	27♉54	20♉59	29♓20	1♒ 4	5♎36	3♒18	19♎19	18♎38	24♉ 7	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n29	8n25	4s10	14n38	4s20	24n58	1n19	14n11	0s16	15n46	0s44	3s 5	2s25	20s38	0s40	0s29	1n58	30s57	11s46	8s29	7s58	15n39		n.a.
S 2	21 39	4 20	3 21	14 35	4 20	25 2	1 20	14 25	0 15	15 50	0 44	3 3	2 25	20 38	0 40	0 28	1 58	30 57	11 46	8 29	7 57	15 40		n.a.
S 3	21 49	0s 5	2 19	14 35	4 19	25 4	1 22	14 39	0 14	15 54	0 44	3 2	2 25	20 38	0 40	0 28	1 58	30 57	11 46	8 29	7 56	15 41		n.a.
M 4	21 58	4 38	1 8	14 37	4 17	25 6	1 23	14 52	0 14	15 58	0 44	3 0	2 26	20 39	0 40	0 28	1 58	30 58	11 47	8 29	7 55	15 42		n.a.
T 5	22 7	9 3	0n10	14 41	4 13	25 7	1 25	15 6	0 13	16 2	0 44	2 59	2 26	20 39	0 40	0 28	1 58	30 58	11 47	8 30	7 53	15 43		n.a.
W 6	22 15	13 1	1 29	14 48	4 9	25 8	1 26	15 20	0 13	16 6	0 44	2 58	2 26	20 39	0 40	0 28	1 58	30 59	11 47	8 29	7 52	15 44		n.a.
T 7	22 24	16 11	2 43	14 57	4 3	25 7	1 27	15 33	0 12	16 10	0 44	2 56	2 26	20 39	0 40	0 28	1 58	30 59	11 47	8 28	7 51	15 45		n.a.
F 8	22 31	18 16	3 45	15 8	3 56	25 6	1 29	15 46	0 11	16 14	0 44	2 55	2 27	20 40	0 40	0 27	1 58	31 0	11 48	8 26	7 50	15 46		n.a.
S 9	22 39	19 2	4 32	15 21	3 48	25 4	1 30	15 59	0 11	16 18	0 44	2 54	2 27	20 40	0 40	0 27	1 58	31 0	11 48	8 23	7 49	15 47		n.a.
S 10	22 46	18 28	4 59	15 37	3 40	25 2	1 31	16 12	0 10	16 21	0 44	2 52	2 27	20 40	0 40	0 27	1 58	31 1	11 48	8 21	7 47	15 48		n.a.
M11	22 52	16 41	5 6	15 54	3 31	24 59	1 32	16 25	0 9	16 25	0 44	2 51	2 27	20 41	0 40	0 27	1 58	31 1	11 49	8 18	7 46	15 49		n.a.
T 12	22 59	13 56	4 54	16 13	3 20	24 54	1 33	16 38	0 9	16 29	0 44	2 50	2 28	20 41	0 40	0 27	1 58	31 2	11 49	8 15	7 45	15 50		n.a.
W13	23 4	10 30	4 26	16 34	3 10	24 50	1 34	16 50	0 8	16 33	0 44	2 49	2 28	20 41	0 40	0 27	1 58	31 2	11 49	8 13	7 44	15 51		n.a.
T 14	23 10	6 39	3 44	16 56	2 59	24 44	1 34	17 2	0 7	16 36	0 44	2 48	2 28	20 42	0 40	0 27	1 57	31 2	11 49	8 12	7 42	15 52		n.a.
F 15	23 15	2 38	2 52	17 19	2 47	24 38	1 35	17 15	0 7	16 40	0 43	2 47	2 29	20 42	0 40	0 27	1 57	31 3	11 50	8 12	7 41	15 53		n.a.
S 16	23 19	1n24	1 53	17 44	2 35	24 31	1 36	17 27	0 6	16 44	0 43	2 46	2 29	20 43	0 40	0 27	1 57	31 3	11 50	8 12	7 40	15 54		n.a.
S 17	23 24	5 18	0 51	18 10	2 22	24 23	1 37	17 39	0 5	16 47	0 43	2 45	2 29	20 43	0 40	0 27	1 57	31 4	11 50	8 12	7 39	15 55		n.a.
M18	23 27	8 56	0s13	18 37	2 9	24 15	1 37	17 50	0 5	16 51	0 43	2 44	2 29	20 43	0 40	0 27	1 57	31 4	11 50	8 12	7 38	15 56		n.a.
T 19	23 31	12 10	1 16	19 4	1 56	24 5	1 38	18 2	0 4	16 54	0 43	2 43	2 30	20 44	0 40	0 27	1 57	31 5	11 51	8 12	7 36	15 57		n.a.
W20	23 34	14 55	2 15	19 32	1 43	23 56	1 38	18 13	0 3	16 58	0 43	2 42	2 30	20 44	0 40	0 27	1 57	31 5	11 51	8 11	7 35	15 58		n.a.
T 21	23 36	17 2	3 8	20 0	1 30	23 45	1 38	18 25	0 3	17 1	0 43	2 41	2 30	20 45	0 40	0 27	1 57	31 6	11 51	8 8	7 34	15 59		n.a.
F 22	23 38	18 27	3 53	20 28	1 16	23 34	1 38	18 36	0 2	17 5	0 43	2 41	2 31	20 45	0 40	0 27	1 57	31 6	11 51	8 5	7 33	15 59		n.a.
S 23	23 40	19 2	4 28	20 56	1 3	23 22	1 39	18 47	0 1	17 8	0 43	2 40	2 31	20 45	0 40	0 27	1 57	31 7	11 52	8 1	7 32	16 0		n.a.
S 24	23 41	18 46	4 52	21 24	0 49	23 9	1 39	18 57	0 1	17 11	0 43	2 39	2 31	20 46	0 40	0 27	1 57	31 7	11 52	7 57	7 30	16 1		n.a.
M25	23 42	17 38	5 2	21 51	0 36	22 56	1 39	19 8	0n 0	17 15	0 43	2 39	2 31	20 46	0 40	0 27	1 57	31 8	11 52	7 52	7 29	16 2		n.a.
T 26	23 43	15 39	4 58	22 17	0 23	22 42	1 39	19 19	0 1	17 18	0 43	2 38	2 32	20 47	0 40	0 28	1 57	31 8	11 52	7 48	7 28	16 3		n.a.
W27	23 43	12 54	4 40	22 42	0 11	22 28	1 39	19 29	0 2	17 21	0 43	2 37	2 32	20 47	0 41	0 28	1 57	31 9	11 52	7 44	7 27	16 4		n.a.
T 28	23 42	9 30	4 7	23 6	0n 1	22 12	1 38	19 39	0 2	17 25	0 43	2 37	2 32	20 48	0 41	0 28	1 57	31 9	11 53	7 41	7 25	16 5		n.a.
F 29	23 42	5 34	3 21	23 28	0 13	21 56	1 38	19 49	0 3	17 28	0 43	2 36	2 33	20 48	0 41	0 28	1 57	31 9	11 53	7 40	7 24	16 6		n.a.
S 30	23n40	1n19	2s23	23n48	0n24	21n40	1n38	19n59	0n 4	17n31	0s43	2s36	2s33	20s49	0s41	0s28	1n57	31s10	11s53	7s39	7s23	16n 7		n.a.

Julian Day Number = 1654733.5, Delta T = 03h29m02s
Ecliptic obliquity = 23°42'53, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°35'20, Lahiri = - 6°28'20 Julian Calendar 1 June 183 BCE == Greg. Calendar 29 May 183 BCE

The year -182 astronomical counting style corresponds to year 183 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 183 BCE
geocentric

JULY 183 BCE (-182) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 20 40	4♋11'35	4♎53	22♊46	2♌36	28♉34	21♉11	29♓22	1°R 2	5♎36	3°R17	19°D19	18♎35	24♉14	n.a.	S 1
M 2	18 24 37	5° 8'56	18°47	24°46	3°49	29°14	21°23	29°23	1♒ 0	5°36	3♒15	19°R19	18°32	24°20	n.a.	M 2
T 3	18 28 33	6° 6'18	3♏ 0	26°47	5° 1	29°54	21°35	29°25	0°58	5°37	3°14	19♎18	18°28	24°27	n.a.	T 3
W 4	18 32 30	7° 3'41	17°30	28°50	6°14	0♊33	21°46	29°26	0°56	5°37	3°13	19°16	18°25	24°34	n.a.	W 4
T 5	18 36 26	8° 1'05	2♐16	0♋53	7°26	1°13	21°58	29°27	0°54	5°38	3°12	19°11	18°22	24°40	n.a.	T 5
F 6	18 40 23	8°58'30	17°10	2°57	8°39	1°52	22° 9	29°28	0°51	5°38	3°11	19° 4	18°19	24°47	n.a.	F 6
S 7	18 44 19	9°55'56	2♑ 5	5° 2	9°51	2°31	22°21	29°30	0°49	5°39	3°10	18°54	18°16	24°54	n.a.	S 7
S 8	18 48 16	10°53'23	16°52	7° 6	11° 4	3°11	22°32	29°30	0°47	5°39	3° 9	18°43	18°13	25° 0	n.a.	S 8
M 9	18 52 12	11°50'52	1♒22	9°11	12°16	3°50	22°43	29°31	0°45	5°40	3° 7	18°32	18° 9	25° 7	n.a.	M 9
T 10	18 56 9	12°48'21	15°29	11°15	13°29	4°29	22°55	29°32	0°43	5°40	3° 6	18°23	18° 6	25°14	n.a.	T 10
W11	19 0 6	13°45'52	29°10	13°18	14°41	5° 8	23° 6	29°33	0°40	5°41	3° 5	18°15	18° 3	25°20	n.a.	W11
T 12	19 4 2	14°43'24	12♓22	15°20	15°53	5°48	23°17	29°33	0°38	5°42	3° 4	18° 9	18° 0	25°27	n.a.	T 12
F 13	19 7 59	15°40'58	25° 9	17°22	17° 5	6°27	23°27	29°33	0°36	5°42	3° 3	18° 7	17°57	25°34	n.a.	F 13
S 14	19 11 55	16°38'34	7♈34	19°22	18°18	7° 6	23°38	29°34	0°34	5°43	3° 1	18° 6	17°54	25°40	n.a.	S 14
S 15	19 15 52	17°36'11	19°42	21°22	19°30	7°45	23°49	29°34	0°31	5°44	3° 0	18° 5	17°50	25°47	n.a.	S 15
M16	19 19 48	18°33'49	1♉38	23°20	20°42	8°23	24° 0	29°R34	0°29	5°44	2°59	18° 5	17°47	25°54	n.a.	M16
T 17	19 23 45	19°31'30	13°28	25°17	21°54	9° 2	24°10	29°34	0°27	5°45	2°58	18° 4	17°44	26° 0	n.a.	T 17
W18	19 27 41	20°29'12	25°16	27°12	23° 6	9°41	24°20	29°34	0°24	5°46	2°56	18° 0	17°41	26° 7	n.a.	W18
T 19	19 31 38	21°26'56	7♊ 8	29° 6	24°18	10°20	24°31	29°34	0°22	5°47	2°55	17°54	17°38	26°14	n.a.	T 19
F 20	19 35 35	22°24'41	19° 7	0♌59	25°30	10°58	24°41	29°33	0°20	5°48	2°54	17°45	17°34	26°20	n.a.	F 20
S 21	19 39 31	23°22'28	1♋15	2°51	26°42	11°37	24°51	29°33	0°17	5°49	2°53	17°33	17°31	26°27	n.a.	S 21
S 22	19 43 28	24°20'17	13°35	4°41	27°54	12°16	25° 1	29°32	0°15	5°50	2°51	17°20	17°28	26°34	n.a.	S 22
M23	19 47 24	25°18'07	26° 7	6°29	29° 6	12°54	25°11	29°32	0°12	5°51	2°50	17° 7	17°25	26°40	n.a.	M23
T 24	19 51 21	26°15'59	8♌52	8°17	0♍18	13°32	25°21	29°31	0°10	5°52	2°49	16°55	17°22	26°47	n.a.	T 24
W25	19 55 17	27°13'53	21°49	10° 2	1°30	14°11	25°30	29°30	0° 8	5°53	2°48	16°44	17°19	26°54	n.a.	W25
T 26	19 59 14	28°11'47	4♍58	11°47	2°42	14°49	25°40	29°29	0° 5	5°54	2°46	16°36	17°15	27° 0	n.a.	T 26
F 27	20 3 10	29° 9'44	18°17	13°30	3°54	15°27	25°49	29°28	0° 3	5°55	2°45	16°30	17°12	27° 7	n.a.	F 27
S 28	20 7 7	0♌ 7'42	1♎47	15°12	5° 6	16° 5	25°59	29°27	0° 0	5°56	2°44	16°28	17° 9	27°14	n.a.	S 28
S 29	20 11 4	1° 5'41	15°28	16°53	6°17	16°44	26° 8	29°25	29♑58	5°57	2°42	16°D27	17° 6	27°21	n.a.	S 29
M30	20 15 0	2° 3'41	29°21	18°32	7°29	17°22	26°17	29°24	29°56	5°59	2°41	16°R27	17° 3	27°27	n.a.	M30
T 31	20 18 57	3♌ 1'44	13♏26	20♌10	8♍41	17♊59	26♉26	29♓23	29♑53	6♎ 0	2♒40	16♎27	16♎59	27♉34	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	23n39	3s 7	1s16	24n 6	0n35	21n23	1n37	20n 8	0n 4	17n34	0s43	2s36	2s33	20s49	0s41	0s28	1n56	31s10	11s53	7s39	7s22	16n 8			n.a.
M 2	23 37	7 29	0 3	24 21	0 45	21 5	1 37	20 18	0 5	17 37	0 43	2 35	2 33	20 50	0 41	0 28	1 56	31 11	11 53	7 39	7 21	16 9			n.a.
T 3	23 34	11 32	1n12	24 35	0 54	20 47	1 36	20 27	0 6	17 40	0 43	2 35	2 34	20 50	0 41	0 29	1 56	31 11	11 54	7 38	7 19	16 10			n.a.
W 4	23 31	14 57	2 23	24 45	1 3	20 28	1 36	20 36	0 6	17 43	0 43	2 35	2 34	20 51	0 41	0 29	1 56	31 12	11 54	7 38	7 18	16 11			n.a.
T 5	23 28	17 29	3 27	24 53	1 11	20 9	1 35	20 45	0 7	17 47	0 43	2 34	2 34	20 51	0 41	0 29	1 56	31 12	11 54	7 36	7 17	16 12			n.a.
F 6	23 24	18 50	4 16	24 59	1 18	19 49	1 34	20 54	0 8	17 49	0 43	2 34	2 35	20 52	0 41	0 29	1 56	31 13	11 54	7 33	7 16	16 13			n.a.
S 7	23 20	18 54	4 48	25 1	1 24	19 29	1 33	21 3	0 9	17 52	0 43	2 34	2 35	20 52	0 41	0 30	1 56	31 13	11 54	7 29	7 14	16 14			n.a.
S 8	23 16	17 40	5 1	25 1	1 30	19 8	1 32	21 11	0 9	17 55	0 43	2 34	2 35	20 53	0 41	0 30	1 56	31 14	11 55	7 25	7 13	16 14			n.a.
M 9	23 11	15 19	4 54	24 58	1 35	18 46	1 31	21 19	0 10	17 58	0 43	2 34	2 35	20 53	0 41	0 30	1 56	31 14	11 55	7 21	7 12	16 15			n.a.
T 10	23 5	12 6	4 28	24 52	1 39	18 24	1 30	21 27	0 11	18 1	0 43	2 34	2 36	20 54	0 41	0 30	1 56	31 15	11 55	7 17	7 11	16 16			n.a.
W11	23 0	8 20	3 48	24 44	1 42	18 2	1 29	21 35	0 11	18 4	0 43	2 34	2 36	20 54	0 41	0 31	1 56	31 15	11 55	7 14	7 10	16 17			n.a.
T 12	22 53	4 16	2 57	24 33	1 44	17 39	1 28	21 43	0 12	18 7	0 43	2 34	2 36	20 55	0 41	0 31	1 56	31 15	11 55	7 12	7 8	16 18			n.a.
F 13	22 47	0 8	1 58	24 20	1 46	17 16	1 26	21 51	0 13	18 9	0 43	2 34	2 37	20 55	0 41	0 31	1 56	31 16	11 55	7 11	7 7	16 19			n.a.
S 14	22 40	3n53	0 55	24 4	1 47	16 52	1 25	21 58	0 14	18 12	0 43	2 34	2 37	20 56	0 41	0 32	1 56	31 16	11 55	7 10	7 6	16 20			n.a.
S 15	22 32	7 40	0s 9	23 46	1 48	16 27	1 23	22 5	0 14	18 15	0 43	2 34	2 37	20 56	0 41	0 32	1 56	31 17	11 56	7 10	7 5	16 21			n.a.
M16	22 25	11 4	1 11	23 26	1 47	16 3	1 22	22 12	0 15	18 17	0 43	2 35	2 38	20 57	0 41	0 32	1 56	31 17	11 56	7 10	7 3	16 22			n.a.
T 17	22 17	14 0	2 10	23 4	1 47	15 38	1 20	22 19	0 16	18 20	0 43	2 35	2 38	20 57	0 41	0 33	1 55	31 18	11 56	7 10	7 2	16 23			n.a.
W18	22 8	16 20	3 3	22 41	1 45	15 12	1 18	22 26	0 16	18 23	0 43	2 35	2 38	20 58	0 41	0 33	1 55	31 18	11 56	7 8	7 1	16 23			n.a.
T 19	21 59	18 0	3 49	22 16	1 43	14 46	1 16	22 32	0 17	18 25	0 43	2 36	2 38	20 58	0 41	0 34	1 55	31 18	11 56	7 6	7 0	16 24			n.a.
F 20	21 50	18 52	4 24	21 49	1 41	14 20	1 14	22 39	0 18	18 28	0 43	2 36	2 39	20 59	0 41	0 34	1 55	31 19	11 56	7 2	6 58	16 25			n.a.
S 21	21 40	18 54	4 49	21 20	1 38	13 53	1 12	22 45	0 19	18 30	0 43	2 36	2 39	20 59	0 41	0 34	1 55	31 19	11 56	6 58	6 57	16 26			n.a.
S 22	21 30	18 3	5 0	20 51	1 35	13 26	1 10	22 51	0 19	18 33	0 43	2 37	2 39	21 0	0 41	0 35	1 55	31 20	11 56	6 53	6 56	16 27			n.a.
M23	21 19	16 19	4 57	20 20	1 31	12 59	1 8	22 56	0 20	18 35	0 43	2 38	2 40	21 0	0 41	0 35	1 55	31 20	11 56	6 48	6 55	16 28			n.a.
T 24	21 8	13 46	4 39	19 48	1 27	12 31	1 6	23 2	0 21	18 37	0 43	2 38	2 40	21 1	0 41	0 36	1 55	31 21	11 57	6 43	6 54	16 29			n.a.
W25	20 57	10 30	4 7	19 15	1 22	12 3	1 4	23 7	0 22	18 40	0 43	2 39	2 40	21 1	0 41	0 36	1 55	31 21	11 57	6 39	6 52	16 30			n.a.
T 26	20 46	6 41	3 21	18 41	1 17	11 35	1 1	23 13	0 22	18 42	0 43	2 39	2 40	21 2	0 41	0 37	1 55	31 21	11 57	6 36	6 51	16 30			n.a.
F 27	20 34	2 29	2 23	18 7	1 12	11 6	0 59	23 18	0 23	18 44	0 43	2 40	2 41	21 2	0 41	0 37	1 55	31 22	11 57	6 34	6 50	16 31			n.a.
S 28	20 21	1s54	1 17	17 31	1 7	10 38	0 57	23 22	0 24	18 46	0 43	2 41	2 41	21 3	0 41	0 38	1 55	31 22	11 57	6 33	6 49	16 32			n.a.
S 29	20 9	6 14	0 5	16 55	1 1	10 8	0 54	23 27	0 25	18 49	0 43	2 42	2 41	21 3	0 41	0 38	1 55	31 22	11 57	6 32	6 47	16 33			n.a.
M30	19 56	10 19	1n 8	16 18	0 55	9 39	0 51	23 32	0 25	18 51	0 43	2 42	2 42	21 4	0 41	0 39	1 55	31 23	11 57	6 32	6 46	16 34			n.a.
T 31	19n42	13s52	2n18	15n41	0n48	9n10	0n49	23n36	0n26	18n53	0s43	2s43	2s42	21s 4	0s41	0s39	1n55	31s23	11s57	6s32	6s45	16n35			n.a.

Julian Day Number = 1654763.5, Delta T = 03h29m01s
Ecliptic obliquity = 23°42'53, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°35'16, Lahiri = - 6°28'15 Julian Calendar 1 July 183 BCE == Greg. Calendar 28 June 183 BCE

The year -182 astronomical counting style corresponds to year 183 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 183 BCE
geocentric

AUGUST 183 BCE (-182) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 22 53	3♌59'47	27♏42	21♌47	9♍52	18♊37	26♉35	29°R21	29°R51	6♎ 1	2°R39	16°R25	16♎56	27♉41	n.a.	W 1
T 2	20 26 50	4°57'52	12♐ 7	23°22	11° 4	19°15	26°44	29♓19	29♑48	6° 2	2♒37	16♎21	16°53	27°47	n.a.	T 2
F 3	20 30 46	5°55'59	26°38	24°56	12°15	19°53	26°52	29°17	29°46	6° 4	2°36	16°14	16°50	27°54	n.a.	F 3
S 4	20 34 43	6°54'07	11♑ 9	26°29	13°27	20°31	27° 1	29°16	29°44	6° 5	2°35	16° 5	16°47	28° 1	n.a.	S 4
S 5	20 38 39	7°52'17	25°33	28° 1	14°38	21° 8	27° 9	29°14	29°41	6° 6	2°33	15°55	16°44	28° 7	n.a.	S 5
M 6	20 42 36	8°50'29	9♒46	29°31	15°49	21°46	27°17	29°12	29°39	6° 8	2°32	15°44	16°40	28°14	n.a.	M 6
T 7	20 46 33	9°48'42	23°40	1♍ 0	17° 1	22°23	27°25	29° 9	29°37	6° 9	2°31	15°35	16°37	28°21	n.a.	T 7
W 8	20 50 29	10°46'58	7♓12	2°28	18°12	23° 1	27°33	29° 7	29°34	6°11	2°30	15°27	16°34	28°27	n.a.	W 8
T 9	20 54 26	11°45'15	20°20	3°55	19°23	23°38	27°41	29° 5	29°32	6°12	2°28	15°22	16°31	28°34	n.a.	T 9
F 10	20 58 22	12°43'35	3♈ 6	5°20	20°34	24°16	27°49	29° 2	29°30	6°13	2°27	15°19	16°28	28°41	n.a.	F 10
S 11	21 2 19	13°41'57	15°32	6°44	21°45	24°53	27°56	29° 0	29°27	6°15	2°26	15°D19	16°25	28°47	n.a.	S 11
S 12	21 6 15	14°40'20	27°41	8° 7	22°56	25°30	28° 4	28°57	29°25	6°16	2°24	15°19	16°21	28°54	n.a.	S 12
M13	21 10 12	15°38'47	9♉38	9°28	24° 7	26° 7	28°11	28°54	29°23	6°18	2°23	15°20	16°18	29° 1	n.a.	M13
T 14	21 14 8	16°37'15	21°29	10°48	25°18	26°44	28°18	28°51	29°20	6°20	2°22	15°R20	16°15	29° 7	n.a.	T 14
W15	21 18 5	17°35'46	3♊19	12° 6	26°29	27°21	28°25	28°48	29°18	6°21	2°21	15°18	16°12	29°14	n.a.	W15
T 16	21 22 1	18°34'19	15°13	13°23	27°40	27°58	28°32	28°45	29°16	6°23	2°19	15°15	16° 9	29°21	n.a.	T 16
F 17	21 25 58	19°32'54	27°16	14°38	28°51	28°35	28°39	28°42	29°14	6°25	2°18	15° 9	16° 5	29°27	n.a.	F 17
S 18	21 29 55	20°31'32	9♋31	15°52	0♎ 2	29°12	28°45	28°39	29°12	6°26	2°17	15° 1	16° 2	29°34	n.a.	S 18
S 19	21 33 51	21°30'11	22° 0	17° 4	1°12	29°49	28°51	28°36	29° 9	6°28	2°16	14°52	15°59	29°41	n.a.	S 19
M20	21 37 48	22°28'53	4♌47	18°14	2°23	0♋25	28°58	28°33	29° 7	6°30	2°15	14°43	15°56	29°48	n.a.	M20
T 21	21 41 44	23°27'37	17°49	19°22	3°33	1° 2	29° 4	28°29	29° 5	6°31	2°13	14°33	15°53	29°54	n.a.	T 21
W22	21 45 41	24°26'23	1♍ 7	20°28	4°44	1°38	29°10	28°26	29° 3	6°33	2°12	14°26	15°50	0♊ 1	n.a.	W22
T 23	21 49 37	25°25'11	14°39	21°32	5°54	2°15	29°15	28°22	29° 1	6°35	2°11	14°20	15°46	0° 8	n.a.	T 23
F 24	21 53 34	26°24'01	28°22	22°34	7° 5	2°51	29°21	28°18	28°59	6°37	2°10	14°17	15°43	0°14	n.a.	F 24
S 25	21 57 30	27°22'53	12♎14	23°33	8°15	3°27	29°26	28°15	28°57	6°39	2° 9	14°D16	15°40	0°21	n.a.	S 25
S 26	22 1 27	28°21'47	26°13	24°30	9°25	4° 3	29°31	28°11	28°55	6°40	2° 8	14°16	15°37	0°28	n.a.	S 26
M27	22 5 24	29°20'43	10♏17	25°23	10°35	4°40	29°36	28° 7	28°53	6°42	2° 6	14°17	15°34	0°34	n.a.	M27
T 28	22 9 20	0♍19'41	24°24	26°14	11°45	5°16	29°41	28° 3	28°51	6°44	2° 5	14°R18	15°31	0°41	n.a.	T 28
W29	22 13 17	1°18'40	8♐34	27° 1	12°55	5°52	29°46	27°59	28°49	6°46	2° 4	14°18	15°27	0°48	n.a.	W29
T 30	22 17 13	2°17'42	22°45	27°44	14° 5	6°27	29°51	27°55	28°47	6°48	2° 3	14°16	15°24	0°54	n.a.	T 30
F 31	22 21 10	3♍16'45	6♑54	28♍24	15♎15	7♋ 3	29♉55	27♓51	28♑45	6♎50	2♒ 2	14♎13	15♎21	1♊ 1	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	19n29	16s37	3n20	15n 4	0n41	8n40	0n46	23n40	0n27	18n55	0s43	2s44	2s42	21s 5	0s41	0s40	1n55	31s24	11s57	6s32	6s44	16n36			n.a.
T 2	19 15	18 22	4 11	14 26	0 35	8 10	0 43	23 44	0 28	18 57	0 43	2 45	2 42	21 5	0 41	0 40	1 55	31 24	11 57	6 30	6 43	16 36			n.a.
F 3	19 0	18 55	4 45	13 47	0 27	7 40	0 40	23 48	0 28	18 59	0 43	2 46	2 43	21 6	0 41	0 41	1 55	31 24	11 57	6 27	6 41	16 37			n.a.
S 4	18 46	18 14	5 1	13 9	0 20	7 9	0 37	23 51	0 29	19 1	0 43	2 47	2 43	21 7	0 41	0 42	1 54	31 25	11 57	6 24	6 40	16 38			n.a.
S 5	18 31	16 23	4 58	12 30	0 13	6 39	0 34	23 55	0 30	19 3	0 43	2 48	2 43	21 7	0 41	0 42	1 54	31 25	11 57	6 20	6 39	16 39			n.a.
M 6	18 15	13 34	4 37	11 51	0 5	6 8	0 31	23 58	0 31	19 5	0 43	2 49	2 43	21 8	0 41	0 43	1 54	31 25	11 57	6 16	6 38	16 40			n.a.
T 7	18 0	10 2	3 59	11 12	0s 3	5 37	0 28	24 1	0 32	19 7	0 43	2 50	2 44	21 8	0 41	0 43	1 54	31 26	11 57	6 12	6 36	16 41			n.a.
W 8	17 44	6 3	3 9	10 33	0 10	5 6	0 25	24 4	0 32	19 8	0 43	2 51	2 44	21 9	0 41	0 44	1 54	31 26	11 57	6 9	6 35	16 41			n.a.
T 9	17 28	1 54	2 9	9 54	0 18	4 35	0 22	24 7	0 33	19 10	0 43	2 53	2 44	21 9	0 41	0 45	1 54	31 26	11 57	6 7	6 34	16 42			n.a.
F 10	17 11	2n14	1 5	9 15	0 27	4 4	0 18	24 9	0 34	19 12	0 43	2 54	2 44	21 9	0 41	0 45	1 54	31 27	11 57	6 6	6 33	16 43			n.a.
S 11	16 54	6 10	0s 1	8 36	0 35	3 32	0 15	24 11	0 35	19 14	0 43	2 55	2 45	21 10	0 41	0 46	1 54	31 27	11 57	6 6	6 31	16 44			n.a.
S 12	16 37	9 45	1 6	7 57	0 43	3 1	0 12	24 14	0 35	19 15	0 43	2 56	2 45	21 10	0 41	0 47	1 54	31 27	11 57	6 6	6 30	16 45			n.a.
M13	16 20	12 52	2 6	7 19	0 51	2 29	0 8	24 16	0 36	19 17	0 43	2 58	2 45	21 11	0 41	0 47	1 54	31 27	11 57	6 6	6 29	16 45			n.a.
T 14	16 2	15 26	3 1	6 41	1 0	1 58	0 5	24 17	0 37	19 18	0 43	2 59	2 45	21 11	0 41	0 48	1 54	31 28	11 57	6 6	6 28	16 46			n.a.
W15	15 44	17 20	3 48	6 3	1 8	1 26	0 1	24 19	0 38	19 20	0 43	3 0	2 46	21 12	0 41	0 49	1 54	31 28	11 57	6 6	6 26	16 47			n.a.
T 16	15 26	18 29	4 25	5 26	1 17	0 54	0s 2	24 21	0 39	19 21	0 43	3 2	2 46	21 12	0 41	0 49	1 54	31 28	11 57	6 4	6 25	16 48			n.a.
F 17	15 8	18 50	4 51	4 49	1 25	0 22	0 6	24 22	0 39	19 23	0 43	3 3	2 46	21 13	0 41	0 50	1 54	31 29	11 57	6 2	6 24	16 49			n.a.
S 18	14 49	18 18	5 5	4 12	1 34	0s 9	0 10	24 23	0 40	19 24	0 43	3 5	2 46	21 13	0 41	0 51	1 54	31 29	11 57	5 59	6 23	16 49			n.a.
S 19	14 30	16 54	5 4	3 36	1 42	0 41	0 13	24 24	0 41	19 26	0 43	3 6	2 46	21 14	0 41	0 51	1 54	31 29	11 57	5 55	6 22	16 50			n.a.
M20	14 11	14 38	4 48	3 1	1 50	1 13	0 17	24 25	0 42	19 27	0 43	3 8	2 47	21 14	0 41	0 52	1 54	31 29	11 57	5 52	6 20	16 51			n.a.
T 21	13 51	11 36	4 17	2 26	1 59	1 45	0 21	24 25	0 43	19 28	0 44	3 9	2 47	21 15	0 41	0 53	1 54	31 29	11 57	5 48	6 19	16 52			n.a.
W22	13 32	7 55	3 31	1 53	2 7	2 17	0 25	24 26	0 43	19 30	0 44	3 11	2 47	21 15	0 41	0 54	1 54	31 30	11 57	5 45	6 18	16 53			n.a.
T 23	13 12	3 46	2 33	1 20	2 15	2 48	0 28	24 26	0 44	19 31	0 44	3 13	2 47	21 15	0 41	0 54	1 54	31 30	11 57	5 43	6 17	16 53			n.a.
F 24	12 52	0s38	1 25	0 48	2 23	3 20	0 32	24 26	0 45	19 32	0 44	3 14	2 47	21 16	0 41	0 55	1 54	31 30	11 57	5 42	6 15	16 54			n.a.
S 25	12 31	5 3	0 11	0 17	2 30	3 52	0 36	24 26	0 46	19 33	0 44	3 16	2 48	21 16	0 41	0 56	1 54	31 30	11 56	5 41	6 14	16 55			n.a.
S 26	12 11	9 14	1n 4	0s12	2 38	4 23	0 40	24 26	0 47	19 34	0 44	3 18	2 48	21 17	0 41	0 57	1 53	31 31	11 56	5 41	6 13	16 56			n.a.
M27	11 50	12 55	2 16	0 40	2 45	4 55	0 44	24 26	0 48	19 35	0 44	3 19	2 48	21 17	0 41	0 57	1 53	31 31	11 56	5 42	6 12	16 56			n.a.
T 28	11 29	15 51	3 20	1 7	2 52	5 26	0 48	24 25	0 48	19 36	0 44	3 21	2 48	21 17	0 41	0 58	1 53	31 31	11 56	5 42	6 10	16 57			n.a.
W29	11 8	17 50	4 12	1 32	2 59	5 57	0 52	24 24	0 49	19 37	0 44	3 23	2 48	21 18	0 41	0 59	1 53	31 31	11 56	5 42	6 9	16 58			n.a.
T 30	10 47	18 43	4 48	1 55	3 5	6 28	0 56	24 23	0 50	19 38	0 44	3 25	2 49	21 18	0 41	1 0	1 53	31 31	11 56	5 41	6 8	16 59			n.a.
F 31	10n25	18s25	5n 7	2s17	3s11	6s59	1s 0	24n22	0n51	19n39	0s44	3s26	2s49	21s19	0s41	1s 1	1n53	31s31	11s56	5s40	6s 7	17n 0			n.a.

Julian Day Number = 1654794.5, Delta T = 03h29m00s
Ecliptic obliquity = 23°42'53, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°35'12, Lahiri = - 6°28'11 Julian Calendar 1 Aug. 183 BCE == Greg. Calendar 29 July 183 BCE

The year -182 astronomical counting style corresponds to year 183 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 183 BCE
geocentric

SEPTEMBER 183 BCE (-182) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 25 6	4♍15'50	20♉58	28♍59	16♎25	7♋39	29♉59	27°R47	28°R44	6♎52	2°R 1	14°R 8	15♎18	1♊ 8	n.a.	S 1
S 2	22 29 3	5°14'57	4♒55	29°29	17°34	8°15	0♊ 3	27♓43	28♉42	6°54	2♒ 0	14♎ 2	15°15	1°14	n.a.	S 2
M 3	22 32 59	6°14'06	18°41	29°54	18°44	8°50	0° 7	27°38	28°40	6°56	1°59	13°55	15°11	1°21	n.a.	M 3
T 4	22 36 56	7°13'17	2♓12	0♎14	19°53	9°26	0°11	27°34	28°38	6°58	1°58	13°50	15° 8	1°28	n.a.	T 4
W 5	22 40 53	8°12'30	15°26	0°28	21° 3	10° 1	0°14	27°30	28°37	7° 0	1°57	13°45	15° 5	1°34	n.a.	W 5
T 6	22 44 49	9°11'45	28°23	0°35	22°12	10°36	0°17	27°25	28°35	7° 2	1°56	13°42	15° 2	1°41	n.a.	T 6
F 7	22 48 46	10°11'02	11♈ 1	0°R35	23°21	11°12	0°20	27°21	28°33	7° 4	1°55	13°D41	14°59	1°48	n.a.	F 7
S 8	22 52 42	11°10'22	23°23	0°28	24°30	11°47	0°23	27°16	28°32	7° 6	1°54	13°42	14°56	1°55	n.a.	S 8
S 9	22 56 39	12° 9'44	5♉30	0°14	25°39	12°22	0°26	27°12	28°30	7° 8	1°53	13°43	14°52	2° 1	n.a.	S 9
M10	23 0 35	13° 9'09	17°28	29♍51	26°48	12°57	0°29	27° 7	28°29	7°10	1°52	13°45	14°49	2° 8	n.a.	M10
T 11	23 4 32	14° 8'36	29°20	29°20	27°57	13°32	0°31	27° 2	28°27	7°12	1°51	13°46	14°46	2°15	n.a.	T 11
W12	23 8 28	15° 8'05	11♊10	28°41	29° 5	14° 6	0°33	26°58	28°26	7°14	1°50	13°R47	14°43	2°21	n.a.	W12
T 13	23 12 25	16° 7'37	23° 5	27°54	0♏14	14°41	0°35	26°53	28°24	7°16	1°50	13°47	14°40	2°28	n.a.	T 13
F 14	23 16 21	17° 7'11	5♋ 8	26°59	1°22	15°16	0°37	26°48	28°23	7°19	1°49	13°46	14°36	2°35	n.a.	F 14
S 15	23 20 18	18° 6'47	17°24	25°58	2°30	15°50	0°38	26°44	28°22	7°21	1°48	13°43	14°33	2°41	n.a.	S 15
S 16	23 24 15	19° 6'26	29°58	24°51	3°39	16°25	0°40	26°39	28°21	7°23	1°47	13°40	14°30	2°48	n.a.	S 16
M17	23 28 11	20° 6'07	12♌51	23°39	4°47	16°59	0°41	26°34	28°19	7°25	1°46	13°36	14°27	2°55	n.a.	M17
T 18	23 32 8	21° 5'50	26° 5	22°26	5°55	17°33	0°42	26°29	28°18	7°27	1°46	13°33	14°24	3° 1	n.a.	T 18
W19	23 36 4	22° 5'36	9♍40	21°12	7° 3	18° 7	0°43	26°24	28°17	7°29	1°45	13°30	14°21	3° 8	n.a.	W19
T 20	23 40 1	23° 5'24	23°33	20° 0	8°10	18°41	0°43	26°20	28°16	7°32	1°44	13°28	14°17	3°15	n.a.	T 20
F 21	23 43 57	24° 5'14	7♎42	18°51	9°18	19°15	0°44	26°15	28°15	7°34	1°43	13°D27	14°14	3°21	n.a.	F 21
S 22	23 47 54	25° 5'05	22° 2	17°49	10°25	19°49	0°R44	26°10	28°14	7°36	1°43	13°27	14°11	3°28	n.a.	S 22
S 23	23 51 50	26° 4'59	6♏28	16°55	11°32	20°23	0°44	26° 5	28°13	7°38	1°42	13°27	14° 8	3°35	n.a.	S 23
M24	23 55 47	27° 4'55	20°54	16°10	12°40	20°56	0°44	26° 0	28°12	7°40	1°41	13°29	14° 5	3°42	n.a.	M24
T 25	23 59 43	28° 4'52	5♐17	15°35	13°47	21°30	0°43	25°55	28°11	7°43	1°41	13°30	14° 2	3°48	n.a.	T 25
W26	0 3 40	29° 4'51	19°34	15°12	14°53	22° 3	0°42	25°51	28°10	7°45	1°40	13°31	13°58	3°55	n.a.	W26
T 27	0 7 37	0♎ 4'52	3♉42	15° 0	16° 0	22°37	0°42	25°46	28°10	7°47	1°40	13°R31	13°55	4° 2	n.a.	T 27
F 28	0 11 33	1° 4'55	17°38	14°D59	17° 6	23°10	0°41	25°41	28° 9	7°49	1°39	13°30	13°52	4° 8	n.a.	F 28
S 29	0 15 30	2° 4'59	1♒23	15°10	18°13	23°43	0°39	25°36	28° 8	7°51	1°39	13°29	13°49	4°15	n.a.	S 29
S 30	0 19 26	3♎ 5'05	14♒55	15♍31	19♏19	24♋16	0♊38	25♓31	28♉ 8	7♎54	1♒38	13♎28	13♎46	4♊22	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	10n 3	16s59	5n 8	2s36	3s17	7s30	1s 4	24n21	0n52	19n40	0s44	3s28	2s49	21s19	0s41	1s 1	1n53	31s32	11s56	5s38	6s 5	17n 0		n.a.
S 2	9 42	14 34	4 50	2 52	3 22	8 1	1 8	24 20	0 53	19 41	0 44	3 30	2 49	21 19	0 41	1 2	1 53	31 32	11 56	5 36	6 4	17 1		n.a.
M 3	9 20	11 21	4 15	3 6	3 26	8 31	1 12	24 18	0 54	19 42	0 44	3 32	2 49	21 20	0 41	1 3	1 53	31 32	11 55	5 33	6 3	17 2		n.a.
T 4	8 57	7 36	3 27	3 18	3 30	9 2	1 16	24 17	0 54	19 42	0 44	3 34	2 49	21 20	0 41	1 4	1 53	31 32	11 55	5 31	6 2	17 3		n.a.
W 5	8 35	3 32	2 28	3 25	3 32	9 32	1 20	24 15	0 55	19 43	0 44	3 36	2 49	21 20	0 41	1 5	1 53	31 32	11 55	5 29	6 0	17 3		n.a.
T 6	8 13	0n37	1 23	3 30	3 34	10 2	1 24	24 13	0 56	19 44	0 44	3 37	2 50	21 21	0 41	1 6	1 53	31 32	11 55	5 28	5 59	17 4		n.a.
F 7	7 50	4 38	0 15	3 31	3 35	10 32	1 28	24 11	0 57	19 45	0 44	3 39	2 50	21 21	0 41	1 6	1 53	31 32	11 55	5 28	5 58	17 5		n.a.
S 8	7 27	8 22	0s53	3 27	3 34	11 1	1 32	24 9	0 58	19 45	0 44	3 41	2 50	21 21	0 41	1 7	1 53	31 32	11 55	5 28	5 57	17 5		n.a.
S 9	7 5	11 41	1 57	3 20	3 32	11 31	1 36	24 7	0 59	19 46	0 44	3 43	2 50	21 22	0 41	1 8	1 53	31 32	11 55	5 28	5 56	17 6		n.a.
M10	6 42	14 27	2 55	3 8	3 29	12 0	1 40	24 4	1 0	19 46	0 44	3 45	2 50	21 22	0 41	1 9	1 53	31 33	11 54	5 29	5 54	17 7		n.a.
T 11	6 19	16 35	3 45	2 51	3 24	12 28	1 44	24 1	1 1	19 47	0 44	3 47	2 50	21 22	0 41	1 10	1 53	31 33	11 54	5 30	5 53	17 8		n.a.
W12	5 55	18 0	4 25	2 29	3 17	12 57	1 48	23 59	1 2	19 47	0 44	3 49	2 50	21 22	0 41	1 11	1 53	31 33	11 54	5 30	5 52	17 8		n.a.
T 13	5 32	18 38	4 54	2 2	3 9	13 25	1 52	23 56	1 2	19 47	0 44	3 51	2 50	21 23	0 40	1 12	1 53	31 33	11 54	5 30	5 51	17 9		n.a.
F 14	5 9	18 26	5 11	1 30	2 58	13 53	1 55	23 53	1 3	19 48	0 44	3 53	2 50	21 23	0 40	1 12	1 53	31 33	11 54	5 29	5 49	17 10		n.a.
S 15	4 45	17 23	5 14	0 54	2 46	14 21	1 59	23 50	1 4	19 48	0 44	3 55	2 50	21 23	0 40	1 13	1 53	31 33	11 54	5 28	5 48	17 11		n.a.
S 16	4 22	15 29	5 2	0 14	2 31	14 48	2 3	23 46	1 5	19 48	0 44	3 57	2 50	21 23	0 40	1 14	1 53	31 33	11 53	5 27	5 47	17 11		n.a.
M17	3 58	12 46	4 35	0n29	2 15	15 15	2 7	23 43	1 6	19 49	0 44	3 59	2 50	21 24	0 40	1 15	1 53	31 33	11 53	5 26	5 46	17 12		n.a.
T 18	3 34	9 20	3 52	1 15	1 57	15 42	2 11	23 39	1 7	19 49	0 44	4 1	2 50	21 24	0 40	1 16	1 53	31 33	11 53	5 24	5 44	17 13		n.a.
W19	3 10	5 20	2 56	2 2	1 38	16 8	2 15	23 36	1 8	19 49	0 44	4 3	2 51	21 24	0 40	1 17	1 53	31 33	11 53	5 23	5 43	17 13		n.a.
T 20	2 46	0 57	1 48	2 49	1 18	16 34	2 18	23 32	1 9	19 49	0 44	4 5	2 51	21 24	0 40	1 18	1 53	31 33	11 53	5 22	5 42	17 14		n.a.
F 21	2 22	3s34	0 32	3 34	0 58	17 0	2 22	23 28	1 10	19 49	0 44	4 7	2 51	21 24	0 40	1 19	1 53	31 33	11 53	5 22	5 41	17 15		n.a.
S 22	1 58	7 57	0n47	4 18	0 37	17 25	2 25	23 24	1 11	19 49	0 44	4 9	2 51	21 25	0 40	1 19	1 53	31 33	11 52	5 22	5 39	17 15		n.a.
S 23	1 34	11 53	2 4	4 58	0 17	17 50	2 29	23 20	1 12	19 49	0 44	4 11	2 51	21 25	0 40	1 20	1 53	31 33	11 52	5 22	5 38	17 16		n.a.
M24	1 10	15 5	3 13	5 34	0n 3	18 14	2 33	23 16	1 13	19 49	0 44	4 13	2 51	21 25	0 40	1 21	1 53	31 33	11 52	5 23	5 37	17 17		n.a.
T 25	0 46	17 21	4 9	6 4	0 21	18 38	2 36	23 11	1 14	19 49	0 44	4 15	2 51	21 25	0 40	1 22	1 53	31 33	11 52	5 23	5 36	17 17		n.a.
W26	0 22	18 29	4 50	6 29	0 39	19 1	2 39	23 7	1 15	19 49	0 44	4 16	2 51	21 25	0 40	1 23	1 53	31 33	11 52	5 23	5 34	17 18		n.a.
T 27	0s 2	18 28	5 12	6 49	0 55	19 25	2 43	23 2	1 16	19 49	0 44	4 18	2 51	21 25	0 40	1 24	1 53	31 32	11 51	5 24	5 33	17 19		n.a.
F 28	0 26	17 19	5 16	7 2	1 9	19 47	2 46	22 58	1 17	19 48	0 44	4 20	2 51	21 25	0 40	1 25	1 53	31 32	11 51	5 23	5 32	17 19		n.a.
S 29	0 50	15 11	5 1	7 10	1 22	20 9	2 49	22 53	1 18	19 48	0 44	4 22	2 51	21 26	0 40	1 26	1 53	31 32	11 51	5 23	5 31	17 20		n.a.
S 30	1s14	12s14	4n30	7n12	1n33	20s31	2s52	22n48	1n19	19n48	0s44	4s24	2s51	21s26	0s40	1s27	1n53	31s32	11s51	5s22	5s29	17n21		n.a.

Julian Day Number = 1654825.5, Delta T = 03h28m59s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°35'07, Lahiri = - 6°28'07 Julian Calendar 1 Sept. 183 BCE == Greg. Calendar 29 Aug. 183 BCE

The year -182 astronomical counting style corresponds to year 183 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 183 BCE
geocentric

OCTOBER 183 BCE (-182) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 23 23	4♎ 5'13	28♒14	16♍ 2	20♏25	24♋48	0°R36	25°R27	28°R 7	7♎56	1°R38	13°R27	13♎42	4♊28	n.a.	M 1
T 2	0 27 19	5° 5'22	11♓19	16°41	21°30	25°21	0♊34	25♓22	28♉ 7	7°58	1♒37	13♎25	13°39	4°35	n.a.	T 2
W 3	0 31 16	6° 5'33	24°11	17°29	22°36	25°54	0°32	25°17	28° 6	8° 0	1°37	13°25	13°36	4°42	n.a.	W 3
T 4	0 35 12	7° 5'46	6♈49	18°24	23°41	26°26	0°30	25°12	28° 6	8° 3	1°36	13°24	13°33	4°48	n.a.	T 4
F 5	0 39 9	8° 6'01	19°15	19°26	24°46	26°58	0°28	25° 8	28° 5	8° 5	1°36	13°D24	13°30	4°55	n.a.	F 5
S 6	0 43 6	9° 6'18	1♉28	20°33	25°51	27°31	0°25	25° 3	28° 5	8° 7	1°36	13°25	13°27	5° 2	n.a.	S 6
S 7	0 47 2	10° 6'36	13°32	21°45	26°55	28° 3	0°22	24°59	28° 5	8° 9	1°35	13°25	13°23	5° 9	n.a.	S 7
M 8	0 50 59	11° 6'57	25°27	23° 1	28° 0	28°35	0°19	24°54	28° 5	8°12	1°35	13°25	13°20	5°15	n.a.	M 8
T 9	0 54 55	12° 7'20	7♊18	24°20	29° 4	29° 6	0°16	24°50	28° 4	8°14	1°35	13°25	13°17	5°22	n.a.	T 9
W10	0 58 52	13° 7'45	19° 9	25°43	0♐ 8	29°38	0°13	24°45	28° 4	8°16	1°34	13°R26	13°14	5°29	n.a.	W10
T 11	1 2 48	14° 8'11	1♋ 2	27° 8	1°11	0♑10	0° 9	24°41	28° 4	8°18	1°34	13°26	13°11	5°35	n.a.	T 11
F 12	1 6 45	15° 8'40	13° 3	28°35	2°14	0°41	0° 5	24°36	28°D 4	8°21	1°34	13°D26	13° 7	5°42	n.a.	F 12
S 13	1 10 41	16° 9'11	25°17	0♎ 4	3°17	1°12	0° 1	24°32	28° 4	8°23	1°34	13°26	13° 4	5°49	n.a.	S 13
S 14	1 14 38	17° 9'44	7♑47	1°35	4°20	1°43	29♉57	24°28	28° 4	8°25	1°34	13°26	13° 1	5°55	n.a.	S 14
M15	1 18 35	18°10'18	20°38	3° 6	5°23	2°14	29°53	24°23	28° 4	8°27	1°33	13°26	12°58	6° 2	n.a.	M15
T 16	1 22 31	19°10'55	3♍53	4°39	6°25	2°45	29°48	24°19	28° 5	8°30	1°33	13°27	12°55	6° 9	n.a.	T 16
W17	1 26 28	20°11'33	17°33	6°12	7°26	3°16	29°44	24°15	28° 5	8°32	1°33	13°27	12°52	6°15	n.a.	W17
T 18	1 30 24	21°12'13	1♎38	7°46	8°28	3°46	29°39	24°11	28° 5	8°34	1°33	13°28	12°48	6°22	n.a.	T 18
F 19	1 34 21	22°12'55	16° 5	9°20	9°29	4°16	29°34	24° 7	28° 6	8°36	1°D33	13°R28	12°45	6°29	n.a.	F 19
S 20	1 38 17	23°13'38	0♏49	10°54	10°30	4°46	29°28	24° 3	28° 6	8°38	1°33	13°28	12°42	6°36	n.a.	S 20
S 21	1 42 14	24°14'23	15°42	12°29	11°30	5°16	29°23	23°59	28° 6	8°41	1°33	13°27	12°39	6°42	n.a.	S 21
M22	1 46 10	25°15'09	0♐37	14° 4	12°30	5°46	29°18	23°56	28° 7	8°43	1°33	13°25	12°36	6°49	n.a.	M22
T 23	1 50 7	26°15'56	15°25	15°39	13°29	6°16	29°12	23°52	28° 7	8°45	1°33	13°24	12°33	6°56	n.a.	T 23
W24	1 54 3	27°16'45	0♑ 0	17°14	14°29	6°45	29° 6	23°48	28° 8	8°47	1°33	13°22	12°29	7° 2	n.a.	W24
T 25	1 58 0	28°17'35	14°18	18°49	15°27	7°15	29° 0	23°45	28° 9	8°49	1°34	13°21	12°26	7° 9	n.a.	T 25
F 26	2 1 57	29°18'25	28°16	20°24	16°25	7°44	28°54	23°41	28° 9	8°51	1°34	13°D21	12°23	7°16	n.a.	F 26
S 27	2 5 53	0♏19'17	11♒53	21°59	17°23	8°12	28°48	23°38	28°10	8°54	1°34	13°21	12°20	7°22	n.a.	S 27
S 28	2 9 50	1°20'10	25°10	23°34	18°20	8°41	28°41	23°35	28°11	8°56	1°34	13°22	12°17	7°29	n.a.	S 28
M29	2 13 46	2°21'04	8♓10	25° 9	19°17	9°10	28°35	23°31	28°12	8°58	1°34	13°24	12°13	7°36	n.a.	M29
T 30	2 17 43	3°21'58	20°54	26°43	20°13	9°38	28°28	23°28	28°13	9° 0	1°35	13°25	12°10	7°43	n.a.	T 30
W31	2 21 39	4♏22'54	3♈25	28♎18	21♐ 9	10♑ 6	28♉21	23♓25	28♉14	9♎ 2	1♒35	13♎26	12♎ 7	7♊49	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	1s39	8s42	3n45	7n 9	1n42	20s52	2s55	22n43	1n20	19n48	0s44	4s26	2s50	21s26	0s40	1s27	1n53	31s32	11s50	5s22	5s28	17n21			n.a.
T 2	2 3	4 48	2 49	7 0	1 50	21 13	2 58	22 38	1 21	19 47	0 44	4 28	2 50	21 26	0 40	1 28	1 53	31 32	11 50	5 21	5 27	17 22			n.a.
W 3	2 27	0 44	1 45	6 47	1 57	21 33	3 1	22 33	1 22	19 47	0 44	4 30	2 50	21 26	0 40	1 29	1 53	31 32	11 50	5 21	5 26	17 23			n.a.
T 4	2 51	3n18	0 36	6 30	2 2	21 53	3 4	22 28	1 23	19 46	0 44	4 32	2 50	21 26	0 40	1 30	1 53	31 32	11 50	5 21	5 24	17 23			n.a.
F 5	3 15	7 7	0s32	6 9	2 6	22 12	3 7	22 22	1 24	19 46	0 44	4 33	2 50	21 26	0 40	1 31	1 53	31 32	11 50	5 21	5 23	17 24			n.a.
S 6	3 39	10 35	1 39	5 45	2 8	22 30	3 9	22 17	1 25	19 45	0 44	4 35	2 50	21 26	0 40	1 32	1 53	31 32	11 49	5 21	5 22	17 25			n.a.
S 7	4 3	13 33	2 40	5 18	2 10	22 48	3 12	22 11	1 26	19 45	0 44	4 37	2 50	21 26	0 40	1 33	1 53	31 31	11 49	5 21	5 21	17 25			n.a.
M 8	4 27	15 54	3 33	4 48	2 10	23 6	3 14	22 6	1 27	19 44	0 44	4 39	2 50	21 26	0 40	1 34	1 53	31 31	11 49	5 21	5 19	17 26			n.a.
T 9	4 51	17 34	4 17	4 16	2 10	23 23	3 17	22 0	1 28	19 43	0 44	4 40	2 50	21 26	0 40	1 35	1 53	31 31	11 49	5 21	5 18	17 27			n.a.
W10	5 15	18 27	4 50	3 41	2 9	23 39	3 19	21 55	1 29	19 43	0 44	4 42	2 50	21 26	0 40	1 36	1 53	31 31	11 48	5 22	5 17	17 27			n.a.
T 11	5 38	18 32	5 10	3 6	2 7	23 55	3 21	21 49	1 30	19 42	0 44	4 44	2 50	21 26	0 40	1 36	1 53	31 31	11 48	5 22	5 16	17 28			n.a.
F 12	6 2	17 48	5 18	2 28	2 5	24 10	3 23	21 43	1 31	19 41	0 44	4 45	2 50	21 26	0 40	1 37	1 53	31 31	11 48	5 21	5 14	17 29			n.a.
S 13	6 25	16 14	5 11	1 50	2 2	24 24	3 25	21 37	1 32	19 40	0 44	4 47	2 50	21 26	0 40	1 38	1 53	31 30	11 48	5 22	5 13	17 29			n.a.
S 14	6 49	13 52	4 50	1 10	1 58	24 38	3 27	21 31	1 33	19 39	0 44	4 49	2 49	21 26	0 40	1 39	1 53	31 30	11 47	5 22	5 12	17 30			n.a.
M15	7 12	10 47	4 13	0 29	1 54	24 52	3 29	21 25	1 34	19 38	0 44	4 50	2 49	21 26	0 40	1 40	1 53	31 30	11 47	5 22	5 11	17 30			n.a.
T 16	7 36	7 3	3 23	0s12	1 49	25 4	3 30	21 19	1 36	19 38	0 44	4 52	2 49	21 26	0 40	1 41	1 53	31 30	11 47	5 22	5 9	17 31			n.a.
W17	7 59	2 51	2 19	0 53	1 45	25 17	3 31	21 13	1 37	19 37	0 44	4 53	2 49	21 26	0 40	1 42	1 53	31 29	11 47	5 22	5 8	17 32			n.a.
T 18	8 22	1s39	1 5	1 36	1 39	25 28	3 33	21 7	1 38	19 36	0 44	4 55	2 49	21 26	0 40	1 43	1 53	31 29	11 46	5 22	5 7	17 32			n.a.
F 19	8 45	6 11	0n15	2 18	1 34	25 39	3 34	21 1	1 39	19 35	0 44	4 56	2 49	21 26	0 40	1 43	1 53	31 29	11 46	5 22	5 6	17 33			n.a.
S 20	9 8	10 25	1 35	3 1	1 28	25 49	3 35	20 55	1 40	19 33	0 44	4 58	2 49	21 25	0 39	1 44	1 53	31 29	11 46	5 22	5 4	17 34			n.a.
S 21	9 30	14 2	2 49	3 43	1 22	25 59	3 36	20 48	1 41	19 32	0 44	4 59	2 48	21 25	0 39	1 45	1 53	31 29	11 46	5 22	5 3	17 34			n.a.
M22	9 53	16 43	3 53	4 26	1 16	26 8	3 36	20 42	1 42	19 31	0 44	5 0	2 48	21 25	0 39	1 46	1 53	31 28	11 45	5 21	5 2	17 35			n.a.
T 23	10 15	18 16	4 40	5 9	1 10	26 16	3 37	20 36	1 44	19 30	0 44	5 2	2 48	21 25	0 39	1 47	1 53	31 28	11 45	5 21	5 1	17 35			n.a.
W24	10 37	18 35	5 8	5 52	1 4	26 24	3 37	20 29	1 45	19 29	0 44	5 3	2 48	21 25	0 39	1 48	1 53	31 28	11 45	5 20	4 59	17 36			n.a.
T 25	10 59	17 42	5 16	6 34	0 57	26 31	3 38	20 23	1 46	19 27	0 44	5 4	2 48	21 25	0 39	1 48	1 53	31 27	11 45	5 20	4 58	17 37			n.a.
F 26	11 21	15 45	5 6	7 16	0 51	26 37	3 38	20 16	1 47	19 26	0 43	5 6	2 48	21 25	0 39	1 49	1 53	31 27	11 44	5 20	4 57	17 37			n.a.
S 27	11 43	12 58	4 38	7 58	0 44	26 43	3 37	20 10	1 48	19 25	0 43	5 7	2 47	21 24	0 39	1 50	1 53	31 27	11 44	5 20	4 56	17 38			n.a.
S 28	12 4	9 34	3 56	8 40	0 38	26 48	3 37	20 4	1 50	19 23	0 43	5 8	2 47	21 24	0 39	1 51	1 53	31 27	11 44	5 20	4 54	17 38			n.a.
M29	12 26	5 47	3 3	9 22	0 31	26 53	3 37	19 57	1 51	19 22	0 43	5 9	2 47	21 24	0 39	1 52	1 53	31 26	11 44	5 21	4 53	17 39			n.a.
T 30	12 47	1 48	2 1	10 3	0 24	26 56	3 36	19 51	1 52	19 21	0 43	5 10	2 47	21 24	0 39	1 53	1 53	31 26	11 43	5 21	4 52	17 39			n.a.
W31	13s 8	2n13	0n55	10s43	0n18	27s 0	3s35	19n44	1n53	19n19	0s43	5s11	2s47	21s24	0s39	1s53	1n53	31s26	11s43	5s22	4s51	17n40			n.a.

Julian Day Number = 1654855.5, Delta T = 03h28m58s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°35'03, Lahiri = - 6°28'03 Julian Calendar 1 Oct. 183 BCE == Greg. Calendar 28 Sept. 183 BCE

The year -182 astronomical counting style corresponds to year 183 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 183 BCE
geocentric

NOVEMBER 183 BCE (-182) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 25 36	5♏23'50	15♈45	29♎53	22♐ 4	10♌34	28°R14	23°R22	28♑15	9♎ 4	1♒35	13°R27	12♎ 4	7♊56	n.a.	T 1
F 2	2 29 32	6°24'48	27°56	1♏27	22°58	11° 1	28♉ 7	23♓19	28°16	9° 6	1°36	13♎26	12° 1	8° 3	n.a.	F 2
S 3	2 33 29	7°25'47	9♉59	3° 2	23°52	11°29	28° 0	23°17	28°17	9° 8	1°36	13°24	11°58	8° 9	n.a.	S 3
S 4	2 37 26	8°26'47	21°56	4°36	24°45	11°56	27°53	23°14	28°18	9°10	1°36	13°20	11°54	8°16	n.a.	S 4
M 5	2 41 22	9°27'48	3♊49	6°10	25°37	12°23	27°45	23°11	28°19	9°12	1°37	13°16	11°51	8°23	n.a.	M 5
T 6	2 45 19	10°28'50	15°40	7°45	26°29	12°50	27°38	23° 9	28°21	9°14	1°37	13°11	11°48	8°29	n.a.	T 6
W 7	2 49 15	11°29'53	27°31	9°19	27°20	13°17	27°30	23° 7	28°22	9°16	1°38	13° 6	11°45	8°36	n.a.	W 7
T 8	2 53 12	12°30'58	9♋25	10°53	28°10	13°43	27°23	23° 4	28°23	9°18	1°38	13° 1	11°42	8°43	n.a.	T 8
F 9	2 57 8	13°32'03	21°25	12°28	28°59	14° 9	27°15	23° 2	28°25	9°20	1°39	12°58	11°39	8°50	n.a.	F 9
S 10	3 1 5	14°33'10	3♌35	14° 2	29°48	14°35	27° 7	23° 0	28°26	9°22	1°39	12°56	11°35	8°56	n.a.	S 10
S 11	3 5 1	15°34'17	16° 0	15°36	0♑35	15° 0	26°59	22°58	28°28	9°24	1°40	12°D55	11°32	9° 3	n.a.	S 11
M12	3 8 58	16°35'26	28°44	17°11	1°22	15°26	26°51	22°56	28°29	9°26	1°40	12°56	11°29	9°10	n.a.	M12
T 13	3 12 55	17°36'36	11♍51	18°45	2° 8	15°51	26°44	22°54	28°31	9°28	1°41	12°57	11°26	9°16	n.a.	T 13
W14	3 16 51	18°37'46	25°24	20°20	2°53	16°16	26°36	22°53	28°32	9°30	1°42	12°59	11°23	9°23	n.a.	W14
T 15	3 20 48	19°38'58	9♎26	21°55	3°36	16°40	26°27	22°51	28°34	9°31	1°42	13°R 0	11°19	9°30	n.a.	T 15
F 16	3 24 44	20°40'10	23°54	23°30	4°19	17° 4	26°19	22°50	28°36	9°33	1°43	12°59	11°16	9°36	n.a.	F 16
S 17	3 28 41	21°41'23	8♏47	25° 5	5° 1	17°28	26°11	22°48	28°38	9°35	1°44	12°57	11°13	9°43	n.a.	S 17
S 18	3 32 37	22°42'37	23°56	26°40	5°41	17°52	26° 3	22°47	28°39	9°37	1°45	12°53	11°10	9°50	n.a.	S 18
M19	3 36 34	23°43'51	9♐12	28°15	6°20	18°15	25°55	22°46	28°41	9°39	1°45	12°47	11° 7	9°57	n.a.	M19
T 20	3 40 31	24°45'06	24°23	29°50	6°58	18°38	25°47	22°45	28°43	9°40	1°46	12°40	11° 4	10° 3	n.a.	T 20
W21	3 44 27	25°46'21	9♑21	1♐26	7°35	19° 1	25°39	22°44	28°45	9°42	1°47	12°34	11° 0	10°10	n.a.	W21
T 22	3 48 24	26°47'36	23°57	3° 2	8°10	19°23	25°30	22°43	28°47	9°44	1°48	12°28	10°57	10°17	n.a.	T 22
F 23	3 52 20	27°48'51	8♒ 7	4°38	8°44	19°45	25°22	22°42	28°49	9°45	1°49	12°24	10°54	10°23	n.a.	F 23
S 24	3 56 17	28°50'06	21°48	6°14	9°17	20° 7	25°14	22°42	28°51	9°47	1°50	12°22	10°51	10°30	n.a.	S 24
S 25	4 0 13	29°51'21	5♓ 4	7°50	9°48	20°28	25° 6	22°41	28°53	9°49	1°50	12°D22	10°48	10°37	n.a.	S 25
M26	4 4 10	0♐52'36	17°56	9°26	10°17	20°49	24°58	22°41	28°56	9°50	1°51	12°23	10°44	10°43	n.a.	M26
T 27	4 8 6	1°53'51	0♈30	11° 3	10°44	21°10	24°50	22°41	28°58	9°52	1°52	12°25	10°41	10°50	n.a.	T 27
W28	4 12 3	2°55'06	12°48	12°40	11°10	21°30	24°42	22°41	29° 0	9°53	1°53	12°R25	10°38	10°57	n.a.	W28
T 29	4 16 0	3°56'21	24°55	14°16	11°34	21°50	24°34	22°D41	29° 2	9°55	1°54	12°24	10°35	11° 4	n.a.	T 29
F 30	4 19 56	4♐57'35	6♉54	15♐53	11♑56	22♌10	24♉26	22♓41	29♑ 5	9♎56	1♒55	12♎21	10♎32	11♊10	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13 s28	6n 4	0 s13	11 s23	0n11	27 s 2	3 s34	19n38	1n55	19n18	0 s43	5 s12	2 s46	21 s23	0 s39	1 s54	1n53	31 s25	11 s43	5 s22	4 s49	17n41		n.a.
F 2	13 49	9 38	1 19	12 3	0 4	27 4	3 33	19 31	1 56	19 16	0 43	5 13	2 46	21 23	0 39	1 55	1 53	31 25	11 43	5 22	4 48	17 41		n.a.
S 3	14 9	12 45	2 21	12 42	0 s 2	27 5	3 31	19 25	1 57	19 15	0 43	5 14	2 46	21 23	0 39	1 56	1 53	31 25	11 42	5 21	4 47	17 42		n.a.
S 4	14 29	15 18	3 16	13 21	0 9	27 6	3 30	19 18	1 59	19 13	0 43	5 15	2 46	21 23	0 39	1 56	1 53	31 24	11 42	5 19	4 46	17 42		n.a.
M 5	14 49	17 12	4 2	13 59	0 16	27 6	3 28	19 12	2 0	19 12	0 43	5 16	2 46	21 22	0 39	1 57	1 53	31 24	11 42	5 18	4 44	17 43		n.a.
T 6	15 8	18 20	4 38	14 36	0 22	27 6	3 26	19 5	2 1	19 10	0 43	5 16	2 45	21 22	0 39	1 58	1 53	31 24	11 42	5 16	4 43	17 43		n.a.
W 7	15 27	18 40	5 1	15 13	0 28	27 5	3 23	18 59	2 3	19 8	0 43	5 17	2 45	21 22	0 39	1 59	1 53	31 23	11 41	5 14	4 42	17 44		n.a.
T 8	15 46	18 11	5 12	15 49	0 35	27 3	3 21	18 53	2 4	19 7	0 42	5 18	2 45	21 21	0 39	2 0	1 53	31 23	11 41	5 12	4 41	17 44		n.a.
F 9	16 5	16 54	5 9	16 24	0 41	27 1	3 18	18 46	2 5	19 5	0 42	5 19	2 45	21 21	0 39	2 0	1 54	31 23	11 41	5 11	4 39	17 45		n.a.
S 10	16 23	14 50	4 53	16 59	0 47	26 58	3 15	18 40	2 7	19 3	0 42	5 19	2 44	21 21	0 39	2 1	1 54	31 22	11 41	5 10	4 38	17 46		n.a.
S 11	16 41	12 3	4 22	17 33	0 53	26 54	3 12	18 34	2 8	19 2	0 42	5 20	2 44	21 20	0 39	2 2	1 54	31 22	11 40	5 9	4 37	17 46		n.a.
M12	16 59	8 38	3 38	18 6	0 59	26 50	3 8	18 27	2 10	19 0	0 42	5 20	2 44	21 20	0 39	2 2	1 54	31 21	11 40	5 10	4 36	17 47		n.a.
T 13	17 17	4 43	2 42	18 38	1 5	26 46	3 4	18 21	2 11	18 58	0 42	5 21	2 44	21 20	0 39	2 3	1 54	31 21	11 40	5 10	4 34	17 47		n.a.
W14	17 34	0 24	1 35	19 10	1 10	26 41	3 0	18 15	2 12	18 56	0 42	5 21	2 43	21 19	0 39	2 4	1 54	31 21	11 40	5 11	4 33	17 48		n.a.
T 15	17 51	4 s 4	0 19	19 40	1 16	26 35	2 56	18 9	2 14	18 55	0 42	5 22	2 43	21 19	0 39	2 5	1 54	31 20	11 39	5 11	4 32	17 48		n.a.
F 16	18 7	8 28	0n59	20 10	1 21	26 29	2 51	18 3	2 15	18 53	0 41	5 22	2 43	21 19	0 39	2 5	1 54	31 20	11 39	5 11	4 31	17 49		n.a.
S 17	18 24	12 27	2 16	20 38	1 26	26 23	2 46	17 57	2 17	18 51	0 41	5 22	2 43	21 18	0 39	2 6	1 54	31 20	11 39	5 10	4 29	17 49		n.a.
S 18	18 40	15 41	3 24	21 6	1 31	26 16	2 41	17 51	2 18	18 49	0 41	5 23	2 42	21 18	0 39	2 7	1 54	31 19	11 39	5 9	4 28	17 50		n.a.
M19	18 55	17 50	4 18	21 33	1 35	26 8	2 35	17 45	2 20	18 47	0 41	5 23	2 42	21 17	0 39	2 7	1 54	31 19	11 39	5 6	4 27	17 50		n.a.
T 20	19 10	18 42	4 54	21 58	1 40	26 0	2 29	17 39	2 21	18 46	0 41	5 23	2 42	21 17	0 39	2 8	1 54	31 18	11 38	5 4	4 25	17 51		n.a.
W21	19 25	18 15	5 9	22 23	1 44	25 52	2 23	17 33	2 23	18 44	0 41	5 23	2 42	21 17	0 39	2 8	1 54	31 18	11 38	5 1	4 24	17 51		n.a.
T 22	19 40	16 35	5 3	22 46	1 48	25 43	2 16	17 28	2 24	18 42	0 41	5 23	2 41	21 16	0 39	2 9	1 54	31 17	11 38	4 59	4 23	17 52		n.a.
F 23	19 54	13 57	4 39	23 8	1 51	25 34	2 9	17 22	2 26	18 40	0 41	5 23	2 41	21 16	0 39	2 10	1 54	31 17	11 38	4 57	4 22	17 52		n.a.
S 24	20 8	10 38	3 59	23 29	1 55	25 25	2 2	17 16	2 28	18 38	0 40	5 23	2 41	21 15	0 39	2 10	1 54	31 17	11 37	4 57	4 20	17 53		n.a.
S 25	20 21	6 51	3 8	23 48	1 58	25 15	1 54	17 11	2 29	18 37	0 40	5 23	2 40	21 15	0 38	2 11	1 54	31 16	11 37	4 57	4 19	17 53		n.a.
M26	20 34	2 51	2 8	24 6	2 0	25 5	1 46	17 6	2 31	18 35	0 40	5 23	2 40	21 14	0 38	2 11	1 54	31 16	11 37	4 57	4 18	17 54		n.a.
T 27	20 47	1n10	1 4	24 23	2 3	24 54	1 38	17 1	2 32	18 33	0 40	5 23	2 40	21 14	0 38	2 12	1 54	31 15	11 37	4 57	4 17	17 54		n.a.
W28	20 59	5 5	0 s 2	24 38	2 5	24 43	1 29	16 55	2 34	18 31	0 40	5 23	2 40	21 13	0 38	2 13	1 54	31 15	11 37	4 58	4 15	17 55		n.a.
T 29	21 11	8 43	1 7	24 52	2 6	24 32	1 20	16 50	2 36	18 29	0 40	5 22	2 39	21 13	0 38	2 13	1 54	31 14	11 36	4 57	4 14	17 55		n.a.
F 30	21 s22	11n58	2 s 8	25 s 4	2 s 8	24 s21	1 s11	16n46	2n37	18n28	0 s39	5 s22	2 s39	21 s12	0 s38	2 s14	1n54	31 s14	11 s36	4 s56	4 s13	17n56		n.a.

Julian Day Number = 1654886.5, Delta T = 03h28m57s
Ecliptic obliquity = 23°42'53, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'59, Lahiri = - 6°27'59 Julian Calendar 1 Nov. 183 BCE == Greg. Calendar 29 Oct. 183 BCE

The year -182 astronomical counting style corresponds to year 183 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 183 BCE
geocentric

DECEMBER 183 BCE (-182) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 23 53	5♐58'50	18♉49	17♐30	12♑17	22♌29	24°R18	22♓41	29♑ 7	9♎58	1♒56	12°R15	10♎29	11♊17	n.a.	S 1
S 2	4 27 49	7° 0'04	0♊41	19° 6	12°35	22°47	24♉10	22°41	29° 9	9°59	1°57	12♎ 7	10°25	11°24	n.a.	S 2
M 3	4 31 46	8° 1'19	12°33	20°43	12°51	23° 6	24° 3	22°42	29°12	10° 1	1°59	11°57	10°22	11°30	n.a.	M 3
T 4	4 35 42	9° 2'33	24°25	22°19	13° 5	23°24	23°55	22°42	29°14	10° 2	2° 0	11°45	10°19	11°37	n.a.	T 4
W 5	4 39 39	10° 3'47	6♋19	23°55	13°17	23°41	23°47	22°43	29°17	10° 3	2° 1	11°33	10°16	11°44	n.a.	W 5
T 6	4 43 35	11° 5'01	18°17	25°30	13°26	23°58	23°40	22°44	29°19	10° 5	2° 2	11°22	10°13	11°51	n.a.	T 6
F 7	4 47 32	12° 6'15	0♌21	27° 5	13°34	24°15	23°33	22°45	29°22	10° 6	2° 3	11°12	10°10	11°57	n.a.	F 7
S 8	4 51 29	13° 7'29	12°33	28°38	13°38	24°31	23°25	22°46	29°24	10° 7	2° 4	11° 5	10° 6	12° 4	n.a.	S 8
S 9	4 55 25	14° 8'43	24°57	0♑11	13°41	24°47	23°18	22°47	29°27	10° 8	2° 5	11° 1	10° 3	12°11	n.a.	S 9
M10	4 59 22	15° 9'57	7♍36	1°42	13°R41	25° 2	23°11	22°48	29°30	10°10	2° 7	10°59	10° 0	12°17	n.a.	M10
T 11	5 3 18	16°11'11	20°35	3°11	13°38	25°17	23° 4	22°49	29°33	10°11	2° 8	10°D59	9°57	12°24	n.a.	T 11
W12	5 7 15	17°12'25	3♎57	4°38	13°34	25°31	22°57	22°51	29°35	10°12	2° 9	10°R59	9°54	12°31	n.a.	W12
T 13	5 11 11	18°13'38	17°46	6° 3	13°26	25°45	22°50	22°52	29°38	10°13	2°10	10°59	9°50	12°38	n.a.	T 13
F 14	5 15 8	19°14'51	2♏ 3	7°25	13°16	25°58	22°44	22°54	29°41	10°14	2°12	10°58	9°47	12°44	n.a.	F 14
S 15	5 19 4	20°16'04	16°46	8°43	13° 4	26°11	22°37	22°56	29°44	10°15	2°13	10°53	9°44	12°51	n.a.	S 15
S 16	5 23 1	21°17'17	1♐51	9°56	12°49	26°23	22°31	22°58	29°47	10°16	2°14	10°46	9°41	12°58	n.a.	S 16
M17	5 26 58	22°18'29	17° 9	11° 5	12°31	26°34	22°25	23° 0	29°49	10°17	2°16	10°37	9°38	13° 4	n.a.	M17
T 18	5 30 54	23°19'41	2♑29	12° 8	12°12	26°45	22°19	23° 2	29°52	10°18	2°17	10°26	9°35	13°11	n.a.	T 18
W19	5 34 51	24°20'52	17°39	13° 5	11°50	26°56	22°13	23° 4	29°55	10°19	2°18	10°15	9°31	13°18	n.a.	W19
T 20	5 38 47	25°22'02	2♒29	13°54	11°25	27° 6	22° 7	23° 6	29°58	10°20	2°20	10° 5	9°28	13°24	n.a.	T 20
F 21	5 42 44	26°23'11	16°53	14°35	10°59	27°15	22° 2	23° 9	0♒ 1	10°21	2°21	9°57	9°25	13°31	n.a.	F 21
S 22	5 46 40	27°24'19	0♓46	15° 6	10°30	27°24	21°56	23°11	0° 4	10°22	2°23	9°52	9°22	13°38	n.a.	S 22
S 23	5 50 37	28°25'25	14° 9	15°28	10° 0	27°32	21°51	23°14	0° 7	10°22	2°24	9°49	9°19	13°45	n.a.	S 23
M24	5 54 34	29°26'31	27° 5	15°R39	9°28	27°39	21°46	23°17	0°11	10°23	2°26	9°D49	9°16	13°51	n.a.	M24
T 25	5 58 30	0♑27'35	9♈37	15°39	8°55	27°46	21°41	23°20	0°14	10°24	2°27	9°R49	9°12	13°58	n.a.	T 25
W26	6 2 27	1°28'38	21°52	15°28	8°20	27°52	21°36	23°22	0°17	10°25	2°28	9°48	9° 9	14° 5	n.a.	W26
T 27	6 6 23	2°29'40	3♉55	15° 5	7°45	27°57	21°32	23°26	0°20	10°25	2°30	9°46	9° 6	14°11	n.a.	T 27
F 28	6 10 20	3°30'41	15°49	14°30	7° 8	28° 2	21°27	23°29	0°23	10°26	2°31	9°41	9° 3	14°18	n.a.	F 28
S 29	6 14 16	4°31'40	27°39	13°46	6°31	28° 6	21°23	23°32	0°26	10°26	2°33	9°34	9° 0	14°25	n.a.	S 29
S 30	6 18 13	5°32'39	9♊29	12°52	5°54	28°10	21°19	23°35	0°29	10°27	2°35	9°23	8°56	14°32	n.a.	S 30
M31	6 22 9	6♑33'36	21♊21	11♑50	5♑17	28♌13	21♉15	23♓39	0♒33	10♎28	2♒36	9♎10	8♎53	14♊38	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s33	14n42	3s 3	25s15	2s 8	24s 9	1s 1	16n41	2n39	18n26	0s39	5s22	2s39	21s12	0s38	2s14	1n55	31s14	11s36	4s54	4s12	17n56		n.a.
S 2	21 44	16 48	3 49	25 24	2 9	23 57	0 51	16 36	2 41	18 24	0 39	5 21	2 38	21 11	0 38	2 15	1 55	31 13	11 36	4 51	4 10	17 57		n.a.
M 3	21 54	18 10	4 25	25 31	2 9	23 45	0 40	16 32	2 42	18 22	0 39	5 21	2 38	21 11	0 38	2 15	1 55	31 13	11 36	4 46	4 9	17 57		n.a.
T 4	22 4	18 46	4 50	25 37	2 8	23 33	0 29	16 27	2 44	18 21	0 39	5 20	2 38	21 10	0 38	2 16	1 55	31 12	11 35	4 42	4 8	17 58		n.a.
W 5	22 13	18 31	5 3	25 41	2 7	23 20	0 18	16 23	2 46	18 19	0 38	5 20	2 38	21 10	0 38	2 16	1 55	31 12	11 35	4 37	4 7	17 58		n.a.
T 6	22 22	17 28	5 2	25 43	2 5	23 7	0 6	16 19	2 48	18 17	0 38	5 19	2 37	21 9	0 38	2 17	1 55	31 11	11 35	4 33	4 5	17 59		n.a.
F 7	22 30	15 38	4 47	25 43	2 2	22 54	0n 7	16 15	2 49	18 16	0 38	5 19	2 37	21 8	0 38	2 17	1 55	31 11	11 35	4 29	4 4	17 59		n.a.
S 8	22 38	13 5	4 20	25 41	1 59	22 41	0 19	16 11	2 51	18 14	0 38	5 18	2 37	21 8	0 38	2 18	1 55	31 10	11 35	4 26	4 3	18 0		n.a.
S 9	22 46	9 54	3 40	25 38	1 55	22 28	0 32	16 7	2 53	18 12	0 38	5 17	2 37	21 7	0 38	2 18	1 55	31 10	11 35	4 24	4 2	18 0		n.a.
M10	22 53	6 13	2 48	25 33	1 50	22 15	0 46	16 4	2 55	18 11	0 38	5 17	2 36	21 7	0 38	2 18	1 55	31 9	11 34	4 24	4 0	18 0		n.a.
T 11	22 59	2 9	1 47	25 25	1 45	22 1	0 59	16 1	2 57	18 9	0 37	5 16	2 36	21 6	0 38	2 19	1 55	31 9	11 34	4 24	3 59	18 1		n.a.
W12	23 5	2s10	0 37	25 17	1 39	21 48	1 13	15 58	2 59	18 8	0 37	5 15	2 36	21 6	0 38	2 19	1 55	31 9	11 34	4 24	3 58	18 1		n.a.
T 13	23 11	6 30	0n36	25 6	1 31	21 35	1 28	15 55	3 0	18 6	0 37	5 14	2 35	21 5	0 38	2 20	1 55	31 8	11 34	4 24	3 57	18 2		n.a.
F 14	23 16	10 37	1 49	24 53	1 23	21 21	1 42	15 52	3 2	18 4	0 37	5 13	2 35	21 4	0 38	2 20	1 55	31 8	11 34	4 23	3 55	18 2		n.a.
S 15	23 21	14 12	2 58	24 39	1 14	21 7	1 57	15 49	3 4	18 3	0 36	5 12	2 35	21 4	0 38	2 20	1 55	31 7	11 34	4 21	3 54	18 3		n.a.
S 16	23 25	16 55	3 55	24 24	1 4	20 54	2 12	15 47	3 6	18 2	0 36	5 11	2 35	21 3	0 38	2 21	1 55	31 7	11 33	4 19	3 53	18 3		n.a.
M17	23 29	18 29	4 37	24 7	0 53	20 40	2 27	15 44	3 8	18 0	0 36	5 10	2 34	21 2	0 38	2 21	1 56	31 6	11 33	4 15	3 51	18 4		n.a.
T 18	23 33	18 43	4 59	23 49	0 40	20 27	2 43	15 42	3 10	17 59	0 36	5 9	2 34	21 2	0 38	2 21	1 56	31 6	11 33	4 10	3 50	18 4		n.a.
W19	23 36	17 36	4 59	23 31	0 27	20 14	2 58	15 41	3 12	17 58	0 36	5 8	2 34	21 1	0 38	2 22	1 56	31 5	11 33	4 6	3 49	18 4		n.a.
T 20	23 38	15 18	4 39	23 11	0 13	20 0	3 13	15 39	3 14	17 56	0 35	5 7	2 33	21 0	0 38	2 22	1 56	31 5	11 33	4 2	3 48	18 5		n.a.
F 21	23 40	12 7	4 2	22 52	0n 3	19 47	3 29	15 38	3 16	17 55	0 35	5 5	2 33	21 0	0 38	2 22	1 56	31 4	11 33	3 59	3 46	18 5		n.a.
S 22	23 41	8 21	3 11	22 32	0 19	19 34	3 44	15 36	3 18	17 54	0 35	5 4	2 33	20 59	0 38	2 23	1 56	31 4	11 33	3 57	3 45	18 6		n.a.
S 23	23 42	4 17	2 12	22 12	0 36	19 22	3 59	15 36	3 20	17 53	0 35	5 3	2 33	20 58	0 38	2 23	1 56	31 3	11 32	3 56	3 44	18 6		n.a.
M24	23 43	0 9	1 7	21 53	0 54	19 9	4 14	15 35	3 22	17 52	0 35	5 2	2 32	20 58	0 38	2 23	1 56	31 3	11 32	3 56	3 43	18 7		n.a.
T 25	23 43	3n52	0 1	21 35	1 13	18 57	4 29	15 34	3 24	17 50	0 34	5 0	2 32	20 57	0 38	2 23	1 56	31 2	11 32	3 56	3 41	18 7		n.a.
W26	23 42	7 38	1s 3	21 18	1 31	18 45	4 43	15 34	3 26	17 49	0 34	4 59	2 32	20 56	0 38	2 23	1 56	31 2	11 32	3 56	3 40	18 7		n.a.
T 27	23 41	11 2	2 4	21 2	1 50	18 33	4 57	15 34	3 28	17 48	0 34	4 57	2 32	20 56	0 38	2 24	1 56	31 2	11 32	3 55	3 39	18 8		n.a.
F 28	23 40	13 55	2 58	20 48	2 8	18 22	5 10	15 34	3 30	17 48	0 34	4 56	2 31	20 55	0 38	2 24	1 56	31 1	11 32	3 53	3 38	18 8		n.a.
S 29	23 38	16 14	3 44	20 35	2 26	18 11	5 23	15 35	3 32	17 47	0 33	4 54	2 31	20 54	0 38	2 24	1 56	31 1	11 32	3 50	3 36	18 9		n.a.
S 30	23 36	17 50	4 20	20 24	2 42	18 0	5 35	15 35	3 34	17 46	0 33	4 53	2 31	20 54	0 38	2 24	1 56	31 0	11 32	3 46	3 35	18 9		n.a.
M31	23s33	18n41	4s45	20s15	2n57	17s50	5n46	15n36	3n36	17n45	0s33	4s51	2s31	20s53	0s38	2s24	1n56	31s 0	11s32	3s40	3s34	18n 9		n.a.

Julian Day Number = 1654916.5, Delta T = 03h28m56s
Ecliptic obliquity = 23°42'53, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'55, Lahiri = - 6°27'55 Julian Calendar 1 Dec. 183 BCE == Greg. Calendar 28 Nov. 183 BCE

The year -182 astronomical counting style corresponds to year 183 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 182 BCE
geocentric

JANUARY 182 BCE (-181) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 26 6	7♉34'31	3♋17	10°R42	4°R40	28♌15	21°R11	23♓42	0♒36	10♎28	2♒38	8°R56	8♎50	14♊45	n.a.	T 1
W 2	6 30 3	8°35'26	15°17	9♉30	4♉ 3	28°16	21♉ 8	23°46	0°39	10°29	2°39	8♎40	8°47	14°52	n.a.	W 2
T 3	6 33 59	9°36'19	27°24	8°16	3°27	28°R17	21° 5	23°50	0°42	10°29	2°41	8°26	8°44	14°58	n.a.	T 3
F 4	6 37 56	10°37'12	9♌38	7° 3	2°53	28°16	21° 2	23°54	0°46	10°29	2°42	8°14	8°41	15° 5	n.a.	F 4
S 5	6 41 52	11°38'03	21°59	5°51	2°19	28°16	20°59	23°57	0°49	10°30	2°44	8° 4	8°37	15°12	n.a.	S 5
S 6	6 45 49	12°38'52	4♍31	4°44	1°47	28°14	20°56	24° 1	0°52	10°30	2°45	7°58	8°34	15°19	n.a.	S 6
M 7	6 49 45	13°39'41	17°15	3°42	1°17	28°11	20°54	24° 6	0°56	10°30	2°47	7°54	8°31	15°25	n.a.	M 7
T 8	6 53 42	14°40'29	0♎15	2°47	0°48	28° 8	20°51	24°10	0°59	10°31	2°49	7°53	8°28	15°32	n.a.	T 8
W 9	6 57 38	15°41'15	13°33	1°59	0°22	28° 4	20°49	24°14	1° 2	10°31	2°50	7°53	8°25	15°39	n.a.	W 9
T 10	7 1 35	16°42'01	27°12	1°19	29♐57	28° 0	20°47	24°18	1° 6	10°31	2°52	7°53	8°22	15°45	n.a.	T 10
F 11	7 5 32	17°42'45	11♏14	0°48	29°35	27°54	20°46	24°23	1° 9	10°31	2°54	7°51	8°18	15°52	n.a.	F 11
S 12	7 9 28	18°43'28	25°39	0°24	29°15	27°48	20°44	24°27	1°13	10°31	2°55	7°47	8°15	15°59	n.a.	S 12
S 13	7 13 25	19°44'10	10♐25	0° 9	28°57	27°41	20°43	24°32	1°16	10°31	2°57	7°40	8°12	16° 6	n.a.	S 13
M14	7 17 21	20°44'50	25°26	0° 1	28°42	27°33	20°42	24°37	1°19	10°31	2°58	7°31	8° 9	16°12	n.a.	M14
T 15	7 21 18	21°45'29	10♑33	0°D 0	28°30	27°24	20°41	24°42	1°23	10°R31	3° 0	7°20	8° 6	16°19	n.a.	T 15
W16	7 25 14	22°46'07	25°36	0° 7	28°20	27°14	20°40	24°46	1°26	10°31	3° 2	7° 8	8° 2	16°26	n.a.	W16
T 17	7 29 11	23°46'43	10♒26	0°20	28°12	27° 4	20°40	24°51	1°30	10°31	3° 3	6°58	7°59	16°32	n.a.	T 17
F 18	7 33 7	24°47'17	24°52	0°39	28° 7	26°53	20°39	24°56	1°33	10°31	3° 5	6°50	7°56	16°39	n.a.	F 18
S 19	7 37 4	25°47'49	8♓52	1° 4	28° 4	26°41	20°D39	25° 2	1°37	10°31	3° 7	6°44	7°53	16°46	n.a.	S 19
S 20	7 41 1	26°48'19	22°22	1°33	28°D 4	26°29	20°39	25° 7	1°40	10°31	3° 8	6°41	7°50	16°53	n.a.	S 20
M21	7 44 57	27°48'48	5♈25	2° 8	28° 6	26°15	20°40	25°12	1°43	10°31	3°10	6°D40	7°47	16°59	n.a.	M21
T 22	7 48 54	28°49'14	18° 3	2°47	28°10	26° 1	20°40	25°17	1°47	10°31	3°12	6°41	7°43	17° 6	n.a.	T 22
W23	7 52 50	29°49'38	0♉21	3°31	28°17	25°46	20°41	25°23	1°50	10°30	3°13	6°R41	7°40	17°13	n.a.	W23
T 24	7 56 47	0♒50'00	12°25	4°18	28°26	25°31	20°42	25°28	1°54	10°30	3°15	6°40	7°37	17°19	n.a.	T 24
F 25	8 0 43	1°50'20	24°20	5° 8	28°37	25°15	20°43	25°34	1°57	10°30	3°17	6°37	7°34	17°26	n.a.	F 25
S 26	8 4 40	2°50'38	6♊10	6° 2	28°50	24°58	20°44	25°40	2° 1	10°29	3°19	6°32	7°31	17°33	n.a.	S 26
S 27	8 8 36	3°50'54	18° 1	6°59	29° 6	24°40	20°46	25°45	2° 4	10°29	3°20	6°25	7°28	17°40	n.a.	S 27
M28	8 12 33	4°51'08	29°55	7°58	29°23	24°22	20°47	25°51	2° 8	10°29	3°22	6°15	7°24	17°46	n.a.	M28
T 29	8 16 30	5°51'20	11♋55	9° 0	29°43	24° 3	20°49	25°57	2°11	10°28	3°24	6° 3	7°21	17°53	n.a.	T 29
W30	8 20 26	6°51'30	24° 4	10° 5	0♉ 4	23°44	20°51	26° 3	2°15	10°28	3°25	5°52	7°18	18° 0	n.a.	W30
T 31	8 24 23	7♒51'38	6♌22	11♉12	0♉27	23♌24	20♉54	26♓ 9	2♒18	10♎27	3♒27	5♎41	7♎15	18♊ 6	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	23s30	18n43	4s58	20s 7	3n10	17s41	5n57	15n37	3n38	17n44	0s33	4s49	2s30	20s52	0s38	2s24	1n57	30s59	11s32	3s35	3s32	18n10			n.a.
W 2	23 26	17 54	4 57	20 2	3 21	17 32	6 7	15 39	3 40	17 44	0 33	4 48	2 30	20 51	0 38	2 25	1 57	30 59	11 32	3 29	3 31	18 10			n.a.
T 3	23 22	16 17	4 43	19 58	3 30	17 24	6 16	15 41	3 42	17 43	0 32	4 46	2 30	20 51	0 38	2 25	1 57	30 58	11 31	3 23	3 30	18 10			n.a.
F 4	23 17	13 56	4 16	19 56	3 36	17 16	6 25	15 43	3 44	17 42	0 32	4 44	2 30	20 50	0 38	2 25	1 57	30 58	11 31	3 18	3 29	18 11			n.a.
S 5	23 12	10 55	3 37	19 55	3 40	17 9	6 32	15 45	3 46	17 42	0 32	4 42	2 29	20 49	0 38	2 25	1 57	30 57	11 31	3 14	3 27	18 11			n.a.
S 6	23 6	7 23	2 46	19 56	3 42	17 3	6 39	15 47	3 48	17 41	0 32	4 41	2 29	20 49	0 38	2 25	1 57	30 57	11 31	3 12	3 26	18 12			n.a.
M 7	23 0	3 27	1 47	19 59	3 41	16 57	6 45	15 50	3 50	17 41	0 31	4 39	2 29	20 48	0 38	2 25	1 57	30 56	11 31	3 10	3 25	18 12			n.a.
T 8	22 54	0s43	0 40	20 3	3 38	16 52	6 50	15 53	3 52	17 40	0 31	4 37	2 29	20 47	0 38	2 25	1 57	30 56	11 31	3 10	3 24	18 12			n.a.
W 9	22 47	4 57	0n30	20 8	3 34	16 48	6 55	15 56	3 54	17 40	0 31	4 35	2 28	20 46	0 38	2 25	1 57	30 56	11 31	3 10	3 22	18 13			n.a.
T 10	22 39	9 2	1 40	20 15	3 28	16 44	6 58	16 0	3 56	17 40	0 31	4 33	2 28	20 46	0 38	2 25	1 57	30 55	11 31	3 10	3 21	18 13			n.a.
F 11	22 32	12 44	2 47	20 23	3 20	16 42	7 1	16 4	3 58	17 40	0 31	4 31	2 28	20 45	0 38	2 25	1 57	30 55	11 31	3 9	3 20	18 13			n.a.
S 12	22 23	15 46	3 44	20 31	3 11	16 39	7 3	16 8	4 0	17 39	0 30	4 29	2 28	20 44	0 38	2 25	1 57	30 54	11 31	3 7	3 19	18 14			n.a.
S 13	22 15	17 51	4 28	20 41	3 2	16 38	7 5	16 12	4 2	17 39	0 30	4 27	2 27	20 43	0 38	2 25	1 57	30 54	11 31	3 5	3 17	18 14			n.a.
M14	22 6	18 44	4 54	20 51	2 52	16 37	7 6	16 16	4 4	17 39	0 30	4 25	2 27	20 43	0 38	2 25	1 57	30 53	11 31	3 1	3 16	18 14			n.a.
T 15	21 56	18 18	5 1	21 2	2 41	16 37	7 6	16 21	4 6	17 39	0 30	4 22	2 27	20 42	0 38	2 25	1 57	30 53	11 31	2 56	3 15	18 15			n.a.
W16	21 46	16 35	4 46	21 13	2 30	16 37	7 5	16 26	4 8	17 39	0 29	4 20	2 27	20 41	0 38	2 25	1 58	30 53	11 31	2 52	3 14	18 15			n.a.
T 17	21 36	13 47	4 12	21 24	2 19	16 38	7 4	16 32	4 9	17 39	0 29	4 18	2 26	20 40	0 38	2 25	1 58	30 52	11 31	2 48	3 12	18 16			n.a.
F 18	21 25	10 12	3 22	21 36	2 7	16 40	7 2	16 37	4 11	17 39	0 29	4 16	2 26	20 39	0 38	2 25	1 58	30 52	11 31	2 44	3 11	18 16			n.a.
S 19	21 14	6 9	2 22	21 47	1 55	16 42	7 0	16 43	4 13	17 40	0 29	4 14	2 26	20 39	0 38	2 25	1 58	30 51	11 31	2 42	3 10	18 16			n.a.
S 20	21 2	1 55	1 15	21 59	1 44	16 45	6 57	16 49	4 14	17 40	0 29	4 11	2 26	20 38	0 38	2 24	1 58	30 51	11 31	2 41	3 8	18 17			n.a.
M21	20 50	2n17	0 7	22 10	1 32	16 48	6 54	16 55	4 16	17 40	0 28	4 9	2 26	20 37	0 38	2 24	1 58	30 50	11 31	2 41	3 7	18 17			n.a.
T 22	20 38	6 14	1s 0	22 20	1 21	16 51	6 51	17 1	4 18	17 40	0 28	4 7	2 25	20 36	0 38	2 24	1 58	30 50	11 31	2 41	3 6	18 17			n.a.
W23	20 25	9 49	2 3	22 31	1 9	16 55	6 47	17 8	4 19	17 41	0 28	4 4	2 25	20 36	0 38	2 24	1 58	30 50	11 31	2 41	3 5	18 17			n.a.
T 24	20 12	12 55	2 58	22 40	0 58	17 0	6 43	17 14	4 20	17 41	0 28	4 2	2 25	20 35	0 38	2 24	1 58	30 49	11 31	2 41	3 3	18 18			n.a.
F 25	19 59	15 26	3 45	22 50	0 47	17 4	6 38	17 21	4 22	17 42	0 27	4 0	2 25	20 34	0 38	2 24	1 58	30 49	11 31	2 40	3 2	18 18			n.a.
S 26	19 45	17 17	4 22	22 58	0 37	17 9	6 33	17 28	4 23	17 42	0 27	3 57	2 25	20 33	0 38	2 23	1 58	30 48	11 31	2 37	3 1	18 18			n.a.
S 27	19 31	18 23	4 48	23 6	0 26	17 14	6 28	17 35	4 24	17 43	0 27	3 55	2 24	20 32	0 38	2 23	1 58	30 48	11 31	2 34	3 0	18 19			n.a.
M28	19 16	18 41	5 2	23 13	0 16	17 20	6 23	17 42	4 25	17 44	0 27	3 52	2 24	20 32	0 38	2 23	1 58	30 48	11 31	2 30	2 58	18 19			n.a.
T 29	19 1	18 10	5 2	23 18	0 6	17 26	6 17	17 50	4 26	17 44	0 27	3 50	2 24	20 31	0 38	2 23	1 58	30 47	11 31	2 26	2 57	18 19			n.a.
W30	18 46	16 49	4 48	23 23	0s 4	17 31	6 11	17 57	4 27	17 45	0 26	3 47	2 24	20 30	0 38	2 22	1 58	30 47	11 31	2 21	2 56	18 20			n.a.
T 31	18s31	14n40	4s22	23s27	0s13	17s37	6n 5	18n 5	4n28	17n46	0s26	3s44	2s24	20s29	0s38	2s22	1n59	30s47	11s31	2s17	2s54	18n20			n.a.

Julian Day Number = 1654947.5, Delta T = 03h28m55s
Ecliptic obliquity = 23°42'52, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'51, Lahiri = - 6°27'50 Julian Calendar 1 Jan. 182 BCE == Greg. Calendar 29 Dec. 183 BCE

The year -181 astronomical counting style corresponds to year 182 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 182 BCE
geocentric

FEBRUARY 182 BCE (-181) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 28 19	8♒51'44	18♌49	12♑21	0♑52	23°R 4	20♉56	26♓15	2♒22	10°R27	3♒29	5°R31	7♎12	18♊13	n.a.	F 1
S 2	8 32 16	9°51'48	1♍28	13°32	1°18	22♌43	20°59	26°21	2°25	10♎26	3°30	5♎24	7° 8	18°20	n.a.	S 2
S 3	8 36 12	10°51'50	14°16	14°45	1°46	22°22	21° 2	26°27	2°28	10°25	3°32	5°19	7° 5	18°27	n.a.	S 3
M 4	8 40 9	11°51'50	27°16	16° 0	2°16	22° 0	21° 5	26°33	2°32	10°25	3°34	5°17	7° 2	18°33	n.a.	M 4
T 5	8 44 5	12°51'48	10♎29	17°16	2°48	21°38	21° 8	26°40	2°35	10°24	3°35	5°D17	6°59	18°40	n.a.	T 5
W 6	8 48 2	13°51'45	23°55	18°35	3°20	21°16	21°11	26°46	2°39	10°23	3°37	5°18	6°56	18°47	n.a.	W 6
T 7	8 51 59	14°51'40	7♏35	19°54	3°54	20°53	21°15	26°52	2°42	10°23	3°39	5°19	6°53	18°53	n.a.	T 7
F 8	8 55 55	15°51'33	21°31	21°16	4°30	20°30	21°19	26°59	2°45	10°22	3°40	5°R19	6°49	19° 0	n.a.	F 8
S 9	8 59 52	16°51'25	5♐43	22°38	5° 7	20° 7	21°23	27° 5	2°49	10°21	3°42	5°17	6°46	19° 7	n.a.	S 9
S 10	9 3 48	17°51'15	20° 9	24° 3	5°45	19°44	21°27	27°12	2°52	10°20	3°44	5°13	6°43	19°14	n.a.	S 10
M11	9 7 45	18°51'03	4♑46	25°28	6°24	19°20	21°31	27°19	2°56	10°19	3°45	5° 8	6°40	19°20	n.a.	M11
T 12	9 11 41	19°50'49	19°27	26°55	7° 4	18°57	21°36	27°25	2°59	10°19	3°47	5° 1	6°37	19°27	n.a.	T 12
W13	9 15 38	20°50'33	4♒ 6	28°24	7°46	18°33	21°40	27°32	3° 2	10°18	3°48	4°54	6°34	19°34	n.a.	W13
T 14	9 19 34	21°50'15	18°36	29°53	8°28	18° 9	21°45	27°39	3° 6	10°17	3°50	4°47	6°30	19°40	n.a.	T 14
F 15	9 23 31	22°49'55	2♓50	1♒25	9°12	17°46	21°50	27°46	3° 9	10°16	3°52	4°42	6°27	19°47	n.a.	F 15
S 16	9 27 28	23°49'33	16°42	2°57	9°56	17°23	21°55	27°52	3°12	10°15	3°53	4°38	6°24	19°54	n.a.	S 16
S 17	9 31 24	24°49'09	0♈10	4°30	10°42	16°59	22° 1	27°59	3°16	10°14	3°55	4°D37	6°21	20° 1	n.a.	S 17
M18	9 35 21	25°48'42	13°15	6° 5	11°28	16°36	22° 6	28° 6	3°19	10°13	3°57	4°37	6°18	20° 7	n.a.	M18
T 19	9 39 17	26°48'13	25°56	7°42	12°15	16°14	22°12	28°13	3°22	10°12	3°58	4°39	6°14	20°14	n.a.	T 19
W20	9 43 14	27°47'42	8♉19	9°19	13° 3	15°51	22°18	28°20	3°25	10°11	4° 0	4°40	6°11	20°21	n.a.	W20
T 21	9 47 10	28°47'08	20°27	10°58	13°52	15°29	22°24	28°27	3°29	10°10	4° 1	4°42	6° 8	20°27	n.a.	T 21
F 22	9 51 7	29°46'32	2♊24	12°38	14°41	15° 7	22°30	28°34	3°32	10° 8	4° 3	4°R42	6° 5	20°34	n.a.	F 22
S 23	9 55 3	0♓45'53	14°17	14°19	15°31	14°46	22°36	28°42	3°35	10° 7	4° 4	4°41	6° 2	20°41	n.a.	S 23
S 24	9 59 0	1°45'12	26° 9	16° 2	16°22	14°25	22°42	28°49	3°38	10° 6	4° 6	4°38	5°59	20°48	n.a.	S 24
M25	10 2 56	2°44'29	8♋ 6	17°46	17°14	14° 4	22°49	28°56	3°41	10° 5	4° 7	4°34	5°55	20°54	n.a.	M25
T 26	10 6 53	3°43'43	20°10	19°31	18° 6	13°44	22°56	29° 3	3°44	10° 4	4° 9	4°29	5°52	21° 1	n.a.	T 26
W27	10 10 50	4°42'55	2♌25	21°18	18°59	13°25	23° 3	29°11	3°47	10° 2	4°10	4°24	5°49	21° 8	n.a.	W27
T 28	10 14 46	5♓42'05	14♌53	23♒ 6	19♑52	13♌ 6	23♉10	29♓18	3♒51	10♎ 1	4♒12	4♎19	5♎46	21♊15	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	18s15	11n50	3s42	23s30	0s22	17s43	5n59	18n12	4n29	17n47	0s26	3s42	2s23	20s28	0s38	2s22	1n59	30s46	11s31	2s13	2s53	18n20		n.a.
S 2	17 59	8 25	2 51	23 32	0 31	17 50	5 53	18 20	4 29	17 48	0 26	3 39	2 23	20 28	0 38	2 22	1 59	30 46	11 31	2 10	2 52	18 21		n.a.
S 3	17 42	4 34	1 50	23 32	0 39	17 56	5 47	18 28	4 30	17 49	0 26	3 37	2 23	20 27	0 38	2 21	1 59	30 46	11 32	2 8	2 51	18 21		n.a.
M 4	17 26	0 26	0 43	23 32	0 48	18 2	5 40	18 35	4 30	17 50	0 25	3 34	2 23	20 26	0 38	2 21	1 59	30 45	11 32	2 7	2 49	18 21		n.a.
T 5	17 9	3s46	0n28	23 30	0 55	18 8	5 33	18 43	4 31	17 51	0 25	3 31	2 23	20 25	0 38	2 21	1 59	30 45	11 32	2 7	2 48	18 21		n.a.
W 6	16 51	7 51	1 39	23 27	1 3	18 14	5 26	18 51	4 31	17 52	0 25	3 29	2 23	20 25	0 38	2 20	1 59	30 45	11 32	2 8	2 47	18 22		n.a.
T 7	16 34	11 36	2 45	23 22	1 10	18 20	5 20	18 58	4 31	17 53	0 25	3 26	2 22	20 24	0 38	2 20	1 59	30 44	11 32	2 8	2 46	18 22		n.a.
F 8	16 16	14 46	3 43	23 16	1 17	18 26	5 13	19 6	4 31	17 54	0 24	3 23	2 22	20 23	0 38	2 20	1 59	30 44	11 32	2 8	2 44	18 22		n.a.
S 9	15 58	17 6	4 28	23 9	1 23	18 31	5 6	19 13	4 31	17 55	0 24	3 20	2 22	20 22	0 38	2 19	1 59	30 44	11 32	2 7	2 43	18 22		n.a.
S 10	15 39	18 24	4 57	23 0	1 29	18 37	4 59	19 21	4 31	17 57	0 24	3 18	2 22	20 21	0 38	2 19	1 59	30 43	11 32	2 6	2 42	18 23		n.a.
M11	15 21	18 30	5 8	22 50	1 35	18 42	4 51	19 28	4 31	17 58	0 24	3 15	2 22	20 21	0 38	2 19	1 59	30 43	11 32	2 4	2 41	18 23		n.a.
T 12	15 2	17 22	4 58	22 39	1 40	18 47	4 44	19 35	4 30	17 59	0 24	3 12	2 22	20 20	0 38	2 18	1 59	30 43	11 32	2 1	2 39	18 23		n.a.
W13	14 43	15 5	4 29	22 26	1 45	18 52	4 37	19 42	4 30	18 1	0 23	3 9	2 22	20 19	0 38	2 18	1 59	30 42	11 33	1 58	2 38	18 24		n.a.
T 14	14 23	11 53	3 43	22 11	1 49	18 57	4 30	19 49	4 29	18 2	0 23	3 6	2 21	20 18	0 38	2 17	1 59	30 42	11 33	1 55	2 37	18 24		n.a.
F 15	14 4	8 3	2 44	21 55	1 53	19 1	4 23	19 56	4 29	18 4	0 23	3 3	2 21	20 18	0 38	2 17	1 59	30 42	11 33	1 53	2 35	18 24		n.a.
S 16	13 44	3 51	1 36	21 37	1 57	19 5	4 16	20 3	4 28	18 5	0 23	3 1	2 21	20 17	0 38	2 17	1 59	30 41	11 33	1 52	2 34	18 24		n.a.
S 17	13 24	0n26	0 24	21 18	2 1	19 9	4 8	20 9	4 27	18 7	0 23	2 58	2 21	20 16	0 38	2 16	2 0	30 41	11 33	1 51	2 33	18 25		n.a.
M18	13 4	4 34	0s47	20 57	2 3	19 13	4 1	20 15	4 26	18 8	0 23	2 55	2 21	20 15	0 38	2 16	2 0	30 41	11 33	1 51	2 32	18 25		n.a.
T 19	12 43	8 22	1 53	20 35	2 6	19 16	3 54	20 21	4 25	18 10	0 22	2 52	2 21	20 15	0 38	2 15	2 0	30 41	11 33	1 52	2 30	18 25		n.a.
W20	12 23	11 43	2 53	20 11	2 8	19 18	3 47	20 27	4 23	18 12	0 22	2 49	2 21	20 14	0 38	2 15	2 0	30 40	11 34	1 53	2 29	18 25		n.a.
T 21	12 2	14 28	3 44	19 45	2 10	19 21	3 39	20 32	4 22	18 14	0 22	2 46	2 21	20 13	0 38	2 14	2 0	30 40	11 34	1 53	2 28	18 25		n.a.
F 22	11 41	16 34	4 24	19 18	2 11	19 23	3 32	20 38	4 21	18 15	0 22	2 43	2 20	20 12	0 38	2 14	2 0	30 40	11 34	1 53	2 27	18 26		n.a.
S 23	11 20	17 56	4 53	18 49	2 12	19 24	3 25	20 43	4 19	18 17	0 22	2 40	2 20	20 12	0 38	2 13	2 0	30 40	11 34	1 53	2 25	18 26		n.a.
S 24	10 58	18 31	5 9	18 18	2 12	19 25	3 18	20 47	4 17	18 19	0 21	2 37	2 20	20 11	0 38	2 13	2 0	30 39	11 34	1 52	2 24	18 26		n.a.
M25	10 37	18 17	5 11	17 46	2 12	19 26	3 11	20 52	4 16	18 21	0 21	2 34	2 20	20 10	0 38	2 12	2 0	30 39	11 34	1 50	2 23	18 26		n.a.
T 26	10 15	17 14	5 0	17 12	2 11	19 26	3 4	20 56	4 14	18 23	0 21	2 31	2 20	20 9	0 38	2 12	2 0	30 39	11 35	1 48	2 21	18 27		n.a.
W27	9 53	15 22	4 36	16 36	2 10	19 26	2 57	21 0	4 12	18 25	0 21	2 28	2 20	20 9	0 38	2 11	2 0	30 39	11 35	1 46	2 20	18 27		n.a.
T 28	9s32	12n46	3s58	15s59	2s 8	19s26	2n50	21n 4	4n10	18n27	0s21	2s25	2s20	20s 8	0s38	2s11	2n 0	30s39	11s35	1s44	2s19	18n27		n.a.

Julian Day Number = 1654978.5, Delta T = 03h28m54s
Ecliptic obliquity = 23°42'53, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'47, Lahiri = - 6°27'46 Julian Calendar 1 Feb. 182 BCE == Greg. Calendar 29 Jan. 182 BCE

The year -181 astronomical counting style corresponds to year 182 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 182 BCE
geocentric

MARCH 182 BCE (-181) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 18 43	6♓41'12	27♌35	24♒55	20♑46	12°R48	23♉17	29♓25	3♒54	10°R 0	4♒13	4°R15	5♎43	21♊21	n.a.	F 1
S 2	10 22 39	7°40'17	10♍31	26°46	21°41	12♌31	23°24	29°33	3°57	9♎59	4°15	4♎12	5°39	21°28	n.a.	S 2
S 3	10 26 36	8°39'20	23°42	28°38	22°36	12°14	23°32	29°40	4° 0	9°57	4°16	4°10	5°36	21°35	n.a.	S 3
M 4	10 30 32	9°38'21	7♎ 5	0♓32	23°31	11°57	23°39	29°47	4° 3	9°56	4°18	4°D10	5°33	21°41	n.a.	M 4
T 5	10 34 29	10°37'20	20°41	2°27	24°27	11°42	23°47	29°55	4° 5	9°55	4°19	4°11	5°30	21°48	n.a.	T 5
W 6	10 38 25	11°36'17	4♏27	4°23	25°24	11°27	23°55	0♈ 2	4° 8	9°53	4°20	4°12	5°27	21°55	n.a.	W 6
T 7	10 42 22	12°35'13	18°23	6°21	26°21	11°13	24° 3	0°10	4°11	9°52	4°22	4°13	5°24	22° 2	n.a.	T 7
F 8	10 46 18	13°34'06	2♐27	8°20	27°19	10°59	24°11	0°17	4°14	9°50	4°23	4°14	5°20	22° 8	n.a.	F 8
S 9	10 50 15	14°32'58	16°37	10°20	28°17	10°47	24°19	0°25	4°17	9°49	4°25	4°R15	5°17	22°15	n.a.	S 9
S 10	10 54 12	15°31'48	0♑51	12°21	29°15	10°35	24°28	0°33	4°20	9°48	4°26	4°14	5°14	22°22	n.a.	S 10
M11	10 58 8	16°30'36	15° 8	14°24	0♒14	10°23	24°36	0°40	4°23	9°46	4°27	4°13	5°11	22°28	n.a.	M11
T 12	11 2 5	17°29'22	29°23	16°28	1°13	10°13	24°45	0°48	4°25	9°45	4°29	4°11	5° 8	22°35	n.a.	T 12
W13	11 6 1	18°28'07	13♒33	18°32	2°12	10° 3	24°53	0°55	4°28	9°43	4°30	4° 9	5° 5	22°42	n.a.	W13
T 14	11 9 58	19°26'49	27°35	20°38	3°12	9°55	25° 2	1° 3	4°31	9°42	4°31	4° 7	5° 1	22°49	n.a.	T 14
F 15	11 13 54	20°25'30	11♓23	22°44	4°12	9°47	25°11	1°11	4°33	9°40	4°32	4° 5	4°58	22°55	n.a.	F 15
S 16	11 17 51	21°24'08	24°56	24°50	5°13	9°39	25°20	1°18	4°36	9°39	4°34	4° 4	4°55	23° 2	n.a.	S 16
S 17	11 21 47	22°22'45	8♈11	26°57	6°14	9°33	25°30	1°26	4°39	9°37	4°35	4°D 4	4°52	23° 9	n.a.	S 17
M18	11 25 44	23°21'19	21° 7	29° 3	7°15	9°27	25°39	1°34	4°41	9°36	4°36	4° 5	4°49	23°15	n.a.	M18
T 19	11 29 41	24°19'51	3♉45	1♈ 9	8°16	9°22	25°49	1°42	4°44	9°34	4°37	4° 6	4°45	23°22	n.a.	T 19
W20	11 33 37	25°18'22	16° 7	3°15	9°18	9°18	25°58	1°49	4°46	9°32	4°38	4° 7	4°42	23°29	n.a.	W20
T 21	11 37 34	26°16'49	28°16	5°20	10°20	9°15	26° 8	1°57	4°49	9°31	4°40	4° 7	4°39	23°36	n.a.	T 21
F 22	11 41 30	27°15'15	10♊16	7°23	11°22	9°13	26°18	2° 5	4°51	9°29	4°41	4° 8	4°36	23°42	n.a.	F 22
S 23	11 45 27	28°13'39	22°10	9°25	12°25	9°11	26°27	2°13	4°54	9°28	4°42	4° 8	4°33	23°49	n.a.	S 23
S 24	11 49 23	29°12'00	4♋ 3	11°25	13°28	9°10	26°37	2°20	4°56	9°26	4°43	4°R 8	4°30	23°56	n.a.	S 24
M25	11 53 20	0♈10'19	16° 0	13°22	14°31	9°D10	26°47	2°28	4°58	9°25	4°44	4° 8	4°26	24° 3	n.a.	M25
T 26	11 57 16	1° 8'36	28° 6	15°17	15°34	9°11	26°58	2°36	5° 1	9°23	4°45	4° 8	4°23	24° 9	n.a.	T 26
W27	12 1 13	2° 6'51	10♌23	17° 9	16°38	9°12	27° 8	2°44	5° 3	9°21	4°46	4° 8	4°20	24°16	n.a.	W27
T 28	12 5 9	3° 5'04	22°57	18°59	17°41	9°14	27°18	2°51	5° 5	9°20	4°47	4° 7	4°17	24°23	n.a.	T 28
F 29	12 9 6	4° 3'15	5♍49	20°45	18°45	9°17	27°29	2°59	5° 7	9°18	4°48	4°D 7	4°14	24°29	n.a.	F 29
S 30	12 13 3	5° 1'23	19° 0	22°27	19°49	9°20	27°39	3° 7	5° 9	9°16	4°49	4° 7	4°10	24°36	n.a.	S 30
S 31	12 16 59	5♈59'30	2♎30	24♈ 6	20♒54	9♌25	27♉50	3♈15	5♒11	9♎15	4♒50	4°R 7	4♎ 7	24♊43	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	9s10	9n32	3s 7	15s20	2s 6	19s24	2n43	21n 7	4n 8	18n29	0s20	2s22	2s20	20s 7	0s38	2s10	2n 0	30s38	11s35	1s42	2s18	18n27		n.a.
S 2	8 47	5 46	2 6	14 39	2 3	19 23	2 36	21 10	4 6	18 31	0 20	2 19	2 20	20 7	0 38	2 9	2 0	30 38	11 35	1 41	2 16	18 27		n.a.
S 3	8 25	1 39	0 57	13 57	2 0	19 21	2 29	21 13	4 4	18 33	0 20	2 16	2 20	20 6	0 38	2 9	2 0	30 38	11 36	1 41	2 15	18 28		n.a.
M 4	8 3	2s36	0n16	13 13	1 56	19 18	2 22	21 16	4 2	18 35	0 20	2 13	2 19	20 5	0 38	2 8	2 0	30 38	11 36	1 40	2 14	18 28		n.a.
T 5	7 40	6 47	1 30	12 27	1 52	19 15	2 16	21 18	4 0	18 37	0 20	2 10	2 19	20 5	0 38	2 8	2 0	30 38	11 36	1 41	2 13	18 28		n.a.
W 6	7 17	10 39	2 39	11 40	1 47	19 12	2 9	21 20	3 57	18 39	0 20	2 7	2 19	20 4	0 38	2 7	2 0	30 38	11 36	1 41	2 11	18 28		n.a.
T 7	6 55	13 59	3 40	10 51	1 41	19 7	2 2	21 22	3 55	18 41	0 19	2 3	2 19	20 3	0 38	2 7	2 0	30 37	11 36	1 42	2 10	18 28		n.a.
F 8	6 32	16 30	4 28	10 1	1 36	19 3	1 56	21 24	3 53	18 43	0 19	2 0	2 19	20 3	0 38	2 6	2 0	30 37	11 37	1 42	2 9	18 29		n.a.
S 9	6 9	18 3	5 1	9 9	1 29	18 58	1 49	21 25	3 50	18 46	0 19	1 57	2 19	20 2	0 38	2 5	2 0	30 37	11 37	1 42	2 7	18 29		n.a.
S 10	5 46	18 28	5 15	8 16	1 22	18 52	1 43	21 26	3 48	18 48	0 19	1 54	2 19	20 1	0 38	2 5	2 0	30 37	11 37	1 42	2 6	18 29		n.a.
M11	5 23	17 43	5 10	7 21	1 14	18 46	1 36	21 27	3 45	18 50	0 19	1 51	2 19	20 1	0 39	2 4	2 0	30 37	11 37	1 42	2 5	18 29		n.a.
T 12	5 0	15 52	4 45	6 25	1 6	18 39	1 30	21 27	3 43	18 52	0 19	1 48	2 19	20 0	0 39	2 4	2 0	30 37	11 38	1 41	2 4	18 29		n.a.
W13	4 37	13 3	4 4	5 28	0 58	18 32	1 24	21 27	3 40	18 55	0 18	1 45	2 19	19 59	0 39	2 3	2 1	30 37	11 38	1 40	2 2	18 30		n.a.
T 14	4 13	9 31	3 8	4 30	0 49	18 24	1 18	21 27	3 38	18 57	0 18	1 42	2 19	19 59	0 39	2 2	2 1	30 37	11 38	1 39	2 1	18 30		n.a.
F 15	3 50	5 30	2 2	3 31	0 39	18 16	1 12	21 27	3 35	18 59	0 18	1 39	2 19	19 58	0 39	2 2	2 1	30 37	11 38	1 39	2 0	18 30		n.a.
S 16	3 27	1 16	0 50	2 32	0 29	18 7	1 6	21 27	3 32	19 2	0 18	1 35	2 19	19 57	0 39	2 1	2 1	30 36	11 39	1 38	1 59	18 30		n.a.
S 17	3 3	2n56	0s23	1 31	0 19	17 58	1 0	21 26	3 30	19 4	0 18	1 32	2 19	19 57	0 39	2 1	2 1	30 36	11 39	1 38	1 57	18 30		n.a.
M18	2 40	6 54	1 33	0 31	0 9	17 48	0 54	21 25	3 27	19 6	0 18	1 29	2 19	19 56	0 39	2 0	2 1	30 36	11 39	1 38	1 56	18 30		n.a.
T 19	2 17	10 27	2 37	0n30	0n 2	17 38	0 48	21 24	3 24	19 9	0 17	1 26	2 19	19 56	0 39	1 59	2 1	30 36	11 39	1 39	1 55	18 30		n.a.
W20	1 53	13 28	3 32	1 30	0 13	17 27	0 42	21 22	3 22	19 11	0 17	1 23	2 19	19 55	0 39	1 59	2 1	30 36	11 40	1 39	1 53	18 31		n.a.
T 21	1 30	15 50	4 17	2 31	0 24	17 16	0 37	21 20	3 19	19 14	0 17	1 20	2 19	19 54	0 39	1 58	2 1	30 36	11 40	1 39	1 52	18 31		n.a.
F 22	1 6	17 28	4 50	3 30	0 35	17 4	0 31	21 19	3 17	19 16	0 17	1 17	2 19	19 54	0 39	1 57	2 1	30 36	11 40	1 40	1 51	18 31		n.a.
S 23	0 43	18 19	5 10	4 29	0 47	16 51	0 26	21 17	3 14	19 19	0 17	1 14	2 19	19 53	0 39	1 57	2 1	30 36	11 40	1 40	1 50	18 31		n.a.
S 24	0 19	18 22	5 17	5 27	0 58	16 39	0 21	21 14	3 11	19 21	0 17	1 10	2 19	19 53	0 39	1 56	2 1	30 36	11 41	1 40	1 48	18 31		n.a.
M25	0n 4	17 36	5 10	6 23	1 8	16 25	0 15	21 12	3 9	19 24	0 17	1 7	2 19	19 52	0 39	1 55	2 1	30 36	11 41	1 40	1 47	18 31		n.a.
T 26	0 28	16 3	4 50	7 18	1 19	16 11	0 10	21 9	3 6	19 26	0 16	1 4	2 19	19 52	0 39	1 55	2 1	30 36	11 41	1 40	1 46	18 31		n.a.
W27	0 51	13 44	4 16	8 11	1 29	15 57	0 5	21 6	3 3	19 29	0 16	1 1	2 19	19 51	0 39	1 54	2 1	30 36	11 42	1 39	1 44	18 32		n.a.
T 28	1 14	10 44	3 29	9 2	1 39	15 42	0 0	21 3	3 1	19 31	0 16	0 58	2 19	19 51	0 39	1 53	2 1	30 36	11 42	1 39	1 43	18 32		n.a.
F 29	1 38	7 9	2 31	9 52	1 49	15 27	0s 5	21 0	2 58	19 34	0 16	0 55	2 19	19 50	0 39	1 53	2 1	30 36	11 42	1 39	1 42	18 32		n.a.
S 30	2 1	3 8	1 23	10 39	1 57	15 11	0 9	20 56	2 56	19 36	0 16	0 52	2 19	19 50	0 39	1 52	2 1	30 36	11 42	1 39	1 41	18 32		n.a.
S 31	2n24	1s 9	0s 9	11n24	2n 6	14s55	0s14	20n53	2n53	19n39	0s16	0s49	2s19	19s49	0s39	1s51	2n 1	30s36	11s43	1s39	1s39	18n32		n.a.

Julian Day Number = 1655006.5, Delta T = 03h28m54s
Ecliptic obliquity = 23°42'53, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'43, Lahiri = - 6°27'42 Julian Calendar 1 March 182 BCE == Greg. Calendar 26 Feb. 182 BCE

The year -181 astronomical counting style corresponds to year 182 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 182 BCE
geocentric

APRIL 182 BCE (-181) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 20 56	6♈57'35	16♎18	25♈41	21♒58	9♌30	28♉ 1	3♈22	5♒13	9°R13	4♒51	4°R 7	4♎ 4	24♊50	n.a.	M 1
T 2	12 24 52	7°55'38	0♏21	27°12	23° 3	9°35	28°12	3°30	5°15	9♎12	4°52	4♎ 7	4° 1	24°56	n.a.	T 2
W 3	12 28 49	8°53'40	14°35	28°39	24° 8	9°41	28°22	3°38	5°17	9°10	4°53	4° 7	3°58	25° 3	n.a.	W 3
T 4	12 32 45	9°51'40	28°56	0♉ 2	25°13	9°48	28°33	3°46	5°19	9° 8	4°54	4° 6	3°55	25°10	n.a.	T 4
F 5	12 36 42	10°49'39	13♐19	1°21	26°18	9°56	28°44	3°53	5°21	9° 7	4°54	4° 5	3°51	25°16	n.a.	F 5
S 6	12 40 38	11°47'36	27°39	2°36	27°24	10° 4	28°56	4° 1	5°23	9° 5	4°55	4° 5	3°48	25°23	n.a.	S 6
S 7	12 44 35	12°45'32	11♑55	3°46	28°30	10°13	29° 7	4° 9	5°25	9° 3	4°56	4°D 5	3°45	25°30	n.a.	S 7
M 8	12 48 32	13°43'27	26° 2	4°52	29°35	10°22	29°18	4°16	5°27	9° 2	4°57	4° 5	3°42	25°37	n.a.	M 8
T 9	12 52 28	14°41'20	10♒ 0	5°53	0♓41	10°32	29°30	4°24	5°28	9° 0	4°58	4° 6	3°39	25°43	n.a.	T 9
W10	12 56 25	15°39'12	23°46	6°50	1°48	10°43	29°41	4°32	5°30	8°58	4°58	4° 6	3°36	25°50	n.a.	W10
T 11	13 0 21	16°37'03	7♓20	7°42	2°54	10°54	29°53	4°39	5°32	8°57	4°59	4° 7	3°32	25°57	n.a.	T 11
F 12	13 4 18	17°34'52	20°42	8°29	4° 0	11° 6	0♊ 4	4°47	5°33	8°55	5° 0	4° 8	3°29	26° 4	n.a.	F 12
S 13	13 8 14	18°32'39	3♈50	9°12	5° 7	11°19	0°16	4°55	5°35	8°54	5° 0	4°R 9	3°26	26°10	n.a.	S 13
S 14	13 12 11	19°30'25	16°45	9°50	6°14	11°32	0°28	5° 2	5°36	8°52	5° 1	4° 8	3°23	26°17	n.a.	S 14
M15	13 16 7	20°28'10	29°26	10°23	7°20	11°45	0°39	5°10	5°38	8°50	5° 2	4° 7	3°20	26°24	n.a.	M15
T 16	13 20 4	21°25'54	11♉54	10°51	8°27	11°59	0°51	5°17	5°39	8°49	5° 2	4° 5	3°16	26°30	n.a.	T 16
W17	13 24 0	22°23'35	24°11	11°15	9°34	12°14	1° 3	5°25	5°41	8°47	5° 3	4° 2	3°13	26°37	n.a.	W17
T 18	13 27 57	23°21'16	6♊17	11°33	10°42	12°29	1°15	5°33	5°42	8°46	5° 3	3°59	3°10	26°44	n.a.	T 18
F 19	13 31 54	24°18'54	18°15	11°47	11°49	12°44	1°27	5°40	5°43	8°44	5° 4	3°57	3° 7	26°51	n.a.	F 19
S 20	13 35 50	25°16'31	0♋ 8	11°55	12°56	13° 0	1°39	5°48	5°44	8°43	5° 4	3°54	3° 4	26°57	n.a.	S 20
S 21	13 39 47	26°14'07	12° 1	11°R59	14° 4	13°17	1°52	5°55	5°46	8°41	5° 5	3°52	3° 1	27° 4	n.a.	S 21
M22	13 43 43	27°11'41	23°57	11°58	15°12	13°34	2° 4	6° 2	5°47	8°40	5° 5	3°D51	2°57	27°11	n.a.	M22
T 23	13 47 40	28° 9'14	6♌ 1	11°52	16°19	13°52	2°16	6°10	5°48	8°38	5° 6	3°52	2°54	27°17	n.a.	T 23
W24	13 51 36	29° 6'45	18°18	11°42	17°27	14°10	2°28	6°17	5°49	8°36	5° 6	3°53	2°51	27°24	n.a.	W24
T 25	13 55 33	0♉ 4'14	0♍52	11°28	18°35	14°28	2°41	6°25	5°50	8°35	5° 7	3°54	2°48	27°31	n.a.	T 25
F 26	13 59 29	1° 1'42	13°46	11°10	19°43	14°47	2°53	6°32	5°51	8°33	5° 7	3°56	2°45	27°38	n.a.	F 26
S 27	14 3 26	1°59'08	27° 4	10°48	20°51	15° 6	3° 6	6°39	5°52	8°32	5° 7	3°R57	2°41	27°44	n.a.	S 27
S 28	14 7 23	2°56'34	10♎47	10°23	22° 0	15°26	3°18	6°47	5°53	8°31	5° 8	3°57	2°38	27°51	n.a.	S 28
M29	14 11 19	3°53'58	24°53	9°56	23° 8	15°46	3°31	6°54	5°53	8°29	5° 8	3°55	2°35	27°58	n.a.	M29
T 30	14 15 16	4♉51'21	9♍19	9♉26	24♓16	16♌ 6	3♊44	7♈ 1	5♒54	8♎28	5♒ 8	3♎53	2♎32	28♊ 5	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	2n48	5s27	1n 7	12n 6	2n13	14s38	0s19	20n49	2n51	19n42	0s16	0s46	2s19	19s49	0s39	1s51	2n 1	30s36	11s43	1s39	1s38	18n32		n.a.
T 2	3 11	9 32	2 20	12 46	2 20	14 21	0 23	20 45	2 48	19 44	0 15	0 42	2 19	19 48	0 39	1 50	2 1	30 36	11 43	1 39	1 37	18 32		n.a.
W 3	3 34	13 7	3 26	13 23	2 26	14 4	0 28	20 41	2 45	19 47	0 15	0 39	2 19	19 48	0 39	1 49	2 1	30 36	11 44	1 39	1 36	18 32		n.a.
T 4	3 57	15 56	4 19	13 58	2 31	13 46	0 32	20 37	2 43	19 49	0 15	0 36	2 19	19 47	0 39	1 49	2 1	30 36	11 44	1 39	1 34	18 33		n.a.
F 5	4 20	17 46	4 56	14 31	2 36	13 27	0 36	20 32	2 40	19 52	0 15	0 33	2 19	19 47	0 39	1 48	2 1	30 36	11 44	1 39	1 33	18 33		n.a.
S 6	4 43	18 27	5 15	15 0	2 40	13 9	0 40	20 27	2 38	19 55	0 15	0 30	2 19	19 47	0 39	1 48	2 1	30 37	11 45	1 38	1 32	18 33		n.a.
S 7	5 6	17 58	5 14	15 27	2 42	12 49	0 44	20 23	2 36	19 57	0 15	0 27	2 19	19 46	0 39	1 47	2 1	30 37	11 45	1 38	1 30	18 33		n.a.
M 8	5 29	16 22	4 54	15 52	2 44	12 30	0 48	20 18	2 33	20 0	0 15	0 24	2 19	19 46	0 39	1 46	2 1	30 37	11 45	1 38	1 29	18 33		n.a.
T 9	5 51	13 49	4 17	16 13	2 45	12 10	0 52	20 13	2 31	20 2	0 14	0 21	2 19	19 45	0 39	1 46	2 1	30 37	11 45	1 39	1 28	18 33		n.a.
W10	6 14	10 31	3 25	16 33	2 45	11 49	0 56	20 7	2 28	20 5	0 14	0 18	2 19	19 45	0 39	1 45	2 1	30 37	11 46	1 39	1 27	18 33		n.a.
T 11	6 36	6 42	2 23	16 49	2 44	11 29	0 59	20 2	2 26	20 8	0 14	0 15	2 19	19 45	0 39	1 44	2 1	30 37	11 46	1 39	1 25	18 33		n.a.
F 12	6 59	2 36	1 14	17 3	2 42	11 7	1 3	19 56	2 24	20 10	0 14	0 12	2 19	19 44	0 39	1 44	2 1	30 37	11 46	1 40	1 24	18 33		n.a.
S 13	7 21	1n34	0 2	17 14	2 39	10 46	1 6	19 51	2 21	20 13	0 14	0 9	2 19	19 44	0 40	1 43	2 1	30 37	11 47	1 40	1 23	18 33		n.a.
S 14	7 43	5 36	1s 9	17 22	2 35	10 24	1 9	19 45	2 19	20 15	0 14	0 6	2 19	19 44	0 40	1 42	2 1	30 38	11 47	1 40	1 22	18 33		n.a.
M15	8 5	9 18	2 15	17 28	2 30	10 2	1 12	19 39	2 17	20 18	0 14	0 3	2 19	19 43	0 40	1 42	2 1	30 38	11 47	1 39	1 20	18 34		n.a.
T 16	8 27	12 31	3 14	17 31	2 23	9 40	1 16	19 33	2 14	20 21	0 13	0n 0	2 19	19 43	0 40	1 41	2 1	30 38	11 48	1 38	1 19	18 34		n.a.
W17	8 49	15 7	4 2	17 32	2 16	9 17	1 19	19 26	2 12	20 23	0 13	0 3	2 19	19 43	0 40	1 41	2 1	30 38	11 48	1 37	1 18	18 34		n.a.
T 18	9 10	17 2	4 39	17 30	2 8	8 54	1 21	19 20	2 10	20 26	0 13	0 6	2 19	19 42	0 40	1 40	2 1	30 38	11 48	1 36	1 16	18 34		n.a.
F 19	9 32	18 10	5 3	17 25	1 58	8 30	1 24	19 13	2 8	20 28	0 13	0 9	2 19	19 42	0 40	1 39	2 1	30 38	11 49	1 35	1 15	18 34		n.a.
S 20	9 53	18 29	5 14	17 18	1 48	8 7	1 27	19 6	2 6	20 31	0 13	0 12	2 19	19 42	0 40	1 39	2 1	30 39	11 49	1 34	1 14	18 34		n.a.
S 21	10 14	18 0	5 11	17 8	1 36	7 43	1 29	19 0	2 3	20 34	0 13	0 15	2 19	19 41	0 40	1 38	2 1	30 39	11 49	1 33	1 13	18 34		n.a.
M22	10 35	16 43	4 56	16 56	1 24	7 19	1 32	18 53	2 1	20 36	0 13	0 18	2 20	19 41	0 40	1 38	2 1	30 39	11 50	1 33	1 11	18 34		n.a.
T 23	10 56	14 41	4 26	16 41	1 11	6 54	1 34	18 45	1 59	20 39	0 13	0 21	2 20	19 41	0 40	1 37	2 1	30 39	11 50	1 33	1 10	18 34		n.a.
W24	11 17	11 57	3 45	16 25	0 56	6 29	1 36	18 38	1 57	20 41	0 12	0 23	2 20	19 41	0 40	1 36	2 1	30 39	11 50	1 34	1 9	18 34		n.a.
T 25	11 38	8 37	2 52	16 6	0 41	6 4	1 39	18 31	1 55	20 44	0 12	0 26	2 20	19 41	0 40	1 36	2 1	30 40	11 51	1 34	1 7	18 34		n.a.
F 26	11 58	4 47	1 48	15 46	0 26	5 39	1 41	18 23	1 53	20 47	0 12	0 29	2 20	19 40	0 40	1 35	2 1	30 40	11 51	1 35	1 6	18 34		n.a.
S 27	12 18	0 36	0 38	15 23	0 9	5 14	1 43	18 15	1 51	20 49	0 12	0 32	2 20	19 40	0 40	1 35	2 1	30 40	11 51	1 35	1 5	18 34		n.a.
S 28	12 38	3s44	0n37	15 0	0s 7	4 48	1 44	18 8	1 49	20 52	0 12	0 35	2 20	19 40	0 40	1 34	2 1	30 40	11 52	1 35	1 4	18 34		n.a.
M29	12 58	8 0	1 52	14 35	0 24	4 23	1 46	18 0	1 47	20 54	0 12	0 38	2 20	19 40	0 40	1 34	2 1	30 41	11 52	1 35	1 2	18 34		n.a.
T 30	13n17	11s54	3n 1	14n 9	0s41	3s57	1s48	17n52	1n45	20n57	0s12	0n40	2s20	19s40	0s40	1s33	2n 0	30s41	11s52	1s34	1s 1	18n34		n.a.

Julian Day Number = 1655037.5, Delta T = 03h28m53s
Ecliptic obliquity = 23°42'53, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'39, Lahiri = - 6°27'38 Julian Calendar 1 Apr. 182 BCE == Greg. Calendar 29 March 182 BCE

The year -181 astronomical counting style corresponds to year 182 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 182 BCE
geocentric

MAY 182 BCE (-181) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 19 12	5♉48'43	24♏ 0	8°R54	25♓25	16♌27	3♊56	7♈ 8	5♒55	8°R26	5♒ 8	3°R49	2♎29	28♊11	n.a.	W 1
T 2	14 23 9	6°46'04	8♐48	8♉21	26°34	16°48	4° 9	7°15	5°55	8♎25	5° 9	3♎44	2°26	28°18	n.a.	T 2
F 3	14 27 5	7°43'24	23°35	7°47	27°42	17°10	4°22	7°22	5°56	8°24	5° 9	3°40	2°22	28°25	n.a.	F 3
S 4	14 31 2	8°40'44	8♑15	7°14	28°51	17°32	4°35	7°29	5°57	8°22	5° 9	3°36	2°19	28°31	n.a.	S 4
S 5	14 34 58	9°38'03	22°41	6°41	29°59	17°55	4°47	7°36	5°57	8°21	5° 9	3°33	2°16	28°38	n.a.	S 5
M 6	14 38 55	10°35'21	6♒51	6° 9	1♈ 9	18°17	5° 0	7°43	5°58	8°19	5° 9	3°D32	2°13	28°45	n.a.	M 6
T 7	14 42 52	11°32'39	20°42	5°38	2°18	18°40	5°13	7°50	5°58	8°18	5° 9	3°32	2°10	28°52	n.a.	T 7
W 8	14 46 48	12°29'56	4♓15	5°10	3°27	19° 4	5°26	7°57	5°58	8°17	5° 9	3°33	2° 7	28°58	n.a.	W 8
T 9	14 50 45	13°27'13	17°30	4°44	4°36	19°28	5°39	8° 4	5°59	8°16	5° 9	3°35	2° 3	29° 5	n.a.	T 9
F 10	14 54 41	14°24'29	0♈31	4°22	5°46	19°52	5°52	8°11	5°59	8°14	5°R 9	3°R36	2° 0	29°12	n.a.	F 10
S 11	14 58 38	15°21'44	13°18	4° 2	6°55	20°16	6° 5	8°18	5°59	8°13	5° 9	3°35	1°57	29°19	n.a.	S 11
S 12	15 2 34	16°18'59	25°53	3°47	8° 5	20°41	6°18	8°24	5°59	8°12	5° 9	3°33	1°54	29°25	n.a.	S 12
M13	15 6 31	17°16'13	8♉17	3°35	9°14	21° 6	6°31	8°31	5°59	8°11	5° 9	3°29	1°51	29°32	n.a.	M13
T 14	15 10 27	18°13'27	20°33	3°28	10°24	21°31	6°45	8°38	6° 0	8°10	5° 9	3°23	1°47	29°39	n.a.	T 14
W15	15 14 24	19°10'41	2♊40	3°D25	11°33	21°57	6°58	8°44	6°R 0	8° 8	5° 9	3°15	1°44	29°45	n.a.	W15
T 16	15 18 21	20° 7'53	14°41	3°26	12°43	22°23	7°11	8°51	6° 0	8° 7	5° 9	3° 6	1°41	29°52	n.a.	T 16
F 17	15 22 17	21° 5'05	26°36	3°32	13°53	22°49	7°24	8°57	6° 0	8° 6	5° 9	2°57	1°38	29°59	n.a.	F 17
S 18	15 26 14	22° 2'17	8♋28	3°42	15° 3	23°16	7°38	9° 4	5°59	8° 5	5° 9	2°49	1°35	0♋ 6	n.a.	S 18
S 19	15 30 10	22°59'27	20°19	3°57	16°13	23°43	7°51	9°10	5°59	8° 4	5° 8	2°43	1°32	0°12	n.a.	S 19
M20	15 34 7	23°56'37	2♌14	4°17	17°23	24°10	8° 4	9°16	5°59	8° 3	5° 8	2°38	1°28	0°19	n.a.	M20
T 21	15 38 3	24°53'47	14°16	4°41	18°33	24°37	8°18	9°22	5°59	8° 2	5° 8	2°36	1°25	0°26	n.a.	T 21
W22	15 42 0	25°50'55	26°30	5°10	19°43	25° 5	8°31	9°29	5°58	8° 1	5° 8	2°D35	1°22	0°32	n.a.	W22
T 23	15 45 57	26°48'03	9♍ 0	5°43	20°53	25°33	8°44	9°35	5°58	8° 0	5° 7	2°36	1°19	0°39	n.a.	T 23
F 24	15 49 53	27°45'11	21°52	6°21	22° 3	26° 1	8°58	9°41	5°58	7°59	5° 7	2°37	1°16	0°46	n.a.	F 24
S 25	15 53 50	28°42'17	5♎ 9	7° 3	23°13	26°29	9°11	9°47	5°57	7°58	5° 7	2°R37	1°13	0°53	n.a.	S 25
S 26	15 57 46	29°39'24	18°53	7°49	24°24	26°58	9°24	9°53	5°57	7°57	5° 6	2°36	1° 9	0°59	n.a.	S 26
M27	16 1 43	0♊36'30	3♏ 6	8°40	25°34	27°27	9°38	9°59	5°56	7°57	5° 6	2°33	1° 6	1° 6	n.a.	M27
T 28	16 5 39	1°33'35	17°45	9°35	26°45	27°56	9°51	10° 5	5°56	7°56	5° 5	2°27	1° 3	1°13	n.a.	T 28
W29	16 9 36	2°30'41	2♐43	10°33	27°55	28°25	10° 5	10°10	5°55	7°55	5° 5	2°20	1° 0	1°20	n.a.	W29
T 30	16 13 32	3°27'46	17°52	11°36	29° 6	28°55	10°18	10°16	5°54	7°54	5° 4	2°11	0°57	1°26	n.a.	T 30
F 31	16 17 29	4♊24'52	3♑ 1	12♉43	0♉16	29♌25	10♊32	10♈22	5♒54	7♎53	5♒ 4	2♎ 2	0♎53	1♋33	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	13n37	15s 7	4n 0	13n42	0s59	3s31	1s49	17n43	1n43	20n59	0s12	0n43	2s20	19s40	0s40	1s32	2n 0	30s41	11s53	1s32	1s 0	18n34			n.a.
T 2	13 56	17 22	4 43	13 15	1 16	3 4	1 51	17 35	1 41	21 2	0 12	0 46	2 20	19 39	0 40	1 32	2 0	30 41	11 53	1 30	0 59	18 34			n.a.
F 3	14 15	18 27	5 7	12 49	1 33	2 38	1 52	17 26	1 39	21 4	0 11	0 49	2 21	19 39	0 40	1 31	2 0	30 42	11 53	1 28	0 57	18 34			n.a.
S 4	14 33	18 17	5 10	12 22	1 49	2 11	1 53	17 18	1 37	21 7	0 11	0 51	2 21	19 39	0 40	1 31	2 0	30 42	11 54	1 27	0 56	18 34			n.a.
S 5	14 52	16 57	4 54	11 56	2 5	1 45	1 54	17 9	1 35	21 9	0 11	0 54	2 21	19 39	0 40	1 30	2 0	30 42	11 54	1 26	0 55	18 34			n.a.
M 6	15 10	14 34	4 21	11 32	2 20	1 18	1 55	17 0	1 34	21 12	0 11	0 57	2 21	19 39	0 40	1 30	2 0	30 43	11 55	1 25	0 53	18 34			n.a.
T 7	15 28	11 25	3 32	11 8	2 34	0 51	1 56	16 51	1 32	21 14	0 11	0 59	2 21	19 39	0 40	1 29	2 0	30 43	11 55	1 25	0 52	18 34			n.a.
W 8	15 46	7 42	2 33	10 46	2 47	0 24	1 57	16 42	1 30	21 17	0 11	1 2	2 21	19 39	0 40	1 29	2 0	30 43	11 55	1 26	0 51	18 34			n.a.
T 9	16 3	3 40	1 26	10 26	2 59	0n 3	1 58	16 33	1 28	21 19	0 11	1 5	2 21	19 39	0 40	1 28	2 0	30 43	11 56	1 26	0 50	18 34			n.a.
F 10	16 21	0n28	0 17	10 8	3 11	0 30	1 59	16 23	1 26	21 22	0 11	1 7	2 21	19 39	0 41	1 28	2 0	30 44	11 56	1 27	0 48	18 34			n.a.
S 11	16 38	4 30	0s52	9 52	3 20	0 57	1 59	16 14	1 25	21 24	0 10	1 10	2 22	19 39	0 41	1 28	2 0	30 44	11 56	1 27	0 47	18 34			n.a.
S 12	16 55	8 17	1 58	9 39	3 29	1 25	2 0	16 4	1 23	21 26	0 10	1 12	2 22	19 39	0 41	1 27	2 0	30 44	11 57	1 26	0 46	18 34			n.a.
M13	17 11	11 39	2 56	9 28	3 37	1 52	2 0	15 54	1 21	21 29	0 10	1 15	2 22	19 39	0 41	1 27	2 0	30 45	11 57	1 24	0 44	18 34			n.a.
T 14	17 27	14 28	3 46	9 19	3 43	2 19	2 0	15 45	1 19	21 31	0 10	1 17	2 22	19 39	0 41	1 26	2 0	30 45	11 57	1 21	0 43	18 34			n.a.
W15	17 43	16 36	4 25	9 13	3 48	2 47	2 1	15 35	1 18	21 33	0 10	1 20	2 22	19 39	0 41	1 26	2 0	30 46	11 58	1 18	0 42	18 34			n.a.
T 16	17 59	18 0	4 51	9 10	3 52	3 14	2 1	15 24	1 16	21 36	0 10	1 22	2 22	19 39	0 41	1 25	2 0	30 46	11 58	1 15	0 41	18 34			n.a.
F 17	18 14	18 35	5 5	9 10	3 55	3 41	2 1	15 14	1 14	21 38	0 10	1 25	2 22	19 39	0 41	1 25	2 0	30 46	11 58	1 11	0 39	18 34			n.a.
S 18	18 29	18 22	5 5	9 12	3 56	4 9	2 1	15 4	1 13	21 40	0 10	1 27	2 23	19 39	0 41	1 25	2 0	30 47	11 59	1 8	0 38	18 34			n.a.
S 19	18 44	17 20	4 53	9 16	3 57	4 36	2 0	14 53	1 11	21 43	0 10	1 29	2 23	19 39	0 41	1 24	2 0	30 47	11 59	1 6	0 37	18 34			n.a.
M20	18 58	15 33	4 27	9 24	3 56	5 3	2 0	14 43	1 9	21 45	0 9	1 32	2 23	19 39	0 41	1 24	2 0	30 47	11 59	1 4	0 36	18 34			n.a.
T 21	19 13	13 4	3 50	9 33	3 54	5 30	2 0	14 32	1 8	21 47	0 9	1 34	2 23	19 39	0 41	1 24	2 0	30 48	12 0	1 3	0 34	18 34			n.a.
W22	19 26	9 59	3 1	9 46	3 52	5 58	1 59	14 21	1 6	21 49	0 9	1 36	2 23	19 39	0 41	1 23	2 0	30 48	12 0	1 2	0 33	18 34			n.a.
T 23	19 40	6 23	2 3	10 0	3 48	6 25	1 59	14 10	1 5	21 52	0 9	1 39	2 23	19 39	0 41	1 23	2 0	30 49	12 0	1 3	0 32	18 34			n.a.
F 24	19 53	2 23	0 57	10 17	3 43	6 52	1 58	13 59	1 3	21 54	0 9	1 41	2 24	19 40	0 41	1 23	2 0	30 49	12 1	1 3	0 30	18 34			n.a.
S 25	20 6	1s52	0n14	10 35	3 38	7 18	1 57	13 48	1 2	21 56	0 9	1 43	2 24	19 40	0 41	1 22	1 59	30 49	12 1	1 3	0 29	18 34			n.a.
S 26	20 19	6 9	1 26	10 56	3 32	7 45	1 57	13 36	1 0	21 58	0 9	1 45	2 24	19 40	0 41	1 22	1 59	30 50	12 1	1 3	0 28	18 34			n.a.
M27	20 31	10 15	2 36	11 19	3 25	8 12	1 56	13 25	0 59	22 0	0 9	1 47	2 24	19 40	0 41	1 22	1 59	30 50	12 2	1 1	0 27	18 34			n.a.
T 28	20 43	13 51	3 37	11 43	3 18	8 39	1 55	13 13	0 57	22 3	0 9	1 50	2 24	19 40	0 41	1 21	1 59	30 51	12 2	0 59	0 25	18 34			n.a.
W29	20 54	16 37	4 25	12 10	3 10	9 5	1 54	13 1	0 56	22 5	0 8	1 52	2 25	19 40	0 41	1 21	1 59	30 51	12 2	0 56	0 24	18 34			n.a.
T 30	21 5	18 16	4 54	12 37	3 1	9 31	1 53	12 50	0 54	22 7	0 8	1 54	2 25	19 41	0 41	1 21	1 59	30 51	12 2	0 53	0 23	18 34			n.a.
F 31	21n16	18s37	5n 4	13n 7	2s51	9n57	1s52	12n38	0n53	22n 9	0s 8	1n56	2s25	19s41	0s41	1s21	1n59	30s52	12s 3	0s49	0s21	18n34			n.a.

Julian Day Number = 1655067.5, Delta T = 03h28m52s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'34, Lahiri = - 6°27'34 Julian Calendar 1 May 182 BCE == Greg. Calendar 28 Apr. 182 BCE

The year -181 astronomical counting style corresponds to year 182 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 182 BCE
geocentric

JUNE 182 BCE (-181) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 21 26	5♊21'57	18♉ 1	13♉54	1♉27	29♌55	10♊45	10♈27	5°R53	7°R53	5°R 3	1°R54	0♎50	1♋40	n.a.	S 1
S 2	16 25 22	6°19'03	2♒44	15° 9	2°38	0♍25	10°59	10°33	5♒52	7♎52	5♒ 3	1♎48	0°47	1°46	n.a.	S 2
M 3	16 29 19	7°16'09	17° 3	16°27	3°49	0°56	11°12	10°38	5°51	7°51	5° 2	1°45	0°44	1°53	n.a.	M 3
T 4	16 33 15	8°13'15	0♓57	17°50	5° 0	1°26	11°26	10°43	5°50	7°51	5° 2	1°43	0°41	2° 0	n.a.	T 4
W 5	16 37 12	9°10'22	14°27	19°16	6°10	1°57	11°39	10°49	5°49	7°50	5° 1	1°D43	0°38	2° 7	n.a.	W 5
T 6	16 41 8	10° 7'29	27°35	20°45	7°21	2°28	11°53	10°54	5°48	7°50	5° 1	1°R43	0°34	2°13	n.a.	T 6
F 7	16 45 5	11° 4'37	10♈23	22°19	8°32	3° 0	12° 6	10°59	5°47	7°49	5° 0	1°43	0°31	2°20	n.a.	F 7
S 8	16 49 1	12° 1'45	22°56	23°56	9°44	3°31	12°20	11° 4	5°46	7°49	4°59	1°41	0°28	2°27	n.a.	S 8
S 9	16 52 58	12°58'53	5♉17	25°36	10°55	4° 3	12°33	11° 9	5°45	7°48	4°59	1°37	0°25	2°34	n.a.	S 9
M10	16 56 55	13°56'02	17°29	27°20	12° 6	4°35	12°47	11°14	5°44	7°48	4°58	1°30	0°22	2°40	n.a.	M10
T 11	17 0 51	14°53'11	29°33	29° 7	13°17	5° 7	13° 0	11°19	5°43	7°47	4°57	1°20	0°19	2°47	n.a.	T 11
W12	17 4 48	15°50'21	11♊32	0♊57	14°29	5°39	13°14	11°24	5°41	7°47	4°56	1° 8	0°15	2°54	n.a.	W12
T 13	17 8 44	16°47'31	23°27	2°50	15°40	6°12	13°27	11°29	5°40	7°47	4°56	0°55	0°12	3° 0	n.a.	T 13
F 14	17 12 41	17°44'41	5♋20	4°45	16°51	6°45	13°41	11°33	5°39	7°46	4°55	0°42	0° 9	3° 7	n.a.	F 14
S 15	17 16 37	18°41'52	17°11	6°43	18° 3	7°18	13°54	11°38	5°37	7°46	4°54	0°30	0° 6	3°14	n.a.	S 15
S 16	17 20 34	19°39'03	29° 3	8°44	19°14	7°51	14° 8	11°42	5°36	7°46	4°53	0°19	0° 3	3°21	n.a.	S 16
M17	17 24 30	20°36'15	10♌59	10°46	20°26	8°24	14°21	11°47	5°34	7°45	4°52	0°11	29♍59	3°27	n.a.	M17
T 18	17 28 27	21°33'26	23° 1	12°50	21°38	8°57	14°34	11°51	5°33	7°45	4°52	0° 6	29°56	3°34	n.a.	T 18
W19	17 32 24	22°30'38	5♍14	14°55	22°49	9°31	14°48	11°55	5°31	7°45	4°51	0° 3	29°53	3°41	n.a.	W19
T 20	17 36 20	23°27'51	17°42	17° 2	24° 1	10° 5	15° 1	11°59	5°30	7°45	4°50	0° 2	29°50	3°48	n.a.	T 20
F 21	17 40 17	24°25'03	0♎29	19° 9	25°13	10°39	15°15	12° 3	5°28	7°45	4°49	0° 2	29°47	3°54	n.a.	F 21
S 22	17 44 13	25°22'16	13°41	21°16	26°25	11°13	15°28	12° 7	5°27	7°45	4°48	0° 2	29°44	4° 1	n.a.	S 22
S 23	17 48 10	26°19'30	27°20	23°24	27°36	11°47	15°41	12°11	5°25	7°45	4°47	29♍59	29°40	4° 8	n.a.	S 23
M24	17 52 6	27°16'44	11♏29	25°31	28°48	12°21	15°55	12°15	5°23	7°D45	4°46	29°56	29°37	4°14	n.a.	M24
T 25	17 56 3	28°13'58	26° 6	27°38	0♊ 0	12°56	16° 8	12°18	5°22	7°45	4°45	29°49	29°34	4°21	n.a.	T 25
W26	17 59 59	29°11'13	11♐ 7	29°45	1°12	13°31	16°21	12°22	5°20	7°45	4°44	29°40	29°31	4°28	n.a.	W26
T 27	18 3 56	0♋ 8'29	26°23	1♋50	2°24	14° 6	16°35	12°26	5°18	7°45	4°43	29°30	29°28	4°35	n.a.	T 27
F 28	18 7 53	1° 5'46	11♑43	3°55	3°36	14°41	16°48	12°29	5°16	7°45	4°42	29°19	29°25	4°41	n.a.	F 28
S 29	18 11 49	2° 3'04	26°56	5°58	4°49	15°16	17° 1	12°32	5°14	7°45	4°41	29°10	29°21	4°48	n.a.	S 29
S 30	18 15 46	3♋ 0'22	11♒52	8♋ 1	6♊ 1	15♍51	17♊15	12♈35	5♒12	7♎45	4♒40	29♍ 2	29♍18	4♋55	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n27	17s40	4n52	13n37	2s42	10n23	1s51	12n26	0n51	22n11	0s 8	1n58	2s25	19s41	0s41	1s20	1n59	30s52	12s 3	0s46	0s20	18n34		n.a.
S 2	21 37	15 32	4 21	14 9	2 31	10 49	1 49	12 13	0 50	22 13	0 8	2 0	2 25	19 41	0 41	1 20	1 59	30 53	12 3	0 44	0 19	18 33		n.a.
M 3	21 46	12 30	3 34	14 42	2 20	11 14	1 48	12 1	0 48	22 15	0 8	2 2	2 26	19 42	0 41	1 20	1 59	30 53	12 4	0 42	0 18	18 33		n.a.
T 4	21 56	8 50	2 36	15 16	2 9	11 40	1 47	11 49	0 47	22 17	0 8	2 4	2 26	19 42	0 41	1 20	1 59	30 54	12 4	0 41	0 16	18 33		n.a.
W 5	22 5	4 48	1 31	15 51	1 58	12 5	1 45	11 36	0 45	22 19	0 8	2 6	2 26	19 42	0 41	1 20	1 59	30 54	12 4	0 41	0 15	18 33		n.a.
T 6	22 13	0 38	0 22	16 27	1 46	12 30	1 44	11 24	0 44	22 21	0 8	2 7	2 26	19 42	0 42	1 19	1 59	30 55	12 5	0 42	0 14	18 33		n.a.
F 7	22 22	3n27	0s46	17 3	1 34	12 54	1 42	11 11	0 43	22 23	0 8	2 9	2 26	19 43	0 42	1 19	1 59	30 55	12 5	0 41	0 13	18 33		n.a.
S 8	22 30	7 19	1 50	17 39	1 22	13 19	1 40	10 58	0 41	22 25	0 7	2 11	2 27	19 43	0 42	1 19	1 59	30 55	12 5	0 41	0 11	18 33		n.a.
S 9	22 37	10 48	2 48	18 15	1 10	13 43	1 39	10 45	0 40	22 26	0 7	2 13	2 27	19 43	0 42	1 19	1 59	30 56	12 5	0 39	0 10	18 33		n.a.
M10	22 44	13 46	3 37	18 51	0 57	14 7	1 37	10 32	0 39	22 28	0 7	2 15	2 27	19 44	0 42	1 19	1 59	30 56	12 6	0 36	0 9	18 33		n.a.
T 11	22 51	16 7	4 16	19 27	0 45	14 30	1 35	10 19	0 37	22 30	0 7	2 16	2 27	19 44	0 42	1 19	1 59	30 57	12 6	0 32	0 7	18 33		n.a.
W12	22 57	17 45	4 43	20 3	0 33	14 53	1 33	10 6	0 36	22 32	0 7	2 18	2 27	19 44	0 42	1 19	1 58	30 57	12 6	0 28	0 6	18 33		n.a.
T 13	23 3	18 35	4 58	20 37	0 21	15 16	1 31	9 53	0 35	22 34	0 7	2 20	2 28	19 45	0 42	1 19	1 58	30 58	12 7	0 22	0 5	18 33		n.a.
F 14	23 9	18 37	4 59	21 11	0 9	15 39	1 29	9 39	0 33	22 35	0 7	2 21	2 28	19 45	0 42	1 18	1 58	30 58	12 7	0 17	0 4	18 32		n.a.
S 15	23 14	17 50	4 48	21 43	0n 3	16 1	1 27	9 26	0 32	22 37	0 7	2 23	2 28	19 45	0 42	1 18	1 58	30 59	12 7	0 12	0 2	18 32		n.a.
S 16	23 18	16 17	4 24	22 14	0 14	16 23	1 25	9 12	0 31	22 39	0 7	2 24	2 28	19 46	0 42	1 18	1 58	30 59	12 7	0 8	0 1	18 32		n.a.
M17	23 23	14 1	3 48	22 43	0 25	16 44	1 23	8 58	0 30	22 41	0 7	2 26	2 29	19 46	0 42	1 18	1 58	31 0	12 8	0 4	0n 0	18 32		n.a.
T 18	23 27	11 8	3 2	23 11	0 35	17 5	1 21	8 44	0 28	22 42	0 6	2 27	2 29	19 47	0 42	1 18	1 58	31 0	12 8	0 2	0 1	18 32		n.a.
W19	23 30	7 44	2 7	23 35	0 45	17 26	1 18	8 30	0 27	22 44	0 6	2 29	2 29	19 47	0 42	1 18	1 58	31 1	12 8	0 1	0 3	18 32		n.a.
T 20	23 33	3 55	1 5	23 58	0 54	17 46	1 16	8 16	0 26	22 46	0 6	2 30	2 29	19 47	0 42	1 18	1 58	31 1	12 8	0 1	0 4	18 32		n.a.
F 21	23 36	0s 9	0n 2	24 18	1 2	18 6	1 14	8 2	0 25	22 47	0 6	2 32	2 30	19 48	0 42	1 18	1 58	31 2	12 9	0 1	0 5	18 32		n.a.
S 22	23 38	4 22	1 12	24 36	1 10	18 25	1 11	7 48	0 23	22 49	0 6	2 33	2 30	19 48	0 42	1 18	1 58	31 2	12 9	0 1	0 7	18 31		n.a.
S 23	23 40	8 29	2 19	24 50	1 18	18 44	1 9	7 34	0 22	22 50	0 6	2 34	2 30	19 49	0 42	1 18	1 58	31 2	12 9	0n 0	0 8	18 31		n.a.
M24	23 41	12 17	3 20	25 2	1 24	19 2	1 7	7 19	0 21	22 52	0 6	2 35	2 30	19 49	0 42	1 18	1 58	31 3	12 9	0 2	0 9	18 31		n.a.
T 25	23 42	15 27	4 10	25 11	1 30	19 20	1 4	7 5	0 20	22 53	0 6	2 37	2 31	19 50	0 42	1 19	1 58	31 3	12 10	0 4	0 10	18 31		n.a.
W26	23 43	17 40	4 45	25 17	1 35	19 38	1 2	6 50	0 19	22 55	0 6	2 38	2 31	19 50	0 42	1 19	1 58	31 4	12 10	0 8	0 12	18 31		n.a.
T 27	23 43	18 40	5 0	25 21	1 39	19 55	0 59	6 36	0 17	22 56	0 6	2 39	2 31	19 51	0 42	1 19	1 58	31 4	12 10	0 12	0 13	18 31		n.a.
F 28	23 43	18 19	4 53	25 22	1 42	20 11	0 57	6 21	0 16	22 58	0 5	2 40	2 31	19 51	0 42	1 19	1 58	31 5	12 10	0 16	0 14	18 31		n.a.
S 29	23 42	16 39	4 26	25 20	1 45	20 27	0 54	6 6	0 15	22 59	0 5	2 41	2 32	19 51	0 42	1 19	1 57	31 5	12 11	0 20	0 16	18 30		n.a.
S 30	23n41	13s53	3n41	25n15	1n47	20n43	0s51	5n51	0n14	23n 0	0s 5	2n42	2s32	19s52	0s42	1s19	1n57	31s 6	12s11	0n23	0n17	18n30		n.a.

Julian Day Number = 1655098.5, Delta T = 03h28m51s
Ecliptic obliquity = 23°42'52, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'30, Lahiri = - 6°27'30 Julian Calendar 1 June 182 BCE == Greg. Calendar 29 May 182 BCE

The year -181 astronomical counting style corresponds to year 182 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 182 BCE
geocentric

JULY 182 BCE (-181) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 19 42	3♋57'42	26♒23	10♋ 2	7♊13	16♍27	17♊28	12♈39	5°R11	7♎46	4°R39	28°R57	29♍15	5♋ 1	n.a.	M 1
T 2	18 23 39	4°55'03	10♓26	12° 1	8°25	17° 2	17°41	12°42	5♒ 9	7°46	4♒38	28♍54	29°12	5° 8	n.a.	T 2
W 3	18 27 35	5°52'25	24° 1	13°59	9°38	17°38	17°54	12°45	5° 7	7°46	4°37	28°53	29° 9	5°15	n.a.	W 3
T 4	18 31 32	6°49'48	7♈ 9	15°56	10°50	18°14	18° 7	12°47	5° 5	7°47	4°36	28°53	29° 5	5°22	n.a.	T 4
F 5	18 35 29	7°47'13	19°55	17°51	12° 3	18°50	18°20	12°50	5° 3	7°47	4°35	28°53	29° 2	5°28	n.a.	F 5
S 6	18 39 25	8°44'39	2♉22	19°45	13°15	19°26	18°33	12°53	5° 1	7°47	4°33	28°51	28°59	5°35	n.a.	S 6
S 7	18 43 22	9°42'07	14°36	21°37	14°28	20° 3	18°46	12°55	4°58	7°48	4°32	28°47	28°56	5°42	n.a.	S 7
M 8	18 47 18	10°39'36	26°40	23°27	15°40	20°39	18°59	12°58	4°56	7°48	4°31	28°40	28°53	5°49	n.a.	M 8
T 9	18 51 15	11°37'06	8♊38	25°16	16°53	21°16	19°12	13° 0	4°54	7°49	4°30	28°30	28°50	5°55	n.a.	T 9
W10	18 55 11	12°34'38	20°31	27° 4	18° 6	21°53	19°25	13° 2	4°52	7°49	4°29	28°18	28°46	6° 2	n.a.	W10
T 11	18 59 8	13°32'11	2♋23	28°49	19°19	22°30	19°38	13° 5	4°50	7°50	4°28	28° 5	28°43	6° 9	n.a.	T 11
F 12	19 3 4	14°29'45	14°15	0♌34	20°31	23° 7	19°51	13° 7	4°48	7°50	4°27	27°52	28°40	6°15	n.a.	F 12
S 13	19 7 1	15°27'21	26° 9	2°17	21°44	23°44	20° 4	13° 9	4°45	7°51	4°25	27°39	28°37	6°22	n.a.	S 13
S 14	19 10 58	16°24'58	8♌ 5	3°58	22°57	24°21	20°16	13°10	4°43	7°51	4°24	27°29	28°34	6°29	n.a.	S 14
M15	19 14 54	17°22'36	20° 6	5°38	24°10	24°59	20°29	13°12	4°41	7°52	4°23	27°21	28°30	6°36	n.a.	M15
T 16	19 18 51	18°20'15	2♍14	7°16	25°23	25°36	20°42	13°14	4°39	7°53	4°22	27°16	28°27	6°42	n.a.	T 16
W17	19 22 47	19°17'56	14°31	8°53	26°36	26°14	20°54	13°15	4°36	7°54	4°20	27°13	28°24	6°49	n.a.	W17
T 18	19 26 44	20°15'37	27° 1	10°28	27°49	26°52	21° 7	13°17	4°34	7°54	4°19	27°D12	28°21	6°56	n.a.	T 18
F 19	19 30 40	21°13'20	9♎49	12° 2	29° 3	27°30	21°20	13°18	4°32	7°55	4°18	27°12	28°18	7° 3	n.a.	F 19
S 20	19 34 37	22°11'04	22°57	13°34	0♋16	28° 8	21°32	13°19	4°30	7°56	4°17	27°R13	28°15	7° 9	n.a.	S 20
S 21	19 38 33	23° 8'49	6♏30	15° 5	1°29	28°46	21°44	13°20	4°27	7°57	4°15	27°12	28°11	7°16	n.a.	S 21
M22	19 42 30	24° 6'36	20°29	16°34	2°42	29°24	21°57	13°21	4°25	7°58	4°14	27° 9	28° 8	7°23	n.a.	M22
T 23	19 46 27	25° 4'24	4♐55	18° 2	3°56	0♎ 3	22° 9	13°22	4°22	7°59	4°13	27° 4	28° 5	7°29	n.a.	T 23
W24	19 50 23	26° 2'13	19°45	19°28	5° 9	0°41	22°21	13°23	4°20	8° 0	4°12	26°57	28° 2	7°36	n.a.	W24
T 25	19 54 20	27° 0'04	4♑51	20°53	6°22	1°20	22°34	13°24	4°18	8° 1	4°10	26°49	27°59	7°43	n.a.	T 25
F 26	19 58 16	27°57'56	20° 6	22°16	7°36	1°59	22°46	13°24	4°15	8° 2	4° 9	26°40	27°56	7°50	n.a.	F 26
S 27	20 2 13	28°55'49	5♒18	23°38	8°49	2°38	22°58	13°25	4°13	8° 3	4° 8	26°32	27°52	7°56	n.a.	S 27
S 28	20 6 9	29°53'45	20°17	24°58	10° 3	3°17	23°10	13°25	4°11	8° 4	4° 7	26°26	27°49	8° 3	n.a.	S 28
M29	20 10 6	0♌51'42	4♓53	26°16	11°16	3°56	23°22	13°25	4° 8	8° 5	4° 5	26°22	27°46	8°10	n.a.	M29
T 30	20 14 2	1°49'41	19° 4	27°33	12°30	4°35	23°34	13°26	4° 6	8° 6	4° 4	26°20	27°43	8°16	n.a.	T 30
W31	20 17 59	2♌47'41	2♈45	28♌48	13♋44	5♎15	23♊46	13°R26	4♒ 3	8♎ 7	4♒ 3	26°D20	27♍40	8♋23	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	23n39	10s19	2n43	25n 8	1n49	20n58	0s49	5n36	0n13	23n 2	0s 5	2n43	2s32	19s52	0s42	1s19	1n57	31s 6	12s11	0n25	0n18	18n30			n.a.
T 2	23 37	6 16	1 36	24 59	1 49	21 12	0 46	5 21	0 12	23 3	0 5	2 44	2 32	19 53	0 42	1 19	1 57	31 7	12 11	0 26	0 19	18 30			n.a.
W 3	23 35	2 1	0 26	24 47	1 49	21 26	0 44	5 6	0 11	23 4	0 5	2 45	2 33	19 53	0 42	1 20	1 57	31 7	12 11	0 27	0 21	18 30			n.a.
T 4	23 32	2n12	0s44	24 33	1 49	21 39	0 41	4 51	0 9	23 6	0 5	2 46	2 33	19 54	0 42	1 20	1 57	31 8	12 12	0 27	0 22	18 30			n.a.
F 5	23 29	6 12	1 49	24 17	1 48	21 52	0 38	4 36	0 8	23 7	0 5	2 47	2 33	19 55	0 42	1 20	1 57	31 8	12 12	0 27	0 23	18 29			n.a.
S 6	23 25	9 49	2 47	23 59	1 46	22 4	0 36	4 20	0 7	23 8	0 5	2 48	2 33	19 55	0 42	1 20	1 57	31 9	12 12	0 28	0 24	18 29			n.a.
S 7	23 21	12 57	3 37	23 40	1 44	22 15	0 33	4 5	0 6	23 9	0 5	2 48	2 34	19 56	0 42	1 20	1 57	31 9	12 12	0 29	0 26	18 29			n.a.
M 8	23 17	15 29	4 16	23 18	1 41	22 26	0 30	3 49	0 5	23 11	0 4	2 49	2 34	19 56	0 42	1 21	1 57	31 10	12 12	0 32	0 27	18 29			n.a.
T 9	23 12	17 20	4 43	22 56	1 38	22 36	0 27	3 34	0 4	23 12	0 4	2 50	2 34	19 57	0 42	1 21	1 57	31 10	12 12	0 36	0 28	18 29			n.a.
W10	23 7	18 25	4 58	22 31	1 34	22 46	0 25	3 18	0 3	23 13	0 4	2 50	2 35	19 57	0 42	1 21	1 57	31 11	12 13	0 41	0 30	18 29			n.a.
T 11	23 1	18 42	5 0	22 6	1 30	22 55	0 22	3 2	0 2	23 14	0 4	2 51	2 35	19 58	0 42	1 21	1 57	31 11	12 13	0 46	0 31	18 28			n.a.
F 12	22 55	18 9	4 49	21 39	1 25	23 3	0 19	2 47	0 1	23 15	0 4	2 51	2 35	19 58	0 42	1 22	1 57	31 11	12 13	0 51	0 32	18 28			n.a.
S 13	22 48	16 50	4 25	21 11	1 20	23 11	0 17	2 31	0s 0	23 16	0 4	2 52	2 35	19 59	0 42	1 22	1 57	31 12	12 13	0 56	0 33	18 28			n.a.
S 14	22 42	14 46	3 49	20 42	1 15	23 18	0 14	2 15	0 1	23 17	0 4	2 52	2 36	19 59	0 43	1 22	1 56	31 12	12 13	1 1	0 35	18 28			n.a.
M15	22 34	12 3	3 4	20 12	1 9	23 24	0 11	1 59	0 2	23 18	0 4	2 53	2 36	20 0	0 43	1 23	1 56	31 13	12 13	1 4	0 36	18 28			n.a.
T 16	22 27	8 48	2 9	19 41	1 3	23 29	0 8	1 43	0 3	23 19	0 4	2 53	2 36	20 1	0 43	1 23	1 56	31 13	12 13	1 6	0 37	18 27			n.a.
W17	22 18	5 8	1 7	19 9	0 57	23 34	0 6	1 27	0 4	23 20	0 4	2 54	2 36	20 1	0 43	1 23	1 56	31 14	12 14	1 7	0 39	18 27			n.a.
T 18	22 10	1 11	0 1	18 37	0 50	23 39	0 3	1 11	0 5	23 21	0 3	2 54	2 37	20 2	0 43	1 24	1 56	31 14	12 14	1 8	0 40	18 27			n.a.
F 19	22 1	2s55	1n 7	18 4	0 43	23 42	0 0	0 55	0 6	23 22	0 3	2 54	2 37	20 2	0 43	1 24	1 56	31 15	12 14	1 7	0 41	18 27			n.a.
S 20	21 52	6 58	2 13	17 31	0 36	23 45	0n 2	0 39	0 7	23 23	0 3	2 54	2 37	20 3	0 43	1 24	1 56	31 15	12 14	1 7	0 42	18 27			n.a.
S 21	21 42	10 48	3 13	16 57	0 28	23 47	0 5	0 22	0 8	23 24	0 3	2 55	2 38	20 3	0 43	1 25	1 56	31 15	12 14	1 8	0 44	18 26			n.a.
M22	21 32	14 9	4 5	16 23	0 21	23 49	0 7	0 6	0 9	23 25	0 3	2 55	2 38	20 4	0 43	1 25	1 56	31 16	12 14	1 9	0 45	18 26			n.a.
T 23	21 22	16 44	4 42	15 48	0 13	23 49	0 10	0s10	0 10	23 26	0 3	2 55	2 38	20 5	0 43	1 26	1 56	31 16	12 14	1 11	0 46	18 26			n.a.
W24	21 11	18 18	5 2	15 13	0 5	23 49	0 13	0 27	0 11	23 27	0 3	2 55	2 38	20 5	0 43	1 26	1 56	31 17	12 14	1 13	0 47	18 26			n.a.
T 25	21 0	18 36	5 1	14 38	0s 4	23 49	0 15	0 43	0 12	23 27	0 3	2 55	2 39	20 6	0 43	1 27	1 56	31 17	12 14	1 17	0 49	18 25			n.a.
F 26	20 48	17 35	4 40	14 3	0 12	23 47	0 18	1 0	0 13	23 28	0 3	2 55	2 39	20 6	0 43	1 27	1 56	31 18	12 15	1 20	0 50	18 25			n.a.
S 27	20 37	15 19	3 58	13 28	0 21	23 45	0 20	1 16	0 14	23 29	0 3	2 55	2 39	20 7	0 43	1 27	1 56	31 18	12 15	1 24	0 51	18 25			n.a.
S 28	20 24	12 2	3 1	12 53	0 30	23 42	0 23	1 33	0 15	23 30	0 2	2 55	2 40	20 7	0 43	1 28	1 56	31 18	12 15	1 26	0 53	18 25			n.a.
M29	20 12	8 5	1 52	12 18	0 39	23 39	0 25	1 49	0 16	23 30	0 2	2 54	2 40	20 8	0 43	1 28	1 56	31 19	12 15	1 28	0 54	18 24			n.a.
T 30	19 59	3 47	0 39	11 43	0 48	23 35	0 28	2 6	0 17	23 31	0 2	2 54	2 40	20 9	0 43	1 29	1 56	31 19	12 15	1 28	0 55	18 24			n.a.
W31	19n46	0n35	0s34	11n 8	0s57	23n30	0n30	2s22	0s17	23n32	0s 2	2n54	2s40	20s 9	0s43	1s29	1n55	31s19	12s15	1n28	0n56	18n24			n.a.

Julian Day Number = 1655128.5, Delta T = 03h28m50s
Ecliptic obliquity = 23°42'52, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'26, Lahiri = - 6°27'26 Julian Calendar 1 July 182 BCE == Greg. Calendar 28 June 182 BCE

The year -181 astronomical counting style corresponds to year 182 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 182 BCE
geocentric

AUGUST 182 BCE (-181) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 21 56	3♌45'44	15♈59	0♍ 0	14♋57	5♎54	23♊57	13°R26	4°R 1	8♎ 8	4°R 1	26♍21	27♍36	8♋30	n.a.	T 1
F 2	20 25 52	4°43'49	28°48	1°11	16°11	6°34	24° 9	13♈25	3♒59	8° 9	4♒ 0	26°R22	27°33	8°37	n.a.	F 2
S 3	20 29 49	5°41'56	11♉17	2°20	17°25	7°13	24°21	13°25	3°56	8°11	3°59	26°22	27°30	8°43	n.a.	S 3
S 4	20 33 45	6°40'05	23°31	3°27	18°39	7°53	24°32	13°25	3°54	8°12	3°58	26°20	27°27	8°50	n.a.	S 4
M 5	20 37 42	7°38'16	5♊33	4°32	19°53	8°33	24°44	13°24	3°51	8°13	3°56	26°16	27°24	8°57	n.a.	M 5
T 6	20 41 38	8°36'30	17°28	5°34	21° 7	9°13	24°55	13°24	3°49	8°15	3°55	26°11	27°21	9° 4	n.a.	T 6
W 7	20 45 35	9°34'45	29°19	6°34	22°21	9°53	25° 6	13°23	3°47	8°16	3°54	26° 3	27°17	9°10	n.a.	W 7
T 8	20 49 31	10°33'02	11♋11	7°31	23°35	10°33	25°18	13°22	3°44	8°17	3°52	25°55	27°14	9°17	n.a.	T 8
F 9	20 53 28	11°31'22	23° 5	8°26	24°49	11°14	25°29	13°21	3°42	8°19	3°51	25°46	27°11	9°24	n.a.	F 9
S 10	20 57 24	12°29'43	5♌ 3	9°17	26° 3	11°54	25°40	13°20	3°40	8°20	3°50	25°38	27° 8	9°30	n.a.	S 10
S 11	21 1 21	13°28'06	17° 7	10° 6	27°17	12°35	25°51	13°19	3°37	8°22	3°49	25°32	27° 5	9°37	n.a.	S 11
M12	21 5 18	14°26'32	29°19	10°51	28°31	13°15	26° 2	13°18	3°35	8°23	3°47	25°27	27° 2	9°44	n.a.	M12
T 13	21 9 14	15°24'59	11♍38	11°32	29°46	13°56	26°13	13°16	3°32	8°25	3°46	25°24	26°58	9°51	n.a.	T 13
W14	21 13 11	16°23'28	24° 8	12° 9	1♌ 0	14°37	26°24	13°15	3°30	8°26	3°45	25°D23	26°55	9°57	n.a.	W14
T 15	21 17 7	17°21'58	6♎50	12°42	2°14	15°18	26°34	13°13	3°28	8°28	3°44	25°23	26°52	10° 4	n.a.	T 15
F 16	21 21 4	18°20'31	19°46	13°11	3°29	15°59	26°45	13°12	3°26	8°29	3°42	25°25	26°49	10°11	n.a.	F 16
S 17	21 25 0	19°19'05	2♏59	13°34	4°43	16°40	26°55	13°10	3°23	8°31	3°41	25°26	26°46	10°17	n.a.	S 17
S 18	21 28 57	20°17'41	16°31	13°53	5°57	17°22	27° 6	13° 8	3°21	8°32	3°40	25°R27	26°42	10°24	n.a.	S 18
M19	21 32 53	21°16'19	0♐23	14° 6	7°12	18° 3	27°16	13° 6	3°19	8°34	3°39	25°27	26°39	10°31	n.a.	M19
T 20	21 36 50	22°14'58	14°36	14°13	8°26	18°44	27°26	13° 4	3°16	8°36	3°37	25°25	26°36	10°38	n.a.	T 20
W21	21 40 47	23°13'40	29° 7	14°R14	9°41	19°26	27°36	13° 2	3°14	8°37	3°36	25°22	26°33	10°44	n.a.	W21
T 22	21 44 43	24°12'23	13♑53	14° 8	10°55	20° 8	27°47	13° 0	3°12	8°39	3°35	25°18	26°30	10°51	n.a.	T 22
F 23	21 48 40	25°11'08	28°47	13°55	12°10	20°49	27°56	12°57	3°10	8°41	3°34	25°13	26°27	10°58	n.a.	F 23
S 24	21 52 36	26° 9'55	13♒41	13°35	13°25	21°31	28° 6	12°55	3° 8	8°43	3°33	25° 9	26°23	11° 4	n.a.	S 24
S 25	21 56 33	27° 8'44	28°28	13° 8	14°39	22°13	28°16	12°52	3° 6	8°44	3°32	25° 6	26°20	11°11	n.a.	S 25
M26	22 0 29	28° 7'35	12♓58	12°34	15°54	22°55	28°26	12°49	3° 3	8°46	3°30	25° 5	26°17	11°18	n.a.	M26
T 27	22 4 26	29° 6'28	27° 6	11°53	17° 9	23°37	28°35	12°47	3° 1	8°48	3°29	25°D 4	26°14	11°25	n.a.	T 27
W28	22 8 22	0♍ 5'23	10♈50	11° 4	18°23	24°19	28°44	12°44	2°59	8°50	3°28	25° 5	26°11	11°31	n.a.	W28
T 29	22 12 19	1° 4'21	24° 8	10°10	19°38	25° 2	28°54	12°41	2°57	8°52	3°27	25° 6	26° 8	11°38	n.a.	T 29
F 30	22 16 15	2° 3'21	7♉ 3	9°10	20°53	25°44	29° 3	12°38	2°55	8°54	3°26	25° 8	26° 4	11°45	n.a.	F 30
S 31	22 20 12	3♍ 2'24	19♉36	8♍ 6	22♌ 8	26♎26	29♊12	12♈35	2♒53	8♎55	3♒25	25♍ 9	26♍ 1	11♋52	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	19n32	4n46	1s44	10n34	1s 6	23n24	0n32	2s39	0s18	23n32	0s 2	2n54	2s41	20s10	0s43	1s30	1n55	31s20	12s15	1n28	0n58	18n24			n.a.
F 2	19 18	8 36	2 46	10 0	1 16	23 18	0 35	2 56	0 19	23 33	0 2	2 53	2 41	20 10	0 43	1 30	1 55	31 20	12 15	1 28	0 59	18 23			n.a.
S 3	19 4	11 56	3 38	9 26	1 25	23 11	0 37	3 12	0 20	23 34	0 2	2 53	2 41	20 11	0 43	1 31	1 55	31 21	12 15	1 28	1 0	18 23			n.a.
S 4	18 49	14 41	4 19	8 53	1 35	23 3	0 39	3 29	0 21	23 34	0 2	2 53	2 42	20 12	0 43	1 32	1 55	31 21	12 15	1 28	1 2	18 23			n.a.
M 5	18 34	16 45	4 48	8 21	1 44	22 54	0 41	3 46	0 22	23 35	0 2	2 52	2 42	20 12	0 43	1 32	1 55	31 21	12 15	1 30	1 3	18 23			n.a.
T 6	18 19	18 4	5 4	7 49	1 53	22 45	0 44	4 2	0 23	23 35	0 1	2 52	2 42	20 13	0 43	1 33	1 55	31 22	12 15	1 32	1 4	18 22			n.a.
W 7	18 3	18 36	5 7	7 18	2 3	22 35	0 46	4 19	0 24	23 36	0 1	2 51	2 42	20 13	0 43	1 33	1 55	31 22	12 15	1 35	1 5	18 22			n.a.
T 8	17 48	18 18	4 57	6 48	2 12	22 25	0 48	4 36	0 24	23 37	0 1	2 51	2 43	20 14	0 43	1 34	1 55	31 22	12 15	1 38	1 7	18 22			n.a.
F 9	17 31	17 13	4 34	6 19	2 21	22 14	0 50	4 53	0 25	23 37	0 1	2 50	2 43	20 14	0 43	1 34	1 55	31 23	12 15	1 42	1 8	18 22			n.a.
S 10	17 15	15 22	3 59	5 51	2 31	22 2	0 52	5 9	0 26	23 38	0 1	2 49	2 43	20 15	0 43	1 35	1 55	31 23	12 15	1 45	1 9	18 21			n.a.
S 11	16 58	12 50	3 12	5 25	2 40	21 49	0 54	5 26	0 27	23 38	0 1	2 49	2 43	20 16	0 43	1 36	1 55	31 23	12 15	1 48	1 10	18 21			n.a.
M12	16 41	9 43	2 17	4 59	2 48	21 36	0 56	5 43	0 28	23 38	0 1	2 48	2 44	20 16	0 43	1 36	1 55	31 24	12 15	1 50	1 12	18 21			n.a.
T 13	16 24	6 8	1 14	4 36	2 57	21 22	0 58	6 0	0 29	23 39	0 1	2 47	2 44	20 17	0 43	1 37	1 55	31 24	12 15	1 51	1 13	18 20			n.a.
W14	16 6	2 15	0 7	4 14	3 5	21 8	0 59	6 17	0 29	23 39	0 1	2 46	2 44	20 17	0 43	1 38	1 55	31 24	12 15	1 51	1 14	18 20			n.a.
T 15	15 48	1s48	1n 2	3 54	3 13	20 53	1 1	6 33	0 30	23 40	0 0	2 45	2 44	20 18	0 43	1 38	1 55	31 25	12 15	1 51	1 16	18 20			n.a.
F 16	15 30	5 50	2 9	3 36	3 21	20 37	1 3	6 50	0 31	23 40	0 0	2 45	2 45	20 18	0 43	1 39	1 55	31 25	12 15	1 51	1 17	18 20			n.a.
S 17	15 12	9 40	3 11	3 20	3 28	20 21	1 4	7 7	0 32	23 40	0 0	2 44	2 45	20 19	0 43	1 40	1 55	31 25	12 15	1 50	1 18	18 19			n.a.
S 18	14 53	13 5	4 3	3 7	3 35	20 4	1 6	7 23	0 33	23 41	0 0	2 43	2 45	20 19	0 43	1 40	1 55	31 25	12 15	1 50	1 19	18 19			n.a.
M19	14 34	15 51	4 43	2 56	3 40	19 46	1 8	7 40	0 33	23 41	0 0	2 42	2 45	20 20	0 43	1 41	1 55	31 26	12 15	1 50	1 21	18 19			n.a.
T 20	14 15	17 44	5 7	2 49	3 46	19 28	1 9	7 57	0 34	23 41	0n 0	2 41	2 46	20 20	0 43	1 42	1 54	31 26	12 15	1 51	1 22	18 18			n.a.
W21	13 56	18 31	5 12	2 45	3 50	19 10	1 10	8 13	0 35	23 42	0 0	2 40	2 46	20 21	0 43	1 42	1 54	31 26	12 15	1 52	1 23	18 18			n.a.
T 22	13 36	18 4	4 56	2 44	3 53	18 50	1 12	8 30	0 36	23 42	0 0	2 38	2 46	20 21	0 43	1 43	1 54	31 26	12 15	1 53	1 25	18 18			n.a.
F 23	13 16	16 23	4 21	2 47	3 55	18 31	1 13	8 47	0 36	23 42	0 0	2 37	2 46	20 22	0 43	1 44	1 54	31 27	12 15	1 55	1 26	18 17			n.a.
S 24	12 56	13 36	3 27	2 53	3 56	18 10	1 14	9 3	0 37	23 43	0 1	2 36	2 47	20 22	0 43	1 45	1 54	31 27	12 15	1 57	1 27	18 17			n.a.
S 25	12 36	9 57	2 21	3 4	3 56	17 50	1 16	9 20	0 38	23 43	0 1	2 35	2 47	20 23	0 43	1 45	1 54	31 27	12 14	1 58	1 28	18 17			n.a.
M26	12 16	5 45	1 6	3 19	3 54	17 28	1 17	9 36	0 38	23 43	0 1	2 34	2 47	20 23	0 43	1 46	1 54	31 27	12 14	1 59	1 30	18 16			n.a.
T 27	11 55	1 20	0s11	3 39	3 50	17 6	1 18	9 53	0 39	23 43	0 1	2 32	2 47	20 24	0 43	1 47	1 54	31 28	12 14	1 59	1 31	18 16			n.a.
W28	11 34	3n 2	1 26	4 2	3 45	16 44	1 19	10 9	0 40	23 43	0 1	2 31	2 48	20 24	0 43	1 48	1 54	31 28	12 14	1 59	1 32	18 16			n.a.
T 29	11 13	7 6	2 33	4 30	3 37	16 21	1 20	10 25	0 41	23 44	0 1	2 30	2 48	20 25	0 43	1 48	1 54	31 28	12 14	1 58	1 33	18 15			n.a.
F 30	10 52	10 42	3 31	5 1	3 27	15 58	1 21	10 42	0 41	23 44	0 1	2 28	2 48	20 25	0 43	1 49	1 54	31 28	12 14	1 57	1 35	18 15			n.a.
S 31	10n30	13n43	4s17	5n36	3s16	15n34	1n21	10s58	0s42	23n44	0n 1	2n27	2s48	20s26	0s43	1s50	1n54	31s28	12s14	1n57	1n36	18n15			n.a.

Julian Day Number = 1655159.5, Delta T = 03h28m49s
Ecliptic obliquity = 23°42'52, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'22, Lahiri = - 6°27'21 Julian Calendar 1 Aug. 182 BCE == Greg. Calendar 29 July 182 BCE

The year -181 astronomical counting style corresponds to year 182 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 182 BCE
geocentric

SEPTEMBER 182 BCE (-181) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 24 9	4♍ 1'29	1♊52	6°R59	23♌23	27♎ 9	29♊21	12°R32	2°R51	8♎57	3°R24	25°R10	25♍58	11♋58	n.a.	S 1
M 2	22 28 5	5° 0'36	13°55	5♍50	24°38	27°52	29°30	12♈28	2♒49	8°59	3♒23	25♍ 9	25°55	12° 5	n.a.	M 2
T 3	22 32 2	5°59'46	25°51	4°42	25°53	28°34	29°38	12°25	2°48	9° 1	3°22	25° 8	25°52	12°12	n.a.	T 3
W 4	22 35 58	6°58'58	7♋43	3°36	27° 8	29°17	29°47	12°22	2°46	9° 3	3°21	25° 6	25°48	12°18	n.a.	W 4
T 5	22 39 55	7°58'12	19°36	2°34	28°22	29°59	29°55	12°18	2°44	9° 5	3°20	25° 4	25°45	12°25	n.a.	T 5
F 6	22 43 51	8°57'29	1♌32	1°37	29°37	0♏43	0♋ 4	12°15	2°42	9° 7	3°19	25° 1	25°42	12°32	n.a.	F 6
S 7	22 47 48	9°56'48	13°36	0°48	0♍53	1°26	0°12	12°11	2°40	9° 9	3°18	24°59	25°39	12°39	n.a.	S 7
S 8	22 51 44	10°56'10	25°50	0° 8	2° 8	2° 9	0°20	12° 7	2°39	9°11	3°17	24°57	25°36	12°45	n.a.	S 8
M 9	22 55 41	11°55'33	8♍14	29♌37	3°23	2°52	0°28	12° 3	2°37	9°13	3°16	24°55	25°33	12°52	n.a.	M 9
T 10	22 59 38	12°54'59	20°51	29°16	4°38	3°36	0°36	11°59	2°35	9°15	3°15	24°D55	25°29	12°59	n.a.	T 10
W11	23 3 34	13°54'27	3♎40	29°D 7	5°53	4°19	0°43	11°55	2°34	9°17	3°14	24°55	25°26	13° 5	n.a.	W11
T 12	23 7 31	14°53'57	16°42	29° 8	7° 8	5° 3	0°51	11°51	2°32	9°19	3°13	24°56	25°23	13°12	n.a.	T 12
F 13	23 11 27	15°53'28	29°58	29°20	8°23	5°46	0°58	11°47	2°30	9°21	3°12	24°56	25°20	13°19	n.a.	F 13
S 14	23 15 24	16°53'02	13♏27	29°42	9°38	6°30	1° 6	11°43	2°29	9°24	3°11	24°57	25°17	13°26	n.a.	S 14
S 15	23 19 20	17°52'38	27° 9	0♍14	10°54	7°13	1°13	11°39	2°27	9°26	3°10	24°58	25°13	13°32	n.a.	S 15
M16	23 23 17	18°52'15	11♐ 3	0°56	12° 9	7°57	1°20	11°35	2°26	9°28	3° 9	24°58	25°10	13°39	n.a.	M16
T 17	23 27 13	19°51'55	25° 9	1°45	13°24	8°41	1°26	11°30	2°25	9°30	3° 9	24°R58	25° 7	13°46	n.a.	T 17
W18	23 31 10	20°51'36	9♑25	2°43	14°39	9°25	1°33	11°26	2°23	9°32	3° 8	24°58	25° 4	13°52	n.a.	W18
T 19	23 35 6	21°51'19	23°48	3°47	15°55	10° 9	1°40	11°22	2°22	9°34	3° 7	24°58	25° 1	13°59	n.a.	T 19
F 20	23 39 3	22°51'04	8♒15	4°57	17°10	10°53	1°46	11°17	2°21	9°36	3° 6	24°57	24°58	14° 6	n.a.	F 20
S 21	23 43 0	23°50'50	22°42	6°12	18°25	11°37	1°52	11°13	2°19	9°39	3° 5	24°57	24°54	14°13	n.a.	S 21
S 22	23 46 56	24°50'39	7♓ 3	7°32	19°40	12°21	1°58	11° 8	2°18	9°41	3° 5	24°D57	24°51	14°19	n.a.	S 22
M23	23 50 53	25°50'29	21°12	8°56	20°56	13° 6	2° 4	11° 3	2°17	9°43	3° 4	24°R57	24°48	14°26	n.a.	M23
T 24	23 54 49	26°50'21	5♈ 7	10°23	22°11	13°50	2°10	10°59	2°16	9°45	3° 3	24°57	24°45	14°33	n.a.	T 24
W25	23 58 46	27°50'16	18°43	11°53	23°26	14°34	2°15	10°54	2°15	9°47	3° 3	24°57	24°42	14°39	n.a.	W25
T 26	0 2 42	28°50'12	1♉58	13°25	24°42	15°19	2°21	10°49	2°14	9°50	3° 2	24°57	24°39	14°46	n.a.	T 26
F 27	0 6 39	29°50'11	14°53	14°58	25°57	16° 4	2°26	10°45	2°13	9°52	3° 2	24°56	24°35	14°53	n.a.	F 27
S 28	0 10 35	0♎50'12	27°28	16°34	27°12	16°48	2°31	10°40	2°12	9°54	3° 1	24°55	24°32	15° 0	n.a.	S 28
S 29	0 14 32	1°50'15	9♊47	18°10	28°28	17°33	2°36	10°35	2°11	9°56	3° 0	24°55	24°29	15° 6	n.a.	S 29
M30	0 18 29	2♎50'21	21♊52	19♍48	29♍43	18♏18	2♋41	10♈30	2♒10	9♎59	3♒ 0	24♍54	24♍26	15♋13	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	10n 9	16n 3	4s50	6n14	3s 2	15n10	1n22	11s14	0s43	23n44	0n 1	2n26	2s48	20s26	0s42	1s51	1n54	31s28	12s14	1n57	1n37	18n14		n.a.
M 2	9 47	17 37	5 9	6 53	2 47	14 46	1 23	11 30	0 43	23 44	0 2	2 24	2 49	20 27	0 42	1 52	1 54	31 29	12 14	1 57	1 39	18 14		n.a.
T 3	9 25	18 24	5 15	7 34	2 30	14 21	1 23	11 46	0 44	23 45	0 2	2 23	2 49	20 27	0 42	1 52	1 54	31 29	12 14	1 57	1 40	18 14		n.a.
W 4	9 3	18 22	5 8	8 15	2 12	13 55	1 24	12 2	0 45	23 45	0 2	2 21	2 49	20 27	0 42	1 53	1 54	31 29	12 13	1 58	1 41	18 13		n.a.
T 5	8 41	17 32	4 47	8 56	1 53	13 29	1 24	12 18	0 45	23 45	0 2	2 20	2 49	20 28	0 42	1 54	1 54	31 29	12 13	1 59	1 42	18 13		n.a.
F 6	8 18	15 55	4 14	9 35	1 33	13 3	1 25	12 34	0 46	23 45	0 2	2 18	2 49	20 28	0 42	1 55	1 54	31 29	12 13	2 0	1 44	18 13		n.a.
S 7	7 56	13 36	3 29	10 11	1 13	12 37	1 25	12 50	0 47	23 45	0 2	2 16	2 49	20 29	0 42	1 56	1 54	31 29	12 13	2 1	1 45	18 12		n.a.
S 8	7 33	10 38	2 34	10 44	0 52	12 10	1 25	13 6	0 47	23 45	0 2	2 15	2 50	20 29	0 42	1 56	1 54	31 29	12 13	2 2	1 46	18 12		n.a.
M 9	7 10	7 10	1 31	11 14	0 33	11 43	1 26	13 21	0 48	23 45	0 2	2 13	2 50	20 29	0 42	1 57	1 54	31 29	12 13	2 2	1 47	18 12		n.a.
T 10	6 47	3 19	0 23	11 39	0 14	11 15	1 26	13 37	0 48	23 45	0 3	2 11	2 50	20 30	0 42	1 58	1 54	31 30	12 13	2 3	1 49	18 11		n.a.
W11	6 24	0s44	0n48	11 59	0n 5	10 47	1 26	13 52	0 49	23 45	0 3	2 10	2 50	20 30	0 42	1 59	1 54	31 30	12 12	2 3	1 50	18 11		n.a.
T 12	6 1	4 50	1 58	12 15	0 22	10 19	1 26	14 8	0 50	23 45	0 3	2 8	2 50	20 30	0 42	2 0	1 54	31 30	12 12	2 2	1 51	18 11		n.a.
F 13	5 38	8 45	3 2	12 25	0 38	9 51	1 26	14 23	0 50	23 46	0 3	2 6	2 50	20 31	0 42	2 1	1 54	31 30	12 12	2 2	1 53	18 10		n.a.
S 14	5 14	12 17	3 58	12 31	0 52	9 22	1 26	14 38	0 51	23 46	0 3	2 4	2 50	20 31	0 42	2 2	1 54	31 30	12 12	2 2	1 54	18 10		n.a.
S 15	4 51	15 11	4 41	12 32	1 5	8 53	1 26	14 53	0 51	23 46	0 3	2 3	2 51	20 31	0 42	2 2	1 54	31 30	12 12	2 1	1 55	18 9		n.a.
M16	4 27	17 16	5 8	12 28	1 17	8 24	1 25	15 8	0 52	23 46	0 3	2 1	2 51	20 32	0 42	2 3	1 54	31 30	12 12	2 1	1 56	18 9		n.a.
T 17	4 3	18 20	5 17	12 19	1 27	7 54	1 25	15 23	0 52	23 46	0 3	1 59	2 51	20 32	0 42	2 4	1 54	31 30	12 11	2 1	1 58	18 9		n.a.
W18	3 40	18 16	5 7	12 6	1 35	7 25	1 25	15 38	0 53	23 46	0 4	1 57	2 51	20 32	0 42	2 5	1 54	31 30	12 11	2 1	1 59	18 8		n.a.
T 19	3 16	17 2	4 38	11 50	1 43	6 55	1 24	15 53	0 54	23 46	0 4	1 55	2 51	20 33	0 42	2 6	1 54	31 30	12 11	2 1	2 0	18 8		n.a.
F 20	2 52	14 41	3 51	11 29	1 49	6 25	1 24	16 7	0 54	23 46	0 4	1 54	2 51	20 33	0 42	2 7	1 54	31 30	12 11	2 2	2 1	18 7		n.a.
S 21	2 28	11 26	2 50	11 6	1 54	5 54	1 23	16 21	0 55	23 46	0 4	1 52	2 51	20 33	0 42	2 8	1 54	31 30	12 11	2 2	2 3	18 7		n.a.
S 22	2 4	7 31	1 38	10 39	1 57	5 24	1 22	16 36	0 55	23 46	0 4	1 50	2 51	20 33	0 42	2 8	1 54	31 30	12 10	2 2	2 4	18 7		n.a.
M23	1 40	3 12	0 21	10 10	2 0	4 53	1 22	16 50	0 56	23 46	0 4	1 48	2 51	20 34	0 42	2 9	1 54	31 30	12 10	2 2	2 5	18 6		n.a.
T 24	1 16	1n12	0s56	9 38	2 2	4 22	1 21	17 4	0 56	23 46	0 4	1 46	2 52	20 34	0 42	2 10	1 53	31 30	12 10	2 2	2 7	18 6		n.a.
W25	0 52	5 26	2 8	9 4	2 2	3 52	1 20	17 18	0 57	23 46	0 4	1 44	2 52	20 34	0 42	2 11	1 53	31 30	12 10	2 2	2 8	18 5		n.a.
T 26	0 28	9 18	3 11	8 28	2 2	3 21	1 19	17 32	0 57	23 46	0 5	1 42	2 52	20 34	0 42	2 12	1 53	31 30	12 10	2 2	2 9	18 5		n.a.
F 27	0 4	12 37	4 3	7 51	2 2	2 49	1 18	17 45	0 58	23 46	0 5	1 40	2 52	20 34	0 42	2 13	1 53	31 30	12 9	2 2	2 10	18 5		n.a.
S 28	0s20	15 15	4 41	7 12	2 0	2 18	1 17	17 59	0 58	23 46	0 5	1 38	2 52	20 35	0 42	2 14	1 53	31 30	12 9	2 2	2 12	18 4		n.a.
S 29	0 44	17 8	5 6	6 32	1 58	1 47	1 16	18 12	0 59	23 46	0 5	1 36	2 52	20 35	0 42	2 15	1 53	31 30	12 9	2 3	2 13	18 4		n.a.
M30	1s 8	18n12	5s17	5n51	1n55	1n16	1n15	18s25	0s59	23n46	0n 5	1n35	2s52	20s35	0s42	2s16	1n53	31s30	12s 9	2n 3	2n14	18n 3		n.a.

Julian Day Number = 1655190.5, Delta T = 03h28m48s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'18, Lahiri = - 6°27'17 Julian Calendar 1 Sept. 182 BCE == Greg. Calendar 29 Aug. 182 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 182 BCE
geocentric

OCTOBER 182 BCE (-181) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 22 25	3♎50'29	3♋49	21♍26	0♎59	19♏ 2	2♋45	10°R25	2°R10	10♎ 1	2°R59	24°D54	24♍23	15♋20	n.a.	T 1
W 2	0 26 22	4°50'39	15°41	23° 4	2°14	19°47	2°50	10♈21	2♒ 9	10° 3	2♒59	24♍54	24°19	15°26	n.a.	W 2
T 3	0 30 18	5°50'51	27°34	24°43	3°29	20°32	2°54	10°16	2° 8	10° 5	2°58	24°55	24°16	15°33	n.a.	T 3
F 4	0 34 15	6°51'05	9♌32	26°22	4°45	21°17	2°58	10°11	2° 8	10° 7	2°58	24°56	24°13	15°40	n.a.	F 4
S 5	0 38 11	7°51'21	21°39	28° 1	6° 0	22° 2	3° 2	10° 6	2° 7	10°10	2°58	24°57	24°10	15°47	n.a.	S 5
S 6	0 42 8	8°51'40	4♍ 0	29°40	7°16	22°48	3° 6	10° 1	2° 6	10°12	2°57	24°58	24° 7	15°53	n.a.	S 6
M 7	0 46 4	9°52'00	16°35	1♎19	8°31	23°33	3° 9	9°56	2° 6	10°14	2°57	24°59	24° 4	16° 0	n.a.	M 7
T 8	0 50 1	10°52'22	29°29	2°58	9°47	24°18	3°12	9°51	2° 6	10°16	2°56	24°R59	24° 0	16° 7	n.a.	T 8
W 9	0 53 57	11°52'46	12♎40	4°36	11° 2	25° 3	3°16	9°46	2° 5	10°19	2°56	24°59	23°57	16°13	n.a.	W 9
T 10	0 57 54	12°53'12	26° 7	6°15	12°18	25°49	3°19	9°41	2° 5	10°21	2°56	24°57	23°54	16°20	n.a.	T 10
F 11	1 1 51	13°53'40	9♏50	7°53	13°33	26°34	3°21	9°37	2° 5	10°23	2°56	24°54	23°51	16°27	n.a.	F 11
S 12	1 5 47	14°54'09	23°45	9°31	14°49	27°20	3°24	9°32	2° 4	10°25	2°55	24°52	23°48	16°34	n.a.	S 12
S 13	1 9 44	15°54'40	7♐49	11° 8	16° 4	28° 5	3°26	9°27	2° 4	10°28	2°55	24°49	23°44	16°40	n.a.	S 13
M14	1 13 40	16°55'12	21°59	12°45	17°20	28°51	3°28	9°22	2° 4	10°30	2°55	24°46	23°41	16°47	n.a.	M14
T 15	1 17 37	17°55'46	6♑11	14°22	18°35	29°37	3°30	9°17	2° 4	10°32	2°55	24°45	23°38	16°54	n.a.	T 15
W16	1 21 33	18°56'21	20°22	15°59	19°51	0♐22	3°32	9°12	2°D 4	10°34	2°55	24°D44	23°35	17° 0	n.a.	W16
T 17	1 25 30	19°56'57	4♒31	17°35	21° 6	1° 8	3°34	9° 8	2° 4	10°37	2°54	24°45	23°32	17° 7	n.a.	T 17
F 18	1 29 26	20°57'35	18°36	19°12	22°22	1°54	3°35	9° 3	2° 4	10°39	2°54	24°46	23°29	17°14	n.a.	F 18
S 19	1 33 23	21°58'14	2♓35	20°47	23°37	2°40	3°37	8°58	2° 4	10°41	2°54	24°48	23°25	17°21	n.a.	S 19
S 20	1 37 20	22°58'54	16°26	22°23	24°53	3°26	3°38	8°53	2° 4	10°43	2°54	24°49	23°22	17°27	n.a.	S 20
M21	1 41 16	23°59'35	0♈ 8	23°58	26° 8	4°12	3°38	8°49	2° 5	10°46	2°D54	24°R49	23°19	17°34	n.a.	M21
T 22	1 45 13	25° 0'18	13°39	25°33	27°24	4°58	3°39	8°44	2° 5	10°48	2°54	24°48	23°16	17°41	n.a.	T 22
W23	1 49 9	26° 1'02	26°56	27° 8	28°39	5°44	3°40	8°40	2° 5	10°50	2°54	24°45	23°13	17°47	n.a.	W23
T 24	1 53 6	27° 1'48	9♉59	28°43	29°55	6°30	3°40	8°35	2° 6	10°52	2°54	24°40	23°10	17°54	n.a.	T 24
F 25	1 57 2	28° 2'35	22°46	0♏17	1♏10	7°16	3°R40	8°31	2° 6	10°54	2°54	24°35	23° 6	18° 1	n.a.	F 25
S 26	2 0 59	29° 3'24	5♊18	1°52	2°26	8° 2	3°40	8°26	2° 6	10°56	2°55	24°28	23° 3	18° 7	n.a.	S 26
S 27	2 4 55	0♏ 4'14	17°36	3°26	3°41	8°48	3°39	8°22	2° 7	10°59	2°55	24°22	23° 0	18°14	n.a.	S 27
M28	2 8 52	1° 5'06	29°41	5° 0	4°57	9°35	3°39	8°18	2° 8	11° 1	2°55	24°17	22°57	18°21	n.a.	M28
T 29	2 12 49	2° 5'59	11♋37	6°34	6°12	10°21	3°38	8°13	2° 8	11° 3	2°55	24°13	22°54	18°28	n.a.	T 29
W30	2 16 45	3° 6'53	23°29	8° 8	7°28	11° 7	3°37	8° 9	2° 9	11° 5	2°55	24°11	22°50	18°34	n.a.	W30
T 31	2 20 42	4♏ 7'50	5♌21	9♏41	8♏43	11♐54	3♋36	8♈ 5	2♒10	11♎ 7	2♒55	24°D10	22♍47	18♋41	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	1s33	18n26	5s13	5n 9	1n52	0n44	1n14	18s38	1s 0	23n46	0n 5	1n33	2s52	20s35	0s42	2s16	1n53	31s29	12s 9	2n 3	2n16	18n 3			n.a.
W 2	1 57	17 52	4 56	4 26	1 48	0 13	1 13	18 51	1 0	23 46	0 5	1 31	2 52	20 35	0 42	2 17	1 53	31 29	12 8	2 3	2 17	18 2			n.a.
T 3	2 21	16 31	4 27	3 43	1 44	0s19	1 12	19 4	1 0	23 47	0 6	1 29	2 52	20 35	0 42	2 18	1 53	31 29	12 8	2 3	2 18	18 2			n.a.
F 4	2 45	14 26	3 46	2 59	1 40	0 50	1 10	19 16	1 1	23 47	0 6	1 27	2 52	20 35	0 42	2 19	1 53	31 29	12 8	2 2	2 19	18 1			n.a.
S 5	3 9	11 42	2 54	2 15	1 35	1 22	1 9	19 28	1 1	23 47	0 6	1 25	2 52	20 36	0 42	2 20	1 53	31 29	12 8	2 2	2 21	18 1			n.a.
S 6	3 33	8 24	1 54	1 30	1 30	1 53	1 7	19 41	1 2	23 47	0 6	1 23	2 52	20 36	0 42	2 21	1 53	31 29	12 7	2 1	2 22	18 1			n.a.
M 7	3 57	4 39	0 46	0 46	1 25	2 24	1 6	19 53	1 2	23 47	0 6	1 21	2 52	20 36	0 42	2 22	1 53	31 29	12 7	2 1	2 23	18 0			n.a.
T 8	4 21	0 35	0n25	0 1	1 19	2 56	1 4	20 4	1 3	23 47	0 6	1 19	2 52	20 36	0 42	2 23	1 53	31 29	12 7	2 1	2 24	18 0			n.a.
W 9	4 45	3s35	1 36	0s44	1 13	3 27	1 3	20 16	1 3	23 47	0 6	1 17	2 52	20 36	0 42	2 24	1 53	31 28	12 7	2 1	2 26	17 59			n.a.
T 10	5 9	7 40	2 44	1 29	1 8	3 59	1 1	20 27	1 3	23 47	0 7	1 15	2 52	20 36	0 42	2 24	1 53	31 28	12 6	2 2	2 27	17 59			n.a.
F 11	5 33	11 25	3 43	2 13	1 2	4 30	1 0	20 39	1 4	23 47	0 7	1 13	2 52	20 36	0 42	2 25	1 53	31 28	12 6	2 3	2 28	17 58			n.a.
S 12	5 56	14 34	4 30	2 58	0 55	5 1	0 58	20 50	1 4	23 47	0 7	1 11	2 52	20 36	0 41	2 26	1 53	31 28	12 6	2 4	2 30	17 58			n.a.
S 13	6 20	16 55	5 1	3 42	0 49	5 32	0 56	21 0	1 4	23 47	0 7	1 10	2 52	20 36	0 41	2 27	1 53	31 28	12 6	2 5	2 31	17 57			n.a.
M14	6 43	18 14	5 14	4 27	0 43	6 3	0 54	21 11	1 5	23 47	0 7	1 8	2 52	20 36	0 41	2 28	1 53	31 28	12 5	2 6	2 32	17 57			n.a.
T 15	7 7	18 26	5 8	5 10	0 36	6 34	0 52	21 21	1 5	23 47	0 7	1 6	2 52	20 36	0 41	2 29	1 53	31 27	12 5	2 7	2 33	17 56			n.a.
W16	7 30	17 28	4 44	5 54	0 30	7 4	0 51	21 32	1 5	23 48	0 8	1 4	2 51	20 36	0 41	2 30	1 53	31 27	12 5	2 7	2 35	17 56			n.a.
T 17	7 53	15 26	4 2	6 38	0 23	7 35	0 49	21 42	1 6	23 48	0 8	1 2	2 51	20 36	0 41	2 31	1 54	31 27	12 5	2 7	2 36	17 55			n.a.
F 18	8 16	12 29	3 6	7 21	0 17	8 5	0 47	21 51	1 6	23 48	0 8	1 0	2 51	20 36	0 41	2 31	1 54	31 27	12 4	2 6	2 37	17 55			n.a.
S 19	8 39	8 49	1 59	8 3	0 10	8 35	0 45	22 1	1 6	23 48	0 8	0 59	2 51	20 36	0 41	2 32	1 54	31 26	12 4	2 5	2 38	17 55			n.a.
S 20	9 2	4 43	0 46	8 45	0 3	9 5	0 43	22 10	1 7	23 48	0 8	0 57	2 51	20 36	0 41	2 33	1 54	31 26	12 4	2 5	2 40	17 54			n.a.
M21	9 25	0 23	0s29	9 27	0s 3	9 35	0 41	22 19	1 7	23 48	0 8	0 55	2 51	20 36	0 41	2 34	1 54	31 26	12 4	2 5	2 41	17 54			n.a.
T 22	9 47	3n53	1 41	10 9	0 10	10 4	0 38	22 28	1 7	23 48	0 8	0 53	2 51	20 36	0 41	2 35	1 54	31 26	12 3	2 5	2 42	17 53			n.a.
W23	10 10	7 55	2 47	10 49	0 16	10 33	0 36	22 37	1 8	23 48	0 9	0 52	2 51	20 35	0 41	2 36	1 54	31 26	12 3	2 7	2 43	17 53			n.a.
T 24	10 32	11 28	3 42	11 30	0 23	11 2	0 34	22 45	1 8	23 49	0 9	0 50	2 51	20 35	0 41	2 37	1 54	31 25	12 3	2 8	2 45	17 52			n.a.
F 25	10 54	14 25	4 25	12 9	0 29	11 31	0 32	22 54	1 8	23 49	0 9	0 48	2 51	20 35	0 41	2 37	1 54	31 25	12 3	2 11	2 46	17 52			n.a.
S 26	11 16	16 37	4 54	12 49	0 36	11 59	0 30	23 1	1 8	23 49	0 9	0 47	2 50	20 35	0 41	2 38	1 54	31 25	12 2	2 13	2 47	17 51			n.a.
S 27	11 38	18 0	5 9	13 27	0 42	12 28	0 28	23 9	1 9	23 49	0 9	0 45	2 50	20 35	0 41	2 39	1 54	31 24	12 2	2 16	2 49	17 51			n.a.
M28	11 59	18 33	5 9	14 5	0 48	12 55	0 25	23 17	1 9	23 49	0 9	0 43	2 50	20 35	0 41	2 40	1 54	31 24	12 2	2 18	2 50	17 50			n.a.
T 29	12 20	18 16	4 57	14 43	0 54	13 23	0 23	23 24	1 9	23 49	0 10	0 42	2 50	20 35	0 41	2 41	1 54	31 24	12 2	2 19	2 51	17 49			n.a.
W30	12 42	17 11	4 31	15 19	1 0	13 50	0 21	23 31	1 9	23 50	0 10	0 40	2 50	20 34	0 41	2 42	1 54	31 24	12 1	2 20	2 52	17 49			n.a.
T 31	13s 2	15n22	3s54	15s55	1s 6	14s17	0n18	23s37	1s10	23n50	0n10	0n39	2s50	20s34	0s41	2s42	1n54	31s23	12s 1	2n21	2n54	17n48			n.a.

Julian Day Number = 1655220.5, Delta T = 03h28m47s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'14, Lahiri = - 6°27'13 Julian Calendar 1 Oct. 182 BCE == Greg. Calendar 28 Sept. 182 BCE

The year -181 astronomical counting style corresponds to year 182 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 182 BCE
geocentric

NOVEMBER 182 BCE (-181) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 24 38	5♏ 8'47	17♌17	11♏15	9♏59	12♐40	3°R35	8°R 1	2♒10	11♎ 9	2♒56	24♍11	22♍44	18♋48	n.a.	F 1
S 2	2 28 35	6° 9'46	29°23	12°49	11°14	13°27	3♋33	7♈57	2°11	11°11	2°56	24°12	22°41	18°54	n.a.	S 2
S 3	2 32 31	7°10'46	11♍44	14°22	12°30	14°13	3°31	7°53	2°12	11°13	2°56	24°14	22°38	19° 1	n.a.	S 3
M 4	2 36 28	8°11'48	24°25	15°56	13°45	15° 0	3°30	7°49	2°13	11°16	2°57	24°R14	22°35	19° 8	n.a.	M 4
T 5	2 40 24	9°12'51	7♎27	17°29	15° 1	15°46	3°27	7°45	2°14	11°18	2°57	24°14	22°31	19°15	n.a.	T 5
W 6	2 44 21	10°13'55	20°54	19° 2	16°16	16°33	3°25	7°41	2°15	11°20	2°57	24°11	22°28	19°21	n.a.	W 6
T 7	2 48 18	11°15'00	4♏43	20°36	17°32	17°20	3°23	7°38	2°16	11°22	2°58	24° 5	22°25	19°28	n.a.	T 7
F 8	2 52 14	12°16'06	18°53	22° 9	18°47	18° 6	3°20	7°34	2°17	11°24	2°58	23°58	22°22	19°35	n.a.	F 8
S 9	2 56 11	13°17'13	3♐18	23°42	20° 3	18°53	3°17	7°31	2°19	11°26	2°59	23°50	22°19	19°41	n.a.	S 9
S 10	3 0 7	14°18'21	17°52	25°16	21°18	19°40	3°14	7°27	2°20	11°28	2°59	23°42	22°15	19°48	n.a.	S 10
M11	3 4 4	15°19'29	2♑27	26°49	22°33	20°27	3°11	7°24	2°21	11°30	3° 0	23°34	22°12	19°55	n.a.	M11
T 12	3 8 0	16°20'38	16°58	28°22	23°49	21°14	3° 7	7°21	2°23	11°31	3° 0	23°28	22° 9	20° 2	n.a.	T 12
W13	3 11 57	17°21'47	1♒19	29°55	25° 4	22° 1	3° 3	7°18	2°24	11°33	3° 1	23°25	22° 6	20° 8	n.a.	W13
T 14	3 15 53	18°22'57	15°28	1♐27	26°20	22°47	3° 0	7°14	2°25	11°35	3° 2	23°D24	22° 3	20°15	n.a.	T 14
F 15	3 19 50	19°24'07	29°23	3° 0	27°35	23°34	2°56	7°12	2°27	11°37	3° 2	23°24	22° 0	20°22	n.a.	F 15
S 16	3 23 47	20°25'18	13♓ 5	4°32	28°51	24°21	2°51	7° 9	2°28	11°39	3° 3	23°25	21°56	20°28	n.a.	S 16
S 17	3 27 43	21°26'28	26°33	6° 4	0♐ 6	25° 8	2°47	7° 6	2°30	11°41	3° 4	23°R25	21°53	20°35	n.a.	S 17
M18	3 31 40	22°27'39	9♈50	7°35	1°21	25°55	2°42	7° 3	2°32	11°43	3° 4	23°24	21°50	20°42	n.a.	M18
T 19	3 35 36	23°28'51	22°56	9° 6	2°37	26°42	2°38	7° 1	2°33	11°45	3° 5	23°20	21°47	20°48	n.a.	T 19
W20	3 39 33	24°30'02	5♉51	10°36	3°52	27°29	2°33	6°58	2°35	11°46	3° 6	23°14	21°44	20°55	n.a.	W20
T 21	3 43 29	25°31'14	18°35	12° 6	5° 8	28°16	2°28	6°56	2°37	11°48	3° 7	23° 4	21°41	21° 2	n.a.	T 21
F 22	3 47 26	26°32'27	1♊ 8	13°34	6°23	29° 3	2°22	6°53	2°39	11°50	3° 7	22°53	21°37	21° 9	n.a.	F 22
S 23	3 51 22	27°33'40	13°30	15° 1	7°38	29°50	2°17	6°51	2°40	11°52	3° 8	22°40	21°34	21°15	n.a.	S 23
S 24	3 55 19	28°34'53	25°41	16°27	8°54	0♑37	2°12	6°49	2°42	11°53	3° 9	22°27	21°31	21°22	n.a.	S 24
M25	3 59 16	29°36'07	7♋43	17°51	10° 9	1°25	2° 6	6°47	2°44	11°55	3°10	22°16	21°28	21°29	n.a.	M25
T 26	4 3 12	0♐37'21	19°38	19°13	11°24	2°12	2° 0	6°45	2°46	11°57	3°11	22° 6	21°25	21°35	n.a.	T 26
W27	4 7 9	1°38'35	1♌28	20°33	12°40	2°59	1°54	6°43	2°48	11°58	3°12	21°59	21°21	21°42	n.a.	W27
T 28	4 11 5	2°39'50	13°18	21°49	13°55	3°46	1°48	6°42	2°50	12° 0	3°13	21°55	21°18	21°49	n.a.	T 28
F 29	4 15 2	3°41'06	25°11	23° 2	15°10	4°33	1°42	6°40	2°52	12° 1	3°14	21°53	21°15	21°56	n.a.	F 29
S 30	4 18 58	4♐42'21	7♍14	24♐12	16♐26	5♑20	1♋35	6♈39	2♒55	12♎ 3	3♒15	21°D53	21♍12	22♋ 2	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13s23	12n52	3s 7	16s31	1s12	14s43	0n16	23s44	1s10	23n50	0n10	0n37	2s49	20s34	0s41	2s43	1n54	31s23	12s 1	2n20	2n55	17n48		n.a.
S 2	13 44	9 47	2 11	17 5	1 17	15 9	0 14	23 50	1 10	23 50	0 10	0 36	2 49	20 34	0 41	2 44	1 54	31 23	12 1	2 20	2 56	17 47		n.a.
S 3	14 4	6 12	1 7	17 39	1 22	15 35	0 11	23 56	1 10	23 50	0 10	0 35	2 49	20 33	0 41	2 45	1 54	31 22	12 0	2 19	2 57	17 47		n.a.
M 4	14 24	2 16	0n 1	18 11	1 28	16 0	0 9	24 1	1 10	23 51	0 11	0 33	2 49	20 33	0 41	2 46	1 54	31 22	12 0	2 19	2 59	17 46		n.a.
T 5	14 44	1s54	1 11	18 43	1 33	16 25	0 7	24 7	1 10	23 51	0 11	0 32	2 49	20 33	0 41	2 46	1 54	31 22	12 0	2 19	3 0	17 46		n.a.
W 6	15 3	6 6	2 19	19 15	1 38	16 50	0 4	24 12	1 11	23 51	0 11	0 31	2 49	20 33	0 41	2 47	1 54	31 21	11 59	2 20	3 1	17 45		n.a.
T 7	15 23	10 6	3 21	19 45	1 42	17 14	0 2	24 17	1 11	23 51	0 11	0 29	2 48	20 32	0 41	2 48	1 54	31 21	11 59	2 22	3 3	17 45		n.a.
F 8	15 42	13 36	4 11	20 14	1 47	17 37	0s 1	24 21	1 11	23 52	0 11	0 28	2 48	20 32	0 41	2 49	1 54	31 20	11 59	2 25	3 4	17 44		n.a.
S 9	16 0	16 21	4 47	20 42	1 51	18 0	0 3	24 25	1 11	23 52	0 11	0 27	2 48	20 32	0 41	2 49	1 54	31 20	11 59	2 29	3 5	17 44		n.a.
S 10	16 19	18 6	5 5	21 9	1 55	18 23	0 5	24 29	1 11	23 52	0 12	0 26	2 48	20 31	0 41	2 50	1 54	31 20	11 58	2 32	3 6	17 43		n.a.
M11	16 37	18 39	5 3	21 35	1 58	18 45	0 8	24 33	1 11	23 52	0 12	0 25	2 47	20 31	0 41	2 51	1 54	31 19	11 58	2 35	3 8	17 43		n.a.
T 12	16 55	17 58	4 41	22 0	2 2	19 6	0 10	24 37	1 11	23 53	0 12	0 23	2 47	20 31	0 41	2 52	1 54	31 19	11 58	2 37	3 9	17 42		n.a.
W13	17 13	16 9	4 2	22 23	2 5	19 27	0 13	24 40	1 12	23 53	0 12	0 22	2 47	20 30	0 41	2 52	1 54	31 19	11 58	2 39	3 10	17 41		n.a.
T 14	17 30	13 23	3 9	22 46	2 7	19 48	0 15	24 43	1 12	23 53	0 12	0 21	2 47	20 30	0 40	2 53	1 54	31 18	11 57	2 39	3 11	17 41		n.a.
F 15	17 47	9 52	2 5	23 7	2 10	20 8	0 17	24 45	1 12	23 53	0 12	0 20	2 47	20 30	0 40	2 54	1 54	31 18	11 57	2 39	3 13	17 40		n.a.
S 16	18 3	5 53	0 55	23 27	2 11	20 27	0 20	24 47	1 12	23 54	0 13	0 20	2 46	20 29	0 40	2 54	1 54	31 17	11 57	2 39	3 14	17 40		n.a.
S 17	18 20	1 38	0s17	23 45	2 13	20 46	0 22	24 49	1 12	23 54	0 13	0 19	2 46	20 29	0 40	2 55	1 54	31 17	11 57	2 38	3 15	17 39		n.a.
M18	18 36	2n37	1 27	24 2	2 14	21 4	0 24	24 51	1 12	23 54	0 13	0 18	2 46	20 29	0 40	2 56	1 54	31 17	11 56	2 39	3 16	17 39		n.a.
T 19	18 51	6 41	2 31	24 17	2 15	21 22	0 27	24 52	1 12	23 54	0 13	0 17	2 46	20 28	0 40	2 57	1 54	31 16	11 56	2 40	3 18	17 38		n.a.
W20	19 7	10 23	3 26	24 31	2 15	21 39	0 29	24 54	1 12	23 55	0 13	0 16	2 45	20 28	0 40	2 57	1 55	31 16	11 56	2 43	3 19	17 37		n.a.
T 21	19 22	13 33	4 10	24 43	2 14	21 55	0 31	24 54	1 12	23 55	0 13	0 16	2 45	20 27	0 40	2 58	1 55	31 15	11 56	2 47	3 20	17 37		n.a.
F 22	19 36	16 2	4 41	24 53	2 13	22 11	0 34	24 55	1 12	23 55	0 14	0 15	2 45	20 27	0 40	2 58	1 55	31 15	11 56	2 51	3 22	17 36		n.a.
S 23	19 51	17 45	4 58	25 2	2 11	22 26	0 36	24 55	1 12	23 55	0 14	0 14	2 45	20 26	0 40	2 59	1 55	31 15	11 55	2 56	3 23	17 36		n.a.
S 24	20 4	18 37	5 2	25 9	2 9	22 40	0 38	24 55	1 12	23 56	0 14	0 14	2 44	20 26	0 40	3 0	1 55	31 14	11 55	3 2	3 24	17 35		n.a.
M25	20 18	18 38	4 52	25 14	2 6	22 54	0 40	24 55	1 12	23 56	0 14	0 13	2 44	20 25	0 40	3 0	1 55	31 14	11 55	3 6	3 25	17 34		n.a.
T 26	20 31	17 50	4 29	25 18	2 2	23 7	0 43	24 54	1 12	23 56	0 14	0 13	2 44	20 25	0 40	3 1	1 55	31 13	11 55	3 10	3 27	17 34		n.a.
W27	20 44	16 15	3 54	25 19	1 57	23 19	0 45	24 53	1 12	23 57	0 14	0 12	2 43	20 24	0 40	3 2	1 55	31 13	11 54	3 13	3 28	17 33		n.a.
T 28	20 56	13 59	3 10	25 19	1 51	23 31	0 47	24 52	1 12	23 57	0 15	0 12	2 43	20 24	0 40	3 2	1 55	31 12	11 54	3 15	3 29	17 33		n.a.
F 29	21 8	11 8	2 17	25 16	1 45	23 41	0 49	24 50	1 12	23 57	0 15	0 11	2 43	20 23	0 40	3 3	1 55	31 12	11 54	3 15	3 30	17 32		n.a.
S 30	21s19	7n46	1s17	25s12	1s37	23s52	0s51	24s49	1s12	23n57	0n15	0n11	2s43	20s23	0s40	3s 3	1n55	31s11	11s54	3n15	3n32	17n31		n.a.

Julian Day Number = 1655251.5, Delta T = 03h28m46s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'09, Lahiri = - 6°27'09 Julian Calendar 1 Nov. 182 BCE == Greg. Calendar 29 Oct. 182 BCE

The year -181 astronomical counting style corresponds to year 182 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 182 BCE
geocentric

DECEMBER 182 BCE (-181) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 22 55	5♐43'37	19♍31	25♐16	17♐41	6♑ 7	1°R29	6°R37	2♒57	12♎ 4	3♒16	21°R53	21♍ 9	22♋ 9	n.a.	S 1
M 2	4 26 52	6°44'53	2♎ 8	26°16	18°56	6°55	1♋22	6♈36	2°59	12° 6	3°17	21♍53	21° 6	22°16	n.a.	M 2
T 3	4 30 48	7°46'09	15°10	27° 9	20°12	7°42	1°15	6°35	3° 1	12° 7	3°18	21°50	21° 2	22°22	n.a.	T 3
W 4	4 34 45	8°47'26	28°40	27°55	21°27	8°29	1° 8	6°34	3° 4	12° 9	3°19	21°46	20°59	22°29	n.a.	W 4
T 5	4 38 41	9°48'42	12♏39	28°34	22°42	9°16	1° 1	6°33	3° 6	12°10	3°20	21°38	20°56	22°36	n.a.	T 5
F 6	4 42 38	10°49'59	27° 4	29° 4	23°57	10° 4	0°54	6°32	3° 8	12°12	3°21	21°28	20°53	22°42	n.a.	F 6
S 7	4 46 34	11°51'16	11♐50	29°24	25°13	10°51	0°47	6°32	3°11	12°13	3°22	21°17	20°50	22°49	n.a.	S 7
S 8	4 50 31	12°52'32	26°50	29°R33	26°28	11°38	0°40	6°31	3°13	12°14	3°23	21° 5	20°47	22°56	n.a.	S 8
M 9	4 54 27	13°53'48	11♑53	29°32	27°43	12°25	0°32	6°31	3°16	12°16	3°24	20°54	20°43	23° 3	n.a.	M 9
T 10	4 58 24	14°55'04	26°49	29°19	28°58	13°13	0°25	6°30	3°18	12°17	3°26	20°45	20°40	23° 9	n.a.	T 10
W11	5 2 21	15°56'18	11♒30	28°53	0♑13	14° 0	0°17	6°30	3°21	12°18	3°27	20°39	20°37	23°16	n.a.	W11
T 12	5 6 17	16°57'33	25°52	28°17	1°29	14°47	0°10	6°D30	3°24	12°19	3°28	20°36	20°34	23°23	n.a.	T 12
F 13	5 10 14	17°58'46	9♓53	27°29	2°44	15°34	0° 2	6°30	3°26	12°21	3°29	20°35	20°31	23°29	n.a.	F 13
S 14	5 14 10	18°59'59	23°32	26°31	3°59	16°22	29♊54	6°30	3°29	12°22	3°30	20°35	20°27	23°36	n.a.	S 14
S 15	5 18 7	20° 1'10	6♈51	25°25	5°14	17° 9	29°46	6°30	3°32	12°23	3°32	20°34	20°24	23°43	n.a.	S 15
M16	5 22 3	21° 2'21	19°54	24°12	6°29	17°56	29°39	6°31	3°34	12°24	3°33	20°32	20°21	23°49	n.a.	M16
T 17	5 26 0	22° 3'31	2♉42	22°55	7°44	18°44	29°31	6°31	3°37	12°25	3°34	20°27	20°18	23°56	n.a.	T 17
W18	5 29 56	23° 4'41	15°18	21°37	8°59	19°31	29°23	6°32	3°40	12°26	3°36	20°19	20°15	24° 3	n.a.	W18
T 19	5 33 53	24° 5'49	27°44	20°19	10°14	20°18	29°15	6°33	3°43	12°27	3°37	20° 8	20°12	24°10	n.a.	T 19
F 20	5 37 50	25° 6'57	10♊ 2	19° 4	11°29	21° 5	29° 7	6°33	3°45	12°28	3°38	19°55	20° 8	24°16	n.a.	F 20
S 21	5 41 46	26° 8'04	22°12	17°54	12°45	21°52	28°59	6°34	3°48	12°29	3°40	19°40	20° 5	24°23	n.a.	S 21
S 22	5 45 43	27° 9'10	4♋15	16°51	14° 0	22°40	28°51	6°35	3°51	12°30	3°41	19°26	20° 2	24°30	n.a.	S 22
M23	5 49 39	28°10'15	16°11	15°56	15°15	23°27	28°43	6°36	3°54	12°31	3°43	19°12	19°59	24°36	n.a.	M23
T 24	5 53 36	29°11'19	28° 3	15° 9	16°30	24°14	28°35	6°38	3°57	12°32	3°44	19° 0	19°56	24°43	n.a.	T 24
W25	5 57 32	0♑12'23	9♌52	14°32	17°44	25° 1	28°27	6°39	4° 0	12°32	3°45	18°51	19°53	24°50	n.a.	W25
T 26	6 1 29	1°13'26	21°42	14° 3	18°59	25°48	28°18	6°41	4° 3	12°33	3°47	18°45	19°49	24°56	n.a.	T 26
F 27	6 5 26	2°14'28	3♍34	13°44	20°14	26°36	28°10	6°42	4° 6	12°34	3°48	18°42	19°46	25° 3	n.a.	F 27
S 28	6 9 22	3°15'29	15°35	13°33	21°29	27°23	28° 2	6°44	4° 9	12°35	3°50	18°D41	19°43	25°10	n.a.	S 28
S 29	6 13 19	4°16'30	27°49	13°D31	22°44	28°10	27°54	6°46	4°12	12°35	3°51	18°42	19°40	25°17	n.a.	S 29
M30	6 17 15	5°17'30	10♎22	13°36	23°59	28°57	27°47	6°48	4°16	12°36	3°53	18°R42	19°37	25°23	n.a.	M30
T 31	6 21 12	6♑18'29	23♎18	13♐49	25♑14	29♑44	27♊39	6♈50	4♒19	12♎36	3♒54	18♍40	19♍33	25♋30	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	21s30	4n 0	0s13	25s 6	1s29	24s 1	0s53	24s46	1s12	23n58	0n15	0n11	2s42	20s22	0s40	3s 4	1n55	31s11	11s54	3n15	3n33	17n31			n.a.
M 2	21 41	0s 2	0n54	24 58	1 19	24 10	0 55	24 44	1 12	23 58	0 15	0 11	2 42	20 22	0 40	3 4	1 55	31 10	11 53	3 16	3 34	17 30			n.a.
T 3	21 51	4 12	2 0	24 49	1 8	24 18	0 57	24 41	1 12	23 58	0 15	0 10	2 42	20 21	0 40	3 5	1 55	31 10	11 53	3 16	3 35	17 30			n.a.
W 4	22 1	8 18	3 2	24 37	0 56	24 25	0 59	24 38	1 12	23 58	0 16	0 10	2 41	20 21	0 40	3 5	1 55	31 10	11 53	3 18	3 37	17 29			n.a.
T 5	22 11	12 5	3 54	24 25	0 42	24 31	1 1	24 35	1 12	23 58	0 16	0 10	2 41	20 20	0 40	3 6	1 55	31 9	11 53	3 21	3 38	17 28			n.a.
F 6	22 20	15 17	4 34	24 10	0 28	24 37	1 3	24 31	1 12	23 59	0 16	0 10	2 41	20 20	0 40	3 6	1 55	31 9	11 53	3 25	3 39	17 28			n.a.
S 7	22 28	17 34	4 56	23 55	0 12	24 42	1 5	24 28	1 12	23 59	0 16	0 10	2 41	20 19	0 40	3 7	1 55	31 8	11 52	3 30	3 41	17 27			n.a.
S 8	22 36	18 42	4 59	23 38	0n 5	24 46	1 6	24 23	1 12	23 59	0 16	0 10	2 40	20 18	0 40	3 7	1 55	31 8	11 52	3 35	3 42	17 26			n.a.
M 9	22 44	18 31	4 41	23 20	0 23	24 50	1 8	24 19	1 12	23 59	0 16	0 10	2 40	20 18	0 40	3 8	1 55	31 7	11 52	3 39	3 43	17 26			n.a.
T 10	22 51	17 3	4 4	23 1	0 42	24 52	1 10	24 14	1 12	23 59	0 17	0 10	2 40	20 17	0 40	3 8	1 56	31 7	11 52	3 42	3 44	17 25			n.a.
W11	22 58	14 29	3 11	22 42	1 1	24 54	1 11	24 9	1 11	24 0	0 17	0 11	2 39	20 17	0 40	3 9	1 56	31 6	11 52	3 45	3 46	17 25			n.a.
T 12	23 4	11 3	2 7	22 22	1 21	24 55	1 13	24 4	1 11	24 0	0 17	0 11	2 39	20 16	0 40	3 9	1 56	31 6	11 51	3 46	3 47	17 24			n.a.
F 13	23 10	7 5	0 56	22 1	1 40	24 56	1 14	23 58	1 11	24 0	0 17	0 11	2 39	20 15	0 40	3 10	1 56	31 5	11 51	3 46	3 48	17 23			n.a.
S 14	23 15	2 50	0s16	21 41	1 59	24 55	1 16	23 53	1 11	24 0	0 17	0 11	2 38	20 15	0 40	3 10	1 56	31 5	11 51	3 47	3 49	17 23			n.a.
S 15	23 20	1n27	1 25	21 21	2 17	24 54	1 17	23 46	1 11	24 0	0 17	0 12	2 38	20 14	0 40	3 10	1 56	31 4	11 51	3 47	3 51	17 22			n.a.
M16	23 24	5 35	2 28	21 2	2 33	24 52	1 19	23 40	1 11	24 0	0 18	0 12	2 38	20 13	0 40	3 11	1 56	31 4	11 51	3 48	3 52	17 21			n.a.
T 17	23 28	9 23	3 23	20 43	2 48	24 49	1 20	23 33	1 11	24 1	0 18	0 13	2 37	20 13	0 40	3 11	1 56	31 3	11 51	3 49	3 53	17 21			n.a.
W18	23 32	12 41	4 6	20 26	3 1	24 46	1 21	23 26	1 11	24 1	0 18	0 13	2 37	20 12	0 40	3 11	1 56	31 3	11 51	3 53	3 54	17 20			n.a.
T 19	23 35	15 23	4 37	20 10	3 11	24 41	1 23	23 19	1 10	24 1	0 18	0 14	2 37	20 11	0 40	3 12	1 56	31 2	11 50	3 57	3 56	17 19			n.a.
F 20	23 37	17 21	4 55	19 57	3 19	24 36	1 24	23 12	1 10	24 1	0 18	0 14	2 37	20 11	0 40	3 12	1 56	31 2	11 50	4 2	3 57	17 19			n.a.
S 21	23 39	18 30	4 59	19 45	3 25	24 30	1 25	23 4	1 10	24 1	0 18	0 15	2 36	20 10	0 40	3 12	1 56	31 1	11 50	4 8	3 58	17 18			n.a.
S 22	23 41	18 49	4 50	19 36	3 28	24 24	1 26	22 56	1 10	24 1	0 19	0 16	2 36	20 9	0 40	3 13	1 56	31 1	11 50	4 14	3 59	17 17			n.a.
M23	23 42	18 18	4 28	19 30	3 29	24 16	1 27	22 48	1 10	24 1	0 19	0 16	2 36	20 8	0 40	3 13	1 56	31 1	11 50	4 19	4 1	17 17			n.a.
T 24	23 43	16 58	3 54	19 26	3 28	24 8	1 28	22 39	1 9	24 1	0 19	0 17	2 35	20 8	0 40	3 13	1 56	31 0	11 50	4 24	4 2	17 16			n.a.
W25	23 43	14 56	3 10	19 25	3 25	23 59	1 29	22 30	1 9	24 1	0 19	0 18	2 35	20 7	0 40	3 13	1 56	31 0	11 50	4 28	4 3	17 15			n.a.
T 26	23 43	12 16	2 18	19 26	3 21	23 50	1 29	22 21	1 9	24 1	0 19	0 19	2 35	20 6	0 40	3 14	1 57	30 59	11 49	4 30	4 5	17 15			n.a.
F 27	23 42	9 5	1 19	19 29	3 15	23 39	1 30	22 12	1 9	24 1	0 19	0 20	2 34	20 5	0 40	3 14	1 57	30 59	11 49	4 31	4 6	17 14			n.a.
S 28	23 40	5 29	0 16	19 35	3 8	23 28	1 31	22 3	1 9	24 1	0 19	0 21	2 34	20 5	0 39	3 14	1 57	30 58	11 49	4 31	4 7	17 13			n.a.
S 29	23 39	1 37	0n48	19 42	3 0	23 16	1 31	21 53	1 8	24 1	0 20	0 22	2 34	20 4	0 39	3 14	1 57	30 58	11 49	4 31	4 8	17 13			n.a.
M30	23 36	2s26	1 52	19 51	2 52	23 4	1 32	21 43	1 8	24 1	0 20	0 23	2 34	20 3	0 39	3 15	1 57	30 57	11 49	4 31	4 10	17 12			n.a.
T 31	23s34	6s29	2n53	20s 2	2n42	22s51	1s32	21s33	1s 8	24n 1	0n20	0n24	2s33	20s 2	0s39	3s15	1n57	30s57	11s49	4n32	4n11	17n11			n.a.

Julian Day Number = 1655281.5, Delta T = 03h28m45s
Ecliptic obliquity = 23°42'52, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'05, Lahiri = - 6°27'05 Julian Calendar 1 Dec. 182 BCE == Greg. Calendar 28 Nov. 182 BCE

The year -181 astronomical counting style corresponds to year 182 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 181 BCE
geocentric

JANUARY 181 BCE (-180) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 25 8	7♑19'27	6♏41	14♐ 8	26♑29	0♒31	27°R31	6♈52	4♒22	12♎37	3♒56	18°R37	19♍30	25♋37	n.a.	W 1
T 2	6 29 5	8°20'24	20°35	14°34	27°43	1°18	27♊23	6°54	4°25	12°38	3°57	18♍31	19°27	25°43	n.a.	T 2
F 3	6 33 1	9°21'20	4♐58	15° 5	28°58	2° 5	27°15	6°56	4°28	12°38	3°59	18°23	19°24	25°50	n.a.	F 3
S 4	6 36 58	10°22'15	19°48	15°41	0♒13	2°52	27° 8	6°59	4°31	12°39	4° 0	18°13	19°21	25°57	n.a.	S 4
S 5	6 40 55	11°23'09	4♑57	16°22	1°28	3°40	27° 0	7° 2	4°35	12°39	4° 2	18° 2	19°18	26° 3	n.a.	S 5
M 6	6 44 51	12°24'02	20°15	17° 7	2°43	4°27	26°52	7° 4	4°38	12°39	4° 3	17°52	19°14	26°10	n.a.	M 6
T 7	6 48 48	13°24'54	5♒29	17°56	3°57	5°14	26°45	7° 7	4°41	12°40	4° 5	17°44	19°11	26°17	n.a.	T 7
W 8	6 52 44	14°25'44	20°31	18°49	5°12	6° 1	26°38	7°10	4°44	12°40	4° 7	17°39	19° 8	26°24	n.a.	W 8
T 9	6 56 41	15°26'32	5♓12	19°44	6°27	6°47	26°30	7°13	4°48	12°40	4° 8	17°36	19° 5	26°30	n.a.	T 9
F 10	7 0 37	16°27'19	19°27	20°43	7°41	7°34	26°23	7°16	4°51	12°41	4°10	17°D35	19° 2	26°37	n.a.	F 10
S 11	7 4 34	17°28'03	3♈16	21°45	8°56	8°21	26°16	7°19	4°54	12°41	4°11	17°36	18°59	26°44	n.a.	S 11
S 12	7 8 30	18°28'46	16°39	22°49	10°10	9° 8	26° 9	7°22	4°58	12°41	4°13	17°R36	18°55	26°50	n.a.	S 12
M13	7 12 27	19°29'28	29°41	23°55	11°25	9°55	26° 2	7°26	5° 1	12°41	4°15	17°36	18°52	26°57	n.a.	M13
T 14	7 16 24	20°30'07	12♉23	25° 3	12°39	10°42	25°55	7°29	5° 4	12°41	4°16	17°33	18°49	27° 4	n.a.	T 14
W15	7 20 20	21°30'45	24°50	26°14	13°54	11°29	25°49	7°33	5° 8	12°42	4°18	17°28	18°46	27°10	n.a.	W15
T 16	7 24 17	22°31'20	7♊ 5	27°26	15° 8	12°15	25°42	7°37	5°11	12°42	4°20	17°21	18°43	27°17	n.a.	T 16
F 17	7 28 13	23°31'54	19°11	28°40	16°23	13° 2	25°36	7°40	5°15	12°R42	4°21	17°12	18°39	27°24	n.a.	F 17
S 18	7 32 10	24°32'27	1♋11	29°56	17°37	13°49	25°30	7°44	5°18	12°42	4°23	17° 1	18°36	27°31	n.a.	S 18
S 19	7 36 6	25°32'57	13° 6	1♑13	18°51	14°36	25°24	7°48	5°21	12°42	4°25	16°51	18°33	27°37	n.a.	S 19
M20	7 40 3	26°33'26	24°58	2°32	20° 6	15°22	25°18	7°52	5°25	12°42	4°26	16°41	18°30	27°44	n.a.	M20
T 21	7 43 59	27°33'53	6♌48	3°52	21°20	16° 9	25°12	7°56	5°28	12°41	4°28	16°33	18°27	27°51	n.a.	T 21
W22	7 47 56	28°34'18	18°39	5°14	22°34	16°55	25° 6	8° 1	5°32	12°41	4°30	16°27	18°24	27°57	n.a.	W22
T 23	7 51 53	29°34'41	0♍31	6°36	23°48	17°42	25° 1	8° 5	5°35	12°41	4°31	16°23	18°20	28° 4	n.a.	T 23
F 24	7 55 49	0♒35'03	12°29	8° 0	25° 2	18°29	24°55	8° 9	5°39	12°41	4°33	16°D21	18°17	28°11	n.a.	F 24
S 25	7 59 46	1°35'23	24°34	9°25	26°16	19°15	24°50	8°14	5°42	12°41	4°35	16°22	18°14	28°17	n.a.	S 25
S 26	8 3 42	2°35'42	6♎51	10°52	27°30	20° 1	24°45	8°19	5°45	12°40	4°36	16°23	18°11	28°24	n.a.	S 26
M27	8 7 39	3°35'59	19°23	12°19	28°45	20°48	24°40	8°23	5°49	12°40	4°38	16°24	18° 8	28°31	n.a.	M27
T 28	8 11 35	4°36'14	2♏16	13°48	29°59	21°34	24°35	8°28	5°52	12°40	4°40	16°R25	18° 5	28°37	n.a.	T 28
W29	8 15 32	5°36'28	15°32	15°18	1♓12	22°21	24°31	8°33	5°56	12°39	4°41	16°25	18° 1	28°44	n.a.	W29
T 30	8 19 28	6°36'40	29°15	16°49	2°26	23° 7	24°26	8°38	5°59	12°39	4°43	16°23	17°58	28°51	n.a.	T 30
F 31	8 23 25	7♒36'51	13♐27	18♑21	3♓40	23♒53	24♊22	8♈43	6♒ 3	12♎39	4♒45	16♍19	17♍55	28♋57	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	23s31	10s21	3n46	20s14	2n33	22s37	1s33	21s22	1s 8	24n 1	0n20	0n25	2s33	20s 2	0s39	3s15	1n57	30s56	11s49	4n33	4n12	17n10			n.a.
T 2	23 27	13 48	4 28	20 27	2 23	22 23	1 33	21 11	1 7	24 1	0 20	0 26	2 33	20 1	0 39	3 15	1 57	30 56	11 49	4 36	4 13	17 10			n.a.
F 3	23 23	16 33	4 54	20 40	2 13	22 7	1 33	21 1	1 7	24 1	0 20	0 28	2 32	20 0	0 39	3 15	1 57	30 55	11 49	4 39	4 15	17 9			n.a.
S 4	23 18	18 17	5 2	20 54	2 3	21 52	1 34	20 49	1 7	24 1	0 20	0 29	2 32	19 59	0 39	3 15	1 57	30 55	11 49	4 43	4 16	17 8			n.a.
S 5	23 13	18 48	4 50	21 9	1 52	21 35	1 34	20 38	1 6	24 1	0 20	0 30	2 32	19 59	0 39	3 15	1 57	30 54	11 49	4 47	4 17	17 8			n.a.
M 6	23 8	17 57	4 16	21 23	1 42	21 18	1 34	20 26	1 6	24 1	0 21	0 31	2 31	19 58	0 39	3 15	1 57	30 54	11 48	4 51	4 18	17 7			n.a.
T 7	23 2	15 49	3 24	21 38	1 32	21 0	1 34	20 15	1 6	24 1	0 21	0 33	2 31	19 57	0 39	3 16	1 57	30 53	11 48	4 54	4 20	17 6			n.a.
W 8	22 55	12 37	2 19	21 53	1 21	20 42	1 34	20 3	1 6	24 1	0 21	0 34	2 31	19 56	0 39	3 16	1 57	30 53	11 48	4 56	4 21	17 5			n.a.
T 9	22 49	8 42	1 6	22 8	1 11	20 23	1 34	19 50	1 5	24 1	0 21	0 36	2 31	19 55	0 39	3 16	1 58	30 52	11 48	4 57	4 22	17 5			n.a.
F 10	22 41	4 22	0s10	22 22	1 1	20 4	1 33	19 38	1 5	24 1	0 21	0 37	2 30	19 54	0 39	3 16	1 58	30 52	11 48	4 58	4 23	17 4			n.a.
S 11	22 34	0n 3	1 23	22 36	0 51	19 44	1 33	19 25	1 5	24 1	0 21	0 39	2 30	19 54	0 39	3 16	1 58	30 51	11 48	4 57	4 25	17 3			n.a.
S 12	22 25	4 20	2 29	22 50	0 41	19 23	1 33	19 13	1 4	24 1	0 21	0 40	2 30	19 53	0 39	3 16	1 58	30 51	11 48	4 57	4 26	17 3			n.a.
M13	22 17	8 17	3 25	23 3	0 32	19 2	1 32	19 0	1 4	24 1	0 21	0 42	2 29	19 52	0 39	3 16	1 58	30 51	11 48	4 57	4 27	17 2			n.a.
T 14	22 8	11 45	4 10	23 15	0 22	18 40	1 32	18 46	1 4	24 1	0 21	0 44	2 29	19 51	0 39	3 16	1 58	30 50	11 48	4 58	4 28	17 1			n.a.
W15	21 58	14 38	4 42	23 26	0 13	18 18	1 31	18 33	1 3	24 0	0 22	0 45	2 29	19 50	0 39	3 16	1 58	30 50	11 48	5 0	4 30	17 0			n.a.
T 16	21 49	16 48	5 1	23 37	0 4	17 55	1 30	18 19	1 3	24 0	0 22	0 47	2 29	19 49	0 39	3 16	1 58	30 49	11 48	5 3	4 31	17 0			n.a.
F 17	21 38	18 12	5 5	23 47	0s 5	17 32	1 30	18 6	1 3	24 0	0 22	0 49	2 28	19 49	0 39	3 16	1 58	30 49	11 48	5 7	4 32	16 59			n.a.
S 18	21 28	18 46	4 56	23 56	0 13	17 8	1 29	17 52	1 2	24 0	0 22	0 51	2 28	19 48	0 39	3 16	1 58	30 48	11 48	5 11	4 33	16 58			n.a.
S 19	21 17	18 31	4 34	24 4	0 21	16 44	1 28	17 38	1 2	24 0	0 22	0 52	2 28	19 47	0 39	3 16	1 58	30 48	11 48	5 15	4 35	16 57			n.a.
M20	21 5	17 26	4 1	24 11	0 29	16 20	1 27	17 23	1 2	24 0	0 22	0 54	2 27	19 46	0 39	3 15	1 58	30 47	11 48	5 19	4 36	16 57			n.a.
T 21	20 53	15 37	3 17	24 17	0 37	15 55	1 26	17 9	1 1	24 0	0 22	0 56	2 27	19 45	0 39	3 15	1 58	30 47	11 48	5 22	4 37	16 56			n.a.
W22	20 41	13 8	2 24	24 21	0 45	15 29	1 25	16 54	1 1	24 0	0 22	0 58	2 27	19 44	0 39	3 15	1 58	30 47	11 48	5 25	4 38	16 55			n.a.
T 23	20 28	10 6	1 25	24 25	0 52	15 3	1 24	16 40	1 0	24 0	0 22	1 0	2 27	19 44	0 39	3 15	1 58	30 46	11 48	5 26	4 40	16 54			n.a.
F 24	20 15	6 38	0 21	24 27	0 59	14 37	1 23	16 25	1 0	23 59	0 23	1 2	2 26	19 43	0 39	3 15	1 59	30 46	11 48	5 27	4 41	16 54			n.a.
S 25	20 2	2 52	0n44	24 28	1 5	14 11	1 21	16 10	1 0	23 59	0 23	1 4	2 26	19 42	0 39	3 15	1 59	30 45	11 48	5 27	4 42	16 53			n.a.
S 26	19 48	1s 5	1 49	24 27	1 12	13 44	1 20	15 55	0 59	23 59	0 23	1 6	2 26	19 41	0 39	3 15	1 59	30 45	11 48	5 26	4 44	16 52			n.a.
M27	19 34	5 4	2 50	24 26	1 18	13 16	1 19	15 39	0 59	23 59	0 23	1 8	2 26	19 40	0 39	3 14	1 59	30 45	11 48	5 25	4 45	16 51			n.a.
T 28	19 20	8 54	3 43	24 22	1 24	12 49	1 17	15 24	0 58	23 59	0 23	1 10	2 25	19 39	0 39	3 14	1 59	30 44	11 48	5 25	4 46	16 50			n.a.
W29	19 5	12 25	4 27	24 18	1 29	12 21	1 16	15 8	0 58	23 59	0 23	1 12	2 25	19 38	0 39	3 14	1 59	30 44	11 48	5 25	4 47	16 50			n.a.
T 30	18 50	15 23	4 57	24 12	1 34	11 52	1 14	14 52	0 58	23 59	0 23	1 15	2 25	19 38	0 39	3 14	1 59	30 43	11 48	5 26	4 49	16 49			n.a.
F 31	18s35	17s32	5n10	24s 4	1s39	11s24	1s12	14s36	0s57	23n59	0n23	1n17	2s25	19s37	0s39	3s14	1n59	30s43	11s48	5n28	4n50	16n48			n.a.

Julian Day Number = 1655312.5, Delta T = 03h28m44s
Ecliptic obliquity = 23°42'52, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°34'01, Lahiri = - 6°27'01 Julian Calendar 1 Jan. 181 BCE == Greg. Calendar 29 Dec. 182 BCE

The year -180 astronomical counting style corresponds to year 181 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 181 BCE
geocentric

FEBRUARY 181 BCE (-180) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 27 22	8♒37'00	28♐ 4	19♑54	4♓54	24♒40	24°R18	8♈48	6♒ 6	12°R38	4♒46	16°R14	17♍52	29♋ 4	n.a.	S 1
S 2	8 31 18	9°37'07	13♑ 3	21°28	6° 8	25°26	24♊14	8°53	6°10	12♎38	4°48	16♍ 8	17°49	29°11	n.a.	S 2
M 3	8 35 15	10°37'13	28°16	23° 3	7°22	26°12	24°11	8°58	6°13	12°37	4°50	16° 3	17°45	29°18	n.a.	M 3
T 4	8 39 11	11°37'16	13♒31	24°40	8°35	26°58	24° 7	9° 4	6°17	12°37	4°51	15°58	17°42	29°24	n.a.	T 4
W 5	8 43 8	12°37'18	28°39	26°17	9°49	27°44	24° 4	9° 9	6°20	12°36	4°53	15°56	17°39	29°31	n.a.	W 5
T 6	8 47 4	13°37'17	13♓31	27°56	11° 3	28°30	24° 1	9°15	6°23	12°35	4°55	15°D55	17°36	29°38	n.a.	T 6
F 7	8 51 1	14°37'14	28° 0	29°35	12°16	29°16	23°58	9°20	6°27	12°35	4°56	15°55	17°33	29°44	n.a.	F 7
S 8	8 54 57	15°37'09	12♈ 1	1♒16	13°30	0♓ 2	23°55	9°26	6°30	12°34	4°58	15°56	17°30	29°51	n.a.	S 8
S 9	8 58 54	16°37'01	25°35	2°58	14°43	0°48	23°52	9°31	6°34	12°33	5° 0	15°58	17°26	29°58	n.a.	S 9
M10	9 2 50	17°36'51	8♉44	4°41	15°57	1°34	23°50	9°37	6°37	12°33	5° 1	15°59	17°23	0♌ 4	n.a.	M10
T 11	9 6 47	18°36'39	21°29	6°25	17°10	2°20	23°48	9°43	6°41	12°32	5° 3	16°R 0	17°20	0°11	n.a.	T 11
W12	9 10 44	19°36'25	3♊56	8°11	18°23	3° 6	23°46	9°49	6°44	12°31	5° 4	15°59	17°17	0°18	n.a.	W12
T 13	9 14 40	20°36'08	16° 8	9°57	19°36	3°52	23°44	9°55	6°47	12°30	5° 6	15°56	17°14	0°24	n.a.	T 13
F 14	9 18 37	21°35'49	28° 9	11°45	20°50	4°37	23°42	10° 1	6°51	12°29	5° 8	15°53	17°10	0°31	n.a.	F 14
S 15	9 22 33	22°35'27	10♋ 4	13°34	22° 3	5°23	23°41	10° 7	6°54	12°28	5° 9	15°50	17° 7	0°38	n.a.	S 15
S 16	9 26 30	23°35'03	21°54	15°24	23°16	6° 9	23°40	10°13	6°57	12°27	5°11	15°46	17° 4	0°45	n.a.	S 16
M17	9 30 26	24°34'37	3♌44	17°16	24°29	6°54	23°39	10°19	7° 1	12°27	5°13	15°42	17° 1	0°51	n.a.	M17
T 18	9 34 23	25°34'09	15°36	19° 8	25°42	7°40	23°38	10°26	7° 4	12°26	5°14	15°39	16°58	0°58	n.a.	T 18
W19	9 38 19	26°33'38	27°30	21° 2	26°55	8°25	23°37	10°32	7° 7	12°25	5°16	15°37	16°55	1° 5	n.a.	W19
T 20	9 42 16	27°33'06	9♍31	22°57	28° 8	9°11	23°37	10°38	7°11	12°24	5°17	15°36	16°51	1°11	n.a.	T 20
F 21	9 46 13	28°32'31	21°38	24°53	29°20	9°56	23°36	10°45	7°14	12°23	5°19	15°D36	16°48	1°18	n.a.	F 21
S 22	9 50 9	29°31'54	3♎55	26°51	0♈33	10°42	23°D36	10°51	7°17	12°21	5°20	15°37	16°45	1°25	n.a.	S 22
S 23	9 54 6	0♓31'15	16°23	28°49	1°46	11°27	23°37	10°58	7°20	12°20	5°22	15°38	16°42	1°31	n.a.	S 23
M24	9 58 2	1°30'34	29° 5	0♓49	2°58	12°12	23°37	11° 5	7°24	12°19	5°23	15°39	16°39	1°38	n.a.	M24
T 25	10 1 59	2°29'52	12♏ 3	2°49	4°11	12°58	23°37	11°11	7°27	12°18	5°25	15°40	16°36	1°45	n.a.	T 25
W26	10 5 55	3°29'07	25°20	4°50	5°23	13°43	23°38	11°18	7°30	12°17	5°27	15°41	16°32	1°51	n.a.	W26
T 27	10 9 52	4°28'21	8♐58	6°52	6°36	14°28	23°39	11°25	7°33	12°16	5°28	15°R41	16°29	1°58	n.a.	T 27
F 28	10 13 48	5°27'33	22°58	8°55	7°48	15°13	23°40	11°31	7°36	12°15	5°30	15°41	16°26	2° 5	n.a.	F 28
S 29	10 17 45	6♓26'43	7♑19	10♓58	9♈ 0	15♓58	23♊41	11♈38	7♒40	12♎13	5♒31	15♍40	16♍23	2♌11	n.a.	S 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s19	18s38	5n 4	23s55	1s43	10s55	1s11	14s20	0s57	23n59	0n23	1n19	2s24	19s36	0s39	3s13	1n59	30s43	11s48	5n30	4n51	16n47		n.a.
S 2	18 3	18 28	4 38	23 45	1 47	10 26	1 9	14 4	0 56	23 59	0 23	1 21	2 24	19 35	0 39	3 13	1 59	30 42	11 48	5 32	4 52	16 46		n.a.
M 3	17 46	16 59	3 51	23 33	1 51	9 56	1 7	13 48	0 56	23 58	0 23	1 24	2 24	19 34	0 39	3 13	1 59	30 42	11 48	5 34	4 54	16 46		n.a.
T 4	17 30	14 17	2 48	23 19	1 54	9 27	1 5	13 32	0 55	23 58	0 23	1 26	2 24	19 33	0 39	3 13	1 59	30 42	11 49	5 36	4 55	16 45		n.a.
W 5	17 13	10 37	1 33	23 3	1 57	8 57	1 3	13 15	0 55	23 58	0 24	1 28	2 24	19 32	0 39	3 12	1 59	30 41	11 49	5 37	4 56	16 44		n.a.
T 6	16 56	6 21	0 13	22 46	2 0	8 27	1 1	12 59	0 54	23 58	0 24	1 31	2 23	19 31	0 39	3 12	1 59	30 41	11 49	5 37	4 57	16 43		n.a.
F 7	16 38	1 49	1s 6	22 28	2 2	7 56	0 59	12 42	0 54	23 58	0 24	1 33	2 23	19 31	0 39	3 12	1 59	30 40	11 49	5 37	4 59	16 42		n.a.
S 8	16 20	2n41	2 18	22 7	2 4	7 26	0 57	12 25	0 54	23 58	0 24	1 36	2 23	19 30	0 39	3 11	1 59	30 40	11 49	5 36	5 0	16 42		n.a.
S 9	16 2	6 54	3 21	21 45	2 5	6 55	0 54	12 8	0 53	23 58	0 24	1 38	2 23	19 29	0 39	3 11	2 0	30 40	11 49	5 36	5 1	16 41		n.a.
M10	15 44	10 37	4 10	21 21	2 6	6 24	0 52	11 51	0 53	23 58	0 24	1 41	2 22	19 28	0 39	3 11	2 0	30 39	11 49	5 35	5 2	16 40		n.a.
T 11	15 25	13 45	4 46	20 55	2 7	5 53	0 50	11 34	0 52	23 58	0 24	1 43	2 22	19 27	0 39	3 10	2 0	30 39	11 49	5 35	5 4	16 39		n.a.
W12	15 6	16 9	5 7	20 28	2 7	5 22	0 47	11 17	0 52	23 58	0 24	1 46	2 22	19 26	0 39	3 10	2 0	30 39	11 49	5 36	5 5	16 38		n.a.
T 13	14 47	17 47	5 14	19 59	2 6	4 51	0 45	11 0	0 51	23 58	0 24	1 48	2 22	19 25	0 39	3 10	2 0	30 38	11 49	5 36	5 6	16 38		n.a.
F 14	14 28	18 35	5 7	19 28	2 5	4 19	0 42	10 43	0 51	23 58	0 24	1 51	2 22	19 25	0 39	3 9	2 0	30 38	11 50	5 38	5 7	16 37		n.a.
S 15	14 9	18 34	4 47	18 55	2 4	3 48	0 40	10 25	0 50	23 58	0 24	1 53	2 21	19 24	0 39	3 9	2 0	30 38	11 50	5 39	5 9	16 36		n.a.
S 16	13 49	17 44	4 14	18 21	2 2	3 16	0 37	10 8	0 50	23 58	0 24	1 56	2 21	19 23	0 39	3 8	2 0	30 38	11 50	5 41	5 10	16 35		n.a.
M17	13 29	16 7	3 31	17 44	2 0	2 45	0 35	9 50	0 49	23 58	0 24	1 59	2 21	19 22	0 39	3 8	2 0	30 37	11 50	5 42	5 11	16 34		n.a.
T 18	13 9	13 50	2 38	17 6	1 57	2 13	0 32	9 33	0 49	23 58	0 24	2 1	2 21	19 21	0 39	3 8	2 0	30 37	11 50	5 43	5 12	16 33		n.a.
W19	12 48	10 56	1 38	16 26	1 53	1 41	0 29	9 15	0 48	23 58	0 24	2 4	2 21	19 20	0 40	3 7	2 0	30 37	11 50	5 44	5 14	16 33		n.a.
T 20	12 28	7 35	0 34	15 45	1 49	1 9	0 26	8 57	0 48	23 58	0 24	2 7	2 20	19 20	0 40	3 7	2 0	30 36	11 50	5 44	5 15	16 32		n.a.
F 21	12 7	3 52	0n33	15 1	1 45	0 38	0 24	8 39	0 47	23 58	0 25	2 9	2 20	19 19	0 40	3 6	2 0	30 36	11 51	5 44	5 16	16 31		n.a.
S 22	11 46	0s 3	1 40	14 16	1 40	0 6	0 21	8 22	0 47	23 58	0 25	2 12	2 20	19 18	0 40	3 6	2 0	30 36	11 51	5 44	5 17	16 30		n.a.
S 23	11 25	4 1	2 42	13 29	1 34	0n26	0 18	8 4	0 46	23 58	0 25	2 15	2 20	19 17	0 40	3 5	2 0	30 36	11 51	5 44	5 19	16 29		n.a.
M24	11 4	7 52	3 38	12 41	1 28	0 58	0 15	7 46	0 46	23 58	0 25	2 18	2 20	19 16	0 40	3 5	2 0	30 35	11 51	5 43	5 20	16 28		n.a.
T 25	10 42	11 26	4 24	11 51	1 21	1 30	0 12	7 28	0 45	23 58	0 25	2 20	2 20	19 15	0 40	3 4	2 0	30 35	11 51	5 43	5 21	16 27		n.a.
W26	10 21	14 30	4 57	10 59	1 14	2 2	0 9	7 10	0 45	23 58	0 25	2 23	2 19	19 15	0 40	3 4	2 0	30 35	11 51	5 42	5 22	16 27		n.a.
T 27	9 59	16 52	5 15	10 6	1 6	2 34	0 6	6 52	0 44	23 58	0 25	2 26	2 19	19 14	0 40	3 3	2 1	30 35	11 52	5 42	5 24	16 26		n.a.
F 28	9 37	18 17	5 15	9 12	0 57	3 5	0 3	6 34	0 44	23 59	0 25	2 29	2 19	19 13	0 40	3 3	2 1	30 34	11 52	5 43	5 25	16 25		n.a.
S 29	9s15	18s36	4n55	8s17	0s48	3n37	0n 0	6s15	0s43	23n59	0n25	2n32	2s19	19s12	0s40	3s 2	2n 1	30s34	11s52	5n43	5n26	16n24		n.a.

Julian Day Number = 1655343.5, Delta T = 03h28m43s
Ecliptic obliquity = 23°42'52, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°33'57, Lahiri = - 6°26'56 Julian Calendar 1 Feb. 181 BCE == Greg. Calendar 29 Jan. 181 BCE

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ASTRODIENST EPHEMERIS for the year 181 BCE
geocentric

MARCH 181 BCE (-180) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 21 41	7♓25'51	21♉57	13♓ 1	10♈12	16♓43	23♊43	11♈45	7♒43	12°R12	5♒32	15°R39	16♍20	2♌18	n.a.	S 1
M 2	10 25 38	8°24'57	6♒49	15° 4	11°24	17°28	23°44	11°52	7°46	12♎11	5°34	15♍38	16°16	2°25	n.a.	M 2
T 3	10 29 35	9°24'02	21°47	17° 7	12°37	18°13	23°46	11°59	7°49	12°10	5°35	15°37	16°13	2°31	n.a.	T 3
W 4	10 33 31	10°23'04	6♓44	19°10	13°48	18°58	23°48	12° 6	7°52	12° 8	5°37	15°37	16°10	2°38	n.a.	W 4
T 5	10 37 28	11°22'04	21°30	21°11	15° 0	19°43	23°50	12°13	7°55	12° 7	5°38	15°D37	16° 7	2°45	n.a.	T 5
F 6	10 41 24	12°21'02	5♈59	23°11	16°12	20°27	23°53	12°20	7°58	12° 6	5°40	15°37	16° 4	2°52	n.a.	F 6
S 7	10 45 21	13°19'57	20° 5	25°10	17°24	21°12	23°55	12°28	8° 1	12° 4	5°41	15°37	16° 1	2°58	n.a.	S 7
S 8	10 49 17	14°18'50	3♉47	27° 6	18°36	21°57	23°58	12°35	8° 4	12° 3	5°42	15°38	15°57	3° 5	n.a.	S 8
M 9	10 53 14	15°17'41	17° 3	29° 0	19°47	22°41	24° 1	12°42	8° 7	12° 1	5°44	15°R38	15°54	3°12	n.a.	M 9
T 10	10 57 10	16°16'30	29°55	0♈52	20°59	23°26	24° 4	12°49	8°10	12° 0	5°45	15°38	15°51	3°18	n.a.	T 10
W11	11 1 7	17°15'17	12♊26	2°40	22°10	24°11	24° 7	12°57	8°13	11°59	5°46	15°D38	15°48	3°25	n.a.	W11
T 12	11 5 4	18°14'01	24°40	4°25	23°22	24°55	24°11	13° 4	8°15	11°57	5°48	15°38	15°45	3°32	n.a.	T 12
F 13	11 9 0	19°12'42	6♋41	6° 6	24°33	25°39	24°15	13°11	8°18	11°56	5°49	15°38	15°42	3°38	n.a.	F 13
S 14	11 12 57	20°11'22	18°34	7°43	25°44	26°24	24°18	13°19	8°21	11°54	5°50	15°38	15°38	3°45	n.a.	S 14
S 15	11 16 53	21° 9'59	0♌24	9°16	26°55	27° 8	24°22	13°26	8°24	11°53	5°52	15°39	15°35	3°52	n.a.	S 15
M16	11 20 50	22° 8'33	12°14	10°45	28° 6	27°52	24°26	13°34	8°27	11°51	5°53	15°39	15°32	3°58	n.a.	M16
T 17	11 24 46	23° 7'06	24° 8	12° 9	29°17	28°37	24°31	13°41	8°29	11°50	5°54	15°40	15°29	4° 5	n.a.	T 17
W18	11 28 43	24° 5'36	6♍ 9	13°28	0♉28	29°21	24°35	13°49	8°32	11°48	5°55	15°41	15°26	4°12	n.a.	W18
T 19	11 32 39	25° 4'05	18°19	14°42	1°38	0♈ 5	24°40	13°56	8°35	11°47	5°56	15°R41	15°22	4°18	n.a.	T 19
F 20	11 36 36	26° 2'31	0♎41	15°50	2°49	0°49	24°45	14° 4	8°37	11°45	5°58	15°40	15°19	4°25	n.a.	F 20
S 21	11 40 32	27° 0'55	13°14	16°54	4° 0	1°33	24°50	14°11	8°40	11°43	5°59	15°39	15°16	4°32	n.a.	S 21
S 22	11 44 29	27°59'18	26° 1	17°52	5°10	2°17	24°55	14°19	8°42	11°42	6° 0	15°38	15°13	4°38	n.a.	S 22
M23	11 48 26	28°57'39	9♏ 2	18°45	6°20	3° 1	25° 0	14°27	8°45	11°40	6° 1	15°36	15°10	4°45	n.a.	M23
T 24	11 52 22	29°55'57	22°17	19°32	7°30	3°45	25° 5	14°34	8°47	11°39	6° 2	15°34	15° 7	4°52	n.a.	T 24
W25	11 56 19	0♈54'15	5♐46	20°13	8°41	4°28	25°11	14°42	8°50	11°37	6° 3	15°33	15° 3	4°58	n.a.	W25
T 26	12 0 15	1°52'31	19°29	20°49	9°51	5°12	25°17	14°50	8°52	11°36	6° 4	15°32	15° 0	5° 5	n.a.	T 26
F 27	12 4 12	2°50'45	3♑26	21°20	11° 0	5°56	25°23	14°57	8°54	11°34	6° 5	15°D31	14°57	5°12	n.a.	F 27
S 28	12 8 8	3°48'57	17°35	21°44	12°10	6°40	25°29	15° 5	8°57	11°32	6° 6	15°32	14°54	5°18	n.a.	S 28
S 29	12 12 5	4°47'08	1♒55	22° 3	13°20	7°23	25°35	15°13	8°59	11°31	6° 7	15°33	14°51	5°25	n.a.	S 29
M30	12 16 1	5°45'18	16°23	22°16	14°30	8° 7	25°41	15°21	9° 1	11°29	6° 8	15°34	14°47	5°32	n.a.	M30
T 31	12 19 58	6♈43'26	0♓56	22♈24	15♉39	8♈50	25♊48	15♈28	9♒ 3	11♎27	6♒ 9	15♍35	14♍44	5♌38	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	8s53	17s42	4n16	7s20	0s39	4n 8	0n 4	5s57	0s43	23n59	0n25	2n34	2s19	19s11	0s40	3s 2	2n 1	30s34	11s52	5n43	5n27	16n23			n.a.
M 2	8 30	15 34	3 19	6 23	0 29	4 40	0 7	5 39	0 42	23 59	0 25	2 37	2 19	19 11	0 40	3 1	2 1	30 34	11 52	5 44	5 29	16 22			n.a.
T 3	8 8	12 23	2 9	5 25	0 18	5 11	0 10	5 21	0 41	23 59	0 25	2 40	2 18	19 10	0 40	3 1	2 1	30 34	11 52	5 44	5 30	16 21			n.a.
W 4	7 46	8 23	0 49	4 27	0 8	5 43	0 13	5 2	0 41	23 59	0 25	2 43	2 18	19 9	0 40	3 0	2 1	30 33	11 53	5 44	5 31	16 20			n.a.
T 5	7 23	3 54	0s33	3 29	0n 4	6 14	0 16	4 44	0 40	23 59	0 25	2 46	2 18	19 8	0 40	2 59	2 1	30 33	11 53	5 44	5 32	16 20			n.a.
F 6	7 0	0n43	1 51	2 30	0 15	6 45	0 20	4 26	0 40	23 59	0 25	2 49	2 18	19 8	0 40	2 59	2 1	30 33	11 53	5 44	5 34	16 19			n.a.
S 7	6 37	5 10	3 0	1 32	0 27	7 15	0 23	4 8	0 39	24 0	0 25	2 52	2 18	19 7	0 40	2 58	2 1	30 33	11 53	5 44	5 35	16 18			n.a.
S 8	6 15	9 13	3 57	0 35	0 38	7 46	0 26	3 49	0 39	24 0	0 25	2 55	2 18	19 6	0 40	2 58	2 1	30 33	11 54	5 44	5 36	16 17			n.a.
M 9	5 52	12 39	4 39	0n22	0 50	8 17	0 29	3 31	0 38	24 0	0 25	2 58	2 18	19 5	0 40	2 57	2 1	30 33	11 54	5 44	5 37	16 16			n.a.
T 10	5 29	15 23	5 6	1 17	1 2	8 47	0 33	3 13	0 38	24 0	0 25	3 1	2 18	19 5	0 40	2 57	2 1	30 33	11 54	5 44	5 39	16 15			n.a.
W11	5 5	17 18	5 17	2 12	1 14	9 17	0 36	2 54	0 37	24 0	0 25	3 4	2 17	19 4	0 40	2 56	2 1	30 32	11 54	5 44	5 40	16 14			n.a.
T 12	4 42	18 23	5 14	3 4	1 25	9 47	0 39	2 36	0 36	24 1	0 25	3 7	2 17	19 3	0 40	2 55	2 1	30 32	11 54	5 44	5 41	16 13			n.a.
F 13	4 19	18 36	4 57	3 55	1 36	10 17	0 43	2 18	0 36	24 1	0 26	3 10	2 17	19 2	0 40	2 55	2 1	30 32	11 55	5 44	5 42	16 12			n.a.
S 14	3 56	18 0	4 27	4 44	1 47	10 46	0 46	1 59	0 35	24 1	0 26	3 13	2 17	19 2	0 40	2 54	2 1	30 32	11 55	5 44	5 44	16 12			n.a.
S 15	3 32	16 37	3 46	5 31	1 57	11 15	0 49	1 41	0 35	24 1	0 26	3 16	2 17	19 1	0 40	2 54	2 1	30 32	11 55	5 43	5 45	16 11			n.a.
M16	3 9	14 31	2 55	6 15	2 7	11 44	0 52	1 23	0 34	24 1	0 26	3 19	2 17	19 0	0 40	2 53	2 1	30 32	11 55	5 43	5 46	16 10			n.a.
T 17	2 46	11 48	1 57	6 57	2 16	12 13	0 56	1 4	0 34	24 2	0 26	3 22	2 17	19 0	0 40	2 52	2 1	30 32	11 56	5 43	5 47	16 9			n.a.
W18	2 22	8 33	0 53	7 36	2 25	12 41	0 59	0 46	0 33	24 2	0 26	3 25	2 17	18 59	0 40	2 52	2 1	30 32	11 56	5 43	5 48	16 8			n.a.
T 19	1 59	4 54	0n15	8 12	2 33	13 9	1 2	0 28	0 32	24 2	0 26	3 28	2 17	18 58	0 40	2 51	2 1	30 32	11 56	5 43	5 50	16 7			n.a.
F 20	1 35	0 59	1 22	8 45	2 40	13 37	1 6	0 10	0 32	24 2	0 26	3 31	2 16	18 58	0 40	2 50	2 1	30 32	11 57	5 43	5 51	16 6			n.a.
S 21	1 12	3s 2	2 27	9 16	2 46	14 4	1 9	0n 9	0 31	24 3	0 26	3 34	2 16	18 57	0 40	2 50	2 1	30 32	11 57	5 43	5 52	16 5			n.a.
S 22	0 49	6 59	3 25	9 43	2 51	14 31	1 12	0 27	0 31	24 3	0 26	3 37	2 16	18 56	0 40	2 49	2 1	30 31	11 57	5 44	5 53	16 4			n.a.
M23	0 25	10 39	4 14	10 8	2 56	14 58	1 15	0 45	0 30	24 3	0 26	3 40	2 16	18 56	0 40	2 49	2 1	30 31	11 57	5 44	5 55	16 3			n.a.
T 24	0 2	13 52	4 51	10 29	2 59	15 25	1 19	1 3	0 30	24 3	0 26	3 43	2 16	18 55	0 40	2 48	2 1	30 31	11 58	5 45	5 56	16 2			n.a.
W25	0n22	16 24	5 12	10 47	3 2	15 51	1 22	1 21	0 29	24 4	0 26	3 46	2 16	18 54	0 40	2 47	2 1	30 31	11 58	5 46	5 57	16 1			n.a.
T 26	0 45	18 3	5 15	11 2	3 3	16 16	1 25	1 39	0 28	24 4	0 26	3 49	2 16	18 54	0 40	2 47	2 1	30 31	11 58	5 46	5 58	16 0			n.a.
F 27	1 9	18 39	5 1	11 14	3 3	16 42	1 28	1 57	0 28	24 4	0 26	3 52	2 16	18 53	0 40	2 46	2 1	30 31	11 58	5 46	6 0	15 59			n.a.
S 28	1 32	18 7	4 28	11 22	3 2	17 6	1 31	2 15	0 27	24 4	0 26	3 55	2 16	18 53	0 40	2 45	2 1	30 31	11 59	5 46	6 1	15 58			n.a.
S 29	1 55	16 25	3 38	11 27	2 59	17 31	1 34	2 33	0 27	24 5	0 26	3 58	2 16	18 52	0 40	2 45	2 1	30 31	11 59	5 46	6 2	15 58			n.a.
M30	2 19	13 39	2 34	11 29	2 56	17 55	1 37	2 51	0 26	24 5	0 26	4 2	2 16	18 51	0 40	2 44	2 1	30 31	11 59	5 45	6 3	15 57			n.a.
T 31	2n42	10s 1	1n20	11n27	2n51	18n19	1n40	3n 9	0s25	24n 5	0n26	4n 5	2s16	18s51	0s40	2s43	2n 1	30s31	12s 0	5n45	6n 5	15n56			n.a.

Julian Day Number = 1655372.5, Delta T = 03h28m42s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°33'53, Lahiri = - 6°26'52 Julian Calendar 1 March 181 BCE == Greg. Calendar 27 Feb. 181 BCE

The year -180 astronomical counting style corresponds to year 181 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 181 BCE
geocentric

APRIL 181 BCE (-180) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 23 55	7♈41'32	15♓28	22°R26	16♉48	9♈34	25♊54	15♈36	9♒ 6	11°R26	6♒10	15°R36	14♍41	5♌45	n.a.	W 1
T 2	12 27 51	8°39'37	29°54	22♈23	17°58	10°17	26° 1	15°44	9° 8	11♎24	6°11	15♍35	14°38	5°52	n.a.	T 2
F 3	12 31 48	9°37'39	14♈ 8	22°15	19° 7	11° 0	26° 8	15°52	9°10	11°23	6°12	15°33	14°35	5°59	n.a.	F 3
S 4	12 35 44	10°35'41	28° 7	22° 2	20°16	11°44	26°15	15°59	9°12	11°21	6°13	15°30	14°32	6° 5	n.a.	S 4
S 5	12 39 41	11°33'40	11♉45	21°45	21°25	12°27	26°22	16° 7	9°14	11°19	6°14	15°27	14°28	6°12	n.a.	S 5
M 6	12 43 37	12°31'38	25° 1	21°23	22°33	13°10	26°30	16°15	9°16	11°18	6°15	15°23	14°25	6°19	n.a.	M 6
T 7	12 47 34	13°29'33	7♊55	20°58	23°42	13°53	26°37	16°23	9°18	11°16	6°15	15°19	14°22	6°25	n.a.	T 7
W 8	12 51 30	14°27'27	20°28	20°29	24°50	14°36	26°45	16°31	9°20	11°14	6°16	15°16	14°19	6°32	n.a.	W 8
T 9	12 55 27	15°25'19	2♋44	19°58	25°59	15°19	26°52	16°39	9°22	11°13	6°17	15°13	14°16	6°39	n.a.	T 9
F 10	12 59 23	16°23'09	14°47	19°24	27° 7	16° 2	27° 0	16°46	9°23	11°11	6°18	15°D13	14°13	6°45	n.a.	F 10
S 11	13 3 20	17°20'58	26°41	18°49	28°15	16°45	27° 8	16°54	9°25	11°10	6°18	15°13	14° 9	6°52	n.a.	S 11
S 12	13 7 17	18°18'44	8♌31	18°13	29°23	17°28	27°16	17° 2	9°27	11° 8	6°19	15°14	14° 6	6°59	n.a.	S 12
M13	13 11 13	19°16'29	20°22	17°37	0♊31	18°11	27°24	17°10	9°29	11° 6	6°20	15°16	14° 3	7° 5	n.a.	M13
T 14	13 15 10	20°14'12	2♍19	17° 1	1°38	18°54	27°33	17°18	9°30	11° 5	6°20	15°18	14° 0	7°12	n.a.	T 14
W15	13 19 6	21°11'53	14°26	16°27	2°46	19°37	27°41	17°25	9°32	11° 3	6°21	15°R18	13°57	7°19	n.a.	W15
T 16	13 23 3	22° 9'33	26°46	15°53	3°53	20°19	27°50	17°33	9°33	11° 2	6°22	15°18	13°53	7°25	n.a.	T 16
F 17	13 26 59	23° 7'11	9♎21	15°22	5° 0	21° 2	27°58	17°41	9°35	11° 0	6°22	15°15	13°50	7°32	n.a.	F 17
S 18	13 30 56	24° 4'48	22°14	14°54	6° 7	21°44	28° 7	17°49	9°36	10°58	6°23	15°11	13°47	7°39	n.a.	S 18
S 19	13 34 52	25° 2'23	5♏23	14°28	7°14	22°27	28°16	17°57	9°38	10°57	6°23	15° 6	13°44	7°45	n.a.	S 19
M20	13 38 49	25°59'57	18°48	14° 6	8°21	23° 9	28°25	18° 4	9°39	10°55	6°24	14°59	13°41	7°52	n.a.	M20
T 21	13 42 46	26°57'30	2♐27	13°48	9°27	23°52	28°34	18°12	9°41	10°54	6°24	14°53	13°38	7°59	n.a.	T 21
W22	13 46 42	27°55'02	16°18	13°33	10°33	24°34	28°43	18°20	9°42	10°52	6°25	14°47	13°34	8° 5	n.a.	W22
T 23	13 50 39	28°52'33	0♑17	13°23	11°39	25°17	28°53	18°28	9°43	10°51	6°25	14°42	13°31	8°12	n.a.	T 23
F 24	13 54 35	29°50'03	14°22	13°18	12°45	25°59	29° 2	18°35	9°44	10°49	6°26	14°39	13°28	8°19	n.a.	F 24
S 25	13 58 32	0♉47'31	28°30	13°D16	13°51	26°41	29°12	18°43	9°45	10°48	6°26	14°D38	13°25	8°25	n.a.	S 25
S 26	14 2 28	1°45'00	12♒40	13°20	14°56	27°23	29°21	18°51	9°47	10°46	6°26	14°38	13°22	8°32	n.a.	S 26
M27	14 6 25	2°42'27	26°51	13°27	16° 2	28° 5	29°31	18°59	9°48	10°45	6°27	14°39	13°18	8°39	n.a.	M27
T 28	14 10 21	3°39'53	11♓ 1	13°40	17° 7	28°47	29°41	19° 6	9°49	10°43	6°27	14°R40	13°15	8°45	n.a.	T 28
W29	14 14 18	4°37'18	25° 7	13°56	18°12	29°29	29°51	19°14	9°50	10°42	6°27	14°40	13°12	8°52	n.a.	W29
T 30	14 18 15	5♉34'43	9♈ 7	14♈17	19♊16	0♉11	0♋ 1	19♈22	9♒50	10♎40	6♒28	14♍37	13♍ 9	8♌59	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	3n 5	5s47	0n 1	11n23	2n45	18n42	1n43	3n27	0s25	24n 5	0n26	4n 8	2s16	18s50	0s40	2s43	2n 1	30s31	12s 0	5n45	6n 6	15n55		n.a.
T 2	3 28	1 14	1s18	11 15	2 38	19 4	1 46	3 45	0 24	24 5	0 26	4 11	2 16	18 50	0 41	2 42	2 1	30 32	12 0	5 45	6 7	15 54		n.a.
F 3	3 51	3n20	2 31	11 4	2 29	19 27	1 49	4 3	0 24	24 6	0 26	4 14	2 15	18 49	0 41	2 41	2 1	30 32	12 1	5 45	6 8	15 53		n.a.
S 4	4 14	7 37	3 33	10 50	2 19	19 48	1 52	4 20	0 23	24 6	0 26	4 17	2 15	18 49	0 41	2 41	2 1	30 32	12 1	5 47	6 10	15 52		n.a.
S 5	4 37	11 23	4 21	10 33	2 8	20 10	1 54	4 38	0 22	24 6	0 26	4 20	2 15	18 48	0 41	2 40	2 1	30 32	12 1	5 48	6 11	15 51		n.a.
M 6	5 0	14 29	4 54	10 13	1 56	20 30	1 57	4 55	0 22	24 6	0 26	4 23	2 15	18 48	0 41	2 40	2 1	30 32	12 1	5 50	6 12	15 50		n.a.
T 7	5 23	16 46	5 11	9 51	1 43	20 51	2 0	5 13	0 21	24 7	0 26	4 26	2 15	18 47	0 41	2 39	2 1	30 32	12 2	5 51	6 13	15 49		n.a.
W 8	5 46	18 11	5 12	9 27	1 29	21 10	2 2	5 30	0 21	24 7	0 26	4 29	2 15	18 47	0 41	2 38	2 1	30 32	12 2	5 52	6 15	15 48		n.a.
T 9	6 8	18 42	4 59	9 1	1 14	21 30	2 5	5 48	0 20	24 7	0 27	4 32	2 15	18 46	0 41	2 38	2 1	30 32	12 2	5 53	6 16	15 47		n.a.
F 10	6 31	18 22	4 33	8 34	0 58	21 48	2 7	6 5	0 19	24 7	0 27	4 35	2 15	18 46	0 41	2 37	2 1	30 32	12 3	5 54	6 17	15 46		n.a.
S 11	6 53	17 13	3 55	8 6	0 41	22 6	2 10	6 22	0 19	24 8	0 27	4 38	2 15	18 45	0 41	2 36	2 1	30 32	12 3	5 53	6 18	15 45		n.a.
S 12	7 16	15 19	3 8	7 36	0 25	22 24	2 12	6 39	0 18	24 8	0 27	4 41	2 15	18 45	0 41	2 36	2 1	30 32	12 3	5 53	6 19	15 44		n.a.
M13	7 38	12 47	2 12	7 7	0 8	22 41	2 15	6 56	0 18	24 8	0 27	4 44	2 15	18 45	0 41	2 35	2 1	30 33	12 4	5 52	6 21	15 43		n.a.
T 14	8 0	9 40	1 10	6 37	0s 9	22 57	2 17	7 13	0 17	24 8	0 27	4 47	2 15	18 44	0 41	2 34	2 1	30 33	12 4	5 52	6 22	15 42		n.a.
W15	8 22	6 7	0 5	6 8	0 27	23 13	2 19	7 30	0 16	24 8	0 27	4 50	2 15	18 44	0 41	2 34	2 1	30 33	12 4	5 51	6 23	15 41		n.a.
T 16	8 44	2 15	1n 2	5 39	0 43	23 29	2 21	7 47	0 16	24 9	0 27	4 53	2 15	18 43	0 41	2 33	2 1	30 33	12 5	5 52	6 24	15 40		n.a.
F 17	9 5	1s48	2 7	5 12	1 0	23 43	2 23	8 4	0 15	24 9	0 27	4 56	2 15	18 43	0 41	2 33	2 1	30 33	12 5	5 52	6 26	15 39		n.a.
S 18	9 27	5 51	3 7	4 46	1 16	23 57	2 25	8 21	0 15	24 9	0 27	4 59	2 15	18 43	0 41	2 32	2 1	30 33	12 5	5 54	6 27	15 38		n.a.
S 19	9 48	9 43	3 59	4 22	1 31	24 11	2 27	8 37	0 14	24 9	0 27	5 2	2 15	18 42	0 41	2 31	2 1	30 33	12 6	5 56	6 28	15 37		n.a.
M20	10 9	13 10	4 38	4 0	1 46	24 24	2 29	8 54	0 13	24 9	0 27	5 5	2 15	18 42	0 41	2 31	2 1	30 34	12 6	5 59	6 29	15 36		n.a.
T 21	10 30	15 57	5 2	3 40	2 0	24 36	2 30	9 10	0 13	24 9	0 27	5 8	2 15	18 42	0 41	2 30	2 1	30 34	12 6	6 1	6 31	15 35		n.a.
W22	10 51	17 53	5 9	3 22	2 13	24 47	2 32	9 26	0 12	24 10	0 27	5 11	2 15	18 41	0 41	2 30	2 1	30 34	12 7	6 4	6 32	15 34		n.a.
T 23	11 12	18 45	4 58	3 7	2 25	24 58	2 33	9 43	0 11	24 10	0 27	5 14	2 15	18 41	0 41	2 29	2 1	30 34	12 7	6 6	6 33	15 33		n.a.
F 24	11 33	18 28	4 29	2 55	2 36	25 9	2 35	9 59	0 11	24 10	0 27	5 17	2 15	18 41	0 41	2 28	2 1	30 34	12 7	6 7	6 34	15 32		n.a.
S 25	11 53	17 3	3 43	2 45	2 46	25 18	2 36	10 15	0 10	24 10	0 27	5 20	2 15	18 40	0 41	2 28	2 1	30 35	12 8	6 7	6 36	15 31		n.a.
S 26	12 13	14 35	2 44	2 38	2 55	25 27	2 37	10 31	0 10	24 10	0 27	5 23	2 15	18 40	0 41	2 27	2 1	30 35	12 8	6 7	6 37	15 30		n.a.
M27	12 33	11 13	1 35	2 34	3 3	25 36	2 38	10 46	0 9	24 10	0 27	5 26	2 15	18 40	0 41	2 27	2 1	30 35	12 8	6 7	6 38	15 29		n.a.
T 28	12 53	7 13	0 20	2 32	3 10	25 43	2 39	11 2	0 8	24 10	0 27	5 29	2 15	18 40	0 41	2 26	2 1	30 35	12 9	6 6	6 39	15 28		n.a.
W29	13 13	2 49	0s56	2 33	3 16	25 51	2 40	11 18	0 8	24 10	0 27	5 32	2 15	18 39	0 41	2 26	2 1	30 36	12 9	6 6	6 40	15 27		n.a.
T 30	13n32	1n42	2s 8	2n37	3s21	25n57	2n41	11n33	0s 7	24n10	0n27	5n35	2s15	18s39	0s42	2s25	2n 1	30s36	12s 9	6n 7	6n42	15n26		n.a.

Julian Day Number = 1655403.5, Delta T = 03h28m41s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°33'49, Lahiri = - 6°26'48 Julian Calendar 1 Apr. 181 BCE == Greg. Calendar 29 March 181 BCE

The year -180 astronomical counting style corresponds to year 181 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 181 BCE
geocentric

MAY 181 BCE (-180) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 22 11	6♉32'07	22♈58	14♈43	20♊21	0♉53	0♋11	19♈29	9♒51	10°R39	6♒28	14°R33	13♍ 6	9♌ 5	n.a.	F 1
S 2	14 26 8	7°29'30	6♉36	15°13	21°25	1°35	0°21	19°37	9°52	10♎37	6°28	14♍26	13° 3	9°12	n.a.	S 2
S 3	14 30 4	8°26'51	20° 0	15°46	22°29	2°17	0°31	19°44	9°53	10°36	6°28	14°17	12°59	9°19	n.a.	S 3
M 4	14 34 1	9°24'12	3♊ 7	16°24	23°33	2°59	0°42	19°52	9°54	10°34	6°29	14° 8	12°56	9°25	n.a.	M 4
T 5	14 37 57	10°21'32	15°55	17° 6	24°37	3°41	0°52	19°59	9°54	10°33	6°29	13°59	12°53	9°32	n.a.	T 5
W 6	14 41 54	11°18'51	28°25	17°52	25°40	4°22	1° 3	20° 7	9°55	10°32	6°29	13°50	12°50	9°39	n.a.	W 6
T 7	14 45 50	12°16'09	10♋40	18°42	26°43	5° 4	1°13	20°14	9°56	10°30	6°29	13°44	12°47	9°45	n.a.	T 7
F 8	14 49 47	13°13'26	22°42	19°35	27°46	5°45	1°24	20°22	9°56	10°29	6°29	13°39	12°44	9°52	n.a.	F 8
S 9	14 53 44	14°10'42	4♌36	20°32	28°48	6°27	1°35	20°29	9°57	10°28	6°29	13°37	12°40	9°59	n.a.	S 9
S 10	14 57 40	15° 7'56	16°26	21°32	29°50	7° 8	1°45	20°37	9°57	10°27	6°R29	13°D37	12°37	10° 5	n.a.	S 10
M11	15 1 37	16° 5'10	28°17	22°36	0♋52	7°50	1°56	20°44	9°57	10°25	6°29	13°37	12°34	10°12	n.a.	M11
T 12	15 5 33	17° 2'23	10♍15	23°43	1°54	8°31	2° 7	20°51	9°58	10°24	6°29	13°R38	12°31	10°19	n.a.	T 12
W13	15 9 30	17°59'35	22°25	24°53	2°55	9°13	2°19	20°59	9°58	10°23	6°29	13°37	12°28	10°25	n.a.	W13
T 14	15 13 26	18°56'46	4♎51	26° 7	3°56	9°54	2°30	21° 6	9°58	10°22	6°29	13°35	12°24	10°32	n.a.	T 14
F 15	15 17 23	19°53'56	17°37	27°24	4°57	10°35	2°41	21°13	9°58	10°20	6°29	13°31	12°21	10°39	n.a.	F 15
S 16	15 21 19	20°51'06	0♏44	28°44	5°57	11°16	2°52	21°20	9°59	10°19	6°29	13°24	12°18	10°45	n.a.	S 16
S 17	15 25 16	21°48'15	14°14	0♉ 7	6°57	11°57	3° 4	21°27	9°59	10°18	6°29	13°15	12°15	10°52	n.a.	S 17
M18	15 29 13	22°45'23	28° 3	1°34	7°56	12°38	3°15	21°35	9°R59	10°17	6°28	13° 5	12°12	10°59	n.a.	M18
T 19	15 33 9	23°42'31	12♐ 9	3° 3	8°55	13°20	3°26	21°42	9°59	10°16	6°28	12°54	12° 9	11° 5	n.a.	T 19
W20	15 37 6	24°39'39	26°25	4°36	9°54	14° 1	3°38	21°49	9°59	10°15	6°28	12°45	12° 5	11°12	n.a.	W20
T 21	15 41 2	25°36'47	10♑48	6°11	10°53	14°41	3°50	21°56	9°59	10°14	6°28	12°37	12° 2	11°19	n.a.	T 21
F 22	15 44 59	26°33'54	25°10	7°50	11°51	15°22	4° 1	22° 3	9°58	10°13	6°27	12°31	11°59	11°25	n.a.	F 22
S 23	15 48 55	27°31'01	9♒29	9°31	12°48	16° 3	4°13	22° 9	9°58	10°12	6°27	12°28	11°56	11°32	n.a.	S 23
S 24	15 52 52	28°28'09	23°41	11°16	13°45	16°44	4°25	22°16	9°58	10°11	6°27	12°D27	11°53	11°39	n.a.	S 24
M25	15 56 48	29°25'16	7♓45	13° 3	14°42	17°25	4°37	22°23	9°58	10°10	6°26	12°R27	11°50	11°45	n.a.	M25
T 26	16 0 45	0♊22'23	21°40	14°53	15°38	18° 6	4°49	22°30	9°57	10° 9	6°26	12°27	11°46	11°52	n.a.	T 26
W27	16 4 42	1°19'31	5♈26	16°46	16°34	18°46	5° 1	22°37	9°57	10° 8	6°26	12°25	11°43	11°59	n.a.	W27
T 28	16 8 38	2°16'38	19° 3	18°42	17°29	19°27	5°13	22°43	9°57	10° 7	6°25	12°21	11°40	12° 5	n.a.	T 28
F 29	16 12 35	3°13'46	2♉30	20°40	18°24	20° 8	5°25	22°50	9°56	10° 7	6°25	12°15	11°37	12°12	n.a.	F 29
S 30	16 16 31	4°10'54	15°46	22°40	19°18	20°48	5°37	22°57	9°55	10° 6	6°24	12° 5	11°34	12°19	n.a.	S 30
S 31	16 20 28	5♊ 8'02	28♉49	24♉42	20♋12	21♉29	5♋49	23♈ 3	9♒55	10♎ 5	6♒24	11♍54	11♍30	12♌25	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13n51	6n 4	3s11	2n43	3s25	26n 3	2n42	11n49	0s 7	24n10	0n27	5n37	2s15	18s39	0s42	2s24	2n 1	30s36	12s10	6n 9	6n43	15n25		n.a.
S 2	14 10	10 4	4 2	2 52	3 28	26 8	2 42	12 4	0 6	24 10	0 27	5 40	2 15	18 39	0 42	2 24	2 1	30 36	12 10	6 12	6 44	15 24		n.a.
S 3	14 29	13 28	4 39	3 3	3 30	26 12	2 43	12 19	0 5	24 10	0 27	5 43	2 15	18 39	0 42	2 23	2 1	30 37	12 10	6 15	6 45	15 22		n.a.
M 4	14 47	16 7	5 0	3 17	3 31	26 16	2 43	12 34	0 5	24 10	0 28	5 46	2 16	18 38	0 42	2 23	2 1	30 37	12 11	6 19	6 47	15 21		n.a.
T 5	15 6	17 54	5 5	3 33	3 31	26 19	2 43	12 49	0 4	24 10	0 28	5 49	2 16	18 38	0 42	2 22	2 1	30 37	12 11	6 22	6 48	15 20		n.a.
W 6	15 24	18 47	4 56	3 51	3 31	26 22	2 43	13 4	0 4	24 10	0 28	5 52	2 16	18 38	0 42	2 22	2 1	30 38	12 12	6 26	6 49	15 19		n.a.
T 7	15 42	18 45	4 33	4 11	3 29	26 23	2 43	13 19	0 3	24 10	0 28	5 54	2 16	18 38	0 42	2 21	2 1	30 38	12 12	6 28	6 50	15 18		n.a.
F 8	15 59	17 52	3 58	4 33	3 27	26 25	2 43	13 33	0 2	24 10	0 28	5 57	2 16	18 38	0 42	2 21	2 1	30 38	12 12	6 30	6 52	15 17		n.a.
S 9	16 17	16 12	3 13	4 58	3 24	26 25	2 43	13 48	0 2	24 10	0 28	6 0	2 16	18 38	0 42	2 20	2 1	30 39	12 13	6 31	6 53	15 16		n.a.
S 10	16 34	13 52	2 20	5 24	3 20	26 25	2 42	14 2	0 1	24 10	0 28	6 3	2 16	18 38	0 42	2 20	2 1	30 39	12 13	6 31	6 54	15 15		n.a.
M11	16 50	10 56	1 21	5 52	3 16	26 24	2 42	14 16	0 0	24 10	0 28	6 5	2 16	18 38	0 42	2 19	2 1	30 39	12 13	6 31	6 55	15 14		n.a.
T 12	17 7	7 32	0 18	6 21	3 11	26 23	2 41	14 31	0n 0	24 10	0 28	6 8	2 16	18 38	0 42	2 19	2 1	30 40	12 14	6 31	6 56	15 13		n.a.
W13	17 23	3 46	0n47	6 53	3 5	26 21	2 40	14 44	0 1	24 10	0 28	6 11	2 16	18 38	0 42	2 19	2 1	30 40	12 14	6 31	6 58	15 12		n.a.
T 14	17 39	0s15	1 51	7 26	2 58	26 18	2 39	14 58	0 1	24 9	0 28	6 13	2 16	18 38	0 42	2 18	2 1	30 40	12 14	6 31	6 59	15 11		n.a.
F 15	17 55	4 22	2 51	8 0	2 52	26 15	2 38	15 12	0 2	24 9	0 28	6 16	2 16	18 38	0 42	2 18	2 1	30 41	12 15	6 33	7 0	15 10		n.a.
S 16	18 10	8 23	3 43	8 36	2 44	26 11	2 37	15 26	0 3	24 9	0 28	6 19	2 16	18 38	0 42	2 17	2 1	30 41	12 15	6 36	7 1	15 9		n.a.
S 17	18 26	12 5	4 25	9 13	2 36	26 7	2 35	15 39	0 3	24 9	0 28	6 21	2 16	18 38	0 42	2 17	2 1	30 41	12 15	6 39	7 3	15 7		n.a.
M18	18 40	15 12	4 52	9 51	2 27	26 2	2 34	15 52	0 4	24 9	0 28	6 24	2 17	18 38	0 42	2 16	2 0	30 42	12 16	6 43	7 4	15 6		n.a.
T 19	18 55	17 31	5 2	10 31	2 18	25 56	2 32	16 5	0 4	24 8	0 28	6 26	2 17	18 38	0 42	2 16	2 0	30 42	12 16	6 47	7 5	15 5		n.a.
W20	19 9	18 46	4 54	11 11	2 9	25 50	2 30	16 18	0 5	24 8	0 28	6 29	2 17	18 38	0 42	2 16	2 0	30 42	12 16	6 51	7 6	15 4		n.a.
T 21	19 23	18 50	4 27	11 52	1 59	25 43	2 28	16 31	0 6	24 8	0 28	6 31	2 17	18 38	0 42	2 15	2 0	30 43	12 17	6 54	7 7	15 3		n.a.
F 22	19 37	17 41	3 43	12 34	1 48	25 36	2 26	16 44	0 6	24 8	0 28	6 34	2 17	18 38	0 42	2 15	2 0	30 43	12 17	6 56	7 9	15 2		n.a.
S 23	19 50	15 26	2 45	13 17	1 38	25 28	2 23	16 57	0 7	24 7	0 28	6 36	2 17	18 38	0 42	2 15	2 0	30 44	12 17	6 58	7 10	15 1		n.a.
S 24	20 3	12 14	1 38	14 0	1 27	25 19	2 21	17 9	0 8	24 7	0 28	6 39	2 17	18 38	0 42	2 14	2 0	30 44	12 18	6 58	7 11	15 0		n.a.
M25	20 15	8 22	0 25	14 44	1 16	25 11	2 18	17 21	0 8	24 6	0 29	6 41	2 17	18 38	0 42	2 14	2 0	30 44	12 18	6 58	7 12	14 59		n.a.
T 26	20 28	4 5	0s49	15 28	1 4	25 1	2 15	17 33	0 9	24 6	0 29	6 44	2 17	18 38	0 43	2 14	2 0	30 45	12 18	6 58	7 14	14 58		n.a.
W27	20 40	0n22	1 59	16 12	0 53	24 51	2 12	17 45	0 9	24 6	0 29	6 46	2 18	18 38	0 43	2 13	2 0	30 45	12 19	6 59	7 15	14 56		n.a.
T 28	20 51	4 46	3 1	16 55	0 42	24 41	2 8	17 57	0 10	24 5	0 29	6 49	2 18	18 39	0 43	2 13	2 0	30 46	12 19	7 0	7 16	14 55		n.a.
F 29	21 3	8 51	3 52	17 38	0 30	24 30	2 5	18 9	0 11	24 5	0 29	6 51	2 18	18 39	0 43	2 13	2 0	30 46	12 19	7 3	7 17	14 54		n.a.
S 30	21 14	12 27	4 30	18 21	0 19	24 18	2 1	18 20	0 11	24 4	0 29	6 53	2 18	18 39	0 43	2 12	2 0	30 47	12 20	7 6	7 19	14 53		n.a.
S 31	21n24	15n22	4s53	19n 3	0s 7	24n 7	1n57	18n32	0n12	24n 4	0n29	6n56	2s18	18s39	0s43	2s12	2n 0	30s47	12s20	7n11	7n20	14n52		n.a.

Julian Day Number = 1655433.5, Delta T = 03h28m40s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°33'44, Lahiri = - 6°26'44 Julian Calendar 1 May 181 BCE == Greg. Calendar 28 Apr. 181 BCE

The year -180 astronomical counting style corresponds to year 181 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 181 BCE
geocentric

JUNE 181 BCE (-180) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 24 24	6♊ 5'10	11♊39	26♉46	21♋ 5	22♉ 9	6♋ 1	23♈10	9°R54	10°R 4	6°R23	11°R41	11♍27	12♌32	n.a.	M 1
T 2	16 28 21	7° 2'18	24°15	28°52	21°58	22°50	6°14	23°16	9♒54	10♎ 3	6♒23	11♍28	11°24	12°39	n.a.	T 2
W 3	16 32 18	7°59'26	6♋37	0♊59	22°50	23°30	6°26	23°22	9°53	10° 3	6°22	11°16	11°21	12°45	n.a.	W 3
T 4	16 36 14	8°56'33	18°46	3° 7	23°41	24°10	6°38	23°29	9°52	10° 2	6°22	11° 7	11°18	12°52	n.a.	T 4
F 5	16 40 11	9°53'41	0♌45	5°16	24°32	24°51	6°51	23°35	9°51	10° 1	6°21	11° 0	11°15	12°59	n.a.	F 5
S 6	16 44 7	10°50'49	12°36	7°26	25°21	25°31	7° 3	23°41	9°51	10° 1	6°21	10°55	11°11	13° 5	n.a.	S 6
S 7	16 48 4	11°47'56	24°24	9°36	26°11	26°11	7°16	23°47	9°50	10° 0	6°20	10°53	11° 8	13°12	n.a.	S 7
M 8	16 52 0	12°45'04	6♍14	11°45	26°59	26°51	7°28	23°53	9°49	10° 0	6°19	10°53	11° 5	13°19	n.a.	M 8
T 9	16 55 57	13°42'12	18°11	13°55	27°47	27°31	7°41	23°59	9°48	9°59	6°19	10°53	11° 2	13°25	n.a.	T 9
W10	16 59 53	14°39'19	0♎21	16° 4	28°34	28°11	7°53	24° 5	9°47	9°59	6°18	10°52	10°59	13°32	n.a.	W10
T 11	17 3 50	15°36'27	12°48	18°12	29°20	28°51	8° 6	24°11	9°46	9°58	6°17	10°50	10°55	13°39	n.a.	T 11
F 12	17 7 47	16°33'34	25°38	20°19	0♌ 6	29°31	8°19	24°17	9°44	9°58	6°17	10°45	10°52	13°45	n.a.	F 12
S 13	17 11 43	17°30'42	8♏53	22°25	0°50	0♊11	8°31	24°23	9°43	9°57	6°16	10°39	10°49	13°52	n.a.	S 13
S 14	17 15 40	18°27'50	22°35	24°30	1°33	0°51	8°44	24°28	9°42	9°57	6°15	10°29	10°46	13°59	n.a.	S 14
M15	17 19 36	19°24'59	6♐41	26°33	2°16	1°31	8°57	24°34	9°41	9°57	6°14	10°19	10°43	14° 5	n.a.	M15
T 16	17 23 33	20°22'08	21° 8	28°35	2°58	2°11	9°10	24°40	9°40	9°56	6°14	10° 8	10°40	14°12	n.a.	T 16
W17	17 27 29	21°19'17	5♑49	0♋36	3°38	2°51	9°22	24°45	9°38	9°56	6°13	9°57	10°36	14°19	n.a.	W17
T 18	17 31 26	22°16'27	20°36	2°34	4°17	3°30	9°35	24°50	9°37	9°56	6°12	9°49	10°33	14°25	n.a.	T 18
F 19	17 35 22	23°13'38	5♒21	4°31	4°56	4°10	9°48	24°56	9°36	9°56	6°11	9°43	10°30	14°32	n.a.	F 19
S 20	17 39 19	24°10'50	19°58	6°27	5°33	4°50	10° 1	25° 1	9°34	9°56	6°10	9°40	10°27	14°39	n.a.	S 20
S 21	17 43 16	25° 8'02	4♓22	8°20	6° 9	5°29	10°14	25° 6	9°33	9°55	6° 9	9°D38	10°24	14°45	n.a.	S 21
M22	17 47 12	26° 5'16	18°30	10°12	6°44	6° 9	10°27	25°11	9°31	9°55	6° 8	9°38	10°21	14°52	n.a.	M22
T 23	17 51 9	27° 2'30	2♈23	12° 2	7°17	6°48	10°40	25°16	9°30	9°55	6° 7	9°R38	10°17	14°59	n.a.	T 23
W24	17 55 5	27°59'46	15°59	13°51	7°49	7°28	10°53	25°21	9°28	9°55	6° 6	9°37	10°14	15° 5	n.a.	W24
T 25	17 59 2	28°57'02	29°20	15°37	8°20	8° 7	11° 6	25°26	9°26	9°D55	6° 6	9°34	10°11	15°12	n.a.	T 25
F 26	18 2 58	29°54'20	12♉29	17°22	8°49	8°47	11°19	25°31	9°25	9°55	6° 5	9°28	10° 8	15°19	n.a.	F 26
S 27	18 6 55	0♋51'39	25°24	19° 5	9°17	9°26	11°32	25°36	9°23	9°55	6° 4	9°20	10° 5	15°25	n.a.	S 27
S 28	18 10 51	1°48'58	8♊ 8	20°47	9°44	10° 5	11°45	25°41	9°21	9°55	6° 3	9° 9	10° 1	15°32	n.a.	S 28
M29	18 14 48	2°46'19	20°40	22°26	10° 8	10°45	11°58	25°45	9°20	9°55	6° 2	8°57	9°58	15°39	n.a.	M29
T 30	18 18 45	3♋43'41	3♋ 1	24♋ 4	10♌31	11♊24	12♋11	25♈50	9♒18	9♎56	6♒ 0	8♍46	9♍55	15♌45	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21n34	17n29	5s 0	19n43	0n 4	23n54	1n53	18n43	0n12	24n 3	0n29	6n58	2s18	18s39	0s43	2s12	2n 0	30s47	12s20	7n16	7n21	14n51		n.a.
T 2	21 44	18 42	4 53	20 22	0 15	23 42	1 49	18 54	0 13	24 3	0 29	7 0	2 18	18 40	0 43	2 12	2 0	30 48	12 21	7 21	7 22	14 50		n.a.
W 3	21 54	19 1	4 32	21 0	0 25	23 29	1 45	19 5	0 14	24 2	0 29	7 2	2 18	18 40	0 43	2 12	2 0	30 48	12 21	7 25	7 23	14 49		n.a.
T 4	22 3	18 26	3 59	21 36	0 35	23 15	1 40	19 16	0 14	24 2	0 29	7 5	2 19	18 40	0 43	2 11	2 0	30 49	12 21	7 29	7 25	14 47		n.a.
F 5	22 11	17 3	3 15	22 10	0 45	23 1	1 35	19 26	0 15	24 1	0 29	7 7	2 19	18 40	0 43	2 11	2 0	30 49	12 21	7 32	7 26	14 46		n.a.
S 6	22 20	14 55	2 24	22 41	0 54	22 47	1 30	19 37	0 15	24 1	0 29	7 9	2 19	18 41	0 43	2 11	2 0	30 50	12 22	7 33	7 27	14 45		n.a.
S 7	22 28	12 11	1 26	23 11	1 3	22 33	1 25	19 47	0 16	24 0	0 29	7 11	2 19	18 41	0 43	2 11	1 59	30 50	12 22	7 34	7 28	14 44		n.a.
M 8	22 35	8 57	0 25	23 37	1 11	22 18	1 19	19 57	0 17	23 59	0 29	7 13	2 19	18 41	0 43	2 11	1 59	30 51	12 22	7 34	7 29	14 43		n.a.
T 9	22 42	5 19	0n39	24 1	1 18	22 3	1 14	20 7	0 17	23 59	0 29	7 15	2 19	18 41	0 43	2 10	1 59	30 51	12 23	7 34	7 31	14 42		n.a.
W10	22 49	1 24	1 41	24 23	1 25	21 47	1 8	20 16	0 18	23 58	0 29	7 17	2 19	18 42	0 43	2 10	1 59	30 51	12 23	7 34	7 32	14 41		n.a.
T 11	22 56	2s39	2 41	24 41	1 31	21 32	1 2	20 26	0 18	23 57	0 30	7 19	2 20	18 42	0 43	2 10	1 59	30 52	12 23	7 35	7 33	14 39		n.a.
F 12	23 2	6 43	3 34	24 57	1 36	21 16	0 55	20 35	0 19	23 57	0 30	7 21	2 20	18 42	0 43	2 10	1 59	30 52	12 24	7 37	7 34	14 38		n.a.
S 13	23 7	10 34	4 17	25 10	1 40	21 0	0 49	20 45	0 20	23 56	0 30	7 23	2 20	18 43	0 43	2 10	1 59	30 53	12 24	7 40	7 36	14 37		n.a.
S 14	23 12	14 0	4 47	25 20	1 44	20 43	0 42	20 54	0 20	23 55	0 30	7 25	2 20	18 43	0 43	2 10	1 59	30 53	12 24	7 43	7 37	14 36		n.a.
M15	23 17	16 44	5 1	25 27	1 47	20 27	0 35	21 3	0 21	23 54	0 30	7 27	2 20	18 43	0 43	2 10	1 59	30 54	12 24	7 47	7 38	14 35		n.a.
T 16	23 22	18 30	4 56	25 32	1 49	20 10	0 27	21 11	0 22	23 53	0 30	7 29	2 20	18 44	0 43	2 10	1 59	30 54	12 25	7 51	7 39	14 34		n.a.
W17	23 26	19 4	4 31	25 34	1 51	19 53	0 20	21 20	0 22	23 53	0 30	7 31	2 21	18 44	0 43	2 10	1 59	30 55	12 25	7 55	7 40	14 32		n.a.
T 18	23 29	18 21	3 49	25 33	1 52	19 36	0 12	21 28	0 23	23 52	0 30	7 33	2 21	18 45	0 43	2 10	1 59	30 55	12 25	7 59	7 42	14 31		n.a.
F 19	23 32	16 23	2 51	25 30	1 52	19 19	0 4	21 36	0 23	23 51	0 30	7 35	2 21	18 45	0 43	2 10	1 59	30 56	12 25	8 1	7 43	14 30		n.a.
S 20	23 35	13 22	1 42	25 25	1 52	19 1	0s 5	21 44	0 24	23 50	0 30	7 36	2 21	18 45	0 43	2 10	1 59	30 56	12 26	8 2	7 44	14 29		n.a.
S 21	23 37	9 35	0 28	25 18	1 51	18 44	0 13	21 52	0 25	23 49	0 30	7 38	2 21	18 46	0 43	2 10	1 59	30 57	12 26	8 3	7 45	14 28		n.a.
M22	23 39	5 19	0s47	25 8	1 50	18 27	0 22	22 0	0 25	23 48	0 30	7 40	2 22	18 46	0 43	2 10	1 59	30 57	12 26	8 3	7 47	14 27		n.a.
T 23	23 41	0 50	1 58	24 57	1 48	18 9	0 31	22 7	0 26	23 47	0 30	7 41	2 22	18 47	0 43	2 10	1 58	30 58	12 26	8 3	7 48	14 25		n.a.
W24	23 42	3n35	3 0	24 43	1 45	17 52	0 41	22 14	0 26	23 46	0 30	7 43	2 22	18 47	0 44	2 10	1 58	30 58	12 27	8 3	7 49	14 24		n.a.
T 25	23 43	7 45	3 52	24 28	1 42	17 35	0 50	22 21	0 27	23 45	0 30	7 45	2 22	18 48	0 44	2 10	1 58	30 59	12 27	8 4	7 50	14 23		n.a.
F 26	23 43	11 28	4 30	24 12	1 38	17 18	1 0	22 28	0 28	23 44	0 31	7 46	2 22	18 48	0 44	2 10	1 58	30 59	12 27	8 7	7 51	14 22		n.a.
S 27	23 43	14 35	4 54	23 53	1 34	17 0	1 10	22 35	0 28	23 43	0 31	7 48	2 23	18 49	0 44	2 10	1 58	31 0	12 27	8 10	7 53	14 21		n.a.
S 28	23 42	16 56	5 3	23 33	1 29	16 43	1 21	22 41	0 29	23 42	0 31	7 49	2 23	18 49	0 44	2 10	1 58	31 0	12 28	8 14	7 54	14 19		n.a.
M29	23 41	18 27	4 56	23 12	1 24	16 26	1 32	22 48	0 29	23 41	0 31	7 51	2 23	18 50	0 44	2 10	1 58	31 1	12 28	8 18	7 55	14 18		n.a.
T 30	23n40	19n 4	4s36	22n50	1n19	16n 9	1s43	22n54	0n30	23n40	0n31	7n52	2s23	18s50	0s44	2s10	1n58	31s 1	12s28	8n23	7n56	14n17		n.a.

Julian Day Number = 1655464.5, Delta T = 03h28m39s
Ecliptic obliquity = 23°42'52, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°33'40, Lahiri = - 6°26'40 Julian Calendar 1 June 181 BCE == Greg. Calendar 29 May 181 BCE

The year -180 astronomical counting style corresponds to year 181 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 181 BCE
geocentric

JULY 181 BCE (-180) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 22 41	4♋41'04	15♋11	25♋41	10♌53	12♊ 3	12♋24	25♈54	9°R16	9♎56	5°R59	8°R35	9♍52	15♌52	n.a.	W 1
T 2	18 26 38	5°38'28	27°12	27°15	11°12	12°42	12°38	25°58	9♒14	9°56	5♒58	8♍26	9°49	15°58	n.a.	T 2
F 3	18 30 34	6°35'52	9♌ 6	28°48	11°30	13°21	12°51	26° 3	9°12	9°56	5°57	8°20	9°46	16° 5	n.a.	F 3
S 4	18 34 31	7°33'18	20°54	0♌19	11°46	14° 1	13° 4	26° 7	9°10	9°56	5°56	8°16	9°42	16°12	n.a.	S 4
S 5	18 38 27	8°30'44	2♍40	1°49	12° 0	14°40	13°17	26°11	9° 8	9°57	5°55	8°D14	9°39	16°18	n.a.	S 5
M 6	18 42 24	9°28'11	14°29	3°16	12°12	15°19	13°30	26°15	9° 6	9°57	5°54	8°14	9°36	16°25	n.a.	M 6
T 7	18 46 20	10°25'39	26°25	4°42	12°21	15°58	13°43	26°19	9° 4	9°57	5°53	8°15	9°33	16°32	n.a.	T 7
W 8	18 50 17	11°23'08	8♎33	6° 6	12°29	16°36	13°56	26°23	9° 2	9°58	5°52	8°R16	9°30	16°38	n.a.	W 8
T 9	18 54 14	12°20'38	20°59	7°28	12°34	17°15	14°10	26°26	9° 0	9°58	5°51	8°16	9°27	16°45	n.a.	T 9
F 10	18 58 10	13°18'09	3♏47	8°49	12°38	17°54	14°23	26°30	8°58	9°59	5°49	8°13	9°23	16°52	n.a.	F 10
S 11	19 2 7	14°15'41	17° 2	10° 7	12°R38	18°33	14°36	26°33	8°56	9°59	5°48	8° 9	9°20	16°58	n.a.	S 11
S 12	19 6 3	15°13'14	0♐45	11°24	12°37	19°12	14°49	26°37	8°54	10° 0	5°47	8° 3	9°17	17° 5	n.a.	S 12
M13	19 10 0	16°10'48	14°56	12°38	12°33	19°51	15° 2	26°40	8°52	10° 0	5°46	7°56	9°14	17°12	n.a.	M13
T 14	19 13 56	17° 8'24	29°32	13°51	12°27	20°29	15°16	26°44	8°50	10° 1	5°45	7°48	9°11	17°18	n.a.	T 14
W15	19 17 53	18° 6'00	14♑27	15° 1	12°19	21° 8	15°29	26°47	8°48	10° 2	5°43	7°41	9° 7	17°25	n.a.	W15
T 16	19 21 50	19° 3'38	29°32	16° 9	12° 8	21°46	15°42	26°50	8°45	10° 2	5°42	7°35	9° 4	17°32	n.a.	T 16
F 17	19 25 46	20° 1'18	14♒37	17°15	11°54	22°25	15°55	26°53	8°43	10° 3	5°41	7°31	9° 1	17°38	n.a.	F 17
S 18	19 29 43	20°58'59	29°34	18°18	11°39	23° 4	16° 8	26°56	8°41	10° 4	5°40	7°29	8°58	17°45	n.a.	S 18
S 19	19 33 39	21°56'41	14♓16	19°19	11°21	23°42	16°21	26°58	8°39	10° 4	5°39	7°D29	8°55	17°52	n.a.	S 19
M20	19 37 36	22°54'25	28°37	20°17	11° 0	24°21	16°34	27° 1	8°36	10° 5	5°37	7°30	8°52	17°58	n.a.	M20
T 21	19 41 32	23°52'11	12♈36	21°12	10°38	24°59	16°48	27° 4	8°34	10° 6	5°36	7°31	8°48	18° 5	n.a.	T 21
W22	19 45 29	24°49'59	26°13	22° 4	10°14	25°37	17° 1	27° 6	8°32	10° 7	5°35	7°R32	8°45	18°12	n.a.	W22
T 23	19 49 25	25°47'49	9♉30	22°53	9°47	26°16	17°14	27° 8	8°29	10° 8	5°34	7°31	8°42	18°18	n.a.	T 23
F 24	19 53 22	26°45'41	22°28	23°39	9°19	26°54	17°27	27°11	8°27	10° 9	5°32	7°28	8°39	18°25	n.a.	F 24
S 25	19 57 18	27°43'35	5♊10	24°22	8°49	27°32	17°40	27°13	8°25	10° 9	5°31	7°24	8°36	18°32	n.a.	S 25
S 26	20 1 15	28°41'30	17°39	25° 0	8°17	28°11	17°53	27°15	8°22	10°10	5°30	7°18	8°33	18°38	n.a.	S 26
M27	20 5 12	29°39'27	29°56	25°35	7°44	28°49	18° 6	27°17	8°20	10°11	5°29	7°11	8°29	18°45	n.a.	M27
T 28	20 9 8	0♌37'27	12♋ 4	26° 6	7°10	29°27	18°19	27°19	8°18	10°12	5°27	7° 4	8°26	18°52	n.a.	T 28
W29	20 13 5	1°35'27	24° 3	26°32	6°35	0♋ 5	18°32	27°20	8°15	10°14	5°26	6°58	8°23	18°58	n.a.	W29
T 30	20 17 1	2°33'30	5♌57	26°53	5°59	0°43	18°45	27°22	8°13	10°15	5°25	6°53	8°20	19° 5	n.a.	T 30
F 31	20 20 58	3♌31'35	17♌46	27♌ 9	5♌23	1♋21	18♋58	27♈24	8♒11	10♎16	5♒23	6♍50	8♍17	19♌12	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	23n38	18n48	4s 4	22n27	1n13	15n53	1s54	23n 0	0n30	23n39	0n31	7n54	2s23	18s51	0s44	2s10	1n58	31s 2	12s28	8n27	7n57	14n16			n.a.
T 2	23 36	17 40	3 21	22 2	1 6	15 36	2 5	23 6	0 31	23 37	0 31	7 55	2 24	18 51	0 44	2 10	1 58	31 2	12 28	8 30	7 59	14 15			n.a.
F 3	23 33	15 47	2 29	21 37	1 0	15 20	2 17	23 11	0 32	23 36	0 31	7 56	2 24	18 52	0 44	2 11	1 58	31 3	12 29	8 32	8 0	14 13			n.a.
S 4	23 30	13 15	1 32	21 10	0 53	15 4	2 29	23 17	0 32	23 35	0 31	7 58	2 24	18 52	0 44	2 11	1 58	31 3	12 29	8 34	8 1	14 12			n.a.
S 5	23 26	10 11	0 30	20 43	0 45	14 49	2 41	23 22	0 33	23 34	0 31	7 59	2 24	18 53	0 44	2 11	1 58	31 4	12 29	8 34	8 2	14 11			n.a.
M 6	23 22	6 41	0n34	20 15	0 38	14 33	2 54	23 27	0 33	23 32	0 31	8 0	2 24	18 53	0 44	2 11	1 58	31 4	12 29	8 34	8 3	14 10			n.a.
T 7	23 18	2 54	1 36	19 47	0 30	14 19	3 6	23 32	0 34	23 31	0 31	8 2	2 25	18 54	0 44	2 11	1 58	31 4	12 29	8 34	8 5	14 8			n.a.
W 8	23 13	1s 3	2 36	19 18	0 21	14 4	3 19	23 36	0 35	23 30	0 32	8 3	2 25	18 54	0 44	2 12	1 58	31 5	12 30	8 34	8 6	14 7			n.a.
T 9	23 8	5 3	3 29	18 49	0 13	13 50	3 32	23 41	0 35	23 29	0 32	8 4	2 25	18 55	0 44	2 12	1 57	31 5	12 30	8 34	8 7	14 6			n.a.
F 10	23 2	8 57	4 14	18 19	0 4	13 37	3 45	23 45	0 36	23 27	0 32	8 5	2 25	18 56	0 44	2 12	1 57	31 6	12 30	8 35	8 8	14 5			n.a.
S 11	22 56	12 32	4 47	17 50	0s 5	13 24	3 59	23 49	0 36	23 26	0 32	8 6	2 25	18 56	0 44	2 12	1 57	31 6	12 30	8 36	8 10	14 4			n.a.
S 12	22 50	15 34	5 5	17 19	0 15	13 11	4 12	23 53	0 37	23 25	0 32	8 7	2 26	18 57	0 44	2 13	1 57	31 7	12 30	8 39	8 11	14 2			n.a.
M13	22 43	17 48	5 5	16 49	0 24	12 59	4 26	23 57	0 38	23 23	0 32	8 8	2 26	18 57	0 44	2 13	1 57	31 7	12 30	8 41	8 12	14 1			n.a.
T 14	22 36	18 57	4 46	16 19	0 34	12 48	4 39	24 0	0 38	23 22	0 32	8 9	2 26	18 58	0 44	2 13	1 57	31 8	12 31	8 44	8 13	14 0			n.a.
W15	22 29	18 50	4 7	15 49	0 44	12 37	4 53	24 4	0 39	23 20	0 32	8 10	2 26	18 59	0 44	2 13	1 57	31 8	12 31	8 47	8 14	13 59			n.a.
T 16	22 21	17 23	3 10	15 19	0 54	12 27	5 6	24 7	0 39	23 19	0 32	8 11	2 27	18 59	0 44	2 14	1 57	31 9	12 31	8 49	8 16	13 57			n.a.
F 17	22 12	14 43	2 0	14 49	1 4	12 18	5 20	24 10	0 40	23 17	0 32	8 12	2 27	19 0	0 44	2 14	1 57	31 9	12 31	8 51	8 17	13 56			n.a.
S 18	22 3	11 5	0 43	14 20	1 15	12 9	5 33	24 12	0 41	23 16	0 32	8 13	2 27	19 0	0 44	2 14	1 57	31 10	12 31	8 52	8 18	13 55			n.a.
S 19	21 54	6 50	0s37	13 51	1 25	12 1	5 47	24 15	0 41	23 14	0 33	8 13	2 27	19 1	0 44	2 15	1 57	31 10	12 31	8 52	8 19	13 54			n.a.
M20	21 45	2 16	1 52	13 23	1 36	11 54	6 0	24 17	0 42	23 13	0 33	8 14	2 28	19 2	0 44	2 15	1 57	31 10	12 31	8 51	8 20	13 52			n.a.
T 21	21 35	2n18	2 59	12 55	1 47	11 48	6 12	24 19	0 42	23 11	0 33	8 15	2 28	19 2	0 44	2 16	1 57	31 11	12 31	8 51	8 22	13 51			n.a.
W22	21 24	6 37	3 54	12 28	1 57	11 42	6 25	24 21	0 43	23 10	0 33	8 15	2 28	19 3	0 44	2 16	1 57	31 11	12 32	8 51	8 23	13 50			n.a.
T 23	21 14	10 29	4 34	12 2	2 8	11 37	6 37	24 23	0 44	23 8	0 33	8 16	2 28	19 3	0 44	2 16	1 57	31 12	12 32	8 51	8 24	13 48			n.a.
F 24	21 3	13 46	5 0	11 37	2 19	11 34	6 49	24 25	0 44	23 6	0 33	8 17	2 29	19 4	0 44	2 17	1 57	31 12	12 32	8 52	8 25	13 47			n.a.
S 25	20 51	16 19	5 10	11 12	2 29	11 31	7 0	24 26	0 45	23 5	0 33	8 17	2 29	19 5	0 44	2 17	1 56	31 13	12 32	8 54	8 26	13 46			n.a.
S 26	20 40	18 4	5 5	10 50	2 40	11 28	7 10	24 27	0 45	23 3	0 33	8 18	2 29	19 5	0 44	2 18	1 56	31 13	12 32	8 56	8 28	13 45			n.a.
M27	20 27	18 56	4 47	10 28	2 50	11 27	7 20	24 28	0 46	23 2	0 33	8 18	2 29	19 6	0 44	2 18	1 56	31 13	12 32	8 58	8 29	13 43			n.a.
T 28	20 15	18 56	4 15	10 8	3 0	11 26	7 30	24 29	0 46	23 0	0 33	8 19	2 30	19 7	0 44	2 18	1 56	31 14	12 32	9 1	8 30	13 42			n.a.
W29	20 2	18 4	3 32	9 50	3 10	11 27	7 38	24 30	0 47	22 58	0 34	8 19	2 30	19 7	0 44	2 19	1 56	31 14	12 32	9 3	8 31	13 41			n.a.
T 30	19 49	16 24	2 41	9 34	3 20	11 28	7 46	24 30	0 48	22 56	0 34	8 19	2 30	19 8	0 44	2 19	1 56	31 15	12 32	9 5	8 32	13 40			n.a.
F 31	19n35	14n 4	1s42	9n19	3s29	11n29	7s53	24n31	0n48	22n55	0n34	8n20	2s30	19s 9	0s44	2s20	1n56	31s15	12s32	9n 6	8n34	13n38			n.a.

Julian Day Number = 1655494.5, Delta T = 03h28m38s
Ecliptic obliquity = 23°42'52, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°33'36, Lahiri = - 6°26'36 Julian Calendar 1 July 181 BCE == Greg. Calendar 28 June 181 BCE

The year -180 astronomical counting style corresponds to year 181 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 181 BCE
geocentric

AUGUST 181 BCE (-180) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 24 54	4♌29'40	29♌33	27♌20	4°R46	1♋59	19♋11	27♈25	8°R 8	10♎17	5°R22	6°R48	8♍13	19♌18	n.a.	S 1
S 2	20 28 51	5°27'48	11♍20	27°R26	4♌ 9	2°37	19°24	27°26	8♒ 6	10°18	5♒21	6°D48	8°10	19°25	n.a.	S 2
M 3	20 32 47	6°25'57	23°10	27°26	3°32	3°15	19°37	27°28	8° 3	10°19	5°20	6♍49	8° 7	19°31	n.a.	M 3
T 4	20 36 44	7°24'08	5♎ 8	27°19	2°56	3°53	19°50	27°29	8° 1	10°20	5°18	6°51	8° 4	19°38	n.a.	T 4
W 5	20 40 41	8°22'21	17°17	27° 7	2°20	4°31	20° 3	27°30	7°59	10°22	5°17	6°52	8° 1	19°45	n.a.	W 5
T 6	20 44 37	9°20'35	29°42	26°48	1°45	5° 9	20°15	27°31	7°56	10°23	5°16	6°54	7°58	19°51	n.a.	T 6
F 7	20 48 34	10°18'51	12♏27	26°23	1°11	5°47	20°28	27°31	7°54	10°24	5°14	6°R54	7°54	19°58	n.a.	F 7
S 8	20 52 30	11°17'08	25°36	25°51	0°39	6°24	20°41	27°32	7°51	10°26	5°13	6°53	7°51	20° 5	n.a.	S 8
S 9	20 56 27	12°15'27	9♐12	25°13	0° 7	7° 2	20°54	27°33	7°49	10°27	5°12	6°51	7°48	20°11	n.a.	S 9
M10	21 0 23	13°13'48	23°16	24°29	29♋38	7°40	21° 6	27°33	7°47	10°28	5°11	6°49	7°45	20°18	n.a.	M10
T 11	21 4 20	14°12'11	7♑48	23°40	29°10	8°18	21°19	27°33	7°44	10°30	5° 9	6°46	7°42	20°25	n.a.	T 11
W12	21 8 16	15°10'35	22°41	22°46	28°44	8°55	21°31	27°34	7°42	10°31	5° 8	6°43	7°39	20°31	n.a.	W12
T 13	21 12 13	16° 9'01	7♒49	21°48	28°20	9°33	21°44	27°34	7°39	10°33	5° 7	6°40	7°35	20°38	n.a.	T 13
F 14	21 16 10	17° 7'29	23° 3	20°47	27°59	10°10	21°57	27°R34	7°37	10°34	5° 6	6°39	7°32	20°45	n.a.	F 14
S 15	21 20 6	18° 5'59	8♓13	19°45	27°39	10°48	22° 9	27°34	7°35	10°36	5° 4	6°D39	7°29	20°51	n.a.	S 15
S 16	21 24 3	19° 4'31	23°10	18°43	27°22	11°25	22°21	27°33	7°32	10°37	5° 3	6°39	7°26	20°58	n.a.	S 16
M17	21 27 59	20° 3'05	7♈47	17°42	27° 8	12° 3	22°34	27°33	7°30	10°39	5° 2	6°40	7°23	21° 5	n.a.	M17
T 18	21 31 56	21° 1'42	21°59	16°44	26°55	12°40	22°46	27°33	7°28	10°40	5° 1	6°41	7°19	21°11	n.a.	T 18
W19	21 35 52	22° 0'21	5♉45	15°50	26°46	13°17	22°58	27°32	7°25	10°42	4°59	6°42	7°16	21°18	n.a.	W19
T 20	21 39 49	22°59'02	19° 5	15° 2	26°38	13°55	23°11	27°31	7°23	10°44	4°58	6°R43	7°13	21°25	n.a.	T 20
F 21	21 43 45	23°57'46	2♊ 2	14°20	26°33	14°32	23°23	27°31	7°21	10°45	4°57	6°43	7°10	21°31	n.a.	F 21
S 22	21 47 42	24°56'32	14°40	13°47	26°31	15° 9	23°35	27°30	7°19	10°47	4°56	6°42	7° 7	21°38	n.a.	S 22
S 23	21 51 39	25°55'20	27° 0	13°22	26°D30	15°46	23°47	27°29	7°16	10°49	4°55	6°41	7° 4	21°45	n.a.	S 23
M24	21 55 35	26°54'11	9♋ 8	13° 7	26°33	16°23	23°59	27°28	7°14	10°50	4°53	6°40	7° 0	21°51	n.a.	M24
T 25	21 59 32	27°53'04	21° 7	13°D 2	26°37	17° 0	24°11	27°27	7°12	10°52	4°52	6°38	6°57	21°58	n.a.	T 25
W26	22 3 28	28°51'59	2♌59	13° 7	26°44	17°38	24°23	27°25	7°10	10°54	4°51	6°37	6°54	22° 4	n.a.	W26
T 27	22 7 25	29°50'56	14°47	13°21	26°53	18°15	24°35	27°24	7° 8	10°56	4°50	6°36	6°51	22°11	n.a.	T 27
F 28	22 11 21	0♍49'56	26°35	13°46	27° 4	18°52	24°47	27°22	7° 5	10°58	4°49	6°36	6°48	22°18	n.a.	F 28
S 29	22 15 18	1°48'58	8♍23	14°20	27°17	19°28	24°59	27°21	7° 3	10°59	4°48	6°D36	6°44	22°24	n.a.	S 29
S 30	22 19 14	2°48'01	20°15	15° 3	27°33	20° 5	25°10	27°19	7° 1	11° 1	4°47	6°36	6°41	22°31	n.a.	S 30
M31	22 23 11	3♍47'07	2♎12	15♌54	27♋50	20♋42	25♋22	27♈17	6♒59	11♎ 3	4♒45	6♍36	6♍38	22♌38	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	19n21	11n 9	0s40	9n 7	3s38	11n32	7s59	24n31	0n49	22n53	0n34	8n20	2s31	19s 9	0s44	2s20	1n56	31s15	12s32	9n 7	8n35	13n37		n.a.	S 1
S 2	19 7	7 47	0n25	8 58	3 46	11 35	8 5	24 31	0 49	22 51	0 34	8 20	2 31	19 10	0 44	2 21	1 56	31 16	12 32	9 7	8 36	13 36		n.a.	S 2
M 3	18 53	4 6	1 29	8 51	3 54	11 39	8 9	24 30	0 50	22 50	0 34	8 20	2 31	19 10	0 44	2 21	1 56	31 16	12 32	9 7	8 37	13 34		n.a.	M 3
T 4	18 38	0 13	2 29	8 47	4 0	11 44	8 13	24 30	0 51	22 48	0 34	8 21	2 31	19 11	0 44	2 22	1 56	31 17	12 32	9 6	8 38	13 33		n.a.	T 4
W 5	18 23	3s43	3 25	8 46	4 6	11 49	8 16	24 29	0 51	22 46	0 34	8 21	2 31	19 12	0 44	2 23	1 56	31 17	12 32	9 5	8 40	13 32		n.a.	W 5
T 6	18 7	7 35	4 11	8 48	4 11	11 55	8 17	24 28	0 52	22 44	0 34	8 21	2 32	19 12	0 44	2 23	1 56	31 17	12 32	9 5	8 41	13 30		n.a.	T 6
F 7	17 52	11 12	4 47	8 53	4 14	12 1	8 18	24 27	0 52	22 42	0 35	8 21	2 32	19 13	0 44	2 24	1 56	31 18	12 32	9 5	8 42	13 29		n.a.	F 7
S 8	17 35	14 23	5 9	9 2	4 16	12 8	8 18	24 26	0 53	22 40	0 35	8 21	2 32	19 14	0 44	2 24	1 56	31 18	12 32	9 5	8 43	13 28		n.a.	S 8
S 9	17 19	16 54	5 15	9 14	4 17	12 15	8 18	24 25	0 53	22 39	0 35	8 21	2 32	19 14	0 44	2 25	1 56	31 18	12 32	9 6	8 44	13 27		n.a.	S 9
M10	17 2	18 31	5 2	9 30	4 16	12 22	8 16	24 23	0 54	22 37	0 35	8 21	2 33	19 15	0 44	2 25	1 56	31 19	12 32	9 7	8 46	13 25		n.a.	M10
T 11	16 45	18 59	4 30	9 48	4 13	12 30	8 14	24 22	0 55	22 35	0 35	8 21	2 33	19 15	0 44	2 26	1 55	31 19	12 32	9 8	8 47	13 24		n.a.	T 11
W12	16 28	18 10	3 40	10 11	4 8	12 38	8 11	24 20	0 55	22 33	0 35	8 21	2 33	19 16	0 44	2 27	1 55	31 19	12 32	9 9	8 48	13 23		n.a.	W12
T 13	16 11	16 4	2 33	10 36	4 1	12 47	8 7	24 18	0 56	22 31	0 35	8 20	2 33	19 17	0 44	2 27	1 55	31 20	12 32	9 10	8 49	13 21		n.a.	T 13
F 14	15 53	12 49	1 14	11 3	3 53	12 55	8 2	24 15	0 56	22 29	0 35	8 20	2 34	19 17	0 44	2 28	1 55	31 20	12 32	9 10	8 50	13 20		n.a.	F 14
S 15	15 35	8 43	0s 9	11 33	3 42	13 4	7 57	24 13	0 57	22 27	0 36	8 20	2 34	19 18	0 44	2 29	1 55	31 20	12 32	9 10	8 52	13 19		n.a.	S 15
S 16	15 17	4 7	1 30	12 5	3 29	13 13	7 51	24 10	0 58	22 25	0 36	8 20	2 34	19 19	0 44	2 29	1 55	31 21	12 32	9 10	8 53	13 17		n.a.	S 16
M17	14 58	0n37	2 44	12 37	3 15	13 22	7 45	24 8	0 58	22 23	0 36	8 19	2 34	19 19	0 44	2 30	1 55	31 21	12 32	9 10	8 54	13 16		n.a.	M17
T 18	14 39	5 10	3 46	13 10	2 59	13 31	7 38	24 5	0 59	22 22	0 36	8 19	2 35	19 20	0 44	2 31	1 55	31 21	12 32	9 9	8 55	13 15		n.a.	T 18
W19	14 20	9 19	4 32	13 42	2 41	13 40	7 31	24 2	0 59	22 20	0 36	8 18	2 35	19 20	0 44	2 31	1 55	31 21	12 32	9 9	8 56	13 13		n.a.	W19
T 20	14 1	12 51	5 2	14 14	2 23	13 49	7 24	23 58	1 0	22 18	0 36	8 18	2 35	19 21	0 44	2 32	1 55	31 22	12 32	9 9	8 58	13 12		n.a.	T 20
F 21	13 41	15 39	5 16	14 44	2 4	13 57	7 16	23 55	1 1	22 16	0 36	8 18	2 35	19 21	0 44	2 33	1 55	31 22	12 32	9 9	8 59	13 11		n.a.	F 21
S 22	13 21	17 37	5 14	15 13	1 45	14 6	7 7	23 51	1 1	22 14	0 37	8 17	2 36	19 22	0 44	2 33	1 55	31 22	12 32	9 9	9 0	13 9		n.a.	S 22
S 23	13 1	18 43	4 58	15 39	1 25	14 14	6 59	23 48	1 2	22 12	0 37	8 16	2 36	19 23	0 44	2 34	1 55	31 22	12 32	9 10	9 1	13 8		n.a.	S 23
M24	12 41	18 57	4 28	16 2	1 5	14 23	6 50	23 44	1 2	22 10	0 37	8 16	2 36	19 23	0 44	2 35	1 55	31 23	12 32	9 10	9 2	13 7		n.a.	M24
T 25	12 21	18 18	3 47	16 21	0 46	14 31	6 41	23 39	1 3	22 8	0 37	8 15	2 36	19 24	0 44	2 35	1 55	31 23	12 32	9 11	9 4	13 5		n.a.	T 25
W26	12 0	16 52	2 56	16 38	0 28	14 39	6 32	23 35	1 3	22 6	0 37	8 15	2 37	19 24	0 44	2 36	1 55	31 23	12 32	9 11	9 5	13 4		n.a.	W26
T 27	11 39	14 42	1 58	16 50	0 10	14 46	6 22	23 31	1 4	22 4	0 37	8 14	2 37	19 25	0 44	2 37	1 55	31 23	12 32	9 11	9 6	13 2		n.a.	T 27
F 28	11 18	11 56	0 55	16 59	0n 6	14 53	6 13	23 26	1 5	22 2	0 37	8 13	2 37	19 25	0 44	2 38	1 55	31 24	12 32	9 11	9 7	13 1		n.a.	F 28
S 29	10 57	8 40	0n10	17 4	0 22	15 0	6 3	23 22	1 5	22 0	0 38	8 12	2 37	19 26	0 44	2 38	1 55	31 24	12 31	9 12	9 8	13 0		n.a.	S 29
S 30	10 36	5 3	1 15	17 5	0 36	15 7	5 53	23 17	1 6	21 58	0 38	8 11	2 37	19 26	0 44	2 39	1 55	31 24	12 31	9 11	9 9	12 58		n.a.	S 30
M31	10n14	1n13	2n18	17n 2	0n49	15n13	5s43	23n12	1n 6	21n56	0n38	8n11	2s38	19s27	0s44	2s40	1n55	31s24	12s31	9n11	9n11	12n57		n.a.	M31

Julian Day Number = 1655525.5, Delta T = 03h28m37s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°33'32, Lahiri = - 6°26'31 Julian Calendar 1 Aug. 181 BCE == Greg. Calendar 29 July 181 BCE

The year -180 astronomical counting style corresponds to year 181 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 181 BCE
geocentric

SEPTEMBER 181 BCE (-180) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 27 7	4♍46'15	14♎17	16♌53	28♋ 9	21♋19	25♋33	27°R15	6°R57	11♎ 5	4°R44	6♍37	6♍35	22♌44	n.a.	T 1
W 2	22 31 4	5°45'25	26°33	17°59	28°30	21°56	25°45	27♈13	6♒55	11° 7	4♒43	6°37	6°32	22°51	n.a.	W 2
T 3	22 35 1	6°44'37	9♏ 3	19°12	28°53	22°33	25°56	27°11	6°53	11° 9	4°42	6°R37	6°29	22°58	n.a.	T 3
F 4	22 38 57	7°43'50	21°49	20°30	29°18	23° 9	26° 8	27° 9	6°51	11°11	4°41	6°37	6°25	23° 4	n.a.	F 4
S 5	22 42 54	8°43'06	4♐55	21°53	29°44	23°46	26°19	27° 7	6°49	11°13	4°40	6°D37	6°22	23°11	n.a.	S 5
S 6	22 46 50	9°42'24	18°23	23°20	0♌12	24°22	26°30	27° 4	6°47	11°15	4°39	6°37	6°19	23°18	n.a.	S 6
M 7	22 50 47	10°41'43	2♑15	24°51	0°41	24°59	26°41	27° 2	6°45	11°17	4°38	6°37	6°16	23°24	n.a.	M 7
T 8	22 54 43	11°41'04	16°31	26°25	1°12	25°35	26°52	26°59	6°43	11°19	4°37	6°37	6°13	23°31	n.a.	T 8
W 9	22 58 40	12°40'27	1♒ 9	28° 2	1°45	26°12	27° 3	26°56	6°42	11°21	4°36	6°38	6°10	23°38	n.a.	W 9
T 10	23 2 36	13°39'52	16° 5	29°40	2°19	26°48	27°14	26°53	6°40	11°23	4°35	6°38	6° 6	23°44	n.a.	T 10
F 11	23 6 33	14°39'19	1♓11	1♍20	2°54	27°25	27°25	26°51	6°38	11°25	4°34	6°R39	6° 3	23°51	n.a.	F 11
S 12	23 10 30	15°38'48	16°18	3° 2	3°31	28° 1	27°36	26°48	6°36	11°27	4°33	6°39	6° 0	23°57	n.a.	S 12
S 13	23 14 26	16°38'19	1♈19	4°44	4° 9	28°37	27°46	26°44	6°35	11°29	4°33	6°38	5°57	24° 4	n.a.	S 13
M14	23 18 23	17°37'53	16° 4	6°27	4°48	29°13	27°57	26°41	6°33	11°31	4°32	6°37	5°54	24°11	n.a.	M14
T 15	23 22 19	18°37'28	0♉26	8°11	5°28	29°50	28° 7	26°38	6°32	11°33	4°31	6°35	5°50	24°17	n.a.	T 15
W16	23 26 16	19°37'06	14°23	9°54	6°10	0♌26	28°18	26°35	6°30	11°35	4°30	6°34	5°47	24°24	n.a.	W16
T 17	23 30 12	20°36'46	27°52	11°38	6°52	1° 2	28°28	26°31	6°28	11°37	4°29	6°32	5°44	24°31	n.a.	T 17
F 18	23 34 9	21°36'29	10♊54	13°22	7°36	1°38	28°38	26°28	6°27	11°39	4°28	6°31	5°41	24°37	n.a.	F 18
S 19	23 38 5	22°36'14	23°33	15° 5	8°21	2°14	28°48	26°24	6°26	11°42	4°28	6°D31	5°38	24°44	n.a.	S 19
S 20	23 42 2	23°36'02	5♋53	16°49	9° 6	2°50	28°58	26°20	6°24	11°44	4°27	6°32	5°35	24°51	n.a.	S 20
M21	23 45 58	24°35'52	17°57	18°32	9°53	3°26	29° 8	26°17	6°23	11°46	4°26	6°33	5°31	24°57	n.a.	M21
T 22	23 49 55	25°35'44	29°52	20°14	10°40	4° 2	29°18	26°13	6°21	11°48	4°25	6°34	5°28	25° 4	n.a.	T 22
W23	23 53 52	26°35'38	11♌40	21°57	11°29	4°37	29°28	26° 9	6°20	11°50	4°25	6°36	5°25	25°11	n.a.	W23
T 24	23 57 48	27°35'34	23°27	23°38	12°18	5°13	29°38	26° 5	6°19	11°52	4°24	6°37	5°22	25°17	n.a.	T 24
F 25	0 1 45	28°35'33	5♍16	25°20	13° 8	5°49	29°47	26° 1	6°18	11°55	4°23	6°R38	5°19	25°24	n.a.	F 25
S 26	0 5 41	29°35'34	17° 9	27° 1	13°59	6°24	29°56	25°57	6°17	11°57	4°23	6°37	5°16	25°31	n.a.	S 26
S 27	0 9 38	0♎35'37	29° 9	28°41	14°51	7° 0	0♌ 6	25°53	6°15	11°59	4°22	6°36	5°12	25°37	n.a.	S 27
M28	0 13 34	1°35'42	11♎18	0♎21	15°43	7°36	0°15	25°48	6°14	12° 1	4°21	6°33	5° 9	25°44	n.a.	M28
T 29	0 17 31	2°35'48	23°37	2° 0	16°36	8°11	0°24	25°44	6°13	12° 3	4°21	6°29	5° 6	25°50	n.a.	T 29
W30	0 21 27	3♎35'57	6♏ 8	3♎39	17♌30	8♌46	0♌33	25♈40	6♒12	12♎ 6	4♒20	6♍24	5♍ 3	25♌57	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n52	2s43	3n15	16n56	1n 1	15n19	5s34	23n 6	1n 7	21n54	0n38	8n10	2s38	19s27	0s44	2s41	1n55	31s24	12s31	9n11	9n12	12n56		n.a.
W 2	9 30	6 34	4 4	16 45	1 12	15 25	5 24	23 1	1 8	21 52	0 38	8 9	2 38	19 28	0 44	2 42	1 55	31 25	12 31	9 11	9 13	12 54		n.a.
T 3	9 8	10 13	4 42	16 31	1 21	15 30	5 14	22 56	1 8	21 50	0 38	8 8	2 38	19 28	0 44	2 42	1 55	31 25	12 31	9 11	9 14	12 53		n.a.
F 4	8 46	13 29	5 8	16 14	1 30	15 35	5 4	22 50	1 9	21 48	0 38	8 7	2 38	19 29	0 44	2 43	1 54	31 25	12 31	9 11	9 15	12 52		n.a.
S 5	8 24	16 9	5 18	15 54	1 37	15 39	4 54	22 44	1 9	21 46	0 39	8 6	2 39	19 29	0 44	2 44	1 54	31 25	12 31	9 11	9 17	12 50		n.a.
S 6	8 1	18 2	5 11	15 30	1 42	15 43	4 44	22 38	1 10	21 44	0 39	8 5	2 39	19 30	0 44	2 45	1 54	31 25	12 30	9 11	9 18	12 49		n.a.
M 7	7 38	18 55	4 47	15 4	1 47	15 46	4 34	22 32	1 11	21 42	0 39	8 4	2 39	19 30	0 44	2 46	1 54	31 25	12 30	9 11	9 19	12 47		n.a.
T 8	7 16	18 38	4 4	14 35	1 51	15 49	4 25	22 26	1 11	21 40	0 39	8 2	2 39	19 31	0 44	2 46	1 54	31 25	12 30	9 11	9 20	12 46		n.a.
W 9	6 53	17 8	3 5	14 4	1 53	15 52	4 15	22 20	1 12	21 38	0 39	8 1	2 39	19 31	0 44	2 47	1 54	31 25	12 30	9 11	9 21	12 45		n.a.
T 10	6 30	14 25	1 52	13 31	1 55	15 53	4 5	22 13	1 12	21 36	0 39	8 0	2 40	19 32	0 44	2 48	1 54	31 26	12 30	9 11	9 23	12 43		n.a.
F 11	6 7	10 43	0 30	12 56	1 56	15 55	3 56	22 7	1 13	21 34	0 40	7 59	2 40	19 32	0 44	2 49	1 54	31 26	12 30	9 10	9 24	12 42		n.a.
S 12	5 43	6 17	0s53	12 19	1 56	15 56	3 46	22 0	1 14	21 32	0 40	7 58	2 40	19 33	0 44	2 50	1 54	31 26	12 30	9 11	9 25	12 40		n.a.
S 13	5 20	1 30	2 13	11 41	1 56	15 56	3 37	21 53	1 14	21 30	0 40	7 56	2 40	19 33	0 44	2 51	1 54	31 26	12 29	9 11	9 26	12 39		n.a.
M14	4 57	3n17	3 22	11 1	1 55	15 56	3 27	21 46	1 15	21 28	0 40	7 55	2 40	19 33	0 44	2 51	1 54	31 26	12 29	9 11	9 27	12 38		n.a.
T 15	4 33	7 45	4 16	10 20	1 53	15 55	3 18	21 39	1 15	21 26	0 40	7 54	2 40	19 34	0 44	2 52	1 54	31 26	12 29	9 12	9 28	12 36		n.a.
W16	4 9	11 40	4 54	9 39	1 50	15 54	3 9	21 32	1 16	21 24	0 40	7 52	2 41	19 34	0 44	2 53	1 54	31 26	12 29	9 12	9 30	12 35		n.a.
T 17	3 46	14 49	5 13	8 56	1 48	15 52	3 0	21 24	1 17	21 22	0 41	7 51	2 41	19 34	0 44	2 54	1 54	31 26	12 29	9 13	9 31	12 33		n.a.
F 18	3 22	17 7	5 16	8 13	1 44	15 50	2 51	21 17	1 17	21 20	0 41	7 50	2 41	19 35	0 44	2 55	1 54	31 26	12 29	9 13	9 32	12 32		n.a.
S 19	2 58	18 30	5 3	7 29	1 41	15 47	2 42	21 9	1 18	21 18	0 41	7 48	2 41	19 35	0 44	2 56	1 54	31 26	12 28	9 13	9 33	12 31		n.a.
S 20	2 34	18 59	4 37	6 45	1 36	15 44	2 33	21 1	1 18	21 16	0 41	7 47	2 41	19 36	0 44	2 57	1 54	31 26	12 28	9 13	9 34	12 29		n.a.
M21	2 10	18 34	3 58	6 0	1 32	15 40	2 24	20 54	1 19	21 14	0 41	7 45	2 41	19 36	0 44	2 57	1 54	31 26	12 28	9 13	9 36	12 28		n.a.
T 22	1 46	17 19	3 10	5 15	1 27	15 35	2 16	20 46	1 20	21 13	0 42	7 44	2 42	19 36	0 44	2 58	1 54	31 26	12 28	9 12	9 37	12 26		n.a.
W23	1 22	15 21	2 14	4 29	1 22	15 30	2 7	20 38	1 20	21 11	0 42	7 42	2 42	19 36	0 44	2 59	1 54	31 26	12 28	9 12	9 38	12 25		n.a.
T 24	0 58	12 43	1 12	3 44	1 17	15 24	1 59	20 29	1 21	21 9	0 42	7 41	2 42	19 37	0 44	3 0	1 54	31 26	12 27	9 11	9 39	12 23		n.a.
F 25	0 34	9 34	0 8	2 58	1 11	15 18	1 51	20 21	1 22	21 7	0 42	7 39	2 42	19 37	0 44	3 1	1 54	31 26	12 27	9 11	9 40	12 22		n.a.
S 26	0 10	6 1	0n58	2 12	1 6	15 11	1 43	20 13	1 22	21 5	0 42	7 37	2 42	19 37	0 44	3 2	1 54	31 26	12 27	9 11	9 41	12 21		n.a.
S 27	0s14	2 11	2 1	1 27	1 0	15 3	1 35	20 4	1 23	21 3	0 43	7 36	2 42	19 38	0 43	3 3	1 54	31 26	12 27	9 12	9 43	12 19		n.a.
M28	0 38	1s46	2 59	0 41	0 54	14 55	1 27	19 56	1 23	21 1	0 43	7 34	2 42	19 38	0 43	3 4	1 54	31 26	12 26	9 13	9 44	12 18		n.a.
T 29	1 3	5 43	3 50	0s 4	0 48	14 47	1 19	19 47	1 24	21 0	0 43	7 32	2 42	19 38	0 43	3 4	1 54	31 26	12 26	9 14	9 45	12 16		n.a.
W30	1s27	9s27	4n31	0s50	0n42	14n38	1s12	19n38	1n25	20n58	0n43	7n31	2s42	19s38	0s43	3s 5	1n54	31s26	12s26	9n16	9n46	12n15		n.a.

Julian Day Number = 1655556.5, Delta T = 03h28m36s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°33'28, Lahiri = - 6°26'27 Julian Calendar 1 Sept. 181 BCE == Greg. Calendar 29 Aug. 181 BCE

The year -180 astronomical counting style corresponds to year 181 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 181 BCE
geocentric

OCTOBER 181 BCE (-180) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 25 24	4♎36'08	18♏51	5♎17	18♌24	9♌22	0♌42	25°R35	6°R11	12♎ 8	4°R20	6°R19	5♍ 0	26♌ 4	n.a.	T 1
F 2	0 29 20	5°36'20	1♐48	6°55	19°19	9°57	0°50	25♈31	6♒11	12°10	4♒19	6♍15	4°56	26°10	n.a.	F 2
S 3	0 33 17	6°36'34	14°59	8°32	20°15	10°32	0°59	25°26	6°10	12°12	4°19	6°12	4°53	26°17	n.a.	S 3
S 4	0 37 14	7°36'49	28°27	10° 9	21°11	11° 8	1° 7	25°22	6° 9	12°15	4°18	6°10	4°50	26°24	n.a.	S 4
M 5	0 41 10	8°37'07	12♑10	11°45	22° 8	11°43	1°16	25°17	6° 8	12°17	4°18	6°D10	4°47	26°30	n.a.	M 5
T 6	0 45 7	9°37'25	26°12	13°21	23° 5	12°18	1°24	25°13	6° 7	12°19	4°18	6°11	4°44	26°37	n.a.	T 6
W 7	0 49 3	10°37'45	10♒29	14°57	24° 3	12°53	1°32	25° 8	6° 7	12°21	4°17	6°12	4°41	26°44	n.a.	W 7
T 8	0 53 0	11°38'07	25° 2	16°32	25° 2	13°28	1°40	25° 3	6° 6	12°24	4°17	6°14	4°37	26°50	n.a.	T 8
F 9	0 56 56	12°38'30	9♓45	18° 7	26° 0	14° 2	1°48	24°59	6° 6	12°26	4°16	6°R14	4°34	26°57	n.a.	F 9
S 10	1 0 53	13°38'55	24°34	19°41	27° 0	14°37	1°56	24°54	6° 5	12°28	4°16	6°13	4°31	27° 4	n.a.	S 10
S 11	1 4 49	14°39'21	9♈22	21°15	28° 0	15°12	2° 3	24°49	6° 5	12°30	4°16	6°10	4°28	27°10	n.a.	S 11
M12	1 8 46	15°39'50	24° 0	22°49	29° 0	15°47	2°11	24°44	6° 4	12°33	4°16	6° 5	4°25	27°17	n.a.	M12
T 13	1 12 43	16°40'19	8♉21	24°23	0♍ 1	16°21	2°18	24°39	6° 4	12°35	4°15	5°58	4°21	27°24	n.a.	T 13
W14	1 16 39	17°40'51	22°21	25°56	1° 2	16°56	2°25	24°34	6° 4	12°37	4°15	5°51	4°18	27°30	n.a.	W14
T 15	1 20 36	18°41'25	5♊55	27°29	2° 4	17°30	2°32	24°30	6° 3	12°39	4°15	5°45	4°15	27°37	n.a.	T 15
F 16	1 24 32	19°42'00	19° 3	29° 1	3° 6	18° 5	2°39	24°25	6° 3	12°42	4°15	5°39	4°12	27°43	n.a.	F 16
S 17	1 28 29	20°42'37	1♋46	0♏34	4° 8	18°39	2°46	24°20	6° 3	12°44	4°15	5°35	4° 9	27°50	n.a.	S 17
S 18	1 32 25	21°43'17	14° 8	2° 6	5°11	19°13	2°52	24°15	6° 3	12°46	4°15	5°33	4° 6	27°57	n.a.	S 18
M19	1 36 22	22°43'57	26°14	3°38	6°14	19°47	2°59	24°10	6°D 3	12°48	4°14	5°D33	4° 2	28° 3	n.a.	M19
T 20	1 40 18	23°44'40	8♌ 8	5° 9	7°18	20°22	3° 5	24° 5	6° 3	12°51	4°14	5°34	3°59	28°10	n.a.	T 20
W21	1 44 15	24°45'25	19°56	6°40	8°21	20°56	3°11	24° 0	6° 3	12°53	4°14	5°35	3°56	28°17	n.a.	W21
T 22	1 48 12	25°46'11	1♍43	8°11	9°26	21°30	3°17	23°55	6° 3	12°55	4°D14	5°R36	3°53	28°23	n.a.	T 22
F 23	1 52 8	26°46'58	13°34	9°42	10°30	22° 3	3°23	23°50	6° 3	12°57	4°14	5°36	3°50	28°30	n.a.	F 23
S 24	1 56 5	27°47'48	25°32	11°13	11°35	22°37	3°29	23°45	6° 4	12°59	4°14	5°33	3°47	28°37	n.a.	S 24
S 25	2 0 1	28°48'38	7♎42	12°43	12°40	23°11	3°34	23°40	6° 4	13° 2	4°14	5°29	3°43	28°43	n.a.	S 25
M26	2 3 58	29°49'31	20° 5	14°13	13°46	23°45	3°39	23°35	6° 4	13° 4	4°15	5°22	3°40	28°50	n.a.	M26
T 27	2 7 54	0♏50'24	2♏42	15°42	14°51	24°18	3°45	23°30	6° 5	13° 6	4°15	5°12	3°37	28°57	n.a.	T 27
W28	2 11 51	1°51'19	15°33	17°12	15°57	24°52	3°50	23°25	6° 5	13° 8	4°15	5° 2	3°34	29° 3	n.a.	W28
T 29	2 15 47	2°52'15	28°38	18°40	17° 4	25°25	3°54	23°21	6° 5	13°10	4°15	4°51	3°31	29°10	n.a.	T 29
F 30	2 19 44	3°53'13	11♐56	20° 9	18°10	25°58	3°59	23°16	6° 6	13°12	4°15	4°41	3°27	29°17	n.a.	F 30
S 31	2 23 41	4♏54'11	25♐25	21♏36	19♍17	26♌31	4♌ 4	23♈11	6♒ 7	13♎15	4♒15	4♍33	3♍24	29♌23	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	1 s51	12 s50	4n59	1 s35	0n35	14n28	1 s 4	19n29	1n25	20n56	0n43	7n29	2 s42	19 s38	0 s43	3 s 6	1n54	31 s26	12 s26	9n18	9n47	12n13			n.a.
F 2	2 15	15 40	5 12	2 20	0 29	14 18	0 57	19 20	1 26	20 55	0 44	7 27	2 43	19 39	0 43	3 7	1 54	31 25	12 26	9 19	9 48	12 12			n.a.
S 3	2 39	17 44	5 10	3 5	0 22	14 7	0 50	19 11	1 27	20 53	0 44	7 26	2 43	19 39	0 43	3 8	1 54	31 25	12 25	9 20	9 50	12 10			n.a.
S 4	3 3	18 52	4 50	3 49	0 16	13 55	0 43	19 2	1 27	20 51	0 44	7 24	2 43	19 39	0 43	3 9	1 54	31 25	12 25	9 21	9 51	12 9			n.a.
M 5	3 27	18 56	4 14	4 34	0 9	13 44	0 36	18 53	1 28	20 49	0 44	7 22	2 43	19 39	0 43	3 10	1 54	31 25	12 25	9 21	9 52	12 8			n.a.
T 6	3 51	17 51	3 22	5 17	0 3	13 31	0 29	18 43	1 28	20 48	0 44	7 21	2 43	19 39	0 43	3 11	1 54	31 25	12 25	9 21	9 53	12 6			n.a.
W 7	4 15	15 38	2 16	6 1	0 s 4	13 18	0 23	18 34	1 29	20 46	0 45	7 19	2 43	19 39	0 43	3 12	1 54	31 25	12 24	9 20	9 54	12 5			n.a.
T 8	4 39	12 22	1 1	6 44	0 11	13 5	0 16	18 24	1 30	20 45	0 45	7 17	2 43	19 40	0 43	3 12	1 54	31 25	12 24	9 20	9 56	12 3			n.a.
F 9	5 3	8 18	0 s19	7 27	0 17	12 51	0 10	18 15	1 30	20 43	0 45	7 15	2 43	19 40	0 43	3 13	1 54	31 25	12 24	9 20	9 57	12 2			n.a.
S 10	5 27	3 41	1 38	8 9	0 24	12 36	0 3	18 5	1 31	20 42	0 45	7 13	2 43	19 40	0 43	3 14	1 54	31 24	12 24	9 20	9 58	12 0			n.a.
S 11	5 50	1n 9	2 51	8 51	0 30	12 21	0n 3	17 55	1 32	20 40	0 45	7 12	2 43	19 40	0 43	3 15	1 54	31 24	12 23	9 21	9 59	11 59			n.a.
M12	6 14	5 51	3 51	9 32	0 37	12 5	0 9	17 45	1 32	20 39	0 46	7 10	2 43	19 40	0 43	3 16	1 54	31 24	12 23	9 23	10 0	11 57			n.a.
T 13	6 38	10 7	4 35	10 13	0 43	11 49	0 14	17 36	1 33	20 37	0 46	7 8	2 43	19 40	0 43	3 17	1 54	31 24	12 23	9 26	10 1	11 56			n.a.
W14	7 1	13 43	5 1	10 54	0 49	11 33	0 20	17 26	1 34	20 36	0 46	7 6	2 43	19 40	0 43	3 18	1 54	31 24	12 23	9 28	10 3	11 54			n.a.
T 15	7 24	16 27	5 10	11 34	0 56	11 16	0 26	17 16	1 34	20 34	0 46	7 4	2 43	19 40	0 43	3 19	1 54	31 24	12 22	9 31	10 4	11 53			n.a.
F 16	7 48	18 15	5 1	12 13	1 2	10 58	0 31	17 5	1 35	20 33	0 47	7 3	2 43	19 40	0 43	3 19	1 54	31 23	12 22	9 33	10 5	11 51			n.a.
S 17	8 11	19 4	4 38	12 51	1 8	10 40	0 36	16 55	1 36	20 32	0 47	7 1	2 43	19 40	0 43	3 20	1 54	31 23	12 22	9 34	10 6	11 50			n.a.
S 18	8 34	18 56	4 3	13 29	1 14	10 22	0 42	16 45	1 36	20 30	0 47	6 59	2 43	19 40	0 43	3 21	1 54	31 23	12 22	9 35	10 7	11 48			n.a.
M19	8 56	17 56	3 17	14 7	1 20	10 3	0 47	16 35	1 37	20 29	0 47	6 57	2 43	19 40	0 43	3 22	1 54	31 23	12 21	9 35	10 8	11 47			n.a.
T 20	9 19	16 8	2 23	14 44	1 25	9 44	0 51	16 24	1 38	20 28	0 47	6 55	2 43	19 40	0 43	3 23	1 54	31 22	12 21	9 35	10 10	11 45			n.a.
W21	9 42	13 41	1 24	15 19	1 31	9 24	0 56	16 14	1 38	20 27	0 48	6 54	2 43	19 40	0 43	3 24	1 54	31 22	12 21	9 34	10 11	11 44			n.a.
T 22	10 4	10 40	0 21	15 55	1 36	9 4	1 1	16 4	1 39	20 25	0 48	6 52	2 43	19 40	0 43	3 25	1 54	31 22	12 20	9 34	10 12	11 42			n.a.
F 23	10 26	7 12	0n43	16 29	1 41	8 43	1 5	15 53	1 40	20 24	0 48	6 50	2 43	19 40	0 43	3 25	1 54	31 22	12 20	9 34	10 13	11 41			n.a.
S 24	10 49	3 24	1 45	17 3	1 46	8 22	1 10	15 43	1 40	20 23	0 48	6 48	2 43	19 40	0 43	3 26	1 54	31 21	12 20	9 35	10 14	11 39			n.a.
S 25	11 11	0 s35	2 44	17 35	1 51	8 1	1 14	15 32	1 41	20 22	0 49	6 47	2 43	19 40	0 43	3 27	1 54	31 21	12 20	9 37	10 15	11 38			n.a.
M26	11 32	4 37	3 36	18 7	1 55	7 39	1 18	15 21	1 42	20 21	0 49	6 45	2 43	19 39	0 43	3 28	1 54	31 21	12 19	9 39	10 17	11 36			n.a.
T 27	11 54	8 31	4 18	18 38	2 0	7 17	1 22	15 11	1 42	20 20	0 49	6 43	2 42	19 39	0 43	3 29	1 54	31 21	12 19	9 43	10 18	11 35			n.a.
W28	12 15	12 6	4 47	19 8	2 3	6 55	1 26	15 0	1 43	20 19	0 49	6 41	2 42	19 39	0 43	3 30	1 54	31 20	12 19	9 47	10 19	11 33			n.a.
T 29	12 36	15 10	5 3	19 37	2 7	6 32	1 29	14 49	1 44	20 18	0 50	6 40	2 42	19 39	0 42	3 30	1 54	31 20	12 19	9 51	10 20	11 32			n.a.
F 30	12 57	17 29	5 2	20 5	2 10	6 9	1 33	14 38	1 44	20 17	0 50	6 38	2 42	19 39	0 42	3 31	1 54	31 20	12 18	9 54	10 21	11 30			n.a.
S 31	13 s18	18 s53	4n45	20 s31	2 s13	5n46	1n36	14n28	1n45	20n16	0n50	6n36	2 s42	19 s39	0 s42	3 s32	1n54	31 s19	12 s18	9n57	10n22	11n29			n.a.

Julian Day Number = 1655586.5, Delta T = 03h28m35s
Ecliptic obliquity = 23°42'54, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°33'24, Lahiri = - 6°26'23 Julian Calendar 1 Oct. 181 BCE == Greg. Calendar 28 Sept. 181 BCE

The year -180 astronomical counting style corresponds to year 181 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 181 BCE
geocentric

NOVEMBER 181 BCE (-180) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 27 37	5♏55'10	9♉ 3	23♏ 3	20♍24	27♌ 5	4♌ 8	23°R 6	6♒ 7	13♎17	4♒16	4°R27	3♍21	29♌30	n.a.	S 1
M 2	2 31 34	6°56'10	22°51	24°30	21°31	27°38	4°12	23♈ 2	6° 8	13°19	4°16	4♍24	3°18	29°36	n.a.	M 2
T 3	2 35 30	7°57'11	6♒47	25°55	22°38	28°10	4°16	22°57	6° 9	13°21	4°16	4°D23	3°15	29°43	n.a.	T 3
W 4	2 39 27	8°58'13	20°51	27°20	23°46	28°43	4°20	22°52	6° 9	13°23	4°17	4°24	3°12	29°50	n.a.	W 4
T 5	2 43 23	9°59'15	5♓ 3	28°43	24°54	29°16	4°23	22°48	6°10	13°25	4°17	4°R24	3° 8	29°56	n.a.	T 5
F 6	2 47 20	11° 0'18	19°21	0♐ 5	26° 2	29°49	4°27	22°43	6°11	13°27	4°17	4°23	3° 5	0♍ 3	n.a.	F 6
S 7	2 51 16	12° 1'21	3♈43	1°26	27°10	0♍21	4°30	22°38	6°12	13°29	4°18	4°20	3° 2	0°10	n.a.	S 7
S 8	2 55 13	13° 2'25	18° 5	2°44	28°19	0°53	4°33	22°34	6°13	13°31	4°18	4°14	2°59	0°16	n.a.	S 8
M 9	2 59 10	14° 3'30	2♉21	4° 1	29°27	1°26	4°36	22°30	6°14	13°33	4°19	4° 5	2°56	0°23	n.a.	M 9
T 10	3 3 6	15° 4'36	16°26	5°15	0♎36	1°58	4°39	22°25	6°15	13°35	4°19	3°54	2°52	0°30	n.a.	T 10
W11	3 7 3	16° 5'43	0♊15	6°26	1°45	2°30	4°41	22°21	6°16	13°37	4°20	3°42	2°49	0°36	n.a.	W11
T 12	3 10 59	17° 6'50	13°43	7°35	2°54	3° 2	4°44	22°17	6°17	13°39	4°20	3°30	2°46	0°43	n.a.	T 12
F 13	3 14 56	18° 7'59	26°50	8°39	4° 4	3°34	4°46	22°12	6°19	13°41	4°21	3°19	2°43	0°50	n.a.	F 13
S 14	3 18 52	19° 9'08	9♋34	9°39	5°13	4° 6	4°48	22° 8	6°20	13°43	4°21	3°10	2°40	0°56	n.a.	S 14
S 15	3 22 49	20°10'18	21°58	10°34	6°23	4°37	4°50	22° 4	6°21	13°45	4°22	3° 4	2°37	1° 3	n.a.	S 15
M16	3 26 45	21°11'29	4♌ 5	11°23	7°33	5° 9	4°51	22° 0	6°23	13°47	4°23	3° 1	2°33	1° 9	n.a.	M16
T 17	3 30 42	22°12'41	16° 0	12° 6	8°43	5°40	4°52	21°56	6°24	13°49	4°23	3° 0	2°30	1°16	n.a.	T 17
W18	3 34 39	23°13'53	27°48	12°42	9°53	6°11	4°54	21°52	6°26	13°50	4°24	3° 0	2°27	1°23	n.a.	W18
T 19	3 38 35	24°15'06	9♍36	13° 9	11° 3	6°43	4°55	21°49	6°27	13°52	4°25	3° 0	2°24	1°29	n.a.	T 19
F 20	3 42 32	25°16'20	21°28	13°27	12°14	7°14	4°56	21°45	6°29	13°54	4°25	2°58	2°21	1°36	n.a.	F 20
S 21	3 46 28	26°17'35	3♎29	13°R35	13°24	7°45	4°56	21°41	6°30	13°56	4°26	2°55	2°18	1°43	n.a.	S 21
S 22	3 50 25	27°18'50	15°45	13°33	14°35	8°15	4°57	21°38	6°32	13°58	4°27	2°49	2°14	1°49	n.a.	S 22
M23	3 54 21	28°20'05	28°18	13°19	15°46	8°46	4°57	21°34	6°34	13°59	4°28	2°40	2°11	1°56	n.a.	M23
T 24	3 58 18	29°21'21	11♏11	12°53	16°57	9°16	4°R57	21°31	6°35	14° 1	4°29	2°29	2° 8	2° 3	n.a.	T 24
W25	4 2 14	0♐22'38	24°22	12°15	18° 8	9°47	4°57	21°28	6°37	14° 3	4°29	2°15	2° 5	2° 9	n.a.	W25
T 26	4 6 11	1°23'55	7♐51	11°27	19°19	10°17	4°56	21°24	6°39	14° 5	4°30	2° 2	2° 2	2°16	n.a.	T 26
F 27	4 10 8	2°25'12	21°35	10°28	20°30	10°47	4°56	21°21	6°41	14° 6	4°31	1°49	1°58	2°23	n.a.	F 27
S 28	4 14 4	3°26'29	5♉30	9°19	21°42	11°17	4°55	21°18	6°43	14° 8	4°32	1°38	1°55	2°29	n.a.	S 28
S 29	4 18 1	4°27'46	19°32	8° 4	22°53	11°46	4°54	21°15	6°45	14° 9	4°33	1°30	1°52	2°36	n.a.	S 29
M30	4 21 57	5♐29'02	3♒37	6♐45	24♎ 5	12♍16	4♌53	21♈13	6♒47	14♎11	4♒34	1♍26	1♍49	2♍43	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s39	19s13	4n11	20s57	2s16	5n22	1n39	14n17	1n46	20n16	0n50	6n35	2s42	19s39	0s42	3s33	1n54	31s19	12s18	9n59	10n24	11n27		n.a.
M 2	13 59	18 25	3 23	21 21	2 18	4 58	1 42	14 6	1 46	20 15	0 51	6 33	2 42	19 38	0 42	3 34	1 54	31 19	12 18	10 0	10 25	11 26		n.a.
T 3	14 19	16 30	2 22	21 43	2 20	4 34	1 45	13 55	1 47	20 14	0 51	6 31	2 42	19 38	0 42	3 35	1 54	31 18	12 17	10 1	10 26	11 24		n.a.
W 4	14 39	13 35	1 12	22 5	2 21	4 9	1 48	13 44	1 48	20 14	0 51	6 30	2 42	19 38	0 42	3 35	1 54	31 18	12 17	10 1	10 27	11 23		n.a.
T 5	14 59	9 49	0s 3	22 25	2 22	3 45	1 51	13 33	1 48	20 13	0 51	6 28	2 41	19 38	0 42	3 36	1 54	31 18	12 17	10 0	10 28	11 21		n.a.
F 6	15 18	5 28	1 19	22 43	2 23	3 20	1 54	13 22	1 49	20 12	0 52	6 27	2 41	19 37	0 42	3 37	1 54	31 17	12 17	10 1	10 29	11 20		n.a.
S 7	15 37	0 47	2 29	23 0	2 22	2 54	1 56	13 11	1 50	20 12	0 52	6 25	2 41	19 37	0 42	3 38	1 54	31 17	12 16	10 2	10 30	11 18		n.a.
S 8	15 56	3n56	3 30	23 15	2 21	2 29	1 58	13 0	1 51	20 11	0 52	6 23	2 41	19 37	0 42	3 38	1 54	31 17	12 16	10 4	10 32	11 17		n.a.
M 9	16 14	8 24	4 17	23 29	2 20	2 3	2 0	12 49	1 51	20 11	0 52	6 22	2 41	19 37	0 42	3 39	1 54	31 16	12 16	10 7	10 33	11 15		n.a.
T 10	16 33	12 21	4 48	23 41	2 18	1 38	2 3	12 38	1 52	20 10	0 53	6 20	2 41	19 36	0 42	3 40	1 55	31 16	12 15	10 11	10 34	11 13		n.a.
W11	16 51	15 32	5 1	23 50	2 14	1 12	2 4	12 27	1 53	20 10	0 53	6 19	2 40	19 36	0 42	3 41	1 55	31 15	12 15	10 16	10 35	11 12		n.a.
T 12	17 8	17 48	4 57	23 58	2 10	0 45	2 6	12 16	1 54	20 10	0 53	6 18	2 40	19 36	0 42	3 41	1 55	31 15	12 15	10 20	10 36	11 10		n.a.
F 13	17 26	19 3	4 37	24 4	2 5	0 19	2 8	12 5	1 54	20 9	0 53	6 16	2 40	19 35	0 42	3 42	1 55	31 15	12 15	10 24	10 37	11 9		n.a.
S 14	17 43	19 19	4 4	24 7	2 0	0s 7	2 9	11 54	1 55	20 9	0 54	6 15	2 40	19 35	0 42	3 43	1 55	31 14	12 14	10 27	10 39	11 7		n.a.
S 15	17 59	18 37	3 20	24 9	1 53	0 34	2 11	11 43	1 56	20 9	0 54	6 13	2 40	19 35	0 42	3 44	1 55	31 14	12 14	10 30	10 40	11 6		n.a.
M16	18 16	17 5	2 27	24 8	1 44	1 1	2 12	11 32	1 56	20 9	0 54	6 12	2 40	19 34	0 42	3 44	1 55	31 13	12 14	10 31	10 41	11 4		n.a.
T 17	18 32	14 49	1 29	24 4	1 35	1 27	2 13	11 21	1 57	20 9	0 55	6 11	2 39	19 34	0 42	3 45	1 55	31 13	12 14	10 31	10 42	11 3		n.a.
W18	18 48	11 57	0 28	23 58	1 24	1 54	2 14	11 10	1 58	20 9	0 55	6 10	2 39	19 33	0 42	3 46	1 55	31 13	12 13	10 31	10 43	11 1		n.a.
T 19	19 3	8 36	0n35	23 50	1 12	2 21	2 15	10 59	1 59	20 9	0 55	6 8	2 39	19 33	0 42	3 46	1 55	31 12	12 13	10 31	10 44	10 59		n.a.
F 20	19 18	4 54	1 36	23 39	0 59	2 48	2 16	10 48	2 0	20 9	0 55	6 7	2 39	19 32	0 42	3 47	1 55	31 12	12 13	10 32	10 46	10 58		n.a.
S 21	19 33	0 57	2 34	23 25	0 44	3 15	2 17	10 37	2 0	20 9	0 56	6 6	2 38	19 32	0 42	3 48	1 55	31 11	12 13	10 33	10 47	10 56		n.a.
S 22	19 47	3s 6	3 26	23 9	0 28	3 42	2 17	10 26	2 1	20 9	0 56	6 5	2 38	19 32	0 42	3 48	1 55	31 11	12 12	10 35	10 48	10 55		n.a.
M23	20 1	7 7	4 9	22 50	0 11	4 9	2 18	10 15	2 2	20 9	0 56	6 4	2 38	19 31	0 42	3 49	1 55	31 10	12 12	10 38	10 49	10 53		n.a.
T 24	20 15	10 55	4 40	22 29	0n 8	4 36	2 18	10 4	2 3	20 10	0 56	6 3	2 38	19 31	0 42	3 50	1 55	31 10	12 12	10 43	10 50	10 52		n.a.
W25	20 28	14 16	4 57	22 4	0 27	5 3	2 19	9 53	2 3	20 10	0 57	6 2	2 38	19 30	0 42	3 50	1 55	31 10	12 12	10 47	10 51	10 50		n.a.
T 26	20 41	16 57	4 59	21 38	0 47	5 31	2 19	9 43	2 4	20 10	0 57	6 1	2 37	19 30	0 42	3 51	1 55	31 9	12 12	10 52	10 52	10 48		n.a.
F 27	20 53	18 44	4 43	21 10	1 7	5 58	2 19	9 32	2 5	20 11	0 57	6 0	2 37	19 29	0 42	3 51	1 55	31 9	12 11	10 57	10 54	10 47		n.a.
S 28	21 5	19 26	4 10	20 40	1 27	6 25	2 19	9 21	2 6	20 11	0 58	5 59	2 37	19 29	0 42	3 52	1 55	31 8	12 11	11 1	10 55	10 45		n.a.
S 29	21 17	18 57	3 22	20 9	1 46	6 51	2 18	9 10	2 7	20 12	0 58	5 58	2 37	19 28	0 42	3 53	1 55	31 8	12 11	11 4	10 56	10 44		n.a.
M30	21s28	17s17	2n21	19s38	2n 4	7s18	2n18	9n 0	2n 7	20n12	0n58	5n57	2s36	19s28	0s41	3s53	1n55	31s 7	12s11	11n 5	10n57	10n42		n.a.

Julian Day Number = 1655617.5, Delta T = 03h28m34s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°33'19, Lahiri = - 6°26'19 Julian Calendar 1 Nov. 181 BCE == Greg. Calendar 29 Oct. 181 BCE

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ASTRODIENST EPHEMERIS for the year 181 BCE
geocentric

DECEMBER 181 BCE (-180) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 25 54	6♐30'19	17♒43	5°R23	25♎16	12♍45	4°R52	21°R10	6♒49	14♎13	4♒35	1°R24	1♍46	2♍49	n.a.	T 1
W 2	4 29 50	7°31'35	1♓49	4♐ 2	26°28	13°15	4♌50	21♈ 7	6°51	14°14	4°36	1♍23	1°43	2°56	n.a.	W 2
T 3	4 33 47	8°32'50	15°53	2°45	27°40	13°44	4°48	21° 5	6°53	14°16	4°37	1°23	1°39	3° 2	n.a.	T 3
F 4	4 37 44	9°34'05	29°55	1°33	28°52	14°12	4°46	21° 2	6°55	14°17	4°38	1°22	1°36	3° 9	n.a.	F 4
S 5	4 41 40	10°35'20	13♈54	0°29	0♏ 4	14°41	4°44	21° 0	6°58	14°19	4°39	1°19	1°33	3°16	n.a.	S 5
S 6	4 45 37	11°36'34	27°48	29♏33	1°16	15°10	4°42	20°58	7° 0	14°20	4°40	1°12	1°30	3°22	n.a.	S 6
M 7	4 49 33	12°37'48	11♉37	28°47	2°28	15°38	4°39	20°56	7° 2	14°21	4°41	1° 3	1°27	3°29	n.a.	M 7
T 8	4 53 30	13°39'02	25°15	28°11	3°40	16° 6	4°37	20°54	7° 5	14°23	4°42	0°51	1°24	3°36	n.a.	T 8
W 9	4 57 26	14°40'15	8♊42	27°45	4°52	16°34	4°34	20°52	7° 7	14°24	4°44	0°39	1°20	3°42	n.a.	W 9
T 10	5 1 23	15°41'28	21°53	27°29	6° 4	17° 2	4°31	20°50	7° 9	14°25	4°45	0°26	1°17	3°49	n.a.	T 10
F 11	5 5 19	16°42'40	4♋47	27°D22	7°17	17°30	4°28	20°48	7°12	14°27	4°46	0°14	1°14	3°56	n.a.	F 11
S 12	5 9 16	17°43'52	17°24	27°24	8°29	17°57	4°24	20°47	7°14	14°28	4°47	0° 4	1°11	4° 2	n.a.	S 12
S 13	5 13 13	18°45'04	29°44	27°35	9°42	18°24	4°21	20°45	7°17	14°29	4°48	29♌57	1° 8	4° 9	n.a.	S 13
M14	5 17 9	19°46'15	11♌50	27°53	10°54	18°51	4°17	20°44	7°19	14°30	4°50	29°53	1° 4	4°16	n.a.	M14
T 15	5 21 6	20°47'26	23°45	28°18	12° 7	19°18	4°13	20°43	7°22	14°32	4°51	29°52	1° 1	4°22	n.a.	T 15
W16	5 25 2	21°48'37	5♍33	28°49	13°20	19°44	4° 9	20°41	7°25	14°33	4°52	29°D52	0°58	4°29	n.a.	W16
T 17	5 28 59	22°49'47	17°21	29°26	14°32	20°11	4° 4	20°40	7°27	14°34	4°53	29°R52	0°55	4°35	n.a.	T 17
F 18	5 32 55	23°50'57	29°13	0♐ 7	15°45	20°37	4° 0	20°40	7°30	14°35	4°55	29°52	0°52	4°42	n.a.	F 18
S 19	5 36 52	24°52'06	11♎14	0°54	16°58	21° 3	3°55	20°39	7°33	14°36	4°56	29°51	0°49	4°49	n.a.	S 19
S 20	5 40 48	25°53'15	23°31	1°45	18°11	21°28	3°51	20°38	7°35	14°37	4°57	29°47	0°45	4°55	n.a.	S 20
M21	5 44 45	26°54'23	6♏ 7	2°39	19°24	21°54	3°46	20°37	7°38	14°38	4°59	29°41	0°42	5° 2	n.a.	M21
T 22	5 48 42	27°55'31	19° 6	3°37	20°37	22°19	3°40	20°37	7°41	14°39	5° 0	29°32	0°39	5° 9	n.a.	T 22
W23	5 52 38	28°56'38	2♐29	4°37	21°50	22°44	3°35	20°37	7°44	14°40	5° 2	29°22	0°36	5°15	n.a.	W23
T 24	5 56 35	29°57'45	16°15	5°41	23° 3	23° 8	3°30	20°36	7°47	14°41	5° 3	29°11	0°33	5°22	n.a.	T 24
F 25	6 0 31	0♑58'50	0♑21	6°47	24°16	23°32	3°24	20°D36	7°50	14°42	5° 4	29° 1	0°30	5°29	n.a.	F 25
S 26	6 4 28	1°59'55	14°42	7°55	25°29	23°56	3°18	20°36	7°53	14°42	5° 6	28°53	0°26	5°35	n.a.	S 26
S 27	6 8 24	3° 0'59	29°12	9° 5	26°43	24°20	3°12	20°36	7°55	14°43	5° 7	28°47	0°23	5°42	n.a.	S 27
M28	6 12 21	4° 2'01	13♒44	10°17	27°56	24°44	3° 6	20°37	7°58	14°44	5° 9	28°44	0°20	5°49	n.a.	M28
T 29	6 16 17	5° 3'02	28°13	11°31	29° 9	25° 7	3° 0	20°37	8° 1	14°45	5°10	28°D43	0°17	5°55	n.a.	T 29
W30	6 20 14	6° 4'02	12♓34	12°47	0♐22	25°30	2°54	20°37	8° 5	14°45	5°12	28°43	0°14	6° 2	n.a.	W30
T 31	6 24 11	7♑ 5'00	26♓46	14♐ 4	1♐35	25♍52	2♌48	20♈38	8♒ 8	14♎46	5♒13	28♌44	0♍10	6♍ 9	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	21s39	14s34	1n12	19s 8	2n21	7s45	2n18	8n49	2n 8	20n13	0n58	5n57	2s36	19s27	0s41	3s54	1n55	31s 7	12s10	11n 6	10n58	10n40			n.a.
W 2	21 49	10 59	0s 2	18 39	2 35	8 12	2 17	8 38	2 9	20 13	0 59	5 56	2 36	19 26	0 41	3 54	1 55	31 6	12 10	11 6	10 59	10 39			n.a.
T 3	21 59	6 48	1 16	18 13	2 47	8 38	2 17	8 28	2 10	20 14	0 59	5 55	2 35	19 26	0 41	3 55	1 56	31 6	12 10	11 6	11 0	10 37			n.a.
F 4	22 8	2 15	2 25	17 49	2 57	9 5	2 16	8 17	2 11	20 15	0 59	5 54	2 35	19 25	0 41	3 55	1 56	31 5	12 10	11 7	11 2	10 36			n.a.
S 5	22 18	2n24	3 25	17 29	3 5	9 31	2 15	8 7	2 11	20 16	0 59	5 54	2 35	19 25	0 41	3 56	1 56	31 5	12 10	11 8	11 3	10 34			n.a.
S 6	22 26	6 54	4 12	17 12	3 10	9 57	2 14	7 56	2 12	20 16	1 0	5 53	2 35	19 24	0 41	3 56	1 56	31 4	12 9	11 10	11 4	10 32			n.a.
M 7	22 34	10 59	4 44	16 59	3 13	10 23	2 13	7 46	2 13	20 17	1 0	5 53	2 34	19 23	0 41	3 57	1 56	31 4	12 9	11 14	11 5	10 31			n.a.
T 8	22 42	14 27	5 0	16 50	3 14	10 49	2 12	7 36	2 14	20 18	1 0	5 52	2 34	19 23	0 41	3 57	1 56	31 4	12 9	11 18	11 6	10 29			n.a.
W 9	22 49	17 6	4 58	16 46	3 13	11 14	2 11	7 25	2 15	20 19	1 0	5 52	2 34	19 22	0 41	3 58	1 56	31 3	12 9	11 22	11 7	10 28			n.a.
T 10	22 56	18 48	4 40	16 44	3 10	11 39	2 10	7 15	2 16	20 20	1 1	5 51	2 34	19 22	0 41	3 58	1 56	31 3	12 9	11 27	11 8	10 26			n.a.
F 11	23 3	19 29	4 9	16 47	3 6	12 5	2 9	7 5	2 16	20 21	1 1	5 51	2 33	19 21	0 41	3 59	1 56	31 2	12 8	11 31	11 10	10 24			n.a.
S 12	23 8	19 10	3 25	16 52	3 1	12 29	2 7	6 55	2 17	20 22	1 1	5 51	2 33	19 20	0 41	3 59	1 56	31 2	12 8	11 35	11 11	10 23			n.a.
S 13	23 14	17 57	2 33	17 0	2 55	12 54	2 6	6 45	2 18	20 23	1 2	5 50	2 33	19 20	0 41	4 0	1 56	31 1	12 8	11 37	11 12	10 21			n.a.
M14	23 19	15 56	1 35	17 11	2 49	13 18	2 4	6 35	2 19	20 25	1 2	5 50	2 32	19 19	0 41	4 0	1 56	31 1	12 8	11 38	11 13	10 20			n.a.
T 15	23 23	13 15	0 33	17 23	2 41	13 42	2 2	6 25	2 20	20 26	1 2	5 50	2 32	19 18	0 41	4 0	1 56	31 0	12 8	11 39	11 14	10 18			n.a.
W16	23 27	10 3	0n30	17 38	2 33	14 6	2 1	6 16	2 21	20 27	1 2	5 50	2 32	19 18	0 41	4 1	1 56	31 0	12 8	11 39	11 15	10 16			n.a.
T 17	23 31	6 28	1 32	17 54	2 25	14 30	1 59	6 6	2 22	20 28	1 3	5 50	2 31	19 17	0 41	4 1	1 56	30 59	12 7	11 39	11 16	10 15			n.a.
F 18	23 34	2 36	2 30	18 11	2 17	14 53	1 57	5 56	2 22	20 30	1 3	5 50	2 31	19 16	0 41	4 2	1 56	30 59	12 7	11 39	11 18	10 13			n.a.
S 19	23 37	1s24	3 22	18 29	2 8	15 15	1 55	5 47	2 23	20 31	1 3	5 50	2 31	19 15	0 41	4 2	1 56	30 58	12 7	11 39	11 19	10 11			n.a.
S 20	23 39	5 26	4 6	18 49	1 59	15 38	1 53	5 37	2 24	20 32	1 3	5 50	2 31	19 15	0 41	4 2	1 57	30 58	12 7	11 41	11 20	10 10			n.a.
M21	23 41	9 19	4 39	19 8	1 50	16 0	1 51	5 28	2 25	20 34	1 4	5 50	2 30	19 14	0 41	4 3	1 57	30 57	12 7	11 43	11 21	10 8			n.a.
T 22	23 42	12 54	5 0	19 28	1 40	16 22	1 49	5 19	2 26	20 35	1 4	5 50	2 30	19 13	0 41	4 3	1 57	30 57	12 7	11 46	11 22	10 6			n.a.
W23	23 43	15 56	5 4	19 49	1 31	16 43	1 47	5 10	2 27	20 37	1 4	5 50	2 30	19 12	0 41	4 3	1 57	30 56	12 7	11 49	11 23	10 5			n.a.
T 24	23 43	18 10	4 51	20 9	1 22	17 4	1 45	5 1	2 28	20 38	1 4	5 50	2 29	19 12	0 41	4 3	1 57	30 56	12 6	11 53	11 24	10 3			n.a.
F 25	23 43	19 22	4 21	20 30	1 13	17 24	1 42	4 52	2 29	20 40	1 5	5 50	2 29	19 11	0 41	4 4	1 57	30 55	12 6	11 57	11 26	10 2			n.a.
S 26	23 42	19 22	3 33	20 50	1 4	17 44	1 40	4 43	2 30	20 41	1 5	5 51	2 29	19 10	0 41	4 4	1 57	30 55	12 6	12 0	11 27	10 0			n.a.
S 27	23 41	18 5	2 32	21 10	0 55	18 4	1 37	4 34	2 31	20 43	1 5	5 51	2 28	19 9	0 41	4 4	1 57	30 54	12 6	12 2	11 28	9 58			n.a.
M28	23 39	15 37	1 20	21 30	0 46	18 23	1 35	4 26	2 31	20 45	1 5	5 51	2 28	19 8	0 41	4 4	1 57	30 54	12 6	12 3	11 29	9 57			n.a.
T 29	23 37	12 11	0 3	21 49	0 37	18 42	1 33	4 17	2 32	20 46	1 5	5 52	2 28	19 8	0 41	4 5	1 57	30 53	12 6	12 3	11 30	9 55			n.a.
W30	23 34	8 3	1s14	22 8	0 28	19 0	1 30	4 9	2 33	20 48	1 6	5 52	2 27	19 7	0 41	4 5	1 57	30 53	12 6	12 3	11 31	9 53			n.a.
T 31	23s31	3s31	2s25	22s26	0n20	19s17	1n27	4n 1	2n34	20n50	1n 6	5n53	2s27	19s 6	0s41	4s 5	1n57	30s52	12s 6	12n 3	11n32	9n52			n.a.

Julian Day Number = 1655647.5, Delta T = 03h28m33s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°33'15, Lahiri = - 6°26'15 Julian Calendar 1 Dec. 181 BCE == Greg. Calendar 28 Nov. 181 BCE

The year -180 astronomical counting style corresponds to year 181 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 180 BCE
geocentric

JANUARY 180 BCE (-179) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 28 7	8♉ 5'57	10♈47	15♐22	2♐49	26♍14	2°R41	20♈39	8♒11	14♎47	5♒15	28°R45	0♍ 7	6♍15	n.a.	F 1
S 2	6 32 4	9° 6'52	24°36	16°42	4° 2	26°36	2♌34	20°40	8°14	14°47	5°16	28♌43	0° 4	6°22	n.a.	S 2
S 3	6 36 0	10° 7'46	8♊13	18° 3	5°15	26°58	2°28	20°40	8°17	14°48	5°18	28°40	0° 1	6°28	n.a.	S 3
M 4	6 39 57	11° 8'38	21°39	19°25	6°29	27°19	2°21	20°41	8°20	14°48	5°19	28°35	29♌58	6°35	n.a.	M 4
T 5	6 43 53	12° 9'29	4♋52	20°48	7°42	27°40	2°14	20°43	8°23	14°49	5°21	28°27	29°55	6°42	n.a.	T 5
W 6	6 47 50	13°10'18	17°54	22°12	8°56	28° 1	2° 7	20°44	8°26	14°49	5°22	28°19	29°51	6°48	n.a.	W 6
T 7	6 51 47	14°11'06	0♌42	23°37	10° 9	28°21	2° 0	20°45	8°30	14°50	5°24	28°11	29°48	6°55	n.a.	T 7
F 8	6 55 43	15°11'52	13°18	25° 3	11°22	28°41	1°52	20°47	8°33	14°50	5°25	28° 3	29°45	7° 2	n.a.	F 8
S 9	6 59 40	16°12'37	25°41	26°31	12°36	29° 0	1°45	20°48	8°36	14°50	5°27	27°57	29°42	7° 8	n.a.	S 9
S 10	7 3 36	17°13'21	7♌52	27°59	13°49	29°19	1°38	20°50	8°39	14°51	5°29	27°53	29°39	7°15	n.a.	S 10
M11	7 7 33	18°14'03	19°52	29°28	15° 3	29°38	1°30	20°52	8°43	14°51	5°30	27°51	29°36	7°22	n.a.	M11
T 12	7 11 29	19°14'43	1♍45	0♎58	16°17	29°56	1°23	20°54	8°46	14°51	5°32	27°D50	29°32	7°28	n.a.	T 12
W13	7 15 26	20°15'23	13°33	2°28	17°30	0♏14	1°15	20°56	8°49	14°51	5°33	27°51	29°29	7°35	n.a.	W13
T 14	7 19 22	21°16'00	25°20	4° 0	18°44	0°32	1° 7	20°58	8°52	14°52	5°35	27°53	29°26	7°42	n.a.	T 14
F 15	7 23 19	22°16'37	7♏11	5°33	19°57	0°49	1° 0	21° 0	8°56	14°52	5°37	27°55	29°23	7°48	n.a.	F 15
S 16	7 27 16	23°17'12	19°12	7° 6	21°11	1° 5	0°52	21° 3	8°59	14°52	5°38	27°R56	29°20	7°55	n.a.	S 16
S 17	7 31 12	24°17'46	1♏27	8°40	22°24	1°21	0°44	21° 5	9° 3	14°52	5°40	27°56	29°16	8° 2	n.a.	S 17
M18	7 35 9	25°18'18	14° 0	10°16	23°38	1°37	0°36	21° 8	9° 6	14°52	5°42	27°54	29°13	8° 8	n.a.	M18
T 19	7 39 5	26°18'49	26°57	11°52	24°52	1°52	0°29	21°10	9° 9	14°R52	5°43	27°51	29°10	8°15	n.a.	T 19
W20	7 43 2	27°19'19	10♐20	13°29	26° 5	2° 7	0°21	21°13	9°13	14°52	5°45	27°47	29° 7	8°21	n.a.	W20
T 21	7 46 58	28°19'47	24° 9	15° 7	27°19	2°21	0°13	21°16	9°16	14°52	5°47	27°42	29° 4	8°28	n.a.	T 21
F 22	7 50 55	29°20'14	8♑24	16°46	28°33	2°35	0° 5	21°19	9°19	14°52	5°48	27°38	29° 1	8°35	n.a.	F 22
S 23	7 54 51	0♒20'39	22°59	18°26	29°46	2°48	29♋57	21°22	9°23	14°52	5°50	27°34	28°57	8°41	n.a.	S 23
S 24	7 58 48	1°21'02	7♒49	20° 6	1♑ 0	3° 1	29°49	21°25	9°26	14°52	5°52	27°32	28°54	8°48	n.a.	S 24
M25	8 2 45	2°21'23	22°46	21°48	2°14	3°13	29°41	21°29	9°30	14°51	5°53	27°D31	28°51	8°55	n.a.	M25
T 26	8 6 41	3°21'42	7♓41	23°31	3°27	3°25	29°33	21°32	9°33	14°51	5°55	27°31	28°48	9° 1	n.a.	T 26
W27	8 10 38	4°21'59	22°27	25°15	4°41	3°36	29°25	21°35	9°37	14°51	5°57	27°32	28°45	9° 8	n.a.	W27
T 28	8 14 34	5°22'14	6♈58	27° 0	5°55	3°47	29°18	21°39	9°40	14°51	5°58	27°33	28°42	9°15	n.a.	T 28
F 29	8 18 31	6°22'27	21°11	28°45	7° 9	3°57	29°10	21°43	9°44	14°50	6° 0	27°35	28°38	9°21	n.a.	F 29
S 30	8 22 27	7°22'38	5♉ 4	0♒32	8°22	4° 6	29° 2	21°46	9°47	14°50	6° 1	27°R35	28°35	9°28	n.a.	S 30
S 31	8 26 24	8♒22'46	18♉37	2♒20	9♑36	4♎15	28♋54	21♈50	9♒50	14♎50	6♒ 3	27♌35	28♌32	9♍35	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s28	1n 9	3s27	22s43	0n11	19s35	1n25	3n53	2n35	20n51	1n 6	5n53	2s27	19s 5	0s41	4s 5	1n57	30s52	12s 5	12n 3	11n33	9n50		n.a.
S 2	23 24	5 41	4 15	23 0	0 3	19 51	1 22	3 45	2 36	20 53	1 6	5 54	2 26	19 4	0 41	4 5	1 57	30 51	12 5	12 3	11 35	9 48		n.a.
S 3	23 19	9 51	4 49	23 15	0s 5	20 7	1 19	3 37	2 37	20 55	1 6	5 55	2 26	19 4	0 41	4 6	1 57	30 51	12 5	12 4	11 36	9 47		n.a.
M 4	23 14	13 28	5 6	23 30	0 13	20 23	1 17	3 29	2 38	20 57	1 7	5 55	2 26	19 3	0 41	4 6	1 58	30 50	12 5	12 6	11 37	9 45		n.a.
T 5	23 9	16 20	5 6	23 44	0 21	20 38	1 14	3 22	2 39	20 58	1 7	5 56	2 26	19 2	0 41	4 6	1 58	30 50	12 5	12 9	11 38	9 43		n.a.
W 6	23 3	18 20	4 50	23 57	0 28	20 52	1 11	3 14	2 40	21 0	1 7	5 57	2 25	19 1	0 41	4 6	1 58	30 49	12 5	12 12	11 39	9 42		n.a.
T 7	22 57	19 22	4 20	24 9	0 35	21 6	1 8	3 7	2 41	21 2	1 7	5 58	2 25	19 0	0 41	4 6	1 58	30 49	12 5	12 15	11 40	9 40		n.a.
F 8	22 50	19 26	3 38	24 20	0 42	21 19	1 5	3 0	2 42	21 4	1 7	5 58	2 25	18 59	0 41	4 6	1 58	30 48	12 5	12 17	11 41	9 38		n.a.
S 9	22 43	18 32	2 46	24 29	0 49	21 32	1 3	2 53	2 43	21 6	1 8	5 59	2 24	18 58	0 41	4 6	1 58	30 48	12 5	12 19	11 42	9 36		n.a.
S 10	22 35	16 48	1 47	24 38	0 56	21 44	1 0	2 46	2 44	21 8	1 8	6 0	2 24	18 58	0 41	4 6	1 58	30 47	12 5	12 21	11 44	9 35		n.a.
M11	22 27	14 20	0 43	24 45	1 2	21 56	0 57	2 40	2 45	21 9	1 8	6 1	2 24	18 57	0 41	4 6	1 58	30 47	12 5	12 22	11 45	9 33		n.a.
T 12	22 19	11 18	0n21	24 51	1 8	22 6	0 54	2 33	2 46	21 11	1 8	6 2	2 23	18 56	0 41	4 6	1 58	30 46	12 5	12 22	11 46	9 31		n.a.
W13	22 10	7 51	1 25	24 55	1 14	22 17	0 51	2 27	2 47	21 13	1 8	6 3	2 23	18 55	0 41	4 6	1 58	30 46	12 5	12 21	11 47	9 30		n.a.
T 14	22 1	4 5	2 25	24 59	1 19	22 26	0 48	2 21	2 48	21 15	1 8	6 4	2 23	18 54	0 41	4 6	1 58	30 45	12 5	12 21	11 48	9 28		n.a.
F 15	21 51	0 9	3 19	25 0	1 25	22 35	0 45	2 15	2 49	21 17	1 9	6 5	2 22	18 53	0 41	4 6	1 58	30 45	12 5	12 20	11 49	9 26		n.a.
S 16	21 41	3s50	4 5	25 1	1 30	22 43	0 42	2 9	2 50	21 19	1 9	6 7	2 22	18 52	0 41	4 6	1 58	30 45	12 5	12 20	11 50	9 25		n.a.
S 17	21 30	7 44	4 41	25 0	1 34	22 51	0 39	2 3	2 51	21 21	1 9	6 8	2 22	18 51	0 41	4 6	1 58	30 44	12 5	12 20	11 51	9 23		n.a.
M18	21 19	11 23	5 4	24 57	1 39	22 58	0 36	1 58	2 51	21 22	1 9	6 9	2 21	18 50	0 41	4 6	1 58	30 44	12 5	12 20	11 53	9 21		n.a.
T 19	21 8	14 37	5 13	24 53	1 43	23 4	0 33	1 53	2 52	21 24	1 9	6 10	2 21	18 49	0 41	4 6	1 59	30 43	12 5	12 21	11 54	9 20		n.a.
W20	20 56	17 13	5 6	24 47	1 47	23 9	0 30	1 48	2 53	21 26	1 9	6 12	2 21	18 49	0 41	4 6	1 59	30 43	12 5	12 23	11 55	9 18		n.a.
T 21	20 44	18 55	4 41	24 40	1 50	23 14	0 27	1 43	2 54	21 28	1 9	6 13	2 21	18 48	0 41	4 6	1 59	30 42	12 5	12 24	11 56	9 16		n.a.
F 22	20 31	19 29	3 58	24 31	1 53	23 18	0 24	1 38	2 55	21 30	1 9	6 14	2 20	18 47	0 41	4 6	1 59	30 42	12 5	12 26	11 57	9 14		n.a.
S 23	20 19	18 48	2 59	24 20	1 56	23 22	0 21	1 34	2 56	21 32	1 10	6 16	2 20	18 46	0 41	4 6	1 59	30 41	12 5	12 27	11 58	9 13		n.a.
S 24	20 5	16 49	1 46	24 8	1 58	23 25	0 18	1 29	2 57	21 33	1 10	6 17	2 20	18 45	0 41	4 6	1 59	30 41	12 5	12 28	11 59	9 11		n.a.
M25	19 52	13 40	0 26	23 54	2 0	23 27	0 15	1 25	2 58	21 35	1 10	6 19	2 19	18 44	0 41	4 6	1 59	30 41	12 5	12 29	12 0	9 9		n.a.
T 26	19 38	9 39	0s56	23 38	2 1	23 28	0 12	1 22	2 59	21 37	1 10	6 20	2 19	18 43	0 41	4 5	1 59	30 40	12 5	12 29	12 2	9 8		n.a.
W27	19 23	5 4	2 13	23 20	2 3	23 29	0 9	1 18	3 0	21 39	1 10	6 22	2 19	18 42	0 41	4 5	1 59	30 40	12 5	12 28	12 3	9 6		n.a.
T 28	19 9	0 16	3 21	23 1	2 3	23 29	0 6	1 15	3 1	21 40	1 10	6 24	2 19	18 41	0 41	4 5	1 59	30 39	12 5	12 28	12 4	9 4		n.a.
F 29	18 54	4n26	4 15	22 40	2 4	23 28	0 3	1 12	3 2	21 42	1 10	6 25	2 18	18 40	0 41	4 5	1 59	30 39	12 5	12 27	12 5	9 2		n.a.
S 30	18 38	8 46	4 52	22 16	2 3	23 26	0 0	1 9	3 3	21 44	1 10	6 27	2 18	18 39	0 41	4 5	1 59	30 38	12 5	12 27	12 6	9 1		n.a.
S 31	18s23	12n34	5s12	21s51	2s 3	23s24	0s 2	1n 6	3n 4	21n46	1n10	6n29	2s18	18s38	0s41	4s 5	1n59	30s38	12s 5	12n27	12n 7	8n59		n.a.

Julian Day Number = 1655678.5, Delta T = 03h28m32s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°33'11, Lahiri = - 6°26'11 Julian Calendar 1 Jan. 180 BCE == Greg. Calendar 29 Dec. 181 BCE

The year -179 astronomical counting style corresponds to year 180 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 180 BCE
geocentric

FEBRUARY 180 BCE (-179) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 30 20	9♒22'52	1♊52	4♒ 9	10♉50	4♎23	28°R47	21♈54	9♒54	14°R49	6♒ 5	27°R34	28♌29	9♍41	n.a.	M 1
T 2	8 34 17	10°22'56	14°50	5°59	12° 3	4°30	28♋39	21°58	9°57	14♎49	6° 6	27♌32	28°26	9°48	n.a.	T 2
W 3	8 38 13	11°22'58	27°32	7°50	13°17	4°37	28°31	22° 3	10° 1	14°48	6° 8	27°29	28°22	9°55	n.a.	W 3
T 4	8 42 10	12°22'57	10♋ 1	9°42	14°31	4°44	28°24	22° 7	10° 4	14°48	6°10	27°27	28°19	10° 1	n.a.	T 4
F 5	8 46 7	13°22'55	22°19	11°35	15°45	4°49	28°16	22°11	10° 8	14°47	6°11	27°25	28°16	10° 8	n.a.	F 5
S 6	8 50 3	14°22'50	4♌27	13°29	16°58	4°54	28° 9	22°16	10°11	14°47	6°13	27°23	28°13	10°14	n.a.	S 6
S 7	8 54 0	15°22'43	16°27	15°24	18°12	4°58	28° 2	22°20	10°15	14°46	6°15	27°22	28°10	10°21	n.a.	S 7
M 8	8 57 56	16°22'34	28°20	17°20	19°26	5° 2	27°55	22°25	10°18	14°45	6°16	27°D22	28° 7	10°28	n.a.	M 8
T 9	9 1 53	17°22'23	10♍10	19°17	20°39	5° 5	27°48	22°29	10°21	14°45	6°18	27°22	28° 3	10°34	n.a.	T 9
W10	9 5 49	18°22'10	21°57	21°14	21°53	5° 7	27°41	22°34	10°25	14°44	6°20	27°23	28° 0	10°41	n.a.	W10
T 11	9 9 46	19°21'55	3♎46	23°12	23° 7	5° 9	27°34	22°39	10°28	14°43	6°21	27°24	27°57	10°48	n.a.	T 11
F 12	9 13 42	20°21'38	15°40	25°11	24°21	5°10	27°27	22°44	10°32	14°42	6°23	27°25	27°54	10°54	n.a.	F 12
S 13	9 17 39	21°21'19	27°41	27°10	25°34	5°R10	27°20	22°49	10°35	14°42	6°25	27°25	27°51	11° 1	n.a.	S 13
S 14	9 21 36	22°20'58	9♏55	29° 9	26°48	5° 9	27°13	22°54	10°38	14°41	6°26	27°26	27°47	11° 8	n.a.	S 14
M15	9 25 32	23°20'36	22°26	1♓ 8	28° 2	5° 8	27° 7	22°59	10°42	14°40	6°28	27°R26	27°44	11°14	n.a.	M15
T 16	9 29 29	24°20'12	5♐17	3° 7	29°16	5° 5	27° 1	23° 4	10°45	14°39	6°29	27°26	27°41	11°21	n.a.	T 16
W17	9 33 25	25°19'46	18°33	5° 5	0♒29	5° 3	26°54	23°10	10°49	14°38	6°31	27°26	27°38	11°28	n.a.	W17
T 18	9 37 22	26°19'18	2♑15	7° 3	1°43	4°59	26°48	23°15	10°52	14°37	6°33	27°26	27°35	11°34	n.a.	T 18
F 19	9 41 18	27°18'48	16°24	8°59	2°57	4°54	26°42	23°21	10°55	14°36	6°34	27°D25	27°32	11°41	n.a.	F 19
S 20	9 45 15	28°18'17	0♒58	10°53	4°11	4°49	26°36	23°26	10°59	14°35	6°36	27°25	27°28	11°48	n.a.	S 20
S 21	9 49 11	29°17'43	15°52	12°45	5°24	4°43	26°31	23°32	11° 2	14°34	6°37	27°26	27°25	11°54	n.a.	S 21
M22	9 53 8	0♓17'07	1♓ 0	14°35	6°38	4°36	26°25	23°38	11° 5	14°33	6°39	27°R26	27°22	12° 1	n.a.	M22
T 23	9 57 5	1°16'29	16°11	16°22	7°52	4°29	26°20	23°43	11° 9	14°32	6°40	27°25	27°19	12° 8	n.a.	T 23
W24	10 1 1	2°15'49	1♈17	18° 5	9° 6	4°20	26°15	23°49	11°12	14°31	6°42	27°25	27°16	12°14	n.a.	W24
T 25	10 4 58	3°15'06	16° 8	19°45	10°19	4°11	26° 9	23°55	11°15	14°30	6°43	27°25	27°13	12°21	n.a.	T 25
F 26	10 8 54	4°14'21	0♉39	21°20	11°33	4° 1	26° 5	24° 1	11°18	14°29	6°45	27°24	27° 9	12°27	n.a.	F 26
S 27	10 12 51	5°13'34	14°45	22°51	12°47	3°51	26° 0	24° 7	11°22	14°28	6°46	27°23	27° 6	12°34	n.a.	S 27
S 28	10 16 47	6♓12'44	28♉25	24♓17	14♒ 0	3♎39	25♋55	24♈13	11♒25	14♎27	6♒48	27♌23	27♌ 3	12♍41	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	18s 7	15n38	5s15	21s25	2s 2	23s21	0s 5	1n 3	3n 5	21n47	1n10	6n30	2s17	18s37	0s41	4s 4	1n59	30s38	12s 5	12n28	12n 8	8n57		n.a.
T 2	17 50	17 50	5 2	20 56	2 0	23 18	0 8	1 1	3 5	21 49	1 10	6 32	2 17	18 36	0 41	4 4	1 59	30 37	12 5	12 28	12 9	8 55		n.a.
W 3	17 34	19 8	4 34	20 25	1 58	23 13	0 11	0 59	3 6	21 51	1 10	6 34	2 17	18 36	0 41	4 4	2 0	30 37	12 5	12 29	12 10	8 54		n.a.
T 4	17 17	19 27	3 53	19 52	1 55	23 8	0 14	0 57	3 7	21 52	1 10	6 36	2 17	18 35	0 41	4 4	2 0	30 36	12 5	12 30	12 12	8 52		n.a.
F 5	17 0	18 51	3 2	19 18	1 52	23 3	0 16	0 56	3 8	21 54	1 11	6 38	2 16	18 34	0 41	4 3	2 0	30 36	12 5	12 31	12 13	8 50		n.a.
S 6	16 42	17 22	2 4	18 42	1 48	22 56	0 19	0 55	3 9	21 55	1 11	6 40	2 16	18 33	0 41	4 3	2 0	30 36	12 5	12 31	12 14	8 48		n.a.
S 7	16 25	15 8	1 0	18 3	1 44	22 49	0 22	0 54	3 10	21 57	1 11	6 42	2 16	18 32	0 41	4 3	2 0	30 35	12 5	12 31	12 15	8 47		n.a.
M 8	16 7	12 16	0n 5	17 23	1 39	22 42	0 24	0 53	3 10	21 58	1 11	6 44	2 16	18 31	0 41	4 2	2 0	30 35	12 5	12 32	12 16	8 45		n.a.
T 9	15 48	8 56	1 11	16 41	1 34	22 33	0 27	0 52	3 11	22 0	1 11	6 46	2 15	18 30	0 41	4 2	2 0	30 35	12 5	12 31	12 17	8 43		n.a.
W10	15 30	5 15	2 12	15 58	1 28	22 24	0 30	0 52	3 12	22 1	1 11	6 48	2 15	18 29	0 41	4 2	2 0	30 34	12 6	12 31	12 18	8 41		n.a.
T 11	15 11	1 22	3 9	15 13	1 21	22 14	0 32	0 52	3 12	22 3	1 11	6 50	2 15	18 28	0 41	4 1	2 0	30 34	12 6	12 31	12 19	8 40		n.a.
F 12	14 52	2s35	3 58	14 26	1 14	22 4	0 35	0 53	3 13	22 4	1 11	6 52	2 15	18 27	0 41	4 1	2 0	30 34	12 6	12 31	12 20	8 38		n.a.
S 13	14 33	6 28	4 36	13 37	1 6	21 53	0 37	0 53	3 14	22 5	1 11	6 54	2 14	18 26	0 41	4 1	2 0	30 33	12 6	12 30	12 22	8 36		n.a.
S 14	14 13	10 10	5 3	12 48	0 57	21 41	0 39	0 54	3 14	22 7	1 11	6 56	2 14	18 25	0 41	4 0	2 0	30 33	12 6	12 30	12 23	8 34		n.a.
M15	13 54	13 29	5 17	11 57	0 48	21 29	0 42	0 55	3 15	22 8	1 11	6 58	2 14	18 24	0 41	4 0	2 0	30 33	12 6	12 30	12 24	8 33		n.a.
T 16	13 34	16 16	5 15	11 4	0 39	21 16	0 44	0 56	3 16	22 9	1 11	7 0	2 14	18 23	0 41	4 0	2 0	30 32	12 6	12 30	12 25	8 31		n.a.
W17	13 14	18 17	4 57	10 11	0 28	21 2	0 46	0 58	3 16	22 10	1 11	7 2	2 13	18 22	0 41	3 59	2 0	30 32	12 6	12 30	12 26	8 29		n.a.
T 18	12 53	19 20	4 21	9 18	0 18	20 48	0 49	1 0	3 17	22 12	1 11	7 5	2 13	18 22	0 41	3 59	2 0	30 32	12 6	12 30	12 27	8 27		n.a.
F 19	12 33	19 14	3 29	8 24	0 6	20 33	0 51	1 2	3 17	22 13	1 11	7 7	2 13	18 21	0 41	3 58	2 0	30 31	12 7	12 30	12 28	8 26		n.a.
S 20	12 12	17 52	2 22	7 29	0n 5	20 17	0 53	1 5	3 17	22 14	1 11	7 9	2 13	18 20	0 41	3 58	2 1	30 31	12 7	12 30	12 29	8 24		n.a.
S 21	11 51	15 15	1 4	6 35	0 17	20 1	0 55	1 7	3 18	22 15	1 11	7 12	2 12	18 19	0 41	3 57	2 1	30 31	12 7	12 30	12 30	8 22		n.a.
M22	11 30	11 33	0s20	5 41	0 29	19 45	0 57	1 10	3 18	22 16	1 11	7 14	2 12	18 18	0 41	3 57	2 1	30 31	12 7	12 30	12 32	8 20		n.a.
T 23	11 9	7 5	1 43	4 48	0 42	19 28	0 59	1 14	3 18	22 17	1 11	7 16	2 12	18 17	0 41	3 57	2 1	30 30	12 7	12 30	12 33	8 18		n.a.
W24	10 47	2 12	2 57	3 56	0 55	19 10	1 1	1 17	3 18	22 18	1 10	7 19	2 12	18 16	0 41	3 56	2 1	30 30	12 7	12 30	12 34	8 17		n.a.
T 25	10 26	2n45	3 59	3 5	1 7	18 52	1 3	1 21	3 19	22 19	1 10	7 21	2 11	18 15	0 41	3 56	2 1	30 30	12 8	12 31	12 35	8 15		n.a.
F 26	10 4	7 24	4 44	2 15	1 20	18 33	1 5	1 25	3 19	22 20	1 10	7 23	2 11	18 14	0 41	3 55	2 1	30 30	12 8	12 31	12 36	8 13		n.a.
S 27	9 42	11 30	5 10	1 27	1 32	18 14	1 6	1 29	3 19	22 21	1 10	7 26	2 11	18 13	0 41	3 55	2 1	30 29	12 8	12 31	12 37	8 11		n.a.
S 28	9s20	14n52	5s18	0s42	1n45	17s54	1s 8	1n34	3n19	22n21	1n10	7n28	2s11	18s13	0s41	3s54	2n 1	30s29	12s 8	12n31	12n38	8n 9		n.a.

Julian Day Number = 1655709.5, Delta T = 03h28m31s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°33'07, Lahiri = - 6°26'06 Julian Calendar 1 Feb. 180 BCE == Greg. Calendar 29 Jan. 180 BCE

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ASTRODIENST EPHEMERIS for the year 180 BCE
geocentric

MARCH 180 BCE (-179) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 20 44	7♓11'52	11♊40	25♓38	15♒14	3°R27	25°R51	24♈19	11♒28	14°R26	6♒49	27°D23	27♌ 0	12♍47	n.a.	M 1
T 2	10 24 40	8°10'57	24°32	26°53	16°28	3♎14	25♋46	24°26	11°31	14♎24	6°51	27♌23	26°57	12°54	n.a.	T 2
W 3	10 28 37	9°10'00	7♋ 6	28° 2	17°42	3° 1	25°42	24°32	11°34	14°23	6°52	27°24	26°53	13° 1	n.a.	W 3
T 4	10 32 33	10° 9'01	19°23	29° 6	18°55	2°46	25°38	24°38	11°37	14°22	6°54	27°25	26°50	13° 7	n.a.	T 4
F 5	10 36 30	11° 7'59	1♌29	0♈ 3	20° 9	2°31	25°34	24°45	11°41	14°21	6°55	27°26	26°47	13°14	n.a.	F 5
S 6	10 40 27	12° 6'55	13°26	0°53	21°23	2°16	25°31	24°51	11°44	14°19	6°57	27°27	26°44	13°21	n.a.	S 6
S 7	10 44 23	13° 5'48	25°17	1°37	22°36	1°59	25°27	24°58	11°47	14°18	6°58	27°R28	26°41	13°27	n.a.	S 7
M 8	10 48 20	14° 4'40	7♍ 6	2°14	23°50	1°43	25°24	25° 4	11°50	14°17	6°59	27°28	26°38	13°34	n.a.	M 8
T 9	10 52 16	15° 3'29	18°54	2°45	25° 4	1°25	25°21	25°11	11°53	14°15	7° 1	27°26	26°34	13°41	n.a.	T 9
W10	10 56 13	16° 2'16	0♎44	3° 8	26°17	1° 7	25°18	25°17	11°56	14°14	7° 2	27°24	26°31	13°47	n.a.	W10
T 11	11 0 9	17° 1'01	12°37	3°25	27°31	0°48	25°15	25°24	11°59	14°12	7° 3	27°21	26°28	13°54	n.a.	T 11
F 12	11 4 6	17°59'44	24°36	3°35	28°45	0°29	25°13	25°31	12° 2	14°11	7° 5	27°18	26°25	14° 1	n.a.	F 12
S 13	11 8 2	18°58'25	6♏44	3°R39	29°58	0°10	25°10	25°38	12° 5	14°10	7° 6	27°15	26°22	14° 7	n.a.	S 13
S 14	11 11 59	19°57'05	19° 2	3°37	1♓12	29♍50	25° 8	25°45	12° 8	14° 8	7° 7	27°12	26°18	14°14	n.a.	S 14
M15	11 15 55	20°55'42	1♐35	3°28	2°26	29°29	25° 6	25°51	12°10	14° 7	7° 9	27° 9	26°15	14°21	n.a.	M15
T 16	11 19 52	21°54'18	14°25	3°13	3°39	29° 8	25° 4	25°58	12°13	14° 5	7°10	27° 8	26°12	14°27	n.a.	T 16
W17	11 23 49	22°52'52	27°34	2°53	4°53	28°47	25° 3	26° 5	12°16	14° 4	7°11	27°D 8	26° 9	14°34	n.a.	W17
T 18	11 27 45	23°51'25	11♑ 7	2°28	6° 7	28°26	25° 1	26°12	12°19	14° 2	7°12	27° 9	26° 6	14°40	n.a.	T 18
F 19	11 31 42	24°49'56	25° 4	1°59	7°20	28° 4	25° 0	26°20	12°22	14° 1	7°14	27°10	26° 3	14°47	n.a.	F 19
S 20	11 35 38	25°48'25	9♒25	1°26	8°34	27°42	24°59	26°27	12°24	13°59	7°15	27°12	25°59	14°54	n.a.	S 20
S 21	11 39 35	26°46'52	24° 9	0°50	9°48	27°20	24°58	26°34	12°27	13°58	7°16	27°R12	25°56	15° 0	n.a.	S 21
M22	11 43 31	27°45'17	9♓10	0°11	11° 1	26°57	24°57	26°41	12°30	13°56	7°17	27°12	25°53	15° 7	n.a.	M22
T 23	11 47 28	28°43'41	24°21	29♓31	12°15	26°35	24°57	26°48	12°32	13°55	7°18	27°10	25°50	15°14	n.a.	T 23
W24	11 51 24	29°42'02	9♈31	28°49	13°29	26°12	24°57	26°56	12°35	13°53	7°19	27° 7	25°47	15°20	n.a.	W24
T 25	11 55 21	0♈40'22	24°32	28° 8	14°42	25°50	24°D56	27° 3	12°38	13°51	7°21	27° 2	25°44	15°27	n.a.	T 25
F 26	11 59 18	1°38'39	9♉15	27°27	15°56	25°28	24°56	27°10	12°40	13°50	7°22	26°57	25°40	15°34	n.a.	F 26
S 27	12 3 14	2°36'55	23°33	26°48	17°10	25° 5	24°57	27°18	12°43	13°48	7°23	26°52	25°37	15°40	n.a.	S 27
S 28	12 7 11	3°35'08	7♊22	26°10	18°23	24°43	24°57	27°25	12°45	13°47	7°24	26°48	25°34	15°47	n.a.	S 28
M29	12 11 7	4°33'20	20°44	25°35	19°37	24°21	24°58	27°33	12°48	13°45	7°25	26°46	25°31	15°54	n.a.	M29
T 30	12 15 4	5°31'29	3♋39	25° 3	20°51	24° 0	24°58	27°40	12°50	13°44	7°26	26°D45	25°28	16° 0	n.a.	T 30
W31	12 19 0	6♈29'36	16♋11	24♓34	22♓ 4	23♍38	24♋59	27♈48	12♒52	13♎42	7♒27	26♌45	25♌24	16♍ 7	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	8s58	17n21	5s 8	0n 2	1n57	17s34	1s10	1n39	3n18	22n22	1n10	7n31	2s11	18s12	0s41	3s54	2n 1	30s29	12s 8	12n31	12n39	8n 8			n.a.
T 2	8 36	18 53	4 43	0 42	2 8	17 13	1 11	1 44	3 18	22 23	1 10	7 33	2 10	18 11	0 41	3 53	2 1	30 29	12 8	12 31	12 40	8 6			n.a.
W 3	8 13	19 27	4 5	1 20	2 19	16 51	1 13	1 49	3 18	22 24	1 10	7 36	2 10	18 10	0 41	3 53	2 1	30 28	12 9	12 31	12 41	8 4			n.a.
T 4	7 51	19 4	3 16	1 55	2 30	16 30	1 14	1 54	3 18	22 24	1 10	7 38	2 10	18 9	0 41	3 52	2 1	30 28	12 9	12 30	12 43	8 2			n.a.
F 5	7 28	17 48	2 19	2 27	2 39	16 8	1 15	2 0	3 17	22 25	1 10	7 41	2 10	18 8	0 41	3 52	2 1	30 28	12 9	12 30	12 44	8 0			n.a.
S 6	7 6	15 45	1 17	2 55	2 48	15 45	1 17	2 6	3 17	22 26	1 10	7 43	2 10	18 7	0 41	3 51	2 1	30 28	12 9	12 30	12 45	7 59			n.a.
S 7	6 43	13 3	0 12	3 20	2 56	15 22	1 18	2 12	3 16	22 26	1 10	7 46	2 9	18 7	0 41	3 50	2 1	30 28	12 9	12 30	12 46	7 57			n.a.
M 8	6 20	9 50	0n53	3 42	3 3	14 58	1 19	2 18	3 16	22 27	1 10	7 49	2 9	18 6	0 41	3 50	2 1	30 28	12 10	12 30	12 47	7 55			n.a.
T 9	5 57	6 13	1 56	4 0	3 9	14 35	1 20	2 24	3 15	22 27	1 10	7 51	2 9	18 5	0 41	3 49	2 1	30 27	12 10	12 30	12 48	7 53			n.a.
W10	5 34	2 22	2 54	4 14	3 14	14 10	1 21	2 31	3 14	22 28	1 10	7 54	2 9	18 4	0 41	3 49	2 1	30 27	12 10	12 31	12 49	7 51			n.a.
T 11	5 11	1s36	3 44	4 24	3 18	13 46	1 22	2 38	3 13	22 28	1 9	7 56	2 9	18 3	0 41	3 48	2 1	30 27	12 10	12 32	12 50	7 50			n.a.
F 12	4 48	5 32	4 25	4 30	3 20	13 21	1 23	2 44	3 12	22 28	1 9	7 59	2 9	18 2	0 41	3 48	2 1	30 27	12 11	12 33	12 51	7 48			n.a.
S 13	4 25	9 16	4 55	4 33	3 21	12 55	1 24	2 51	3 11	22 29	1 9	8 2	2 8	18 2	0 41	3 47	2 1	30 27	12 11	12 34	12 52	7 46			n.a.
S 14	4 1	12 41	5 12	4 31	3 21	12 30	1 25	2 58	3 10	22 29	1 9	8 4	2 8	18 1	0 41	3 46	2 1	30 27	12 11	12 35	12 53	7 44			n.a.
M15	3 38	15 35	5 14	4 26	3 19	12 4	1 26	3 6	3 9	22 29	1 9	8 7	2 8	18 0	0 41	3 46	2 2	30 27	12 11	12 36	12 55	7 42			n.a.
T 16	3 15	17 49	5 1	4 17	3 16	11 37	1 26	3 13	3 8	22 30	1 9	8 10	2 8	17 59	0 41	3 45	2 2	30 26	12 12	12 36	12 56	7 41			n.a.
W17	2 51	19 10	4 32	4 5	3 11	11 11	1 27	3 20	3 6	22 30	1 9	8 12	2 8	17 58	0 41	3 45	2 2	30 26	12 12	12 36	12 57	7 39			n.a.
T 18	2 28	19 28	3 47	3 49	3 5	10 44	1 28	3 27	3 5	22 30	1 9	8 15	2 8	17 58	0 41	3 44	2 2	30 26	12 12	12 36	12 58	7 37			n.a.
F 19	2 5	18 37	2 48	3 30	2 57	10 16	1 28	3 35	3 3	22 30	1 9	8 18	2 7	17 57	0 41	3 43	2 2	30 26	12 12	12 36	12 59	7 35			n.a.
S 20	1 41	16 33	1 36	3 8	2 48	9 49	1 28	3 42	3 2	22 30	1 9	8 21	2 7	17 56	0 41	3 43	2 2	30 26	12 13	12 35	13 0	7 33			n.a.
S 21	1 18	13 22	0 17	2 44	2 37	9 21	1 29	3 49	3 0	22 30	1 8	8 23	2 7	17 55	0 41	3 42	2 2	30 26	12 13	12 35	13 1	7 31			n.a.
M22	0 54	9 14	1s 5	2 18	2 25	8 53	1 29	3 57	2 58	22 30	1 8	8 26	2 7	17 55	0 41	3 42	2 2	30 26	12 13	12 35	13 2	7 30			n.a.
T 23	0 31	4 28	2 23	1 49	2 12	8 25	1 29	4 4	2 56	22 30	1 8	8 29	2 7	17 54	0 41	3 41	2 2	30 26	12 13	12 36	13 3	7 28			n.a.
W24	0 7	0n35	3 31	1 20	1 58	7 56	1 29	4 11	2 54	22 30	1 8	8 32	2 7	17 53	0 41	3 40	2 2	30 26	12 14	12 37	13 4	7 26			n.a.
T 25	0n16	5 32	4 24	0 50	1 43	7 28	1 29	4 18	2 52	22 30	1 8	8 34	2 6	17 52	0 41	3 40	2 2	30 26	12 14	12 38	13 5	7 24			n.a.
F 26	0 40	10 3	4 57	0 19	1 28	6 59	1 29	4 25	2 50	22 30	1 8	8 37	2 6	17 52	0 41	3 39	2 2	30 26	12 14	12 40	13 7	7 22			n.a.
S 27	1 3	13 51	5 11	0s12	1 12	6 30	1 29	4 32	2 48	22 30	1 8	8 40	2 6	17 51	0 42	3 38	2 2	30 26	12 15	12 42	13 8	7 20			n.a.
S 28	1 26	16 45	5 7	0 42	0 55	6 0	1 29	4 39	2 46	22 30	1 8	8 43	2 6	17 50	0 42	3 38	2 2	30 26	12 15	12 43	13 9	7 18			n.a.
M29	1 50	18 39	4 45	1 11	0 39	5 31	1 29	4 46	2 43	22 30	1 8	8 46	2 6	17 50	0 42	3 37	2 2	30 26	12 15	12 44	13 10	7 17			n.a.
T 30	2 13	19 30	4 10	1 39	0 22	5 2	1 29	4 52	2 41	22 29	1 8	8 48	2 6	17 49	0 42	3 36	2 2	30 26	12 15	12 44	13 11	7 15			n.a.
W31	2n36	19n21	3s23	2s 6	0n 5	4s32	1s28	4n58	2n38	22n29	1n 7	8n51	2s 6	17s48	0s42	3s36	2n 2	30s26	12s16	12n44	13n12	7n13			n.a.

Julian Day Number = 1655737.5, Delta T = 03h28m30s
Ecliptic obliquity = 23°42'54, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°33'03, Lahiri = - 6°26'03 Julian Calendar 1 March 180 BCE == Greg. Calendar 26 Feb. 180 BCE

The year -179 astronomical counting style corresponds to year 180 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 180 BCE
geocentric

APRIL 180 BCE (-179) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 22 57	7♈27'41	28♋25	24°R10	23♓18	23°R17	25♋ 1	27♈55	12♒55	13°R40	7♒28	26♌47	25♌21	16♍14	n.a.	T 1
F 2	12 26 53	8°25'44	10♌25	23♓49	24°31	22♍57	25° 2	28° 3	12°57	13♎39	7°29	26°48	25°18	16°20	n.a.	F 2
S 3	12 30 50	9°23'45	22°17	23°34	25°45	22°36	25° 3	28°10	12°59	13°37	7°30	26°R49	25°15	16°27	n.a.	S 3
S 4	12 34 47	10°21'44	4♍ 5	23°22	26°59	22°16	25° 5	28°18	13° 1	13°35	7°31	26°49	25°12	16°34	n.a.	S 4
M 5	12 38 43	11°19'41	15°52	23°16	28°12	21°57	25° 7	28°26	13° 4	13°34	7°31	26°47	25° 9	16°40	n.a.	M 5
T 6	12 42 40	12°17'36	27°41	23°D14	29°26	21°38	25° 9	28°33	13° 6	13°32	7°32	26°43	25° 5	16°47	n.a.	T 6
W 7	12 46 36	13°15'30	9♎36	23°17	0♈39	21°20	25°11	28°41	13° 8	13°31	7°33	26°37	25° 2	16°54	n.a.	W 7
T 8	12 50 33	14°13'22	21°37	23°24	1°53	21° 2	25°14	28°49	13°10	13°29	7°34	26°29	24°59	17° 0	n.a.	T 8
F 9	12 54 29	15°11'12	3♏47	23°37	3° 7	20°45	25°16	28°56	13°12	13°27	7°35	26°20	24°56	17° 7	n.a.	F 9
S 10	12 58 26	16° 9'01	16° 7	23°53	4°20	20°29	25°19	29° 4	13°14	13°26	7°36	26°11	24°53	17°14	n.a.	S 10
S 11	13 2 22	17° 6'49	28°37	24°15	5°34	20°13	25°22	29°12	13°16	13°24	7°36	26° 3	24°50	17°20	n.a.	S 11
M12	13 6 19	18° 4'35	11♐19	24°40	6°47	19°58	25°25	29°19	13°18	13°22	7°37	25°56	24°46	17°27	n.a.	M12
T 13	13 10 15	19° 2'20	24°14	25°10	8° 1	19°43	25°28	29°27	13°20	13°21	7°38	25°51	24°43	17°34	n.a.	T 13
W14	13 14 12	20° 0'03	7♑26	25°44	9°15	19°29	25°32	29°35	13°22	13°19	7°38	25°48	24°40	17°40	n.a.	W14
T 15	13 18 9	20°57'46	20°54	26°22	10°28	19°16	25°35	29°43	13°23	13°18	7°39	25°D48	24°37	17°47	n.a.	T 15
F 16	13 22 5	21°55'27	4♒42	27° 4	11°42	19° 4	25°39	29°51	13°25	13°16	7°40	25°48	24°34	17°53	n.a.	F 16
S 17	13 26 2	22°53'07	18°49	27°49	12°55	18°53	25°43	29°59	13°27	13°14	7°40	25°R49	24°30	18° 0	n.a.	S 17
S 18	13 29 58	23°50'46	3♓16	28°38	14° 9	18°42	25°47	0♉ 6	13°28	13°13	7°41	25°49	24°27	18° 7	n.a.	S 18
M19	13 33 55	24°48'24	18° 0	29°31	15°22	18°32	25°51	0°14	13°30	13°11	7°41	25°47	24°24	18°13	n.a.	M19
T 20	13 37 51	25°46'00	2♈55	0♈26	16°36	18°23	25°56	0°22	13°32	13°10	7°42	25°43	24°21	18°20	n.a.	T 20
W21	13 41 48	26°43'36	17°54	1°25	17°50	18°14	26° 0	0°30	13°33	13° 8	7°43	25°36	24°18	18°27	n.a.	W21
T 22	13 45 44	27°41'10	2♉49	2°28	19° 3	18° 7	26° 5	0°38	13°35	13° 6	7°43	25°28	24°15	18°33	n.a.	T 22
F 23	13 49 41	28°38'43	17°29	3°33	20°17	18° 0	26°10	0°46	13°36	13° 5	7°44	25°18	24°11	18°40	n.a.	F 23
S 24	13 53 38	29°36'14	1♊49	4°41	21°30	17°54	26°15	0°54	13°37	13° 3	7°44	25° 9	24° 8	18°47	n.a.	S 24
S 25	13 57 34	0♉33'45	15°42	5°52	22°44	17°49	26°20	1° 1	13°39	13° 2	7°44	25° 0	24° 5	18°53	n.a.	S 25
M26	14 1 31	1°31'14	29° 7	7° 5	23°58	17°45	26°25	1° 9	13°40	13° 0	7°45	24°54	24° 2	19° 0	n.a.	M26
T 27	14 5 27	2°28'41	12♋ 6	8°22	25°11	17°42	26°31	1°17	13°41	12°59	7°45	24°50	23°59	19° 7	n.a.	T 27
W28	14 9 24	3°26'07	24°40	9°41	26°25	17°39	26°36	1°25	13°43	12°57	7°46	24°48	23°55	19°13	n.a.	W28
T 29	14 13 20	4°23'32	6♌55	11° 3	27°38	17°37	26°42	1°33	13°44	12°56	7°46	24°D48	23°52	19°20	n.a.	T 29
F 30	14 17 17	5♉20'55	18♌56	12♈28	28♈52	17♍36	26♋48	1♉41	13♒45	12♎54	7♒46	24°R48	23♌49	19♍27	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n 0	18n18	2s29	2s31	0s11	4s 2	1s28	5n 4	2n36	22n29	1n 7	8n54	2s 6	17s48	0s42	3s35	2n 2	30s26	12s16	12n44	13n13	7n11		n.a.
F 2	3 23	16 25	1 28	2 53	0 27	3 32	1 28	5 10	2 33	22 28	1 7	8 57	2 6	17 47	0 42	3 35	2 2	30 26	12 16	12 43	13 14	7 9		n.a.
S 3	3 46	13 51	0 25	3 14	0 42	3 2	1 27	5 16	2 30	22 28	1 7	9 0	2 5	17 47	0 42	3 34	2 2	30 26	12 17	12 43	13 15	7 7		n.a.
S 4	4 9	10 44	0n39	3 32	0 57	2 32	1 26	5 21	2 28	22 27	1 7	9 3	2 5	17 46	0 42	3 33	2 2	30 26	12 17	12 43	13 16	7 5		n.a.
M 5	4 32	7 12	1 41	3 48	1 11	2 2	1 26	5 27	2 25	22 27	1 7	9 5	2 5	17 45	0 42	3 33	2 2	30 26	12 17	12 44	13 17	7 4		n.a.
T 6	4 55	3 22	2 39	4 1	1 25	1 32	1 25	5 32	2 22	22 27	1 7	9 8	2 5	17 45	0 42	3 32	2 2	30 26	12 18	12 45	13 18	7 2		n.a.
W 7	5 18	0s38	3 30	4 11	1 38	1 1	1 24	5 36	2 19	22 26	1 7	9 11	2 5	17 44	0 42	3 31	2 2	30 26	12 18	12 47	13 19	7 0		n.a.
T 8	5 40	4 37	4 13	4 19	1 49	0 31	1 23	5 41	2 17	22 25	1 6	9 14	2 5	17 44	0 42	3 31	2 2	30 26	12 18	12 50	13 21	6 58		n.a.
F 9	6 3	8 29	4 44	4 24	2 0	0 1	1 23	5 45	2 14	22 25	1 6	9 17	2 5	17 43	0 42	3 30	2 2	30 26	12 18	12 53	13 22	6 56		n.a.
S 10	6 25	12 1	5 2	4 27	2 11	0n30	1 22	5 49	2 11	22 24	1 6	9 20	2 5	17 43	0 42	3 29	2 2	30 26	12 19	12 56	13 23	6 54		n.a.
S 11	6 48	15 6	5 7	4 27	2 20	1 0	1 21	5 52	2 8	22 24	1 6	9 22	2 5	17 42	0 42	3 29	2 2	30 26	12 19	12 59	13 24	6 52		n.a.
M12	7 10	17 30	4 56	4 24	2 29	1 31	1 20	5 56	2 5	22 23	1 6	9 25	2 5	17 41	0 42	3 28	2 2	30 26	12 19	13 1	13 25	6 50		n.a.
T 13	7 32	19 5	4 30	4 19	2 36	2 1	1 18	5 59	2 2	22 22	1 6	9 28	2 4	17 41	0 42	3 28	2 2	30 27	12 20	13 3	13 26	6 49		n.a.
W14	7 54	19 41	3 50	4 12	2 43	2 31	1 17	6 2	1 59	22 21	1 6	9 31	2 4	17 40	0 42	3 27	2 2	30 27	12 20	13 4	13 27	6 47		n.a.
T 15	8 16	19 10	2 56	4 2	2 49	3 2	1 16	6 4	1 56	22 21	1 6	9 34	2 4	17 40	0 42	3 26	2 2	30 27	12 20	13 4	13 28	6 45		n.a.
F 16	8 38	17 31	1 51	3 50	2 54	3 32	1 15	6 6	1 53	22 20	1 6	9 37	2 4	17 39	0 42	3 26	2 2	30 27	12 21	13 4	13 29	6 43		n.a.
S 17	9 0	14 46	0 37	3 36	2 58	4 2	1 13	6 8	1 50	22 19	1 5	9 39	2 4	17 39	0 42	3 25	2 2	30 27	12 21	13 4	13 30	6 41		n.a.
S 18	9 21	11 2	0s40	3 19	3 2	4 32	1 12	6 9	1 47	22 18	1 5	9 42	2 4	17 39	0 42	3 24	2 2	30 27	12 21	13 4	13 31	6 39		n.a.
M19	9 43	6 34	1 56	3 1	3 5	5 2	1 11	6 10	1 44	22 17	1 5	9 45	2 4	17 38	0 42	3 24	2 2	30 27	12 22	13 4	13 32	6 37		n.a.
T 20	10 4	1 39	3 5	2 40	3 7	5 32	1 9	6 11	1 41	22 16	1 5	9 48	2 4	17 38	0 42	3 23	2 2	30 28	12 22	13 6	13 33	6 35		n.a.
W21	10 25	3n23	4 1	2 18	3 8	6 2	1 8	6 12	1 38	22 15	1 5	9 51	2 4	17 37	0 42	3 23	2 2	30 28	12 22	13 8	13 35	6 33		n.a.
T 22	10 46	8 11	4 41	1 53	3 9	6 32	1 6	6 12	1 35	22 14	1 5	9 54	2 4	17 37	0 42	3 22	2 2	30 28	12 23	13 11	13 36	6 32		n.a.
F 23	11 7	12 26	5 1	1 27	3 8	7 1	1 4	6 12	1 32	22 13	1 5	9 56	2 4	17 37	0 42	3 21	2 2	30 28	12 23	13 14	13 37	6 30		n.a.
S 24	11 28	15 50	5 2	0 59	3 7	7 31	1 3	6 12	1 29	22 12	1 5	9 59	2 4	17 36	0 42	3 21	2 2	30 28	12 23	13 17	13 38	6 28		n.a.
S 25	11 48	18 13	4 45	0 29	3 6	8 0	1 1	6 11	1 26	22 11	1 5	10 2	2 4	17 36	0 42	3 20	2 2	30 29	12 24	13 20	13 39	6 26		n.a.
M26	12 8	19 31	4 12	0n 2	3 4	8 29	0 59	6 10	1 23	22 10	1 4	10 5	2 4	17 35	0 43	3 20	2 2	30 29	12 24	13 22	13 40	6 24		n.a.
T 27	12 28	19 43	3 27	0 36	3 1	8 58	0 57	6 9	1 20	22 9	1 4	10 8	2 4	17 35	0 43	3 19	2 2	30 29	12 24	13 24	13 41	6 22		n.a.
W28	12 48	18 55	2 33	1 10	2 57	9 27	0 56	6 7	1 17	22 7	1 4	10 10	2 4	17 35	0 43	3 18	2 2	30 29	12 25	13 24	13 42	6 20		n.a.
T 29	13 8	17 15	1 34	1 47	2 53	9 55	0 54	6 5	1 14	22 6	1 4	10 13	2 4	17 35	0 43	3 18	2 2	30 29	12 25	13 24	13 43	6 18		n.a.
F 30	13n27	14n50	0s31	2n24	2s48	10n23	0s52	6n 3	1n11	22n 5	1n 4	10n16	2s 4	17s34	0s43	3s17	2n 2	30s30	12s26	13n24	13n44	6n16		n.a.

Julian Day Number = 1655768.5, Delta T = 03h28m29s
Ecliptic obliquity = 23°42'54, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'59, Lahiri = - 6°25'58 Julian Calendar 1 Apr. 180 BCE == Greg. Calendar 29 March 180 BCE

The year -179 astronomical counting style corresponds to year 180 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 180 BCE
geocentric

MAY 180 BCE (-179) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 21 13	6♉18'17	0♍47	13♈55	0♉ 6	17°D36	26♋54	1♉49	13♒46	12°R53	7♒46	24°R48	23♌46	19♍33	n.a.	S 1
S 2	14 25 10	7°15'38	12°35	15°25	1°19	17♍37	27° 1	1°56	13°47	12♎51	7°47	24♌47	23°43	19°40	n.a.	S 2
M 3	14 29 7	8°12'58	24°23	16°57	2°33	17°38	27° 7	2° 4	13°48	12°50	7°47	24°43	23°40	19°47	n.a.	M 3
T 4	14 33 3	9°10'16	6♎17	18°32	3°46	17°41	27°13	2°12	13°49	12°48	7°47	24°37	23°36	19°53	n.a.	T 4
W 5	14 37 0	10° 7'33	18°18	20° 9	5° 0	17°44	27°20	2°20	13°50	12°47	7°47	24°28	23°33	20° 0	n.a.	W 5
T 6	14 40 56	11° 4'50	0♏30	21°49	6°13	17°47	27°27	2°28	13°51	12°46	7°48	24°17	23°30	20° 7	n.a.	T 6
F 7	14 44 53	12° 2'05	12°53	23°32	7°27	17°52	27°34	2°36	13°51	12°44	7°48	24° 5	23°27	20°13	n.a.	F 7
S 8	14 48 49	12°59'20	25°28	25°17	8°41	17°57	27°41	2°43	13°52	12°43	7°48	23°52	23°24	20°20	n.a.	S 8
S 9	14 52 46	13°56'34	8♐15	27° 5	9°54	18° 3	27°48	2°51	13°53	12°42	7°48	23°40	23°21	20°27	n.a.	S 9
M10	14 56 42	14°53'48	21°14	28°55	11° 8	18°10	27°55	2°59	13°53	12°40	7°48	23°30	23°17	20°33	n.a.	M10
T 11	15 0 39	15°51'01	4♑25	0♉47	12°21	18°17	28° 3	3° 7	13°54	12°39	7°48	23°23	23°14	20°40	n.a.	T 11
W12	15 4 36	16°48'13	17°48	2°42	13°35	18°25	28°10	3°14	13°55	12°38	7°R48	23°18	23°11	20°47	n.a.	W12
T 13	15 8 32	17°45'25	1♒22	4°39	14°49	18°34	28°18	3°22	13°55	12°36	7°48	23°16	23° 8	20°53	n.a.	T 13
F 14	15 12 29	18°42'37	15° 9	6°38	16° 2	18°44	28°26	3°30	13°55	12°35	7°48	23°15	23° 5	21° 0	n.a.	F 14
S 15	15 16 25	19°39'48	29° 9	8°39	17°16	18°54	28°33	3°38	13°56	12°34	7°48	23°15	23° 1	21° 7	n.a.	S 15
S 16	15 20 22	20°36'59	13♓22	10°43	18°29	19° 5	28°42	3°45	13°56	12°33	7°48	23°14	22°58	21°13	n.a.	S 16
M17	15 24 18	21°34'10	27°47	12°48	19°43	19°16	28°50	3°53	13°57	12°32	7°48	23°11	22°55	21°20	n.a.	M17
T 18	15 28 15	22°31'21	12♈21	14°54	20°57	19°28	28°58	4° 0	13°57	12°30	7°48	23° 6	22°52	21°27	n.a.	T 18
W19	15 32 11	23°28'31	26°58	17° 2	22°10	19°41	29° 6	4° 8	13°57	12°29	7°47	22°58	22°49	21°33	n.a.	W19
T 20	15 36 8	24°25'41	11♉32	19°12	23°24	19°54	29°15	4°16	13°57	12°28	7°47	22°48	22°46	21°40	n.a.	T 20
F 21	15 40 5	25°22'51	25°57	21°22	24°38	20° 8	29°23	4°23	13°57	12°27	7°47	22°37	22°42	21°47	n.a.	F 21
S 22	15 44 1	26°20'00	10♊ 4	23°33	25°51	20°23	29°32	4°31	13°57	12°26	7°47	22°25	22°39	21°53	n.a.	S 22
S 23	15 47 58	27°17'09	23°50	25°44	27° 5	20°38	29°41	4°38	13°R57	12°25	7°47	22°15	22°36	22° 0	n.a.	S 23
M24	15 51 54	28°14'18	7♋12	27°55	28°19	20°54	29°50	4°46	13°57	12°24	7°46	22° 7	22°33	22° 7	n.a.	M24
T 25	15 55 51	29°11'26	20° 9	0♊ 6	29°32	21°10	29°59	4°53	13°57	12°23	7°46	22° 1	22°30	22°13	n.a.	T 25
W26	15 59 47	0♊ 8'34	2♌44	2°17	0♊46	21°27	0♌ 8	5° 0	13°57	12°22	7°46	21°58	22°27	22°20	n.a.	W26
T 27	16 3 44	1° 5'41	15° 0	4°27	2° 0	21°44	0°17	5° 8	13°57	12°21	7°45	21°57	22°23	22°27	n.a.	T 27
F 28	16 7 40	2° 2'48	27° 2	6°36	3°14	22° 2	0°27	5°15	13°57	12°20	7°45	21°57	22°20	22°33	n.a.	F 28
S 29	16 11 37	2°59'55	8♍54	8°44	4°27	22°20	0°36	5°23	13°56	12°19	7°45	21°57	22°17	22°40	n.a.	S 29
S 30	16 15 34	3°57'01	20°43	10°50	5°41	22°39	0°46	5°30	13°56	12°18	7°44	21°56	22°14	22°47	n.a.	S 30
M31	16 19 30	4♊54'06	2♎34	12♊55	6♊55	22♍59	0♌55	5♉37	13♒56	12♎17	7♒44	21♌53	22♌11	22♍53	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13n47	11n49	0n32	3n 3	2s43	10n51	0s50	6n 0	1n 9	22n 4	1n 4	10n19	2s 3	17s34	0s43	3s17	2n 2	30s30	12s26	13n24	13n45	6n14		n.a.
S 2	14 6	8 21	1 33	3 44	2 37	11 19	0 48	5 57	1 6	22 2	1 4	10 21	2 3	17 34	0 43	3 16	2 2	30 30	12 26	13 25	13 46	6 12		n.a.
M 3	14 24	4 33	2 30	4 26	2 30	11 47	0 46	5 54	1 3	22 1	1 4	10 24	2 3	17 33	0 43	3 16	2 2	30 31	12 27	13 26	13 47	6 11		n.a.
T 4	14 43	0 33	3 21	5 8	2 23	12 14	0 44	5 51	1 0	22 0	1 4	10 27	2 3	17 33	0 43	3 15	2 2	30 31	12 27	13 28	13 48	6 9		n.a.
W 5	15 1	3s30	4 4	5 53	2 16	12 41	0 42	5 47	0 58	21 58	1 3	10 30	2 3	17 33	0 43	3 15	2 1	30 31	12 27	13 31	13 49	6 7		n.a.
T 6	15 19	7 28	4 36	6 38	2 8	13 8	0 39	5 43	0 55	21 57	1 3	10 32	2 3	17 33	0 43	3 14	2 1	30 31	12 28	13 35	13 50	6 5		n.a.
F 7	15 37	11 12	4 55	7 24	1 59	13 34	0 37	5 39	0 52	21 55	1 3	10 35	2 3	17 33	0 43	3 14	2 1	30 32	12 28	13 39	13 52	6 3		n.a.
S 8	15 55	14 29	5 1	8 11	1 50	14 0	0 35	5 35	0 50	21 54	1 3	10 38	2 3	17 32	0 43	3 13	2 1	30 32	12 28	13 43	13 53	6 1		n.a.
S 9	16 12	17 8	4 51	8 59	1 41	14 26	0 33	5 30	0 47	21 52	1 3	10 40	2 3	17 32	0 43	3 13	2 1	30 32	12 29	13 47	13 54	5 59		n.a.
M10	16 29	18 59	4 27	9 48	1 31	14 51	0 31	5 25	0 44	21 51	1 3	10 43	2 3	17 32	0 43	3 12	2 1	30 33	12 29	13 50	13 55	5 57		n.a.
T 11	16 46	19 51	3 48	10 37	1 21	15 16	0 29	5 20	0 42	21 49	1 3	10 46	2 3	17 32	0 43	3 12	2 1	30 33	12 29	13 53	13 56	5 55		n.a.
W12	17 3	19 37	2 56	11 26	1 11	15 41	0 26	5 14	0 39	21 47	1 3	10 48	2 3	17 32	0 43	3 11	2 1	30 33	12 30	13 55	13 57	5 53		n.a.
T 13	17 19	18 15	1 53	12 16	1 0	16 5	0 24	5 8	0 37	21 46	1 3	10 51	2 3	17 32	0 43	3 11	2 1	30 34	12 30	13 55	13 58	5 51		n.a.
F 14	17 35	15 48	0 43	13 6	0 50	16 29	0 22	5 2	0 35	21 44	1 3	10 54	2 3	17 32	0 43	3 10	2 1	30 34	12 30	13 55	13 59	5 49		n.a.
S 15	17 51	12 23	0s31	13 56	0 39	16 52	0 19	4 56	0 32	21 42	1 2	10 56	2 3	17 32	0 43	3 10	2 1	30 34	12 31	13 55	14 0	5 47		n.a.
S 16	18 7	8 13	1 44	14 46	0 28	17 15	0 17	4 50	0 30	21 41	1 2	10 59	2 3	17 31	0 43	3 9	2 1	30 35	12 31	13 56	14 1	5 45		n.a.
M17	18 22	3 31	2 52	15 36	0 17	17 38	0 15	4 43	0 27	21 39	1 2	11 1	2 3	17 31	0 43	3 9	2 1	30 35	12 31	13 57	14 2	5 43		n.a.
T 18	18 37	1n26	3 49	16 24	0 6	18 0	0 12	4 36	0 25	21 37	1 2	11 4	2 3	17 31	0 43	3 9	2 1	30 35	12 32	13 58	14 3	5 42		n.a.
W19	18 51	6 18	4 31	17 12	0n 5	18 22	0 10	4 29	0 23	21 35	1 2	11 6	2 3	17 31	0 43	3 8	2 1	30 36	12 32	14 1	14 4	5 40		n.a.
T 20	19 6	10 48	4 55	17 59	0 16	18 43	0 8	4 21	0 21	21 33	1 2	11 9	2 3	17 31	0 43	3 8	2 1	30 36	12 32	14 4	14 5	5 38		n.a.
F 21	19 20	14 36	5 0	18 44	0 26	19 3	0 5	4 14	0 18	21 31	1 2	11 12	2 4	17 31	0 43	3 7	2 1	30 36	12 33	14 8	14 6	5 36		n.a.
S 22	19 33	17 29	4 47	19 27	0 36	19 24	0 3	4 6	0 16	21 29	1 2	11 14	2 4	17 31	0 44	3 7	2 1	30 37	12 33	14 12	14 7	5 34		n.a.
S 23	19 47	19 18	4 17	20 9	0 46	19 43	0 1	3 58	0 14	21 27	1 2	11 17	2 4	17 31	0 44	3 7	2 1	30 37	12 33	14 15	14 8	5 32		n.a.
M24	20 0	19 58	3 33	20 49	0 55	20 2	0n 2	3 50	0 12	21 25	1 2	11 19	2 4	17 31	0 44	3 6	2 1	30 38	12 34	14 18	14 9	5 30		n.a.
T 25	20 12	19 33	2 40	21 27	1 4	20 21	0 4	3 41	0 10	21 23	1 2	11 22	2 4	17 32	0 44	3 6	2 1	30 38	12 34	14 20	14 10	5 28		n.a.
W26	20 25	18 9	1 40	22 2	1 12	20 39	0 6	3 33	0 8	21 21	1 2	11 24	2 4	17 32	0 44	3 6	2 1	30 38	12 34	14 21	14 11	5 26		n.a.
T 27	20 37	15 56	0 37	22 34	1 19	20 57	0 9	3 24	0 6	21 19	1 2	11 26	2 4	17 32	0 44	3 5	2 1	30 39	12 35	14 21	14 13	5 24		n.a.
F 28	20 49	13 4	0n27	23 4	1 26	21 14	0 11	3 15	0 4	21 17	1 1	11 29	2 4	17 32	0 44	3 5	2 1	30 39	12 35	14 21	14 14	5 22		n.a.
S 29	21 0	9 42	1 29	23 32	1 32	21 30	0 14	3 6	0 2	21 15	1 1	11 31	2 4	17 32	0 44	3 5	2 0	30 40	12 35	14 21	14 15	5 20		n.a.
S 30	21 11	5 57	2 26	23 56	1 38	21 46	0 16	2 56	0s 0	21 13	1 1	11 34	2 4	17 32	0 44	3 4	2 0	30 40	12 36	14 22	14 16	5 18		n.a.
M31	21n22	1n59	3n18	24n18	1n43	22n 1	0n18	2n47	0s 2	21n11	1n 1	11n36	2s 4	17s32	0s44	3s 4	2n 0	30s41	12s36	14n23	14n17	5n16		n.a.

Julian Day Number = 1655798.5, Delta T = 03h28m28s
Ecliptic obliquity = 23°42'54, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'55, Lahiri = - 6°25'54 Julian Calendar 1 May 180 BCE == Greg. Calendar 28 Apr. 180 BCE

The year -179 astronomical counting style corresponds to year 180 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 180 BCE
geocentric

JUNE 180 BCE (-179) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 23 27	5♊51'12	14♎31	14♊59	8♊ 8	23♍19	1♌ 5	5♉44	13°R55	12°R17	7°R43	21°R47	22♌ 7	23♍ 0	n.a.	T 1
W 2	16 27 23	6°48'17	26°39	17° 1	9°22	23°39	1°15	5°51	13♒55	12♎16	7♒43	21♌40	22° 4	23° 7	n.a.	W 2
T 3	16 31 20	7°45'22	9♏ 0	19° 1	10°36	24° 0	1°25	5°58	13°54	12°15	7°42	21°30	22° 1	23°13	n.a.	T 3
F 4	16 35 16	8°42'27	21°36	20°59	11°49	24°22	1°35	6° 6	13°54	12°14	7°42	21°18	21°58	23°20	n.a.	F 4
S 5	16 39 13	9°39'33	4♐28	22°56	13° 3	24°43	1°45	6°13	13°53	12°14	7°41	21° 6	21°55	23°27	n.a.	S 5
S 6	16 43 10	10°36'38	17°35	24°50	14°17	25° 6	1°55	6°20	13°52	12°13	7°41	20°55	21°52	23°33	n.a.	S 6
M 7	16 47 6	11°33'44	0♑56	26°43	15°31	25°28	2° 5	6°27	13°52	12°12	7°40	20°46	21°48	23°40	n.a.	M 7
T 8	16 51 3	12°30'50	14°29	28°33	16°44	25°52	2°16	6°33	13°51	12°12	7°39	20°39	21°45	23°47	n.a.	T 8
W 9	16 54 59	13°27'56	28°11	0♋22	17°58	26°15	2°26	6°40	13°50	12°11	7°39	20°34	21°42	23°53	n.a.	W 9
T 10	16 58 56	14°25'03	12♒ 2	2° 9	19°12	26°39	2°37	6°47	13°49	12°10	7°38	20°33	21°39	24° 0	n.a.	T 10
F 11	17 2 52	15°22'10	26° 0	3°54	20°26	27° 3	2°47	6°54	13°49	12°10	7°37	20°D32	21°36	24° 7	n.a.	F 11
S 12	17 6 49	16°19'18	10♓ 3	5°36	21°40	27°28	2°58	7° 1	13°48	12° 9	7°37	20°R33	21°33	24°13	n.a.	S 12
S 13	17 10 45	17°16'27	24°11	7°17	22°53	27°53	3° 8	7° 7	13°47	12° 9	7°36	20°33	21°29	24°20	n.a.	S 13
M14	17 14 42	18°13'36	8♈24	8°56	24° 7	28°19	3°19	7°14	13°46	12° 9	7°35	20°31	21°26	24°27	n.a.	M14
T 15	17 18 39	19°10'46	22°38	10°33	25°21	28°45	3°30	7°21	13°45	12° 8	7°35	20°27	21°23	24°33	n.a.	T 15
W16	17 22 35	20° 7'57	6♉51	12° 8	26°35	29°11	3°41	7°27	13°44	12° 8	7°34	20°21	21°20	24°40	n.a.	W16
T 17	17 26 32	21° 5'08	21° 0	13°41	27°49	29°38	3°52	7°34	13°42	12° 7	7°33	20°13	21°17	24°47	n.a.	T 17
F 18	17 30 28	22° 2'21	4♊59	15°12	29° 3	0♎ 5	4° 3	7°40	13°41	12° 7	7°32	20° 4	21°13	24°53	n.a.	F 18
S 19	17 34 25	22°59'34	18°44	16°41	0♋16	0°32	4°14	7°46	13°40	12° 7	7°31	19°55	21°10	25° 0	n.a.	S 19
S 20	17 38 21	23°56'47	2♋13	18° 8	1°30	1° 0	4°26	7°53	13°39	12° 7	7°30	19°46	21° 7	25° 7	n.a.	S 20
M21	17 42 18	24°54'02	15°22	19°33	2°44	1°28	4°37	7°59	13°37	12° 6	7°30	19°40	21° 4	25°13	n.a.	M21
T 22	17 46 14	25°51'16	28°11	20°56	3°58	1°56	4°48	8° 5	13°36	12° 6	7°29	19°35	21° 1	25°20	n.a.	T 22
W23	17 50 11	26°48'32	10♌41	22°16	5°12	2°25	5° 0	8°11	13°35	12° 6	7°28	19°33	20°58	25°27	n.a.	W23
T 24	17 54 8	27°45'48	22°55	23°35	6°26	2°54	5°11	8°17	13°33	12° 6	7°27	19°D33	20°54	25°33	n.a.	T 24
F 25	17 58 4	28°43'04	4♍56	24°51	7°40	3°23	5°23	8°23	13°32	12° 6	7°26	19°34	20°51	25°40	n.a.	F 25
S 26	18 2 1	29°40'21	16°49	26° 5	8°54	3°53	5°35	8°29	13°30	12° 6	7°25	19°35	20°48	25°47	n.a.	S 26
S 27	18 5 57	0♋37'38	28°39	27°17	10° 8	4°23	5°46	8°35	13°29	12° 6	7°24	19°R36	20°45	25°53	n.a.	S 27
M28	18 9 54	1°34'56	10♎31	28°27	11°21	4°53	5°58	8°41	13°27	12°D 6	7°23	19°35	20°42	26° 0	n.a.	M28
T 29	18 13 50	2°32'15	22°30	29°33	12°35	5°23	6°10	8°47	13°26	12° 6	7°22	19°33	20°38	26° 7	n.a.	T 29
W30	18 17 47	3♋29'35	4♏41	0♌38	13♋49	5♎54	6♌22	8♉52	13♒24	12♎ 6	7♒21	19♌29	20♌35	26♍13	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n32	2s 5	4n 1	24n38	1n47	22n15	0n21	2n37	0s 4	21n 8	1n 1	11n38	2s 4	17s32	0s44	3s 4	2n 0	30s41	12s36	14n24	14n18	5n14		n.a.
W 2	21 42	6 8	4 34	24 54	1 50	22 29	0 23	2 27	0 6	21 6	1 1	11 41	2 4	17 33	0 44	3 3	2 0	30 41	12 37	14 27	14 19	5 12		n.a.
T 3	21 51	10 0	4 55	25 8	1 53	22 42	0 25	2 17	0 8	21 4	1 1	11 43	2 4	17 33	0 44	3 3	2 0	30 42	12 37	14 30	14 20	5 10		n.a.
F 4	22 0	13 31	5 2	25 19	1 55	22 55	0 27	2 7	0 10	21 2	1 1	11 45	2 4	17 33	0 44	3 3	2 0	30 42	12 37	14 34	14 21	5 8		n.a.
S 5	22 9	16 28	4 54	25 27	1 56	23 7	0 30	1 57	0 11	20 59	1 1	11 47	2 4	17 33	0 44	3 3	2 0	30 43	12 38	14 38	14 22	5 6		n.a.
S 6	22 18	18 39	4 30	25 33	1 57	23 18	0 32	1 46	0 13	20 57	1 1	11 50	2 4	17 33	0 44	3 3	2 0	30 43	12 38	14 41	14 23	5 4		n.a.
M 7	22 26	19 51	3 52	25 37	1 57	23 29	0 34	1 35	0 15	20 55	1 1	11 52	2 4	17 34	0 44	3 2	2 0	30 44	12 38	14 44	14 24	5 2		n.a.
T 8	22 33	19 57	2 59	25 38	1 56	23 39	0 36	1 25	0 17	20 52	1 1	11 54	2 4	17 34	0 44	3 2	2 0	30 44	12 39	14 47	14 25	5 0		n.a.
W 9	22 41	18 52	1 56	25 38	1 55	23 48	0 38	1 14	0 18	20 50	1 1	11 56	2 5	17 34	0 44	3 2	2 0	30 45	12 39	14 48	14 26	4 58		n.a.
T 10	22 48	16 39	0 45	25 35	1 53	23 57	0 41	1 2	0 20	20 47	1 1	11 59	2 5	17 34	0 44	3 2	2 0	30 45	12 39	14 48	14 27	4 56		n.a.
F 11	22 54	13 27	0s29	25 30	1 50	24 4	0 43	0 51	0 22	20 45	1 1	12 1	2 5	17 35	0 44	3 2	2 0	30 46	12 40	14 49	14 28	4 54		n.a.
S 12	23 0	9 28	1 42	25 23	1 47	24 12	0 45	0 40	0 23	20 42	1 1	12 3	2 5	17 35	0 44	3 2	2 0	30 46	12 40	14 48	14 29	4 52		n.a.
S 13	23 6	4 55	2 49	25 14	1 44	24 18	0 47	0 28	0 25	20 40	1 0	12 5	2 5	17 35	0 44	3 1	2 0	30 47	12 40	14 48	14 30	4 50		n.a.
M14	23 11	0 6	3 47	25 4	1 39	24 24	0 49	0 17	0 26	20 37	1 0	12 7	2 5	17 36	0 44	3 1	2 0	30 47	12 40	14 49	14 31	4 48		n.a.
T 15	23 16	4n44	4 30	24 52	1 35	24 29	0 51	0 5	0 28	20 34	1 0	12 9	2 5	17 36	0 44	3 1	2 0	30 47	12 41	14 50	14 32	4 46		n.a.
W16	23 21	9 18	4 56	24 38	1 29	24 33	0 53	0s 7	0 30	20 32	1 0	12 11	2 5	17 36	0 44	3 1	1 59	30 48	12 41	14 52	14 33	4 44		n.a.
T 17	23 25	13 19	5 5	24 23	1 24	24 36	0 55	0 19	0 31	20 29	1 0	12 13	2 5	17 37	0 44	3 1	1 59	30 48	12 41	14 55	14 34	4 42		n.a.
F 18	23 28	16 33	4 55	24 7	1 18	24 39	0 56	0 32	0 32	20 26	1 0	12 15	2 5	17 37	0 45	3 1	1 59	30 49	12 41	14 58	14 35	4 40		n.a.
S 19	23 32	18 47	4 27	23 50	1 11	24 41	0 58	0 44	0 34	20 24	1 0	12 17	2 5	17 37	0 45	3 1	1 59	30 49	12 42	15 1	14 36	4 38		n.a.
S 20	23 34	19 56	3 46	23 31	1 4	24 42	1 0	0 56	0 35	20 21	1 0	12 19	2 6	17 38	0 45	3 1	1 59	30 50	12 42	15 3	14 37	4 36		n.a.
M21	23 37	19 57	2 53	23 12	0 56	24 43	1 2	1 9	0 37	20 18	1 0	12 21	2 6	17 38	0 45	3 1	1 59	30 50	12 42	15 5	14 38	4 34		n.a.
T 22	23 39	18 56	1 52	22 52	0 48	24 43	1 3	1 22	0 38	20 15	1 0	12 23	2 6	17 39	0 45	3 1	1 59	30 51	12 43	15 7	14 39	4 32		n.a.
W23	23 41	17 0	0 48	22 30	0 40	24 42	1 5	1 34	0 40	20 12	1 0	12 25	2 6	17 39	0 45	3 1	1 59	30 51	12 43	15 7	14 40	4 30		n.a.
T 24	23 42	14 19	0n18	22 9	0 31	24 40	1 7	1 47	0 41	20 10	1 0	12 27	2 6	17 40	0 45	3 1	1 59	30 52	12 43	15 8	14 41	4 28		n.a.
F 25	23 43	11 5	1 22	21 46	0 22	24 38	1 8	2 0	0 42	20 7	1 0	12 28	2 6	17 40	0 45	3 1	1 59	30 52	12 43	15 7	14 43	4 26		n.a.
S 26	23 43	7 26	2 22	21 23	0 13	24 34	1 10	2 13	0 44	20 4	1 0	12 30	2 6	17 40	0 45	3 1	1 59	30 53	12 44	15 7	14 44	4 24		n.a.
S 27	23 43	3 31	3 15	20 59	0 3	24 30	1 11	2 27	0 45	20 1	1 0	12 32	2 6	17 41	0 45	3 1	1 59	30 53	12 44	15 7	14 45	4 22		n.a.
M28	23 42	0s32	4 0	20 36	0s 7	24 26	1 13	2 40	0 46	19 58	1 0	12 34	2 7	17 41	0 45	3 1	1 59	30 54	12 44	15 7	14 46	4 20		n.a.
T 29	23 41	4 36	4 35	20 12	0 18	24 20	1 14	2 53	0 47	19 55	1 0	12 35	2 7	17 42	0 45	3 1	1 59	30 54	12 44	15 8	14 47	4 18		n.a.
W30	23n40	8s33	4n59	19n47	0s28	24n14	1n15	3s 7	0s49	19n52	1n 0	12n37	2s 7	17s42	0s45	3s 1	1n59	30s55	12s44	15n 9	14n48	4n16		n.a.

Julian Day Number = 1655829.5, Delta T = 03h28m27s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'50, Lahiri = - 6°25'50 Julian Calendar 1 June 180 BCE == Greg. Calendar 29 May 180 BCE

The year -179 astronomical counting style corresponds to year 180 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 180 BCE
geocentric

JULY 180 BCE (-179) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 21 43	4♋26'55	17♏ 7	1♌39	15♋ 3	6♎25	6♌34	8♉58	13°R22	12♎ 6	7°R20	19°R23	20♌32	26♍20	n.a.	T 1
F 2	18 25 40	5°24'16	29°52	2°38	16°17	6°57	6°45	9° 3	13♒21	12° 6	7♒19	19♌16	20°29	26°27	n.a.	F 2
S 3	18 29 37	6°21'38	12♐57	3°34	17°31	7°28	6°57	9° 9	13°19	12° 6	7°18	19° 9	20°26	26°33	n.a.	S 3
S 4	18 33 33	7°19'00	26°21	4°27	18°45	8° 0	7°10	9°14	13°17	12° 6	7°17	19° 2	20°23	26°40	n.a.	S 4
M 5	18 37 30	8°16'24	10♑ 3	5°17	19°59	8°32	7°22	9°20	13°15	12° 7	7°16	18°57	20°19	26°47	n.a.	M 5
T 6	18 41 26	9°13'49	24° 0	6° 3	21°13	9° 5	7°34	9°25	13°13	12° 7	7°15	18°53	20°16	26°53	n.a.	T 6
W 7	18 45 23	10°11'16	8♒ 8	6°46	22°27	9°37	7°46	9°30	13°11	12° 7	7°14	18°51	20°13	27° 0	n.a.	W 7
T 8	18 49 19	11° 8'43	22°23	7°26	23°41	10°10	7°58	9°35	13°10	12° 7	7°13	18°D50	20°10	27° 7	n.a.	T 8
F 9	18 53 16	12° 6'12	6♓41	8° 1	24°55	10°43	8°10	9°40	13° 8	12° 8	7°11	18°51	20° 7	27°13	n.a.	F 9
S 10	18 57 13	13° 3'42	20°58	8°32	26° 9	11°17	8°23	9°45	13° 6	12° 8	7°10	18°52	20° 4	27°20	n.a.	S 10
S 11	19 1 9	14° 1'14	5♈13	8°59	27°23	11°50	8°35	9°50	13° 4	12° 9	7° 9	18°54	20° 0	27°27	n.a.	S 11
M12	19 5 6	14°58'47	19°23	9°22	28°37	12°24	8°47	9°55	13° 2	12° 9	7° 8	18°R54	19°57	27°33	n.a.	M12
T 13	19 9 2	15°56'22	3♉26	9°40	29°51	12°58	9° 0	9°59	13° 0	12° 9	7° 7	18°53	19°54	27°40	n.a.	T 13
W14	19 12 59	16°53'59	17°21	9°53	1♌ 5	13°33	9°12	10° 4	12°58	12°10	7° 6	18°50	19°51	27°47	n.a.	W14
T 15	19 16 55	17°51'37	1♊ 6	10° 1	2°19	14° 7	9°25	10° 9	12°56	12°11	7° 4	18°46	19°48	27°53	n.a.	T 15
F 16	19 20 52	18°49'17	14°39	10°R 4	3°33	14°42	9°37	10°13	12°53	12°11	7° 3	18°42	19°44	28° 0	n.a.	F 16
S 17	19 24 48	19°46'59	27°58	10° 1	4°47	15°17	9°50	10°17	12°51	12°12	7° 2	18°37	19°41	28° 7	n.a.	S 17
S 18	19 28 45	20°44'42	11♋ 4	9°53	6° 1	15°52	10° 3	10°22	12°49	12°12	7° 1	18°33	19°38	28°13	n.a.	S 18
M19	19 32 42	21°42'27	23°54	9°39	7°15	16°28	10°15	10°26	12°47	12°13	7° 0	18°30	19°35	28°20	n.a.	M19
T 20	19 36 38	22°40'13	6♌29	9°19	8°29	17° 3	10°28	10°30	12°45	12°14	6°58	18°28	19°32	28°27	n.a.	T 20
W21	19 40 35	23°38'01	18°49	8°54	9°43	17°39	10°41	10°34	12°42	12°14	6°57	18°D28	19°29	28°33	n.a.	W21
T 22	19 44 31	24°35'49	0♍57	8°23	10°57	18°15	10°53	10°38	12°40	12°15	6°56	18°28	19°25	28°40	n.a.	T 22
F 23	19 48 28	25°33'40	12°56	7°47	12°11	18°51	11° 6	10°42	12°38	12°16	6°55	18°29	19°22	28°47	n.a.	F 23
S 24	19 52 24	26°31'31	24°48	7° 6	13°25	19°28	11°19	10°45	12°36	12°17	6°53	18°31	19°19	28°54	n.a.	S 24
S 25	19 56 21	27°29'24	6♎37	6°20	14°39	20° 4	11°32	10°49	12°33	12°18	6°52	18°33	19°16	29° 0	n.a.	S 25
M26	20 0 17	28°27'19	18°29	5°31	15°53	20°41	11°45	10°53	12°31	12°19	6°51	18°34	19°13	29° 7	n.a.	M26
T 27	20 4 14	29°25'15	0♏27	4°39	17° 7	21°18	11°57	10°56	12°29	12°20	6°50	18°R34	19°10	29°14	n.a.	T 27
W28	20 8 10	0♌23'12	12°38	3°45	18°21	21°55	12°10	11° 0	12°26	12°21	6°48	18°33	19° 6	29°20	n.a.	W28
T 29	20 12 7	1°21'11	25° 4	2°49	19°35	22°33	12°23	11° 3	12°24	12°21	6°47	18°32	19° 3	29°27	n.a.	T 29
F 30	20 16 4	2°19'11	7♐50	1°54	20°49	23°10	12°36	11° 6	12°22	12°22	6°46	18°30	19° 0	29°34	n.a.	F 30
S 31	20 20 0	3♌17'13	20♐59	1♌ 0	22♌ 3	23♎48	12♌49	11♉ 9	12♒19	12♎24	6♒45	18♌28	18♌57	29♍40	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23n38	12s12	5n 9	19n23	0s39	24n 7	1n17	3s20	0s50	19n49	1n 0	12n39	2s 7	17s43	0s45	3s 1	1n58	30s55	12s45	15n11	14n49	4n14		n.a.
F 2	23 36	15 25	5 4	18 59	0 50	24 0	1 18	3 34	0 51	19 46	1 0	12 40	2 7	17 43	0 45	3 1	1 58	30 56	12 45	15 13	14 50	4 12		n.a.
S 3	23 34	17 56	4 43	18 35	1 2	23 51	1 19	3 48	0 52	19 43	1 0	12 42	2 7	17 44	0 45	3 1	1 58	30 56	12 45	15 15	14 51	4 10		n.a.
S 4	23 31	19 34	4 6	18 11	1 13	23 42	1 20	4 1	0 53	19 39	1 0	12 44	2 7	17 45	0 45	3 2	1 58	30 57	12 45	15 17	14 52	4 8		n.a.
M 5	23 27	20 5	3 15	17 47	1 25	23 33	1 21	4 15	0 54	19 36	1 0	12 45	2 7	17 45	0 45	3 2	1 58	30 57	12 45	15 19	14 53	4 6		n.a.
T 6	23 23	19 24	2 11	17 24	1 37	23 22	1 22	4 29	0 56	19 33	1 0	12 47	2 8	17 46	0 45	3 2	1 58	30 58	12 46	15 20	14 54	4 4		n.a.
W 7	23 19	17 31	0 58	17 2	1 49	23 11	1 23	4 43	0 57	19 30	1 0	12 48	2 8	17 46	0 45	3 2	1 58	30 58	12 46	15 21	14 55	4 2		n.a.
T 8	23 14	14 31	0s19	16 40	2 2	22 59	1 24	4 57	0 58	19 27	1 0	12 50	2 8	17 47	0 45	3 2	1 58	30 59	12 46	15 21	14 56	4 0		n.a.
F 9	23 9	10 39	1 36	16 19	2 14	22 47	1 24	5 12	0 59	19 24	1 0	12 51	2 8	17 47	0 45	3 2	1 58	30 59	12 46	15 21	14 57	3 58		n.a.
S 10	23 4	6 10	2 46	15 59	2 26	22 33	1 25	5 26	1 0	19 20	1 0	12 53	2 8	17 48	0 45	3 3	1 58	31 0	12 46	15 20	14 58	3 56		n.a.
S 11	22 58	1 22	3 46	15 40	2 38	22 20	1 26	5 40	1 1	19 17	1 0	12 54	2 8	17 49	0 45	3 3	1 58	31 0	12 47	15 20	14 59	3 54		n.a.
M12	22 52	3n29	4 32	15 23	2 50	22 5	1 26	5 54	1 2	19 14	1 0	12 55	2 9	17 49	0 45	3 3	1 58	31 1	12 47	15 20	15 0	3 52		n.a.
T 13	22 45	8 5	5 1	15 7	3 2	21 50	1 27	6 9	1 3	19 10	1 0	12 57	2 9	17 50	0 45	3 3	1 58	31 1	12 47	15 20	15 1	3 50		n.a.
W14	22 38	12 13	5 12	14 52	3 14	21 34	1 27	6 23	1 4	19 7	1 0	12 58	2 9	17 50	0 45	3 4	1 58	31 2	12 47	15 21	15 2	3 48		n.a.
T 15	22 30	15 38	5 5	14 39	3 25	21 18	1 28	6 38	1 5	19 4	1 0	12 59	2 9	17 51	0 45	3 4	1 58	31 2	12 47	15 22	15 3	3 46		n.a.
F 16	22 23	18 10	4 41	14 28	3 36	21 1	1 28	6 52	1 6	19 0	1 0	13 1	2 9	17 52	0 45	3 4	1 58	31 3	12 47	15 24	15 4	3 44		n.a.
S 17	22 14	19 40	4 2	14 19	3 46	20 43	1 28	7 7	1 7	18 57	1 0	13 2	2 9	17 52	0 45	3 4	1 57	31 3	12 48	15 25	15 5	3 41		n.a.
S 18	22 6	20 5	3 11	14 11	3 56	20 25	1 29	7 21	1 8	18 53	1 0	13 3	2 9	17 53	0 45	3 5	1 57	31 4	12 48	15 26	15 6	3 39		n.a.
M19	21 57	19 26	2 11	14 7	4 5	20 6	1 29	7 36	1 9	18 50	1 0	13 4	2 10	17 54	0 45	3 5	1 57	31 4	12 48	15 27	15 7	3 37		n.a.
T 20	21 47	17 49	1 5	14 4	4 13	19 47	1 29	7 50	1 9	18 46	1 0	13 5	2 10	17 54	0 45	3 5	1 57	31 4	12 48	15 28	15 8	3 35		n.a.
W21	21 37	15 23	0n 2	14 4	4 20	19 27	1 29	8 5	1 10	18 43	1 0	13 6	2 10	17 55	0 45	3 6	1 57	31 5	12 48	15 28	15 9	3 33		n.a.
T 22	21 27	12 19	1 8	14 6	4 25	19 6	1 29	8 20	1 11	18 39	1 0	13 7	2 10	17 55	0 45	3 6	1 57	31 5	12 48	15 28	15 10	3 31		n.a.
F 23	21 16	8 47	2 11	14 12	4 30	18 45	1 28	8 35	1 12	18 36	1 0	13 8	2 10	17 56	0 45	3 7	1 57	31 6	12 48	15 28	15 11	3 29		n.a.
S 24	21 5	4 57	3 7	14 19	4 32	18 24	1 28	8 49	1 13	18 32	1 0	13 9	2 11	17 57	0 45	3 7	1 57	31 6	12 48	15 27	15 12	3 27		n.a.
S 25	20 54	0 56	3 55	14 29	4 34	18 2	1 28	9 4	1 14	18 29	1 0	13 10	2 11	17 57	0 45	3 7	1 57	31 7	12 48	15 27	15 13	3 25		n.a.
M26	20 42	3s 7	4 34	14 42	4 33	17 39	1 28	9 19	1 14	18 25	1 0	13 11	2 11	17 58	0 45	3 8	1 57	31 7	12 49	15 26	15 14	3 23		n.a.
T 27	20 30	7 4	5 0	14 57	4 31	17 16	1 27	9 34	1 15	18 22	1 0	13 12	2 11	17 59	0 45	3 8	1 57	31 8	12 49	15 26	15 15	3 21		n.a.
W28	20 18	10 49	5 14	15 14	4 26	16 53	1 27	9 48	1 16	18 18	1 0	13 13	2 11	18 0	0 45	3 9	1 57	31 8	12 49	15 26	15 16	3 19		n.a.
T 29	20 5	14 10	5 14	15 32	4 20	16 29	1 26	10 3	1 17	18 14	1 0	13 14	2 11	18 0	0 45	3 9	1 57	31 8	12 49	15 27	15 17	3 17		n.a.
F 30	19 52	16 58	4 58	15 53	4 11	16 4	1 26	10 18	1 17	18 11	1 0	13 15	2 12	18 1	0 45	3 9	1 57	31 9	12 49	15 27	15 18	3 15		n.a.
S 31	19n39	18s58	4n27	16n14	4s 1	15n39	1n25	10s33	1s18	18n 7	1n 0	13n16	2s12	18s 2	0s45	3s10	1n57	31s 9	12s49	15n28	15n19	3n13		n.a.

Julian Day Number = 1655859.5, Delta T = 03h28m27s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'46, Lahiri = - 6°25'46 Julian Calendar 1 July 180 BCE == Greg. Calendar 28 June 180 BCE

The year -179 astronomical counting style corresponds to year 180 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 180 BCE
geocentric

AUGUST 180 BCE (-179) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 23 57	4♌15'16	4♉32	0°R 8	23♌17	24♎26	13♌ 2	11♉12	12°R17	12♎25	6°R43	18°R26	18♌54	29♍47	n.a.	S 1
M 2	20 27 53	5°13'21	18°28	29♋20	24°31	25° 4	13°15	11°15	12♒15	12°26	6♒42	18♌25	18°50	29°54	n.a.	M 2
T 3	20 31 50	6°11'28	2♒44	28°36	25°45	25°42	13°28	11°18	12°12	12°27	6°41	18°24	18°47	0♎ 0	n.a.	T 3
W 4	20 35 46	7° 9'37	17°15	27°58	26°59	26°20	13°41	11°20	12°10	12°28	6°39	18°D23	18°44	0° 7	n.a.	W 4
T 5	20 39 43	8° 7'47	1♓56	27°27	28°13	26°59	13°54	11°23	12° 8	12°29	6°38	18°24	18°41	0°14	n.a.	T 5
F 6	20 43 39	9° 5'59	16°40	27° 3	29°27	27°37	14° 7	11°26	12° 5	12°30	6°37	18°24	18°38	0°20	n.a.	F 6
S 7	20 47 36	10° 4'14	1♈21	26°48	0♍41	28°16	14°20	11°28	12° 3	12°32	6°36	18°25	18°35	0°27	n.a.	S 7
S 8	20 51 33	11° 2'30	15°53	26°D40	1°55	28°55	14°33	11°30	12° 0	12°33	6°34	18°26	18°31	0°34	n.a.	S 8
M 9	20 55 29	12° 0'49	0♉11	26°42	3° 8	29°34	14°46	11°32	11°58	12°34	6°33	18°26	18°28	0°40	n.a.	M 9
T 10	20 59 26	12°59'10	14°14	26°52	4°22	0♏14	14°59	11°34	11°56	12°36	6°32	18°R26	18°25	0°47	n.a.	T 10
W11	21 3 22	13°57'33	28° 0	27°12	5°36	0°53	15°12	11°36	11°53	12°37	6°31	18°26	18°22	0°54	n.a.	W11
T 12	21 7 19	14°55'58	11♊29	27°40	6°50	1°33	15°25	11°38	11°51	12°38	6°29	18°26	18°19	1° 0	n.a.	T 12
F 13	21 11 15	15°54'26	24°41	28°17	8° 4	2°12	15°38	11°40	11°48	12°40	6°28	18°25	18°16	1° 7	n.a.	F 13
S 14	21 15 12	16°52'56	7♋39	29° 2	9°18	2°52	15°51	11°42	11°46	12°41	6°27	18°25	18°12	1°14	n.a.	S 14
S 15	21 19 8	17°51'28	20°22	29°56	10°32	3°32	16° 4	11°43	11°44	12°43	6°26	18°25	18° 9	1°20	n.a.	S 15
M16	21 23 5	18°50'03	2♌52	0♌57	11°46	4°12	16°17	11°45	11°41	12°44	6°24	18°D25	18° 6	1°27	n.a.	M16
T 17	21 27 2	19°48'39	15°11	2° 5	13° 0	4°53	16°30	11°46	11°39	12°46	6°23	18°R25	18° 3	1°34	n.a.	T 17
W18	21 30 58	20°47'18	27°20	3°19	14°14	5°33	16°43	11°47	11°36	12°47	6°22	18°25	18° 0	1°41	n.a.	W18
T 19	21 34 55	21°45'58	9♍20	4°39	15°28	6°14	16°56	11°48	11°34	12°49	6°21	18°25	17°56	1°47	n.a.	T 19
F 20	21 38 51	22°44'40	21°14	6° 4	16°42	6°54	17° 9	11°49	11°32	12°50	6°19	18°25	17°53	1°54	n.a.	F 20
S 21	21 42 48	23°43'24	3♎ 4	7°34	17°55	7°35	17°22	11°50	11°29	12°52	6°18	18°24	17°50	2° 1	n.a.	S 21
S 22	21 46 44	24°42'11	14°53	9° 8	19° 9	8°16	17°35	11°51	11°27	12°53	6°17	18°23	17°47	2° 7	n.a.	S 22
M23	21 50 41	25°40'59	26°45	10°46	20°23	8°57	17°48	11°52	11°25	12°55	6°16	18°22	17°44	2°14	n.a.	M23
T 24	21 54 37	26°39'49	8♏42	12°26	21°37	9°39	18° 1	11°52	11°22	12°57	6°15	18°21	17°41	2°21	n.a.	T 24
W25	21 58 34	27°38'40	20°50	14° 9	22°51	10°20	18°14	11°53	11°20	12°58	6°13	18°21	17°37	2°27	n.a.	W25
T 26	22 2 30	28°37'34	3♐13	15°53	24° 5	11° 1	18°27	11°53	11°18	13° 0	6°12	18°D21	17°34	2°34	n.a.	T 26
F 27	22 6 27	29°36'30	15°54	17°39	25°19	11°43	18°40	11°53	11°16	13° 2	6°11	18°21	17°31	2°41	n.a.	F 27
S 28	22 10 24	0♑35'27	28°59	19°26	26°32	12°25	18°53	11°R53	11°13	13° 4	6°10	18°22	17°28	2°47	n.a.	S 28
S 29	22 14 20	1°34'27	12♉29	21°14	27°46	13° 6	19° 6	11°53	11°11	13° 5	6° 9	18°23	17°25	2°54	n.a.	S 29
M30	22 18 17	2°33'28	26°27	23° 3	29° 0	13°48	19°19	11°53	11° 9	13° 7	6° 8	18°24	17°21	3° 1	n.a.	M30
T 31	22 22 13	3♑32'31	10♒49	24♌52	0♎14	14♏30	19♌31	11♉53	11♒ 7	13♎ 9	6♒ 7	18♌25	17♌18	3♎ 7	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	
S 1	19n25	19s59	3n40	16n37	3s49	15n14	1n24	10s48	1s19	18n 3	1n 0	13n16	2s12	18s 2	0s46	3s10	1n57	31s10	12s49	15n28	15n20	3n11			n.a.	S 1
M 2	19 11	19 49	2 38	17 0	3 36	14 48	1 23	11 3	1 20	18 0	1 0	13 17	2 12	18 3	0 46	3 11	1 56	31 10	12 49	15 29	15 21	3 8			n.a.	M 2
T 3	18 56	18 23	1 26	17 24	3 21	14 22	1 22	11 17	1 20	17 56	1 0	13 18	2 12	18 4	0 46	3 11	1 56	31 10	12 49	15 29	15 22	3 6			n.a.	T 3
W 4	18 42	15 45	0 6	17 47	3 5	13 56	1 21	11 32	1 21	17 52	1 0	13 18	2 13	18 4	0 46	3 12	1 56	31 11	12 49	15 29	15 23	3 4			n.a.	W 4
T 5	18 27	12 4	1s14	18 10	2 48	13 29	1 20	11 47	1 22	17 48	1 0	13 19	2 13	18 5	0 46	3 12	1 56	31 11	12 49	15 29	15 24	3 2			n.a.	T 5
F 6	18 11	7 38	2 31	18 32	2 30	13 2	1 19	12 1	1 22	17 45	1 0	13 20	2 13	18 6	0 46	3 13	1 56	31 12	12 49	15 29	15 25	3 0			n.a.	F 6
S 7	17 56	2 46	3 36	18 53	2 12	12 35	1 18	12 16	1 23	17 41	1 0	13 20	2 13	18 6	0 46	3 13	1 56	31 12	12 49	15 29	15 26	2 58			n.a.	S 7
S 8	17 40	2n12	4 28	19 13	1 53	12 7	1 17	12 31	1 23	17 37	1 0	13 21	2 13	18 7	0 46	3 14	1 56	31 12	12 49	15 29	15 27	2 56			n.a.	S 8
M 9	17 23	6 58	5 2	19 31	1 35	11 38	1 16	12 45	1 24	17 33	1 0	13 21	2 13	18 8	0 46	3 15	1 56	31 13	12 49	15 29	15 28	2 54			n.a.	M 9
T 10	17 7	11 15	5 17	19 47	1 16	11 10	1 14	13 0	1 25	17 29	1 0	13 22	2 14	18 8	0 46	3 15	1 56	31 13	12 49	15 29	15 29	2 52			n.a.	T 10
W11	16 50	14 51	5 13	20 1	0 58	10 41	1 13	13 15	1 25	17 26	1 0	13 22	2 14	18 9	0 46	3 16	1 56	31 13	12 49	15 29	15 30	2 50			n.a.	W11
T 12	16 33	17 36	4 52	20 12	0 41	10 12	1 11	13 29	1 26	17 22	1 1	13 22	2 14	18 10	0 46	3 16	1 56	31 14	12 49	15 29	15 31	2 48			n.a.	T 12
F 13	16 15	19 20	4 16	20 21	0 24	9 43	1 10	13 44	1 26	17 18	1 1	13 23	2 14	18 10	0 46	3 17	1 56	31 14	12 49	15 29	15 32	2 46			n.a.	F 13
S 14	15 57	20 2	3 28	20 28	0 8	9 13	1 8	13 58	1 27	17 14	1 1	13 23	2 14	18 11	0 46	3 18	1 56	31 14	12 49	15 29	15 33	2 43			n.a.	S 14
S 15	15 39	19 41	2 30	20 31	0n 8	8 44	1 6	14 12	1 27	17 10	1 1	13 23	2 15	18 12	0 46	3 18	1 56	31 15	12 49	15 29	15 34	2 41			n.a.	S 15
M16	15 21	18 22	1 25	20 32	0 22	8 14	1 5	14 27	1 28	17 6	1 1	13 24	2 15	18 12	0 46	3 19	1 56	31 15	12 49	15 29	15 35	2 39			n.a.	M16
T 17	15 3	16 11	0 18	20 30	0 35	7 43	1 3	14 41	1 28	17 2	1 1	13 24	2 15	18 13	0 46	3 19	1 56	31 15	12 49	15 29	15 36	2 37			n.a.	T 17
W18	14 44	13 19	0n49	20 24	0 47	7 13	1 1	14 55	1 29	16 58	1 1	13 24	2 15	18 14	0 46	3 20	1 56	31 16	12 49	15 29	15 37	2 35			n.a.	W18
T 19	14 25	9 55	1 54	20 16	0 58	6 42	0 59	15 9	1 29	16 54	1 1	13 24	2 15	18 14	0 46	3 21	1 56	31 16	12 49	15 29	15 38	2 33			n.a.	T 19
F 20	14 6	6 9	2 52	20 4	1 8	6 11	0 57	15 23	1 30	16 50	1 1	13 24	2 16	18 15	0 46	3 21	1 56	31 16	12 49	15 29	15 39	2 31			n.a.	F 20
S 21	13 46	2 10	3 43	19 50	1 17	5 40	0 55	15 37	1 30	16 47	1 1	13 24	2 16	18 16	0 46	3 22	1 55	31 16	12 49	15 29	15 40	2 29			n.a.	S 21
S 22	13 26	1s52	4 25	19 32	1 25	5 9	0 53	15 51	1 31	16 43	1 1	13 25	2 16	18 16	0 46	3 23	1 55	31 17	12 49	15 30	15 41	2 27			n.a.	S 22
M23	13 6	5 51	4 55	19 12	1 32	4 38	0 51	16 5	1 31	16 39	1 1	13 25	2 16	18 17	0 46	3 23	1 55	31 17	12 49	15 30	15 42	2 25			n.a.	M23
T 24	12 46	9 38	5 13	18 49	1 37	4 7	0 49	16 19	1 31	16 35	1 1	13 25	2 16	18 18	0 46	3 24	1 55	31 17	12 49	15 30	15 43	2 22			n.a.	T 24
W25	12 26	13 5	5 17	18 24	1 42	3 35	0 47	16 32	1 32	16 31	1 1	13 24	2 17	18 18	0 45	3 25	1 55	31 18	12 49	15 30	15 44	2 20			n.a.	W25
T 26	12 5	16 2	5 7	17 56	1 46	3 3	0 44	16 46	1 32	16 27	1 1	13 24	2 17	18 19	0 45	3 26	1 55	31 18	12 49	15 30	15 45	2 18			n.a.	T 26
F 27	11 44	18 18	4 41	17 26	1 49	2 32	0 42	16 59	1 33	16 23	1 2	13 24	2 17	18 20	0 45	3 26	1 55	31 18	12 49	15 30	15 46	2 16			n.a.	F 27
S 28	11 23	19 42	4 1	16 54	1 50	2 0	0 40	17 13	1 33	16 19	1 2	13 24	2 17	18 20	0 45	3 27	1 55	31 18	12 48	15 30	15 47	2 14			n.a.	S 28
S 29	11 2	20 2	3 6	16 21	1 52	1 28	0 37	17 26	1 33	16 15	1 2	13 24	2 17	18 21	0 45	3 28	1 55	31 18	12 48	15 29	15 48	2 12			n.a.	S 29
M30	10 41	19 10	1 59	15 45	1 52	0 56	0 35	17 39	1 34	16 11	1 2	13 24	2 18	18 21	0 45	3 28	1 55	31 19	12 48	15 29	15 49	2 10			n.a.	M30
T 31	10n19	17s 3	0n42	15n 8	1n52	0n24	0n32	17s52	1s34	16n 7	1n 2	13n23	2s18	18s22	0s45	3s29	1n55	31s19	12s48	15n29	15n50	2n 8			n.a.	T 31

Julian Day Number = 1655890.5, Delta T = 03h28m26s
Ecliptic obliquity = 23°42'54, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'42, Lahiri = - 6°25'42 Julian Calendar 1 Aug. 180 BCE == Greg. Calendar 29 July 180 BCE

The year -179 astronomical counting style corresponds to year 180 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 180 BCE
geocentric

SEPTEMBER 180 BCE (-179) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 26 10	4♍31'36	25♒34	26♌41	1♎27	15♏12	19♌44	11°R52	11°R 5	13♎11	6°R 5	18°R25	17♌15	3♎14	n.a.	W 1
T 2	22 30 6	5°30'43	10♓34	28°29	2°41	15°55	19°57	11♉52	11♒ 2	13°13	6♒ 4	18♌24	17°12	3°21	n.a.	T 2
F 3	22 34 3	6°29'52	25°41	0♍18	3°55	16°37	20°10	11°51	11° 0	13°15	6° 3	18°23	17° 9	3°27	n.a.	F 3
S 4	22 37 59	7°29'04	10♈46	2° 6	5° 8	17°19	20°23	11°51	10°58	13°16	6° 2	18°20	17° 6	3°34	n.a.	S 4
S 5	22 41 56	8°28'18	25°39	3°53	6°22	18° 2	20°35	11°50	10°56	13°18	6° 1	18°18	17° 2	3°41	n.a.	S 5
M 6	22 45 53	9°27'34	10♉15	5°41	7°36	18°45	20°48	11°49	10°54	13°20	6° 0	18°15	16°59	3°48	n.a.	M 6
T 7	22 49 49	10°26'53	24°27	7°27	8°49	19°27	21° 1	11°48	10°52	13°22	5°59	18°13	16°56	3°54	n.a.	T 7
W 8	22 53 46	11°26'14	8♊16	9°13	10° 3	20°10	21°13	11°47	10°50	13°24	5°58	18°D13	16°53	4° 1	n.a.	W 8
T 9	22 57 42	12°25'38	21°40	10°58	11°17	20°53	21°26	11°46	10°48	13°26	5°57	18°13	16°50	4° 8	n.a.	T 9
F 10	23 1 39	13°25'04	4♋42	12°43	12°30	21°36	21°38	11°44	10°46	13°28	5°56	18°14	16°47	4°14	n.a.	F 10
S 11	23 5 35	14°24'33	17°24	14°27	13°44	22°19	21°51	11°43	10°44	13°30	5°55	18°16	16°43	4°21	n.a.	S 11
S 12	23 9 32	15°24'04	29°52	16°10	14°57	23° 3	22° 3	11°41	10°43	13°32	5°54	18°17	16°40	4°28	n.a.	S 12
M13	23 13 28	16°23'37	12♌ 6	17°52	16°11	23°46	22°16	11°40	10°41	13°34	5°53	18°18	16°37	4°34	n.a.	M13
T 14	23 17 25	17°23'12	24°11	19°34	17°25	24°29	22°28	11°38	10°39	13°36	5°52	18°R18	16°34	4°41	n.a.	T 14
W15	23 21 22	18°22'50	6♍10	21°15	18°38	25°13	22°41	11°36	10°37	13°38	5°52	18°17	16°31	4°48	n.a.	W15
T 16	23 25 18	19°22'30	18° 3	22°55	19°52	25°56	22°53	11°34	10°36	13°41	5°51	18°14	16°27	4°54	n.a.	T 16
F 17	23 29 15	20°22'12	29°54	24°35	21° 5	26°40	23° 5	11°32	10°34	13°43	5°50	18° 9	16°24	5° 1	n.a.	F 17
S 18	23 33 11	21°21'56	11♎43	26°14	22°19	27°24	23°18	11°30	10°32	13°45	5°49	18° 4	16°21	5° 8	n.a.	S 18
S 19	23 37 8	22°21'42	23°34	27°52	23°32	28° 8	23°30	11°28	10°31	13°47	5°48	17°57	16°18	5°14	n.a.	S 19
M20	23 41 4	23°21'30	5♏27	29°30	24°46	28°52	23°42	11°25	10°29	13°49	5°47	17°50	16°15	5°21	n.a.	M20
T 21	23 45 1	24°21'19	17°27	1♐ 7	25°59	29°36	23°54	11°23	10°27	13°51	5°47	17°45	16°12	5°28	n.a.	T 21
W22	23 48 57	25°21'11	29°35	2°43	27°12	0♐20	24° 6	11°20	10°26	13°53	5°46	17°40	16° 8	5°35	n.a.	W22
T 23	23 52 54	26°21'05	11♑55	4°19	28°26	1° 4	24°18	11°17	10°25	13°55	5°45	17°37	16° 5	5°41	n.a.	T 23
F 24	23 56 50	27°21'00	24°31	5°54	29°39	1°48	24°30	11°15	10°23	13°58	5°44	17°D36	16° 2	5°48	n.a.	F 24
S 25	0 0 47	28°20'57	7♒28	7°29	0♏52	2°32	24°42	11°12	10°22	14° 0	5°44	17°36	15°59	5°55	n.a.	S 25
S 26	0 4 44	29°20'56	20°49	9° 3	2° 6	3°17	24°54	11° 9	10°20	14° 2	5°43	17°38	15°56	6° 1	n.a.	S 26
M27	0 8 40	0♎20'57	4♒36	10°37	3°19	4° 1	25° 6	11° 6	10°19	14° 4	5°42	17°39	15°53	6° 8	n.a.	M27
T 28	0 12 37	1°20'59	18°52	12°10	4°32	4°46	25°17	11° 3	10°18	14° 6	5°42	17°R39	15°49	6°15	n.a.	T 28
W29	0 16 33	2°21'03	3♓33	13°43	5°46	5°30	25°29	10°59	10°17	14° 9	5°41	17°38	15°46	6°21	n.a.	W29
T 30	0 20 30	3♎21'09	18♓36	15♎15	6♏59	6♐15	25♌40	10♉56	10♒15	14♎11	5♒41	17♌35	15♌43	6♎28	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	9n58	13s46	0s39	14n30	1n51	0s 8	0n30	18s 5	1s34	16n 3	1n 2	13n23	2s18	18s23	0s45	3s30	1n55	31s19	12s48	15n29	15n51	2n 6		n.a.
T 2	9 36	9 32	1 59	13 50	1 49	0 40	0 27	18 18	1 35	15 59	1 2	13 23	2 18	18 23	0 45	3 31	1 55	31 19	12 48	15 29	15 52	2 3		n.a.
F 3	9 14	4 40	3 12	13 10	1 47	1 12	0 25	18 30	1 35	15 55	1 2	13 22	2 18	18 24	0 45	3 31	1 55	31 19	12 48	15 30	15 53	2 1		n.a.
S 4	8 52	0n29	4 10	12 28	1 45	1 44	0 22	18 43	1 35	15 51	1 2	13 22	2 19	18 24	0 45	3 32	1 55	31 20	12 48	15 30	15 53	1 59		n.a.
S 5	8 29	5 31	4 51	11 46	1 42	2 16	0 19	18 55	1 35	15 47	1 2	13 22	2 19	18 25	0 45	3 33	1 55	31 20	12 48	15 31	15 54	1 57		n.a.
M 6	8 7	10 7	5 12	11 3	1 38	2 48	0 17	19 8	1 36	15 43	1 2	13 21	2 19	18 25	0 45	3 34	1 55	31 20	12 47	15 32	15 55	1 55		n.a.
T 7	7 44	14 2	5 13	10 20	1 34	3 20	0 14	19 20	1 36	15 39	1 3	13 21	2 19	18 26	0 45	3 35	1 55	31 20	12 47	15 33	15 56	1 53		n.a.
W 8	7 21	17 4	4 56	9 36	1 30	3 51	0 11	19 32	1 36	15 35	1 3	13 20	2 19	18 26	0 45	3 35	1 55	31 20	12 47	15 33	15 57	1 51		n.a.
T 9	6 58	19 4	4 23	8 51	1 26	4 23	0 8	19 44	1 36	15 31	1 3	13 20	2 19	18 27	0 45	3 36	1 55	31 20	12 47	15 33	15 58	1 49		n.a.
F 10	6 35	20 1	3 37	8 6	1 21	4 55	0 5	19 55	1 36	15 27	1 3	13 19	2 20	18 27	0 45	3 37	1 55	31 20	12 47	15 32	15 59	1 46		n.a.
S 11	6 12	19 54	2 42	7 21	1 16	5 26	0 2	20 7	1 37	15 23	1 3	13 18	2 20	18 28	0 45	3 38	1 55	31 20	12 47	15 32	16 0	1 44		n.a.
S 12	5 49	18 47	1 40	6 36	1 10	5 58	0s 0	20 18	1 37	15 19	1 3	13 18	2 20	18 28	0 45	3 39	1 55	31 21	12 46	15 31	16 1	1 42		n.a.
M13	5 26	16 49	0 34	5 50	1 5	6 29	0 3	20 30	1 37	15 15	1 3	13 17	2 20	18 29	0 45	3 39	1 55	31 21	12 46	15 31	16 2	1 40		n.a.
T 14	5 2	14 7	0n32	5 5	0 59	7 0	0 6	20 41	1 37	15 11	1 3	13 16	2 20	18 29	0 45	3 40	1 55	31 21	12 46	15 31	16 3	1 38		n.a.
W15	4 39	10 51	1 36	4 19	0 53	7 32	0 9	20 51	1 37	15 7	1 3	13 16	2 20	18 30	0 45	3 41	1 55	31 21	12 46	15 31	16 4	1 36		n.a.
T 16	4 15	7 10	2 36	3 34	0 47	8 2	0 12	21 2	1 37	15 3	1 4	13 15	2 21	18 30	0 45	3 42	1 55	31 21	12 46	15 32	16 5	1 34		n.a.
F 17	3 51	3 13	3 28	2 48	0 41	8 33	0 15	21 13	1 37	14 59	1 4	13 14	2 21	18 31	0 45	3 43	1 55	31 21	12 46	15 34	16 6	1 31		n.a.
S 18	3 28	0s51	4 11	2 3	0 35	9 4	0 18	21 23	1 37	14 55	1 4	13 13	2 21	18 31	0 45	3 44	1 54	31 21	12 45	15 36	16 7	1 29		n.a.
S 19	3 4	4 52	4 43	1 17	0 28	9 34	0 21	21 33	1 38	14 51	1 4	13 13	2 21	18 32	0 45	3 45	1 54	31 21	12 45	15 38	16 8	1 27		n.a.
M20	2 40	8 43	5 4	0 32	0 22	10 4	0 24	21 43	1 38	14 47	1 4	13 12	2 21	18 32	0 45	3 45	1 54	31 21	12 45	15 40	16 9	1 25		n.a.
T 21	2 16	12 16	5 11	0s13	0 15	10 34	0 27	21 53	1 38	14 43	1 4	13 11	2 21	18 32	0 45	3 46	1 54	31 21	12 45	15 41	16 10	1 23		n.a.
W22	1 52	15 20	5 4	0 58	0 8	11 4	0 30	22 3	1 38	14 39	1 4	13 10	2 22	18 33	0 45	3 47	1 54	31 21	12 45	15 43	16 11	1 21		n.a.
T 23	1 28	17 48	4 43	1 42	0 2	11 33	0 33	22 12	1 38	14 35	1 5	13 9	2 22	18 33	0 45	3 48	1 54	31 21	12 44	15 44	16 12	1 19		n.a.
F 24	1 4	19 27	4 9	2 27	0s 5	12 2	0 36	22 21	1 38	14 31	1 5	13 8	2 22	18 34	0 45	3 49	1 54	31 21	12 44	15 44	16 13	1 16		n.a.
S 25	0 40	20 10	3 21	3 11	0 12	12 31	0 39	22 30	1 38	14 27	1 5	13 7	2 22	18 34	0 45	3 50	1 54	31 21	12 44	15 44	16 14	1 14		n.a.
S 26	0 16	19 46	2 20	3 55	0 18	13 0	0 42	22 39	1 38	14 23	1 5	13 6	2 22	18 34	0 45	3 51	1 54	31 21	12 44	15 44	16 15	1 12		n.a.
M27	0s 8	18 12	1 10	4 38	0 25	13 28	0 45	22 48	1 38	14 20	1 5	13 5	2 22	18 35	0 45	3 51	1 54	31 21	12 44	15 43	16 16	1 10		n.a.
T 28	0 33	15 27	0s 7	5 21	0 32	13 56	0 48	22 56	1 38	14 16	1 5	13 4	2 22	18 35	0 45	3 52	1 54	31 21	12 43	15 43	16 17	1 8		n.a.
W29	0 57	11 38	1 25	6 4	0 38	14 24	0 51	23 4	1 38	14 12	1 5	13 2	2 22	18 35	0 45	3 53	1 54	31 21	12 43	15 43	16 18	1 6		n.a.
T 30	1s21	7s 0	2s39	6s46	0s45	14s51	0s54	23s12	1s38	14n 8	1n 6	13n 1	2s23	18s36	0s45	3s54	1n54	31s21	12s43	15n44	16n19	1n 4		n.a.

Julian Day Number = 1655921.5, Delta T = 03h28m25s
Ecliptic obliquity = 23°42'55, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'38, Lahiri = - 6°25'37 Julian Calendar 1 Sept. 180 BCE == Greg. Calendar 29 Aug. 180 BCE

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ASTRODIENST EPHEMERIS for the year 180 BCE
geocentric

OCTOBER 180 BCE (-179) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 24 26	4♎21'17	3♈52	16♎46	8♏12	7♐ 0	25♌52	10°R53	10°R14	14♎13	5°R40	17°R30	15♌40	6♎35	n.a.	F 1
S 2	0 28 23	5°21'26	19°11	18°18	9°25	7°44	26° 3	10♉49	10♒13	14°15	5♒39	17♌23	15°37	6°41	n.a.	S 2
S 3	0 32 19	6°21'38	4♉22	19°48	10°38	8°29	26°15	10°46	10°12	14°17	5°39	17°16	15°33	6°48	n.a.	S 3
M 4	0 36 16	7°21'51	19°15	21°18	11°51	9°14	26°26	10°42	10°11	14°20	5°38	17° 8	15°30	6°55	n.a.	M 4
T 5	0 40 13	8°22'07	3♊42	22°48	13° 4	9°59	26°37	10°38	10°10	14°22	5°38	17° 2	15°27	7° 2	n.a.	T 5
W 6	0 44 9	9°22'25	17°41	24°18	14°17	10°44	26°49	10°34	10° 9	14°24	5°38	16°58	15°24	7° 8	n.a.	W 6
T 7	0 48 6	10°22'45	1♋10	25°46	15°30	11°29	27° 0	10°30	10° 9	14°26	5°37	16°55	15°21	7°15	n.a.	T 7
F 8	0 52 2	11°23'07	14°11	27°15	16°43	12°14	27°11	10°27	10° 8	14°29	5°37	16°D55	15°18	7°22	n.a.	F 8
S 9	0 55 59	12°23'32	26°50	28°42	17°56	12°59	27°22	10°22	10° 7	14°31	5°36	16°56	15°14	7°28	n.a.	S 9
S 10	0 59 55	13°23'58	9♌10	0♏10	19° 9	13°45	27°33	10°18	10° 6	14°33	5°36	16°57	15°11	7°35	n.a.	S 10
M11	1 3 52	14°24'26	21°16	1°36	20°22	14°30	27°43	10°14	10° 6	14°35	5°36	16°R57	15° 8	7°42	n.a.	M11
T 12	1 7 48	15°24'56	3♍13	3° 2	21°35	15°15	27°54	10°10	10° 5	14°38	5°35	16°55	15° 5	7°48	n.a.	T 12
W13	1 11 45	16°25'28	15° 5	4°28	22°48	16° 1	28° 5	10° 6	10° 4	14°40	5°35	16°51	15° 2	7°55	n.a.	W13
T 14	1 15 41	17°26'02	26°54	5°53	24° 1	16°46	28°15	10° 1	10° 4	14°42	5°35	16°44	14°58	8° 2	n.a.	T 14
F 15	1 19 38	18°26'38	8♎43	7°17	25°13	17°32	28°26	9°57	10° 4	14°44	5°35	16°35	14°55	8° 8	n.a.	F 15
S 16	1 23 35	19°27'15	20°35	8°40	26°26	18°17	28°36	9°52	10° 3	14°47	5°34	16°23	14°52	8°15	n.a.	S 16
S 17	1 27 31	20°27'54	2♏31	10° 2	27°39	19° 3	28°46	9°48	10° 3	14°49	5°34	16°11	14°49	8°22	n.a.	S 17
M18	1 31 28	21°28'34	14°31	11°23	28°52	19°48	28°56	9°43	10° 2	14°51	5°34	15°58	14°46	8°29	n.a.	M18
T 19	1 35 24	22°29'16	26°37	12°43	0♐ 4	20°34	29° 6	9°39	10° 2	14°53	5°34	15°46	14°43	8°35	n.a.	T 19
W20	1 39 21	23°29'59	8♐52	14° 2	1°17	21°20	29°16	9°34	10° 2	14°56	5°34	15°36	14°39	8°42	n.a.	W20
T 21	1 43 17	24°30'44	21°16	15°19	2°29	22° 5	29°26	9°29	10° 2	14°58	5°34	15°28	14°36	8°49	n.a.	T 21
F 22	1 47 14	25°31'30	3♑54	16°34	3°42	22°51	29°36	9°25	10° 2	15° 0	5°34	15°24	14°33	8°55	n.a.	F 22
S 23	1 51 10	26°32'17	16°47	17°48	4°54	23°37	29°46	9°20	10°D 2	15° 2	5°D34	15°21	14°30	9° 2	n.a.	S 23
S 24	1 55 7	27°33'05	29°59	18°59	6° 7	24°23	29°55	9°15	10° 2	15° 5	5°34	15°D21	14°27	9° 9	n.a.	S 24
M25	1 59 4	28°33'54	13♒35	20° 8	7°19	25° 9	0♍ 5	9°10	10° 2	15° 7	5°34	15°R21	14°24	9°15	n.a.	M25
T 26	2 3 0	29°34'44	27°36	21°14	8°31	25°55	0°14	9° 5	10° 2	15° 9	5°34	15°21	14°20	9°22	n.a.	T 26
W27	2 6 57	0♏35'36	12♓ 1	22°17	9°43	26°41	0°23	9° 1	10° 2	15°11	5°34	15°19	14°17	9°29	n.a.	W27
T 28	2 10 53	1°36'28	26°50	23°16	10°56	27°27	0°33	8°56	10° 2	15°13	5°34	15°14	14°14	9°36	n.a.	T 28
F 29	2 14 50	2°37'21	11♈56	24°11	12° 8	28°13	0°42	8°51	10° 2	15°16	5°34	15° 6	14°11	9°42	n.a.	F 29
S 30	2 18 46	3°38'15	27°11	25° 1	13°20	28°59	0°51	8°46	10° 3	15°18	5°34	14°55	14° 8	9°49	n.a.	S 30
S 31	2 22 43	4♏39'11	12♉23	25♏46	14♐32	29♐45	0♍59	8♉41	10♒ 3	15♎20	5♒34	14♌44	14♌ 4	9♎56	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	1s45	1s51	3s43	7s27	0s52	15s18	0s57	23s20	1s38	14n 4	1n 6	13n 0	2s23	18s36	0s45	3s55	1n54	31s21	12s43	15n46	16n19	1n 1		n.a.
S 2	2 9	3n25	4 31	8 9	0 58	15 45	1 0	23 28	1 38	14 1	1 6	12 59	2 23	18 36	0 45	3 56	1 54	31 21	12 42	15 48	16 20	0 59		n.a.
S 3	2 33	8 25	5 0	8 50	1 5	16 11	1 3	23 35	1 38	13 57	1 6	12 58	2 23	18 36	0 45	3 57	1 54	31 21	12 42	15 50	16 21	0 57		n.a.
M 4	2 57	12 49	5 7	9 30	1 11	16 37	1 6	23 42	1 38	13 53	1 6	12 56	2 23	18 37	0 45	3 58	1 54	31 20	12 42	15 53	16 22	0 55		n.a.
T 5	3 21	16 19	4 54	10 10	1 17	17 2	1 9	23 49	1 38	13 49	1 6	12 55	2 23	18 37	0 45	3 58	1 54	31 20	12 42	15 55	16 23	0 53		n.a.
W 6	3 45	18 45	4 25	10 49	1 23	17 27	1 12	23 55	1 37	13 46	1 7	12 54	2 23	18 37	0 45	3 59	1 54	31 20	12 41	15 56	16 24	0 51		n.a.
T 7	4 9	20 2	3 41	11 27	1 29	17 52	1 15	24 1	1 37	13 42	1 7	12 53	2 23	18 37	0 45	4 0	1 54	31 20	12 41	15 57	16 25	0 48		n.a.
F 8	4 33	20 11	2 47	12 5	1 35	18 16	1 17	24 8	1 37	13 38	1 7	12 51	2 23	18 37	0 45	4 1	1 54	31 20	12 41	15 57	16 26	0 46		n.a.
S 9	4 57	19 18	1 46	12 42	1 41	18 39	1 20	24 13	1 37	13 35	1 7	12 50	2 23	18 38	0 45	4 2	1 54	31 20	12 41	15 57	16 27	0 44		n.a.
S 10	5 21	17 30	0 42	13 19	1 46	19 2	1 23	24 19	1 37	13 31	1 7	12 49	2 24	18 38	0 44	4 3	1 54	31 20	12 40	15 56	16 28	0 42		n.a.
M11	5 45	14 56	0n23	13 55	1 52	19 25	1 26	24 24	1 37	13 27	1 7	12 47	2 24	18 38	0 44	4 4	1 54	31 20	12 40	15 56	16 29	0 40		n.a.
T 12	6 8	11 47	1 26	14 30	1 57	19 47	1 28	24 29	1 37	13 24	1 8	12 46	2 24	18 38	0 44	4 5	1 54	31 19	12 40	15 57	16 30	0 38		n.a.
W13	6 32	8 10	2 25	15 4	2 2	20 9	1 31	24 34	1 36	13 20	1 8	12 44	2 24	18 38	0 44	4 5	1 54	31 19	12 40	15 58	16 31	0 35		n.a.
T 14	6 55	4 15	3 16	15 37	2 6	20 30	1 33	24 39	1 36	13 17	1 8	12 43	2 24	18 38	0 44	4 6	1 54	31 19	12 39	16 0	16 32	0 33		n.a.
F 15	7 19	0 10	4 0	16 9	2 11	20 50	1 36	24 43	1 36	13 13	1 8	12 42	2 24	18 38	0 44	4 7	1 54	31 19	12 39	16 3	16 33	0 31		n.a.
S 16	7 42	3s55	4 33	16 40	2 15	21 10	1 38	24 47	1 36	13 10	1 8	12 40	2 24	18 38	0 44	4 8	1 54	31 19	12 39	16 6	16 34	0 29		n.a.
S 17	8 5	7 53	4 54	17 11	2 18	21 30	1 41	24 51	1 36	13 6	1 9	12 39	2 24	18 39	0 44	4 9	1 54	31 18	12 39	16 10	16 35	0 27		n.a.
M18	8 28	11 34	5 2	17 40	2 22	21 49	1 43	24 54	1 35	13 3	1 9	12 37	2 24	18 39	0 44	4 10	1 54	31 18	12 38	16 14	16 36	0 25		n.a.
T 19	8 51	14 49	4 57	18 8	2 25	22 7	1 46	24 58	1 35	13 0	1 9	12 36	2 24	18 39	0 44	4 11	1 54	31 18	12 38	16 18	16 37	0 22		n.a.
W20	9 14	17 27	4 38	18 34	2 27	22 25	1 48	25 0	1 35	12 56	1 9	12 34	2 24	18 39	0 44	4 12	1 54	31 18	12 38	16 21	16 37	0 20		n.a.
T 21	9 36	19 20	4 6	19 0	2 30	22 42	1 50	25 3	1 35	12 53	1 9	12 33	2 24	18 39	0 44	4 12	1 54	31 17	12 38	16 23	16 38	0 18		n.a.
F 22	9 59	20 18	3 21	19 24	2 31	22 58	1 52	25 6	1 35	12 50	1 10	12 31	2 24	18 39	0 44	4 13	1 54	31 17	12 37	16 24	16 39	0 16		n.a.
S 23	10 21	20 15	2 25	19 46	2 33	23 14	1 54	25 8	1 34	12 46	1 10	12 30	2 24	18 39	0 44	4 14	1 54	31 17	12 37	16 25	16 40	0 14		n.a.
S 24	10 43	19 4	1 21	20 7	2 33	23 29	1 56	25 10	1 34	12 43	1 10	12 28	2 24	18 39	0 44	4 15	1 54	31 17	12 37	16 25	16 41	0 12		n.a.
M25	11 5	16 47	0 9	20 26	2 33	23 44	1 58	25 11	1 34	12 40	1 10	12 27	2 24	18 39	0 44	4 16	1 54	31 16	12 36	16 25	16 42	0 9		n.a.
T 26	11 27	13 27	1s 4	20 43	2 32	23 58	2 0	25 12	1 33	12 37	1 10	12 25	2 24	18 38	0 44	4 17	1 54	31 16	12 36	16 25	16 43	0 7		n.a.
W27	11 49	9 14	2 16	20 59	2 31	24 11	2 2	25 13	1 33	12 34	1 11	12 24	2 24	18 38	0 44	4 18	1 54	31 16	12 36	16 26	16 44	0 5		n.a.
T 28	12 10	4 20	3 21	21 12	2 29	24 23	2 4	25 14	1 33	12 31	1 11	12 22	2 24	18 38	0 44	4 18	1 54	31 16	12 36	16 27	16 45	0 3		n.a.
F 29	12 31	0n54	4 12	21 23	2 25	24 35	2 6	25 15	1 33	12 28	1 11	12 20	2 24	18 38	0 44	4 19	1 54	31 15	12 35	16 30	16 46	0 1		n.a.
S 30	12 52	6 8	4 47	21 31	2 21	24 46	2 7	25 15	1 32	12 25	1 11	12 19	2 24	18 38	0 44	4 20	1 54	31 15	12 35	16 33	16 47	0s 2		n.a.
S 31	13s13	10n58	5s 0	21s37	2s16	24s56	2s 9	25s15	1s32	12n22	1n11	12n17	2s24	18s38	0s44	4s21	1n54	31s15	12s35	16n36	16n48	0s 4		n.a.

Julian Day Number = 1655951.5, Delta T = 03h28m24s
Ecliptic obliquity = 23°42'55, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'34, Lahiri = - 6°25'33 Julian Calendar 1 Oct. 180 BCE == Greg. Calendar 28 Sept. 180 BCE

The year -179 astronomical counting style corresponds to year 180 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 180 BCE
geocentric

NOVEMBER 180 BCE (-179) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 26 39	5♏40'08	27♉22	26♏24	15♐44	0♑31	1♍ 8	8°R36	10♒ 3	15♎22	5♒35	14°R32	14♌ 1	10♎ 2	n.a.	M 1
T 2	2 30 36	6°41'06	11♊58	26°56	16°56	1°17	1°17	8♉31	10° 4	15°24	5°35	14♌22	13°58	10° 9	n.a.	T 2
W 3	2 34 33	7°42'05	26° 6	27°20	18° 7	2° 3	1°25	8°26	10° 4	15°26	5°35	14°14	13°55	10°16	n.a.	W 3
T 4	2 38 29	8°43'06	9♋44	27°36	19°19	2°49	1°33	8°21	10° 5	15°28	5°35	14° 9	13°52	10°22	n.a.	T 4
F 5	2 42 26	9°44'08	22°52	27°R42	20°31	3°35	1°42	8°16	10° 6	15°30	5°36	14° 7	13°49	10°29	n.a.	F 5
S 6	2 46 22	10°45'11	5♌35	27°38	21°43	4°22	1°50	8°11	10° 6	15°33	5°36	14° 6	13°45	10°36	n.a.	S 6
S 7	2 50 19	11°46'16	17°56	27°23	22°54	5° 8	1°58	8° 6	10° 7	15°35	5°37	14° 6	13°42	10°43	n.a.	S 7
M 8	2 54 15	12°47'21	0♍ 1	26°57	24° 6	5°54	2° 5	8° 1	10° 8	15°37	5°37	14° 5	13°39	10°49	n.a.	M 8
T 9	2 58 12	13°48'28	11°56	26°20	25°17	6°40	2°13	7°56	10° 9	15°39	5°37	14° 3	13°36	10°56	n.a.	T 9
W10	3 2 8	14°49'35	23°46	25°31	26°28	7°27	2°21	7°51	10°10	15°41	5°38	13°58	13°33	11° 3	n.a.	W10
T 11	3 6 5	15°50'44	5♎34	24°33	27°40	8°13	2°28	7°46	10°10	15°43	5°38	13°51	13°29	11° 9	n.a.	T 11
F 12	3 10 2	16°51'54	17°25	23°24	28°51	8°59	2°35	7°41	10°11	15°45	5°39	13°40	13°26	11°16	n.a.	F 12
S 13	3 13 58	17°53'04	29°21	22° 9	0♑ 2	9°46	2°43	7°37	10°12	15°47	5°39	13°27	13°23	11°23	n.a.	S 13
S 14	3 17 55	18°54'16	11♏23	20°49	1°13	10°32	2°50	7°32	10°14	15°49	5°40	13°12	13°20	11°29	n.a.	S 14
M15	3 21 51	19°55'28	23°34	19°26	2°24	11°18	2°56	7°27	10°15	15°51	5°40	12°57	13°17	11°36	n.a.	M15
T 16	3 25 48	20°56'40	5♐53	18° 4	3°34	12° 5	3° 3	7°22	10°16	15°53	5°41	12°43	13°14	11°43	n.a.	T 16
W17	3 29 44	21°57'53	18°22	16°45	4°45	12°51	3°10	7°17	10°17	15°55	5°42	12°31	13°10	11°50	n.a.	W17
T 18	3 33 41	22°59'07	1♑ 0	15°31	5°56	13°37	3°16	7°13	10°18	15°56	5°42	12°22	13° 7	11°56	n.a.	T 18
F 19	3 37 37	24° 0'21	13°48	14°26	7° 6	14°24	3°22	7° 8	10°20	15°58	5°43	12°16	13° 4	12° 3	n.a.	F 19
S 20	3 41 34	25° 1'35	26°49	13°29	8°17	15°10	3°28	7° 3	10°21	16° 0	5°44	12°13	13° 1	12°10	n.a.	S 20
S 21	3 45 31	26° 2'50	10♒ 4	12°43	9°27	15°57	3°34	6°59	10°22	16° 2	5°44	12°D12	12°58	12°16	n.a.	S 21
M22	3 49 27	27° 4'04	23°36	12° 8	10°37	16°43	3°40	6°54	10°24	16° 4	5°45	12°R13	12°55	12°23	n.a.	M22
T 23	3 53 24	28° 5'18	7♓26	11°44	11°47	17°29	3°46	6°50	10°25	16° 6	5°46	12°12	12°51	12°30	n.a.	T 23
W24	3 57 20	29° 6'33	21°35	11°30	12°57	18°16	3°51	6°45	10°27	16° 7	5°47	12°10	12°48	12°37	n.a.	W24
T 25	4 1 17	0♗ 7'47	6♈ 3	11°D26	14° 7	19° 2	3°57	6°41	10°29	16° 9	5°47	12° 6	12°45	12°43	n.a.	T 25
F 26	4 5 13	1° 9'01	20°46	11°32	15°17	19°48	4° 2	6°37	10°30	16°11	5°48	11°59	12°42	12°50	n.a.	F 26
S 27	4 9 10	2°10'15	5♉38	11°46	16°26	20°35	4° 7	6°32	10°32	16°13	5°49	11°50	12°39	12°57	n.a.	S 27
S 28	4 13 7	3°11'29	20°32	12° 9	17°35	21°21	4°12	6°28	10°34	16°14	5°50	11°39	12°35	13° 3	n.a.	S 28
M29	4 17 3	4°12'44	5♊18	12°39	18°45	22° 8	4°16	6°24	10°35	16°16	5°51	11°28	12°32	13°10	n.a.	M29
T 30	4 21 0	5♗13'58	19♊48	13♏15	19♑54	22♑54	4♍21	6♉20	10♒37	16♎18	5♒52	11♌18	12♌29	13♎17	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13s34	15n 2	4s53	21s40	2s 9	25s 6	2s10	25s14	1s32	12n19	1n12	12n16	2s24	18s38	0s44	4s22	1n54	31s14	12s35	16n39	16n49	0s 6		n.a.
T 2	13 54	18 5	4 27	21 40	2 2	25 15	2 12	25 14	1 31	12 16	1 12	12 14	2 24	18 38	0 44	4 22	1 55	31 14	12 34	16 42	16 50	0 8		n.a.
W 3	14 14	19 55	3 45	21 37	1 53	25 23	2 13	25 13	1 31	12 13	1 12	12 13	2 24	18 37	0 44	4 23	1 55	31 14	12 34	16 45	16 50	0 10		n.a.
T 4	14 34	20 31	2 51	21 31	1 42	25 31	2 14	25 12	1 30	12 10	1 12	12 11	2 24	18 37	0 44	4 24	1 55	31 13	12 34	16 46	16 51	0 13		n.a.
F 5	14 54	19 57	1 50	21 21	1 30	25 37	2 15	25 10	1 30	12 7	1 13	12 10	2 24	18 37	0 44	4 25	1 55	31 13	12 33	16 47	16 52	0 15		n.a.
S 6	15 13	18 22	0 45	21 7	1 17	25 43	2 16	25 8	1 30	12 5	1 13	12 8	2 23	18 37	0 44	4 26	1 55	31 13	12 33	16 47	16 53	0 17		n.a.
S 7	15 32	15 57	0n20	20 49	1 2	25 48	2 17	25 6	1 29	12 2	1 13	12 7	2 23	18 37	0 44	4 26	1 55	31 12	12 33	16 47	16 54	0 19		n.a.
M 8	15 51	12 53	1 23	20 27	0 46	25 53	2 18	25 4	1 29	11 59	1 13	12 5	2 23	18 36	0 43	4 27	1 55	31 12	12 33	16 47	16 55	0 21		n.a.
T 9	16 10	9 20	2 21	20 1	0 28	25 57	2 19	25 1	1 29	11 57	1 14	12 4	2 23	18 36	0 43	4 28	1 55	31 12	12 32	16 48	16 56	0 24		n.a.
W10	16 28	5 27	3 13	19 31	0 9	26 0	2 20	24 58	1 28	11 54	1 14	12 2	2 23	18 36	0 43	4 29	1 55	31 11	12 32	16 49	16 57	0 26		n.a.
T 11	16 46	1 22	3 56	18 57	0n11	26 2	2 20	24 55	1 28	11 52	1 14	12 1	2 23	18 36	0 43	4 29	1 55	31 11	12 32	16 52	16 58	0 28		n.a.
F 12	17 4	2s46	4 29	18 20	0 31	26 3	2 21	24 51	1 27	11 49	1 14	11 59	2 23	18 35	0 43	4 30	1 55	31 10	12 32	16 55	16 59	0 30		n.a.
S 13	17 21	6 50	4 51	17 41	0 52	26 4	2 21	24 48	1 27	11 47	1 15	11 58	2 23	18 35	0 43	4 31	1 55	31 10	12 31	16 59	17 0	0 32		n.a.
S 14	17 39	10 41	4 59	17 1	1 12	26 4	2 21	24 44	1 26	11 45	1 15	11 56	2 23	18 35	0 43	4 32	1 55	31 10	12 31	17 3	17 1	0 35		n.a.
M15	17 55	14 8	4 54	16 20	1 31	26 3	2 21	24 39	1 26	11 43	1 15	11 55	2 23	18 34	0 43	4 32	1 55	31 9	12 31	17 7	17 2	0 37		n.a.
T 16	18 12	17 1	4 36	15 40	1 49	26 1	2 22	24 35	1 26	11 40	1 15	11 53	2 22	18 34	0 43	4 33	1 55	31 9	12 31	17 11	17 2	0 39		n.a.
W17	18 28	19 9	4 4	15 2	2 5	25 59	2 22	24 30	1 25	11 38	1 16	11 52	2 22	18 34	0 43	4 34	1 55	31 8	12 30	17 15	17 3	0 41		n.a.
T 18	18 44	20 23	3 19	14 28	2 19	25 56	2 21	24 25	1 25	11 36	1 16	11 50	2 22	18 33	0 43	4 35	1 55	31 8	12 30	17 17	17 4	0 43		n.a.
F 19	18 59	20 36	2 24	13 57	2 31	25 52	2 21	24 19	1 24	11 34	1 16	11 49	2 22	18 33	0 43	4 35	1 55	31 8	12 30	17 19	17 5	0 46		n.a.
S 20	19 15	19 43	1 21	13 31	2 40	25 48	2 21	24 14	1 24	11 32	1 17	11 48	2 22	18 32	0 43	4 36	1 55	31 7	12 30	17 20	17 6	0 48		n.a.
S 21	19 29	17 45	0 11	13 11	2 47	25 42	2 20	24 8	1 23	11 30	1 17	11 46	2 22	18 32	0 43	4 37	1 55	31 7	12 29	17 20	17 7	0 50		n.a.
M22	19 44	14 45	1s 0	12 55	2 53	25 36	2 20	24 1	1 23	11 28	1 17	11 45	2 21	18 32	0 43	4 37	1 55	31 6	12 29	17 20	17 8	0 52		n.a.
T 23	19 58	10 53	2 9	12 45	2 56	25 30	2 19	23 55	1 22	11 26	1 17	11 44	2 21	18 31	0 43	4 38	1 55	31 6	12 29	17 20	17 9	0 54		n.a.
W24	20 11	6 19	3 13	12 39	2 57	25 22	2 18	23 48	1 22	11 25	1 18	11 42	2 21	18 31	0 43	4 39	1 55	31 5	12 29	17 20	17 10	0 57		n.a.
T 25	20 25	1 19	4 5	12 38	2 57	25 14	2 17	23 41	1 21	11 23	1 18	11 41	2 21	18 30	0 43	4 39	1 55	31 5	12 28	17 22	17 11	0 59		n.a.
F 26	20 38	3n51	4 42	12 42	2 55	25 5	2 16	23 34	1 21	11 21	1 18	11 40	2 21	18 30	0 43	4 40	1 55	31 4	12 28	17 24	17 12	1 1		n.a.
S 27	20 50	8 50	5 0	12 49	2 52	24 55	2 15	23 26	1 20	11 20	1 18	11 39	2 21	18 29	0 43	4 40	1 55	31 4	12 28	17 26	17 12	1 3		n.a.
S 28	21 2	13 18	4 58	12 59	2 48	24 45	2 14	23 19	1 20	11 18	1 19	11 37	2 20	18 29	0 43	4 41	1 55	31 4	12 28	17 29	17 13	1 6		n.a.
M29	21 14	16 54	4 37	13 13	2 44	24 34	2 12	23 11	1 19	11 17	1 19	11 36	2 20	18 28	0 43	4 42	1 56	31 3	12 27	17 32	17 14	1 8		n.a.
T 30	21s25	19n22	3s57	13s29	2n38	24s23	2s11	23s 2	1s19	11n15	1n19	11n35	2s20	18s28	0s43	4s42	1n56	31s 3	12s27	17n35	17n15	1s10		n.a.

Julian Day Number = 1655982.5, Delta T = 03h28m23s
Ecliptic obliquity = 23°42'55, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'30, Lahiri = - 6°25'29 Julian Calendar 1 Nov. 180 BCE == Greg. Calendar 29 Oct. 180 BCE

The year -179 astronomical counting style corresponds to year 180 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 180 BCE
geocentric

DECEMBER 180 BCE (-179) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 24 56	6♐15'12	3♋55	13♏57	21♑ 3	23♑40	4♍25	6°R16	10♒39	16♎19	5♒53	11°R11	12♌26	13♎23	n.a.	W 1
T 2	4 28 53	7°16'27	17°35	14°44	22°11	24°27	4°29	6♉12	10°41	16°21	5°54	11♌ 5	12°23	13°30	n.a.	T 2
F 3	4 32 49	8°17'42	0♌48	15°36	23°20	25°13	4°33	6° 8	10°43	16°22	5°55	11° 3	12°20	13°37	n.a.	F 3
S 4	4 36 46	9°18'57	13°36	16°31	24°28	25°59	4°37	6° 5	10°45	16°24	5°56	11°D 2	12°16	13°44	n.a.	S 4
S 5	4 40 42	10°20'11	26° 2	17°31	25°37	26°46	4°41	6° 1	10°47	16°26	5°57	11° 3	12°13	13°50	n.a.	S 5
M 6	4 44 39	11°21'26	8♍12	18°34	26°45	27°32	4°44	5°57	10°49	16°27	5°58	11°R 4	12°10	13°57	n.a.	M 6
T 7	4 48 36	12°22'41	20° 9	19°39	27°52	28°18	4°47	5°54	10°51	16°28	5°59	11° 3	12° 7	14° 4	n.a.	T 7
W 8	4 52 32	13°23'56	2♎ 0	20°47	29° 0	29° 5	4°50	5°51	10°53	16°30	6° 0	11° 1	12° 4	14°10	n.a.	W 8
T 9	4 56 29	14°25'11	13°50	21°58	0♒ 8	29°51	4°53	5°47	10°56	16°31	6° 1	10°57	12° 1	14°17	n.a.	T 9
F 10	5 0 25	15°26'26	25°43	23°10	1°15	0♒37	4°56	5°44	10°58	16°33	6° 2	10°50	11°57	14°24	n.a.	F 10
S 11	5 4 22	16°27'41	7♏42	24°24	2°22	1°23	4°59	5°41	11° 0	16°34	6° 3	10°41	11°54	14°31	n.a.	S 11
S 12	5 8 18	17°28'55	19°52	25°40	3°29	2°10	5° 1	5°38	11° 3	16°35	6° 4	10°31	11°51	14°37	n.a.	S 12
M13	5 12 15	18°30'09	2♐13	26°58	4°35	2°56	5° 3	5°35	11° 5	16°37	6° 6	10°20	11°48	14°44	n.a.	M13
T 14	5 16 11	19°31'23	14°47	28°16	5°42	3°42	5° 5	5°32	11° 7	16°38	6° 7	10°11	11°45	14°51	n.a.	T 14
W15	5 20 8	20°32'36	27°33	29°37	6°48	4°28	5° 7	5°29	11°10	16°39	6° 8	10° 2	11°41	14°57	n.a.	W15
T 16	5 24 5	21°33'49	10♑31	0♐58	7°54	5°14	5° 9	5°26	11°12	16°40	6° 9	9°56	11°38	15° 4	n.a.	T 16
F 17	5 28 1	22°35'01	23°41	2°20	8°59	6° 1	5°10	5°24	11°15	16°42	6°11	9°52	11°35	15°11	n.a.	F 17
S 18	5 31 58	23°36'12	7♒ 2	3°43	10° 5	6°47	5°11	5°21	11°17	16°43	6°12	9°D51	11°32	15°17	n.a.	S 18
S 19	5 35 54	24°37'22	20°34	5° 7	11°10	7°33	5°12	5°19	11°20	16°44	6°13	9°51	11°29	15°24	n.a.	S 19
M20	5 39 51	25°38'31	4♓16	6°32	12°15	8°19	5°13	5°17	11°23	16°45	6°14	9°53	11°26	15°31	n.a.	M20
T 21	5 43 47	26°39'39	18° 8	7°58	13°19	9° 5	5°14	5°15	11°25	16°46	6°16	9°54	11°22	15°38	n.a.	T 21
W22	5 47 44	27°40'46	2♈12	9°25	14°23	9°51	5°14	5°13	11°28	16°47	6°17	9°R54	11°19	15°44	n.a.	W22
T 23	5 51 41	28°41'52	16°25	10°52	15°27	10°37	5°15	5°11	11°31	16°48	6°18	9°53	11°16	15°51	n.a.	T 23
F 24	5 55 37	29°42'56	0♉45	12°20	16°31	11°23	5°R15	5° 9	11°33	16°49	6°20	9°49	11°13	15°58	n.a.	F 24
S 25	5 59 34	0♑44'00	15°10	13°49	17°34	12° 9	5°14	5° 7	11°36	16°50	6°21	9°44	11°10	16° 4	n.a.	S 25
S 26	6 3 30	1°45'02	29°35	15°19	18°37	12°55	5°14	5° 5	11°39	16°51	6°23	9°38	11° 7	16°11	n.a.	S 26
M27	6 7 27	2°46'03	13♊53	16°49	19°39	13°41	5°14	5° 4	11°42	16°52	6°24	9°32	11° 3	16°18	n.a.	M27
T 28	6 11 23	3°47'03	28° 0	18°20	20°41	14°27	5°13	5° 3	11°45	16°53	6°25	9°27	11° 0	16°25	n.a.	T 28
W29	6 15 20	4°48'02	11♋50	19°51	21°43	15°13	5°12	5° 1	11°48	16°53	6°27	9°22	10°57	16°31	n.a.	W29
T 30	6 19 16	5°49'00	25°20	21°24	22°44	15°59	5°11	5° 0	11°50	16°54	6°28	9°20	10°54	16°38	n.a.	T 30
F 31	6 23 13	6♑49'57	8♌29	22♐57	23♒45	16♒44	5♍10	4♉59	11♒53	16♎55	6♒30	9°D19	10♌51	16♎45	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
W 1	21s36	20n35	3s 4	13s47	2n32	24s10	2s 9	22s54	1s18	11n14	1n20	11n34	2s20	18s27	0s43	4s43	1n56	31s 2	12s27	17n37	17n16	1s12		n.a.	
T 2	21 47	20 32	2 2	14 8	2 25	23 57	2 7	22 45	1 18	11 13	1 20	11 33	2 20	18 26	0 43	4 43	1 56	31 2	12 27	17 39	17 17	1 14		n.a.	
F 3	21 57	19 19	0 54	14 30	2 18	23 44	2 5	22 36	1 17	11 12	1 20	11 32	2 19	18 26	0 43	4 44	1 56	31 1	12 26	17 39	17 18	1 17		n.a.	
S 4	22 6	17 9	0n14	14 53	2 11	23 30	2 3	22 27	1 16	11 10	1 20	11 31	2 19	18 25	0 43	4 45	1 56	31 1	12 26	17 40	17 19	1 19		n.a.	
S 5	22 15	14 13	1 19	15 17	2 3	23 15	2 1	22 17	1 16	11 9	1 21	11 30	2 19	18 25	0 43	4 45	1 56	31 0	12 26	17 39	17 20	1 21		n.a.	
M 6	22 24	10 45	2 20	15 42	1 55	22 59	1 59	22 7	1 15	11 8	1 21	11 29	2 19	18 24	0 43	4 46	1 56	31 0	12 26	17 39	17 21	1 23		n.a.	
T 7	22 32	6 54	3 13	16 8	1 47	22 43	1 56	21 57	1 15	11 7	1 21	11 28	2 18	18 24	0 43	4 46	1 56	30 59	12 26	17 39	17 21	1 26		n.a.	
W 8	22 40	2 50	3 58	16 34	1 39	22 27	1 54	21 47	1 14	11 7	1 22	11 27	2 18	18 23	0 43	4 47	1 56	30 59	12 25	17 40	17 22	1 28		n.a.	
T 9	22 48	1s20	4 32	17 0	1 31	22 10	1 51	21 37	1 14	11 6	1 22	11 26	2 18	18 22	0 43	4 47	1 56	30 58	12 25	17 41	17 23	1 30		n.a.	
F 10	22 55	5 28	4 55	17 27	1 23	21 52	1 48	21 26	1 13	11 5	1 22	11 25	2 18	18 22	0 42	4 48	1 56	30 58	12 25	17 43	17 24	1 32		n.a.	
S 11	23 1	9 26	5 5	17 53	1 14	21 34	1 45	21 15	1 12	11 4	1 23	11 24	2 17	18 21	0 42	4 48	1 56	30 57	12 25	17 45	17 25	1 34		n.a.	
S 12	23 7	13 4	5 1	18 20	1 6	21 15	1 42	21 4	1 12	11 4	1 23	11 24	2 17	18 20	0 42	4 48	1 56	30 57	12 25	17 48	17 26	1 37		n.a.	
M13	23 13	16 13	4 44	18 46	0 58	20 56	1 39	20 53	1 11	11 3	1 23	11 23	2 17	18 20	0 42	4 49	1 56	30 56	12 24	17 51	17 27	1 39		n.a.	
T 14	23 18	18 40	4 12	19 12	0 49	20 36	1 36	20 41	1 11	11 3	1 23	11 22	2 17	18 19	0 42	4 49	1 56	30 56	12 24	17 54	17 28	1 41		n.a.	
W15	23 22	20 14	3 27	19 38	0 41	20 16	1 32	20 30	1 10	11 2	1 24	11 22	2 16	18 18	0 42	4 50	1 56	30 55	12 24	17 56	17 29	1 43		n.a.	
T 16	23 27	20 47	2 31	20 3	0 33	19 56	1 29	20 18	1 9	11 2	1 24	11 21	2 16	18 17	0 42	4 50	1 56	30 55	12 24	17 58	17 30	1 46		n.a.	
F 17	23 30	20 12	1 26	20 27	0 25	19 35	1 25	20 6	1 9	11 2	1 24	11 20	2 16	18 17	0 42	4 51	1 57	30 54	12 24	17 59	17 30	1 48		n.a.	
S 18	23 34	18 29	0 15	20 51	0 17	19 13	1 21	19 53	1 8	11 2	1 25	11 20	2 16	18 16	0 42	4 51	1 57	30 54	12 24	17 59	17 31	1 50		n.a.	
S 19	23 36	15 43	0s58	21 15	0 9	18 51	1 17	19 41	1 8	11 2	1 25	11 19	2 15	18 15	0 42	4 51	1 57	30 53	12 23	17 59	17 32	1 52		n.a.	
M20	23 39	12 3	2 8	21 37	0 2	18 29	1 13	19 28	1 7	11 2	1 25	11 19	2 15	18 15	0 42	4 52	1 57	30 53	12 23	17 59	17 33	1 55		n.a.	
T 21	23 40	7 41	3 12	21 59	0s 6	18 6	1 8	19 15	1 6	11 2	1 26	11 18	2 15	18 14	0 42	4 52	1 57	30 52	12 23	17 58	17 34	1 57		n.a.	
W22	23 42	2 52	4 6	22 20	0 13	17 43	1 4	19 2	1 6	11 2	1 26	11 18	2 15	18 13	0 42	4 52	1 57	30 52	12 23	17 58	17 35	1 59		n.a.	
T 23	23 43	2n 9	4 44	22 40	0 20	17 20	0 59	18 49	1 5	11 2	1 26	11 17	2 14	18 12	0 42	4 53	1 57	30 51	12 23	17 59	17 36	2 1		n.a.	
F 24	23 43	7 5	5 6	22 59	0 27	16 56	0 55	18 36	1 4	11 2	1 27	11 17	2 14	18 11	0 42	4 53	1 57	30 51	12 23	18 0	17 37	2 4		n.a.	
S 25	23 43	11 39	5 9	23 17	0 34	16 32	0 50	18 22	1 4	11 2	1 27	11 17	2 14	18 11	0 42	4 53	1 57	30 50	12 22	18 1	17 38	2 6		n.a.	
S 26	23 42	15 33	4 52	23 34	0 41	16 8	0 45	18 8	1 3	11 3	1 27	11 16	2 13	18 10	0 42	4 54	1 57	30 50	12 22	18 2	17 38	2 8		n.a.	
M27	23 41	18 29	4 16	23 50	0 47	15 43	0 40	17 54	1 2	11 3	1 27	11 16	2 13	18 9	0 42	4 54	1 57	30 49	12 22	18 4	17 39	2 10		n.a.	
T 28	23 40	20 16	3 26	24 5	0 54	15 18	0 34	17 40	1 2	11 4	1 28	11 16	2 13	18 8	0 42	4 54	1 57	30 49	12 22	18 6	17 40	2 12		n.a.	
W29	23 38	20 47	2 24	24 19	1 0	14 53	0 29	17 26	1 1	11 4	1 28	11 16	2 13	18 7	0 42	4 54	1 57	30 48	12 22	18 7	17 41	2 15		n.a.	
T 30	23 35	20 5	1 16	24 31	1 6	14 28	0 23	17 12	1 1	11 5	1 28	11 16	2 12	18 6	0 42	4 55	1 57	30 48	12 22	18 7	17 42	2 17		n.a.	
F 31	23s32	18n17	0s 5	24s43	1s11	14s 2	0s18	16s57	1s 0	11n 6	1n29	11n16	2s12	18s 6	0s42	4s55	1n57	30s47	12s22	18n 8	17n43	2s19		n.a.	

Julian Day Number = 1656012.5, Delta T = 03h28m22s
Ecliptic obliquity = 23°42'54, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'26, Lahiri = - 6°25'25 Julian Calendar 1 Dec. 180 BCE == Greg. Calendar 28 Nov. 180 BCE

The year -179 astronomical counting style corresponds to year 180 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 179 BCE
geocentric

JANUARY 179 BCE (-178) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 27 10	7♉50'52	21♌17	24♐30	24♒46	17♒30	5°R 8	4°R58	11♒56	16♎56	6♒31	9♌20	10♌47	16♎51	n.a.	S 1
S 2	6 31 6	8°51'47	3♍45	26° 5	25°46	18°16	5♍ 7	4♋57	11°59	16°56	6°33	9°21	10°44	16°58	n.a.	S 2
M 3	6 35 3	9°52'41	15°57	27°40	26°45	19° 2	5° 5	4°56	12° 2	16°57	6°34	9°23	10°41	17° 5	n.a.	M 3
T 4	6 38 59	10°53'33	27°58	29°15	27°44	19°47	5° 3	4°56	12° 5	16°57	6°36	9°25	10°38	17°12	n.a.	T 4
W 5	6 42 56	11°54'25	9♎52	0♉52	28°43	20°33	5° 1	4°55	12° 8	16°58	6°37	9°R25	10°35	17°18	n.a.	W 5
T 6	6 46 52	12°55'16	21°43	2°29	29°41	21°18	4°58	4°55	12°12	16°59	6°39	9°25	10°32	17°25	n.a.	T 6
F 7	6 50 49	13°56'05	3♏38	4° 7	0♓38	22° 4	4°56	4°55	12°15	16°59	6°40	9°23	10°28	17°32	n.a.	F 7
S 8	6 54 45	14°56'54	15°39	5°46	1°35	22°50	4°53	4°54	12°18	17° 0	6°42	9°21	10°25	17°38	n.a.	S 8
S 9	6 58 42	15°57'41	27°52	7°25	2°32	23°35	4°50	4°D54	12°21	17° 0	6°44	9°17	10°22	17°45	n.a.	S 9
M10	7 2 39	16°58'27	10♐20	9° 6	3°27	24°21	4°47	4°54	12°24	17° 0	6°45	9°13	10°19	17°52	n.a.	M10
T 11	7 6 35	17°59'12	23° 4	10°47	4°23	25° 6	4°44	4°55	12°27	17° 1	6°47	9°10	10°16	17°59	n.a.	T 11
W12	7 10 32	18°59'55	6♑ 5	12°29	5°17	25°52	4°40	4°55	12°31	17° 1	6°48	9° 7	10°13	18° 5	n.a.	W12
T 13	7 14 28	20° 0'37	19°24	14°11	6°11	26°37	4°37	4°55	12°34	17° 1	6°50	9° 5	10° 9	18°12	n.a.	T 13
F 14	7 18 25	21° 1'17	2♒58	15°55	7° 5	27°22	4°33	4°56	12°37	17° 2	6°51	9°D 4	10° 6	18°19	n.a.	F 14
S 15	7 22 21	22° 1'56	16°46	17°39	7°57	28° 8	4°29	4°57	12°40	17° 2	6°53	9° 4	10° 3	18°25	n.a.	S 15
S 16	7 26 18	23° 2'33	0♓45	19°25	8°49	28°53	4°25	4°57	12°44	17° 2	6°55	9° 5	10° 0	18°32	n.a.	S 16
M17	7 30 14	24° 3'08	14°50	21°11	9°40	29°38	4°20	4°58	12°47	17° 2	6°56	9° 6	9°57	18°39	n.a.	M17
T 18	7 34 11	25° 3'41	29° 1	22°58	10°30	0♓23	4°16	4°59	12°50	17° 2	6°58	9° 7	9°53	18°46	n.a.	T 18
W19	7 38 8	26° 4'12	13♈13	24°46	11°20	1° 8	4°11	5° 0	12°54	17° 2	7° 0	9° 8	9°50	18°52	n.a.	W19
T 20	7 42 4	27° 4'41	27°26	26°35	12° 8	1°54	4° 6	5° 2	12°57	17° 3	7° 1	9°R 8	9°47	18°59	n.a.	T 20
F 21	7 46 1	28° 5'08	11♉35	28°25	12°56	2°39	4° 1	5° 3	13° 0	17°R 3	7° 3	9° 8	9°44	19° 6	n.a.	F 21
S 22	7 49 57	29° 5'33	25°40	0♒15	13°43	3°24	3°56	5° 4	13° 4	17° 3	7° 4	9° 7	9°41	19°12	n.a.	S 22
S 23	7 53 54	0♒ 5'56	9♊37	2° 6	14°29	4° 9	3°51	5° 6	13° 7	17° 3	7° 6	9° 6	9°38	19°19	n.a.	S 23
M24	7 57 50	1° 6'17	23°26	3°58	15°13	4°54	3°45	5° 7	13°10	17° 2	7° 8	9° 5	9°34	19°26	n.a.	M24
T 25	8 1 47	2° 6'37	7♋ 3	5°51	15°57	5°39	3°40	5° 9	13°14	17° 2	7° 9	9° 4	9°31	19°33	n.a.	T 25
W26	8 5 43	3° 6'54	20°27	7°44	16°40	6°23	3°34	5°11	13°17	17° 2	7°11	9° 3	9°28	19°39	n.a.	W26
T 27	8 9 40	4° 7'09	3♌37	9°38	17°21	7° 8	3°28	5°13	13°21	17° 2	7°13	9°D 3	9°25	19°46	n.a.	T 27
F 28	8 13 37	5° 7'22	16°31	11°32	18° 2	7°53	3°22	5°15	13°24	17° 2	7°14	9° 3	9°22	19°53	n.a.	F 28
S 29	8 17 33	6° 7'33	29° 9	13°27	18°41	8°38	3°16	5°17	13°27	17° 2	7°16	9° 3	9°19	19°59	n.a.	S 29
S 30	8 21 30	7° 7'43	11♍33	15°21	19°19	9°22	3°10	5°20	13°31	17° 1	7°18	9° 4	9°15	20° 6	n.a.	S 30
M31	8 25 26	8♒ 7'50	23♍44	17♒16	19♓55	10♓ 7	3♍ 4	5♋22	13♒34	17♎ 1	7♒19	9♌ 4	9♌12	20♎13	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s29	15n36	1n 5	24s53	1s17	13s36	0s12	16s42	0s59	11n 7	1n29	11n16	2s12	18s 5	0s42	4s55	1n57	30s47	12s22	18n 8	17n44	2s21		n.a.
S 2	23 25	12 15	2 10	25 1	1 22	13 10	0 6	16 27	0 59	11 8	1 29	11 16	2 11	18 4	0 42	4 55	1 58	30 46	12 22	18 7	17 45	2 24		n.a.
M 3	23 21	8 28	3 7	25 8	1 27	12 44	0n 0	16 12	0 58	11 9	1 30	11 16	2 11	18 3	0 42	4 56	1 58	30 46	12 21	18 7	17 45	2 26		n.a.
T 4	23 16	4 25	3 56	25 14	1 31	12 18	0 6	15 57	0 57	11 10	1 30	11 16	2 11	18 2	0 42	4 56	1 58	30 45	12 21	18 6	17 46	2 28		n.a.
W 5	23 10	0 14	4 33	25 18	1 36	11 51	0 13	15 42	0 57	11 11	1 30	11 16	2 11	18 1	0 42	4 56	1 58	30 45	12 21	18 6	17 47	2 30		n.a.
T 6	23 5	3s56	4 59	25 21	1 40	11 25	0 19	15 27	0 56	11 12	1 30	11 16	2 10	18 0	0 42	4 56	1 58	30 44	12 21	18 6	17 48	2 33		n.a.
F 7	22 59	7 58	5 12	25 22	1 43	10 58	0 26	15 11	0 55	11 13	1 31	11 16	2 10	17 59	0 42	4 56	1 58	30 44	12 21	18 7	17 49	2 35		n.a.
S 8	22 52	11 44	5 12	25 22	1 47	10 31	0 33	14 55	0 55	11 14	1 31	11 16	2 10	17 59	0 42	4 56	1 58	30 43	12 21	18 7	17 50	2 37		n.a.
S 9	22 45	15 5	4 58	25 20	1 50	10 4	0 40	14 40	0 54	11 16	1 31	11 17	2 9	17 58	0 42	4 56	1 58	30 43	12 21	18 8	17 51	2 39		n.a.
M10	22 37	17 49	4 29	25 17	1 53	9 38	0 47	14 24	0 53	11 17	1 32	11 17	2 9	17 57	0 42	4 56	1 58	30 42	12 21	18 9	17 52	2 42		n.a.
T 11	22 29	19 45	3 47	25 11	1 55	9 11	0 54	14 8	0 52	11 19	1 32	11 17	2 9	17 56	0 42	4 57	1 58	30 42	12 21	18 10	17 52	2 44		n.a.
W12	22 21	20 43	2 52	25 4	1 57	8 44	1 1	13 51	0 52	11 20	1 32	11 18	2 8	17 55	0 42	4 57	1 58	30 41	12 21	18 11	17 53	2 46		n.a.
T 13	22 12	20 32	1 46	24 55	1 59	8 17	1 9	13 35	0 51	11 22	1 32	11 18	2 8	17 54	0 42	4 57	1 58	30 41	12 21	18 12	17 54	2 48		n.a.
F 14	22 3	19 10	0 34	24 45	2 0	7 50	1 16	13 19	0 50	11 23	1 33	11 19	2 8	17 53	0 42	4 57	1 58	30 40	12 21	18 12	17 55	2 51		n.a.
S 15	21 53	16 40	0s42	24 32	2 1	7 23	1 24	13 2	0 50	11 25	1 33	11 19	2 7	17 52	0 42	4 57	1 58	30 40	12 21	18 12	17 56	2 53		n.a.
S 16	21 43	13 9	1 57	24 18	2 2	6 56	1 32	12 46	0 49	11 27	1 33	11 20	2 7	17 51	0 42	4 57	1 58	30 39	12 21	18 12	17 57	2 55		n.a.
M17	21 33	8 53	3 5	24 2	2 2	6 30	1 40	12 29	0 48	11 29	1 33	11 20	2 7	17 50	0 42	4 57	1 59	30 39	12 21	18 11	17 58	2 57		n.a.
T 18	21 22	4 6	4 2	23 44	2 1	6 3	1 48	12 12	0 48	11 31	1 34	11 21	2 7	17 49	0 42	4 57	1 59	30 38	12 21	18 11	17 58	3 0		n.a.
W19	21 11	0n55	4 45	23 24	2 1	5 36	1 56	11 55	0 47	11 33	1 34	11 21	2 6	17 48	0 42	4 57	1 59	30 38	12 20	18 11	17 59	3 2		n.a.
T 20	20 59	5 51	5 10	23 2	1 59	5 10	2 5	11 39	0 46	11 35	1 34	11 22	2 6	17 47	0 42	4 57	1 59	30 37	12 20	18 11	18 0	3 4		n.a.
F 21	20 47	10 28	5 16	22 38	1 57	4 44	2 13	11 22	0 46	11 37	1 35	11 23	2 6	17 46	0 42	4 57	1 59	30 37	12 20	18 11	18 1	3 7		n.a.
S 22	20 35	14 29	5 4	22 12	1 55	4 18	2 22	11 4	0 45	11 39	1 35	11 24	2 5	17 45	0 42	4 57	1 59	30 36	12 20	18 11	18 2	3 9		n.a.
S 23	20 22	17 39	4 33	21 44	1 52	3 52	2 31	10 47	0 44	11 41	1 35	11 24	2 5	17 44	0 42	4 56	1 59	30 36	12 20	18 11	18 3	3 11		n.a.
M24	20 9	19 47	3 47	21 14	1 48	3 26	2 39	10 30	0 44	11 43	1 35	11 25	2 5	17 43	0 42	4 56	1 59	30 36	12 20	18 12	18 4	3 13		n.a.
T 25	19 55	20 43	2 48	20 43	1 44	3 1	2 48	10 13	0 43	11 45	1 35	11 26	2 4	17 42	0 42	4 56	1 59	30 35	12 20	18 12	18 4	3 16		n.a.
W26	19 41	20 28	1 41	20 9	1 40	2 36	2 58	9 55	0 42	11 48	1 36	11 27	2 4	17 41	0 42	4 56	1 59	30 35	12 20	18 12	18 5	3 18		n.a.
T 27	19 27	19 5	0 30	19 33	1 34	2 11	3 7	9 38	0 42	11 50	1 36	11 28	2 4	17 40	0 42	4 56	1 59	30 34	12 20	18 12	18 6	3 20		n.a.
F 28	19 12	16 43	0n41	18 56	1 28	1 47	3 16	9 20	0 41	11 53	1 36	11 29	2 4	17 39	0 42	4 56	1 59	30 34	12 21	18 12	18 7	3 22		n.a.
S 29	18 57	13 36	1 49	18 17	1 22	1 23	3 25	9 3	0 40	11 55	1 36	11 30	2 3	17 38	0 42	4 56	1 59	30 33	12 21	18 12	18 8	3 25		n.a.
S 30	18 42	9 56	2 51	17 36	1 14	0 59	3 35	8 45	0 39	11 57	1 37	11 31	2 3	17 37	0 42	4 56	1 59	30 33	12 21	18 12	18 9	3 27		n.a.
M31	18s27	5n56	3n43	16s54	1s 6	0s36	3n45	8s27	0s39	12n 0	1n37	11n32	2s 3	17s36	0s42	4s55	1n59	30s32	12s21	18n12	18n10	3s29		n.a.

Julian Day Number = 1656043.5, Delta T = 03h28m21s
Ecliptic obliquity = 23°42'54, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'21, Lahiri = - 6°25'21 Julian Calendar 1 Jan. 179 BCE == Greg. Calendar 29 Dec. 180 BCE

The year -178 astronomical counting style corresponds to year 179 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 179 BCE
geocentric

FEBRUARY 179 BCE (-178) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 29 23	9♒ 7'56	5♎45	19♒10	20♓30	10♓52	2°R57	5♉25	13♒38	17°R 1	7♒21	9°R 4	9♌ 9	20♎20	n.a.	T 1
W 2	8 33 19	10° 8'00	17°40	21° 3	21° 4	11°36	2♏51	5°27	13°41	17♎ 0	7°23	9♌ 4	9° 6	20°26	n.a.	W 2
T 3	8 37 16	11° 8'03	29°32	22°55	21°36	12°21	2°44	5°30	13°45	17° 0	7°24	9° 4	9° 3	20°33	n.a.	T 3
F 4	8 41 12	12° 8'03	11♏27	24°46	22° 7	13° 5	2°37	5°33	13°48	16°59	7°26	9°D 4	8°59	20°40	n.a.	F 4
S 5	8 45 9	13° 8'02	23°28	26°36	22°36	13°50	2°30	5°36	13°51	16°59	7°28	9° 4	8°56	20°46	n.a.	S 5
S 6	8 49 6	14° 8'00	5♐40	28°23	23° 4	14°34	2°23	5°39	13°55	16°58	7°29	9° 4	8°53	20°53	n.a.	S 6
M 7	8 53 2	15° 7'55	18° 8	0♓ 7	23°30	15°18	2°16	5°42	13°58	16°58	7°31	9° 4	8°50	21° 0	n.a.	M 7
T 8	8 56 59	16° 7'49	0♑55	1°49	23°54	16° 3	2° 9	5°45	14° 2	16°57	7°33	9° 5	8°47	21° 7	n.a.	T 8
W 9	9 0 55	17° 7'41	14° 4	3°26	24°16	16°47	2° 2	5°49	14° 5	16°57	7°34	9° 6	8°44	21°13	n.a.	W 9
T 10	9 4 52	18° 7'31	27°35	5° 0	24°37	17°31	1°54	5°52	14° 9	16°56	7°36	9° 6	8°40	21°20	n.a.	T 10
F 11	9 8 48	19° 7'19	11♒28	6°29	24°55	18°15	1°47	5°56	14°12	16°56	7°37	9°R 7	8°37	21°27	n.a.	F 11
S 12	9 12 45	20° 7'05	25°40	7°52	25°12	18°59	1°40	5°59	14°16	16°55	7°39	9° 6	8°34	21°33	n.a.	S 12
S 13	9 16 41	21° 6'48	10♓ 7	9°10	25°26	19°44	1°32	6° 3	14°19	16°54	7°41	9° 5	8°31	21°40	n.a.	S 13
M14	9 20 38	22° 6'30	24°43	10°22	25°39	20°28	1°25	6° 7	14°22	16°53	7°42	9° 4	8°28	21°47	n.a.	M14
T 15	9 24 34	23° 6'09	9♈20	11°27	25°49	21°12	1°17	6°11	14°26	16°53	7°44	9° 2	8°25	21°54	n.a.	T 15
W16	9 28 31	24° 5'46	23°54	12°26	25°57	21°56	1° 9	6°15	14°29	16°52	7°46	9° 0	8°21	22° 0	n.a.	W16
T 17	9 32 28	25° 5'20	8♉19	13°17	26° 2	22°39	1° 2	6°19	14°33	16°51	7°47	8°59	8°18	22° 7	n.a.	T 17
F 18	9 36 24	26° 4'52	22°31	14° 1	26° 6	23°23	0°54	6°23	14°36	16°50	7°49	8°D58	8°15	22°14	n.a.	F 18
S 19	9 40 21	27° 4'22	6♊28	14°36	26°R 6	24° 7	0°46	6°27	14°39	16°49	7°50	8°59	8°12	22°21	n.a.	S 19
S 20	9 44 17	28° 3'49	20°11	15° 4	26° 5	24°51	0°39	6°32	14°43	16°48	7°52	9° 0	8° 9	22°27	n.a.	S 20
M21	9 48 14	29° 3'14	3♋38	15°24	26° 1	25°35	0°31	6°36	14°46	16°47	7°53	9° 1	8° 5	22°34	n.a.	M21
T 22	9 52 10	0♓ 2'36	16°50	15°36	25°54	26°18	0°23	6°41	14°49	16°46	7°55	9° 2	8° 2	22°41	n.a.	T 22
W23	9 56 7	1° 1'57	29°49	15°R40	25°45	27° 2	0°15	6°46	14°53	16°45	7°57	9° 3	7°59	22°47	n.a.	W23
T 24	10 0 3	2° 1'14	12♌36	15°37	25°33	27°45	0° 8	6°50	14°56	16°44	7°58	9°R 4	7°56	22°54	n.a.	T 24
F 25	10 4 0	3° 0'30	25°10	15°26	25°19	28°29	29♌59	6°55	14°59	16°43	8° 0	9° 3	7°53	23° 1	n.a.	F 25
S 26	10 7 57	3°59'43	7♍34	15° 8	25° 2	29°12	29°52	7° 0	15° 3	16°42	8° 1	9° 1	7°50	23° 8	n.a.	S 26
S 27	10 11 53	4°58'54	19°48	14°43	24°43	29°56	29°44	7° 5	15° 6	16°41	8° 3	8°57	7°46	23°14	n.a.	S 27
M28	10 15 50	5♓58'03	1♎54	14♓13	24♓22	0♈39	29♌37	7♉10	15♒ 9	16♎40	8♒ 4	8♌53	7♌43	23♎21	n.a.	M28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s11	1n44	4n25	16s10	0s58	0s13	3n54	8s10	0s38	12n 3	1n37	11n33	2s 2	17s35	0s42	4s55	2n 0	30s32	12s21	18n12	18n10	3s31		n.a.
W 2	17 54	2s28	4 55	15 25	0 49	0n 9	4 4	7 52	0 37	12 5	1 37	11 34	2 2	17 34	0 42	4 55	2 0	30 32	12 21	18 12	18 11	3 34		n.a.
T 3	17 38	6 34	5 13	14 38	0 39	0 31	4 14	7 34	0 37	12 8	1 37	11 36	2 2	17 33	0 42	4 55	2 0	30 31	12 21	18 12	18 12	3 36		n.a.
F 4	17 21	10 25	5 17	13 51	0 28	0 52	4 24	7 16	0 36	12 10	1 37	11 37	2 2	17 32	0 42	4 55	2 0	30 31	12 21	18 12	18 13	3 38		n.a.
S 5	17 4	13 54	5 7	13 3	0 17	1 13	4 34	6 58	0 35	12 13	1 38	11 38	2 1	17 31	0 42	4 54	2 0	30 30	12 21	18 12	18 14	3 40		n.a.
S 6	16 47	16 51	4 44	12 15	0 5	1 33	4 44	6 40	0 35	12 16	1 38	11 39	2 1	17 30	0 42	4 54	2 0	30 30	12 21	18 12	18 15	3 43		n.a.
M 7	16 29	19 5	4 7	11 27	0n 7	1 53	4 54	6 22	0 34	12 18	1 38	11 41	2 1	17 29	0 42	4 54	2 0	30 30	12 21	18 12	18 16	3 45		n.a.
T 8	16 11	20 26	3 16	10 39	0 20	2 11	5 4	6 4	0 33	12 21	1 38	11 42	2 0	17 28	0 42	4 54	2 0	30 29	12 21	18 11	18 16	3 47		n.a.
W 9	15 53	20 44	2 14	9 51	0 33	2 30	5 14	5 46	0 32	12 24	1 38	11 43	2 0	17 27	0 42	4 53	2 0	30 29	12 21	18 11	18 17	3 50		n.a.
T 10	15 34	19 51	1 3	9 4	0 46	2 47	5 24	5 28	0 32	12 27	1 38	11 45	2 0	17 26	0 42	4 53	2 0	30 29	12 21	18 11	18 18	3 52		n.a.
F 11	15 16	17 45	0s13	8 19	1 0	3 4	5 34	5 10	0 31	12 30	1 39	11 46	2 0	17 25	0 42	4 53	2 0	30 28	12 21	18 11	18 19	3 54		n.a.
S 12	14 57	14 32	1 30	7 34	1 14	3 19	5 44	4 52	0 30	12 32	1 39	11 48	1 59	17 24	0 42	4 52	2 0	30 28	12 21	18 11	18 20	3 56		n.a.
S 13	14 37	10 23	2 43	6 52	1 28	3 34	5 54	4 34	0 30	12 35	1 39	11 49	1 59	17 23	0 42	4 52	2 0	30 27	12 22	18 11	18 21	3 59		n.a.
M14	14 18	5 35	3 46	6 12	1 41	3 48	6 4	4 16	0 29	12 38	1 39	11 51	1 59	17 22	0 42	4 52	2 0	30 27	12 22	18 12	18 21	4 1		n.a.
T 15	13 58	0 28	4 35	5 35	1 55	4 1	6 13	3 58	0 28	12 41	1 39	11 52	1 59	17 21	0 42	4 51	2 0	30 27	12 22	18 12	18 22	4 3		n.a.
W16	13 39	4n39	5 5	5 0	2 8	4 13	6 23	3 40	0 28	12 44	1 39	11 54	1 58	17 20	0 42	4 51	2 0	30 26	12 22	18 13	18 23	4 5		n.a.
T 17	13 18	9 27	5 16	4 29	2 21	4 24	6 33	3 21	0 27	12 47	1 39	11 55	1 58	17 19	0 42	4 51	2 1	30 26	12 22	18 13	18 24	4 8		n.a.
F 18	12 58	13 40	5 7	4 0	2 33	4 34	6 42	3 3	0 26	12 49	1 39	11 57	1 58	17 18	0 42	4 50	2 1	30 26	12 22	18 13	18 25	4 10		n.a.
S 19	12 38	17 2	4 40	3 36	2 45	4 42	6 51	2 45	0 26	12 52	1 39	11 59	1 57	17 17	0 42	4 50	2 1	30 26	12 22	18 13	18 26	4 12		n.a.
S 20	12 17	19 23	3 58	3 15	2 56	4 50	7 0	2 27	0 25	12 55	1 39	12 0	1 57	17 16	0 42	4 49	2 1	30 25	12 22	18 13	18 26	4 15		n.a.
M21	11 56	20 37	3 3	2 58	3 6	4 56	7 8	2 9	0 24	12 58	1 39	12 2	1 57	17 15	0 42	4 49	2 1	30 25	12 23	18 13	18 27	4 17		n.a.
T 22	11 35	20 40	1 59	2 46	3 14	5 1	7 16	1 51	0 24	13 1	1 40	12 4	1 57	17 14	0 42	4 49	2 1	30 25	12 23	18 12	18 28	4 19		n.a.
W23	11 14	19 36	0 51	2 37	3 22	5 4	7 24	1 33	0 23	13 4	1 40	12 6	1 56	17 13	0 42	4 48	2 1	30 24	12 23	18 12	18 29	4 21		n.a.
T 24	10 53	17 32	0n19	2 33	3 28	5 7	7 32	1 14	0 22	13 6	1 40	12 8	1 56	17 12	0 42	4 48	2 1	30 24	12 23	18 12	18 30	4 24		n.a.
F 25	10 31	14 39	1 27	2 33	3 33	5 7	7 39	0 56	0 21	13 9	1 40	12 9	1 56	17 11	0 42	4 47	2 1	30 24	12 23	18 12	18 31	4 26		n.a.
S 26	10 9	11 9	2 30	2 37	3 36	5 6	7 45	0 38	0 21	13 12	1 40	12 11	1 56	17 11	0 42	4 47	2 1	30 23	12 23	18 13	18 31	4 28		n.a.
S 27	9 48	7 13	3 25	2 45	3 37	5 4	7 51	0 20	0 20	13 15	1 40	12 13	1 55	17 10	0 42	4 46	2 1	30 23	12 24	18 14	18 32	4 30		n.a.
M28	9s26	3n 3	4n10	2s57	3n37	5n 1	7n56	0s 2	0s19	13n18	1n40	12n15	1s55	17s 9	0s42	4s46	2n 1	30s23	12s24	18n15	18n33	4s33		n.a.

Julian Day Number = 1656074.5, Delta T = 03h28m20s
Ecliptic obliquity = 23°42'55, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'17, Lahiri = - 6°25'17 Julian Calendar 1 Feb. 179 BCE == Greg. Calendar 29 Jan. 179 BCE

The year -178 astronomical counting style corresponds to year 179 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 179 BCE
geocentric

MARCH 179 BCE (-178) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 19 46	6♓57'10	13♎52	13°R37	23°R58	1♈22	29°R29	7♉15	15♒13	16°R39	8♒ 6	8°R48	7♌40	23♎28	n.a.	T 1
W 2	10 23 43	7°56'15	25°46	12♓57	23♓32	2° 6	29♌21	7°20	15°16	16♎38	8° 7	8♌43	7°37	23°34	n.a.	W 2
T 3	10 27 39	8°55'18	7♏39	12°13	23° 4	2°49	29°14	7°26	15°19	16°37	8° 9	8°39	7°34	23°41	n.a.	T 3
F 4	10 31 36	9°54'19	19°32	11°27	22°34	3°32	29° 6	7°31	15°22	16°35	8°10	8°35	7°30	23°48	n.a.	F 4
S 5	10 35 32	10°53'18	1♐32	10°39	22° 3	4°15	28°59	7°36	15°25	16°34	8°11	8°33	7°27	23°55	n.a.	S 5
S 6	10 39 29	11°52'16	13°42	9°51	21°30	4°58	28°51	7°42	15°29	16°33	8°13	8°D33	7°24	24° 1	n.a.	S 6
M 7	10 43 25	12°51'11	26° 6	9° 2	20°55	5°41	28°44	7°47	15°32	16°32	8°14	8°34	7°21	24° 8	n.a.	M 7
T 8	10 47 22	13°50'05	8♑50	8°15	20°20	6°24	28°37	7°53	15°35	16°30	8°16	8°35	7°18	24°15	n.a.	T 8
W 9	10 51 19	14°48'57	21°57	7°30	19°43	7° 7	28°29	7°59	15°38	16°29	8°17	8°37	7°15	24°21	n.a.	W 9
T 10	10 55 15	15°47'47	5♒30	6°47	19° 6	7°50	28°22	8° 5	15°41	16°28	8°18	8°R38	7°11	24°28	n.a.	T 10
F 11	10 59 12	16°46'35	19°31	6° 8	18°28	8°33	28°15	8°11	15°44	16°26	8°20	8°37	7° 8	24°35	n.a.	F 11
S 12	11 3 8	17°45'21	3♓56	5°33	17°50	9°16	28° 8	8°16	15°47	16°25	8°21	8°35	7° 5	24°42	n.a.	S 12
S 13	11 7 5	18°44'05	18°42	5° 3	17°12	9°59	28° 1	8°22	15°50	16°24	8°23	8°31	7° 2	24°48	n.a.	S 13
M14	11 11 1	19°42'47	3♈41	4°37	16°34	10°41	27°55	8°29	15°53	16°22	8°24	8°25	6°59	24°55	n.a.	M14
T 15	11 14 58	20°41'27	18°44	4°16	15°57	11°24	27°48	8°35	15°56	16°21	8°25	8°19	6°56	25° 2	n.a.	T 15
W16	11 18 54	21°40'05	3♉43	4° 0	15°21	12° 7	27°41	8°41	15°59	16°19	8°26	8°13	6°52	25° 8	n.a.	W16
T 17	11 22 51	22°38'41	18°27	3°49	14°45	12°49	27°35	8°47	16° 2	16°18	8°28	8° 8	6°49	25°15	n.a.	T 17
F 18	11 26 48	23°37'14	2♊52	3°44	14°11	13°32	27°28	8°53	16° 5	16°16	8°29	8° 4	6°46	25°22	n.a.	F 18
S 19	11 30 44	24°35'45	16°55	3°D44	13°38	14°14	27°22	9° 0	16° 8	16°15	8°30	8° 2	6°43	25°29	n.a.	S 19
S 20	11 34 41	25°34'14	0♋34	3°49	13° 7	14°57	27°16	9° 6	16°11	16°14	8°31	8°D 2	6°40	25°35	n.a.	S 20
M21	11 38 37	26°32'40	13°52	3°59	12°37	15°39	27°10	9°13	16°14	16°12	8°33	8° 3	6°36	25°42	n.a.	M21
T 22	11 42 34	27°31'04	26°50	4°14	12° 9	16°21	27° 4	9°19	16°16	16°11	8°34	8° 4	6°33	25°49	n.a.	T 22
W23	11 46 30	28°29'26	9♌32	4°33	11°44	17° 4	26°58	9°26	16°19	16° 9	8°35	8°R 4	6°30	25°56	n.a.	W23
T 24	11 50 27	29°27'46	22° 1	4°57	11°20	17°46	26°53	9°32	16°22	16° 7	8°36	8° 3	6°27	26° 2	n.a.	T 24
F 25	11 54 23	0♈26'03	4♍19	5°25	10°59	18°28	26°47	9°39	16°25	16° 6	8°37	8° 0	6°24	26° 9	n.a.	F 25
S 26	11 58 20	1°24'19	16°30	5°58	10°40	19°10	26°42	9°46	16°27	16° 4	8°38	7°55	6°21	26°16	n.a.	S 26
S 27	12 2 16	2°22'33	28°33	6°34	10°24	19°52	26°37	9°53	16°30	16° 3	8°39	7°47	6°17	26°22	n.a.	S 27
M28	12 6 13	3°20'44	10♎32	7°15	10°10	20°34	26°32	9°59	16°33	16° 1	8°40	7°37	6°14	26°29	n.a.	M28
T 29	12 10 10	4°18'54	22°27	7°59	9°58	21°16	26°27	10° 6	16°35	16° 0	8°42	7°26	6°11	26°36	n.a.	T 29
W30	12 14 6	5°17'02	4♏19	8°47	9°49	21°58	26°22	10°13	16°38	15°58	8°43	7°15	6° 8	26°43	n.a.	W30
T 31	12 18 3	6♈15'09	16♏12	9♓38	9♓42	22♈40	26♌17	10♉20	16♒40	15♎56	8♒44	7♌ 5	6♌ 5	26♎49	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	9s 4	1s11	4n44	3s12	3n35	4n55	8n 1	0n16	0s19	13n20	1n40	12n17	1s55	17s 8	0s42	4s45	2n 1	30s23	12s24	18n16	18n34	4s35			n.a.
W 2	8 41	5 21	5 5	3 31	3 32	4 49	8 5	0 34	0 18	13 23	1 40	12 19	1 55	17 7	0 42	4 45	2 1	30 23	12 24	18 17	18 35	4 37			n.a.
T 3	8 19	9 18	5 12	3 53	3 26	4 41	8 8	0 52	0 17	13 26	1 40	12 21	1 55	17 6	0 42	4 44	2 1	30 22	12 24	18 19	18 36	4 40			n.a.
F 4	7 57	12 54	5 7	4 17	3 19	4 31	8 11	1 10	0 17	13 28	1 40	12 23	1 54	17 5	0 42	4 44	2 1	30 22	12 24	18 19	18 36	4 42			n.a.
S 5	7 34	16 0	4 48	4 43	3 10	4 20	8 12	1 28	0 16	13 31	1 40	12 25	1 54	17 4	0 42	4 43	2 1	30 22	12 25	18 20	18 37	4 44			n.a.
S 6	7 11	18 29	4 16	5 11	3 0	4 8	8 13	1 46	0 15	13 34	1 40	12 27	1 54	17 3	0 42	4 43	2 1	30 22	12 25	18 20	18 38	4 46			n.a.
M 7	6 49	20 8	3 31	5 40	2 49	3 54	8 13	2 4	0 15	13 36	1 40	12 29	1 54	17 2	0 42	4 42	2 1	30 21	12 25	18 20	18 39	4 49			n.a.
T 8	6 26	20 50	2 35	6 10	2 36	3 39	8 12	2 21	0 14	13 39	1 40	12 31	1 53	17 1	0 42	4 42	2 1	30 21	12 25	18 19	18 40	4 51			n.a.
W 9	6 3	20 26	1 30	6 39	2 22	3 23	8 10	2 39	0 13	13 41	1 39	12 33	1 53	17 0	0 42	4 41	2 1	30 21	12 25	18 19	18 40	4 53			n.a.
T 10	5 40	18 50	0 17	7 9	2 8	3 6	8 7	2 57	0 13	13 44	1 39	12 35	1 53	16 59	0 42	4 41	2 2	30 21	12 26	18 19	18 41	4 55			n.a.
F 11	5 17	16 4	0s59	7 37	1 53	2 48	8 3	3 15	0 12	13 46	1 39	12 37	1 53	16 58	0 42	4 40	2 2	30 21	12 26	18 19	18 42	4 58			n.a.
S 12	4 54	12 15	2 13	8 5	1 37	2 28	7 59	3 32	0 11	13 48	1 39	12 39	1 53	16 57	0 42	4 40	2 2	30 21	12 26	18 19	18 43	5 0			n.a.
S 13	4 30	7 35	3 20	8 31	1 21	2 9	7 53	3 50	0 11	13 51	1 39	12 41	1 52	16 57	0 42	4 39	2 2	30 20	12 26	18 21	18 44	5 2			n.a.
M14	4 7	2 24	4 14	8 55	1 5	1 48	7 47	4 7	0 10	13 53	1 39	12 43	1 52	16 56	0 42	4 38	2 2	30 20	12 27	18 22	18 44	5 5			n.a.
T 15	3 44	2n56	4 51	9 18	0 49	1 27	7 40	4 25	0 9	13 55	1 39	12 46	1 52	16 55	0 42	4 38	2 2	30 20	12 27	18 24	18 45	5 7			n.a.
W16	3 20	8 4	5 8	9 38	0 34	1 6	7 32	4 42	0 9	13 58	1 39	12 48	1 52	16 54	0 42	4 37	2 2	30 20	12 27	18 25	18 46	5 9			n.a.
T 17	2 57	12 39	5 4	9 56	0 18	0 44	7 23	5 0	0 8	14 0	1 39	12 50	1 52	16 53	0 42	4 37	2 2	30 20	12 27	18 27	18 47	5 11			n.a.
F 18	2 34	16 23	4 41	10 12	0 3	0 22	7 14	5 17	0 7	14 2	1 39	12 52	1 51	16 52	0 42	4 36	2 2	30 20	12 28	18 28	18 48	5 14			n.a.
S 19	2 10	19 4	4 1	10 26	0s12	0 0	7 4	5 34	0 7	14 4	1 39	12 54	1 51	16 51	0 42	4 35	2 2	30 20	12 28	18 28	18 49	5 16			n.a.
S 20	1 47	20 35	3 8	10 37	0 26	0s22	6 53	5 52	0 6	14 6	1 39	12 57	1 51	16 50	0 42	4 35	2 2	30 20	12 28	18 28	18 49	5 18			n.a.
M21	1 23	20 53	2 7	10 46	0 39	0 43	6 42	6 9	0 6	14 8	1 38	12 59	1 51	16 50	0 42	4 34	2 2	30 19	12 28	18 28	18 50	5 21			n.a.
T 22	1 0	20 3	1 0	10 53	0 52	1 4	6 30	6 26	0 5	14 10	1 38	13 1	1 51	16 49	0 42	4 34	2 2	30 19	12 29	18 28	18 51	5 23			n.a.
W23	0 36	18 12	0n 8	10 57	1 5	1 25	6 18	6 43	0 4	14 12	1 38	13 3	1 50	16 48	0 42	4 33	2 2	30 19	12 29	18 28	18 52	5 25			n.a.
T 24	0 13	15 30	1 14	10 59	1 16	1 46	6 6	7 0	0 4	14 14	1 38	13 6	1 50	16 47	0 42	4 32	2 2	30 19	12 29	18 28	18 53	5 27			n.a.
F 25	0n10	12 9	2 16	10 59	1 27	2 5	5 53	7 16	0 3	14 15	1 38	13 8	1 50	16 46	0 42	4 32	2 2	30 19	12 29	18 29	18 53	5 30			n.a.
S 26	0 34	8 19	3 11	10 56	1 38	2 25	5 40	7 33	0 2	14 17	1 38	13 10	1 50	16 46	0 42	4 31	2 2	30 19	12 30	18 30	18 54	5 32			n.a.
S 27	0 57	4 12	3 57	10 52	1 47	2 43	5 27	7 50	0 2	14 19	1 38	13 13	1 50	16 45	0 42	4 31	2 2	30 19	12 30	18 32	18 55	5 34			n.a.
M28	1 21	0s 4	4 31	10 45	1 56	3 1	5 14	8 7	0 1	14 20	1 37	13 15	1 49	16 44	0 43	4 30	2 2	30 19	12 30	18 35	18 56	5 37			n.a.
T 29	1 44	4 17	4 54	10 35	2 4	3 17	5 0	8 23	0 0	14 22	1 37	13 17	1 49	16 43	0 43	4 29	2 2	30 19	12 31	18 37	18 57	5 39			n.a.
W30	2 7	8 21	5 4	10 24	2 12	3 33	4 47	8 40	0n 0	14 23	1 37	13 20	1 49	16 43	0 43	4 29	2 2	30 19	12 31	18 40	18 57	5 41			n.a.
T 31	2n31	12s 5	5n 0	10s11	2s19	3s48	4n34	8n56	0n 1	14n25	1n37	13n22	1s49	16s42	0s43	4s28	2n 2	30s19	12s31	18n43	18n58	5s43			n.a.

Julian Day Number = 1656102.5, Delta T = 03h28m19s
Ecliptic obliquity = 23°42'56, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'13, Lahiri = - 6°25'13 Julian Calendar 1 March 179 BCE == Greg. Calendar 26 Feb. 179 BCE

The year -178 astronomical counting style corresponds to year 179 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 179 BCE
geocentric

APRIL 179 BCE (-178) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 21 59	7♈13'14	28♏ 6	10♓32	9°R38	23♈22	26°R13	10♉27	16♒43	15°R55	8♒45	6°R57	6♌ 1	26♎56	n.a.	F 1
S 2	12 25 56	8°11'17	10♐ 6	11°29	9°D36	24° 4	26♌ 9	10°34	16°45	15♎53	8°46	6♌51	5°58	27° 3	n.a.	S 2
S 3	12 29 52	9° 9'19	22°15	12°30	9♓36	24°46	26° 5	10°41	16°48	15°52	8°46	6°47	5°55	27° 9	n.a.	S 3
M 4	12 33 49	10° 7'19	4♑36	13°33	9°39	25°27	26° 1	10°49	16°50	15°50	8°47	6°46	5°52	27°16	n.a.	M 4
T 5	12 37 45	11° 5'18	17°16	14°39	9°44	26° 9	25°57	10°56	16°52	15°48	8°48	6°D46	5°49	27°23	n.a.	T 5
W 6	12 41 42	12° 3'16	0♒18	15°47	9°52	26°51	25°53	11° 3	16°55	15°47	8°49	6°R46	5°46	27°30	n.a.	W 6
T 7	12 45 39	13° 1'12	13°46	16°59	10° 1	27°32	25°50	11°10	16°57	15°45	8°50	6°46	5°42	27°36	n.a.	T 7
F 8	12 49 35	13°59'07	27°42	18°13	10°13	28°14	25°46	11°18	16°59	15°44	8°51	6°44	5°39	27°43	n.a.	F 8
S 9	12 53 32	14°57'00	12♓ 7	19°29	10°27	28°56	25°43	11°25	17° 1	15°42	8°52	6°40	5°36	27°50	n.a.	S 9
S 10	12 57 28	15°54'52	26°57	20°47	10°43	29°37	25°40	11°32	17° 3	15°40	8°53	6°34	5°33	27°57	n.a.	S 10
M11	13 1 25	16°52'42	12♈ 6	22° 9	11° 0	0♉18	25°38	11°40	17° 6	15°39	8°53	6°25	5°30	28° 3	n.a.	M11
T 12	13 5 21	17°50'31	27°24	23°32	11°20	1° 0	25°35	11°47	17° 8	15°37	8°54	6°15	5°27	28°10	n.a.	T 12
W13	13 9 18	18°48'18	12♉39	24°57	11°41	1°41	25°33	11°55	17°10	15°35	8°55	6° 5	5°23	28°17	n.a.	W13
T 14	13 13 14	19°46'04	27°40	26°25	12° 4	2°22	25°30	12° 2	17°12	15°34	8°56	5°56	5°20	28°23	n.a.	T 14
F 15	13 17 11	20°43'48	12♊20	27°55	12°29	3° 4	25°28	12°10	17°14	15°32	8°56	5°49	5°17	28°30	n.a.	F 15
S 16	13 21 8	21°41'30	26°33	29°27	12°55	3°45	25°27	12°17	17°16	15°31	8°57	5°45	5°14	28°37	n.a.	S 16
S 17	13 25 4	22°39'11	10♋18	1♈ 2	13°23	4°26	25°25	12°25	17°17	15°29	8°58	5°43	5°11	28°44	n.a.	S 17
M18	13 29 1	23°36'49	23°37	2°38	13°53	5° 7	25°23	12°32	17°19	15°27	8°58	5°D43	5° 7	28°50	n.a.	M18
T 19	13 32 57	24°34'27	6♌31	4°17	14°24	5°48	25°22	12°40	17°21	15°26	8°59	5°R43	5° 4	28°57	n.a.	T 19
W20	13 36 54	25°32'02	19° 7	5°58	14°56	6°29	25°21	12°48	17°23	15°24	8°59	5°42	5° 1	29° 4	n.a.	W20
T 21	13 40 50	26°29'36	1♍27	7°41	15°29	7°10	25°20	12°55	17°25	15°23	9° 0	5°40	4°58	29°10	n.a.	T 21
F 22	13 44 47	27°27'08	13°35	9°26	16° 4	7°51	25°19	13° 3	17°26	15°21	9° 0	5°35	4°55	29°17	n.a.	F 22
S 23	13 48 43	28°24'39	25°36	11°14	16°40	8°32	25°19	13°11	17°28	15°19	9° 1	5°28	4°52	29°24	n.a.	S 23
S 24	13 52 40	29°22'09	7♎33	13° 3	17°18	9°13	25°18	13°18	17°29	15°18	9° 1	5°17	4°48	29°31	n.a.	S 24
M25	13 56 37	0♉19'37	19°26	14°55	17°56	9°54	25°18	13°26	17°31	15°16	9° 2	5° 5	4°45	29°37	n.a.	M25
T 26	14 0 33	1°17'04	1♏19	16°48	18°36	10°35	25°D18	13°34	17°32	15°15	9° 2	4°51	4°42	29°44	n.a.	T 26
W27	14 4 30	2°14'30	13°12	18°44	19°16	11°16	25°18	13°42	17°34	15°13	9° 3	4°37	4°39	29°51	n.a.	W27
T 28	14 8 26	3°11'55	25° 7	20°42	19°58	11°56	25°18	13°50	17°35	15°12	9° 3	4°24	4°36	29°58	n.a.	T 28
F 29	14 12 23	4° 9'18	7♐ 5	22°42	20°41	12°37	25°19	13°57	17°37	15°10	9° 4	4°13	4°32	0♏ 4	n.a.	F 29
S 30	14 16 19	5♉ 6'41	19♐10	24♈43	21♓24	13♉18	25♌19	14♉ 5	17♒38	15♎ 9	9♒ 4	4♌ 5	4♌29	0♏11	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	2n54	15s21	4n44	9s56	2s25	4s 2	4n20	9n12	0n 1	14n26	1n37	13n24	1s49	16s41	0s43	4s27	2n 2	30s19	12s31	18n45	18n59	5s46		n.a.
S 2	3 17	18 1	4 15	9 39	2 30	4 15	4 7	9 28	0 2	14 28	1 37	13 27	1 49	16 40	0 43	4 27	2 2	30 19	12 32	18 46	19 0	5 48		n.a.
S 3	3 40	19 55	3 34	9 20	2 35	4 27	3 54	9 44	0 3	14 29	1 36	13 29	1 48	16 40	0 43	4 26	2 2	30 19	12 32	18 47	19 1	5 50		n.a.
M 4	4 3	20 56	2 43	8 59	2 39	4 38	3 41	10 0	0 3	14 30	1 36	13 32	1 48	16 39	0 43	4 26	2 2	30 19	12 32	18 48	19 1	5 52		n.a.
T 5	4 26	20 54	1 42	8 36	2 42	4 48	3 28	10 16	0 4	14 31	1 36	13 34	1 48	16 38	0 43	4 25	2 2	30 19	12 33	18 48	19 2	5 55		n.a.
W 6	4 49	19 46	0 34	8 12	2 45	4 57	3 15	10 32	0 5	14 32	1 36	13 36	1 48	16 38	0 43	4 24	2 2	30 19	12 33	18 48	19 3	5 57		n.a.
T 7	5 12	17 29	0s37	7 46	2 47	5 5	3 2	10 48	0 5	14 33	1 36	13 39	1 48	16 37	0 43	4 24	2 2	30 19	12 33	18 48	19 4	5 59		n.a.
F 8	5 35	14 7	1 49	7 18	2 49	5 12	2 50	11 3	0 6	14 34	1 35	13 41	1 48	16 36	0 43	4 23	2 2	30 19	12 34	18 48	19 4	6 2		n.a.
S 9	5 57	9 48	2 56	6 48	2 50	5 18	2 38	11 19	0 6	14 35	1 35	13 44	1 48	16 36	0 43	4 22	2 2	30 19	12 34	18 49	19 5	6 4		n.a.
S 10	6 20	4 47	3 53	6 17	2 50	5 23	2 26	11 34	0 7	14 36	1 35	13 46	1 47	16 35	0 43	4 22	2 2	30 19	12 34	18 51	19 6	6 6		n.a.
M11	6 42	0n37	4 35	5 45	2 49	5 28	2 14	11 50	0 8	14 37	1 35	13 48	1 47	16 34	0 43	4 21	2 2	30 19	12 35	18 53	19 7	6 8		n.a.
T 12	7 5	6 2	4 58	5 10	2 48	5 31	2 2	12 5	0 8	14 37	1 35	13 51	1 47	16 34	0 43	4 20	2 2	30 20	12 35	18 55	19 8	6 11		n.a.
W13	7 27	11 3	5 0	4 34	2 47	5 33	1 51	12 20	0 9	14 38	1 34	13 53	1 47	16 33	0 43	4 20	2 2	30 20	12 35	18 58	19 8	6 13		n.a.
T 14	7 49	15 19	4 41	3 57	2 45	5 34	1 40	12 35	0 9	14 38	1 34	13 56	1 47	16 33	0 43	4 19	2 2	30 20	12 36	19 0	19 9	6 15		n.a.
F 15	8 11	18 31	4 3	3 18	2 42	5 35	1 29	12 50	0 10	14 39	1 34	13 58	1 47	16 32	0 43	4 19	2 2	30 20	12 36	19 2	19 10	6 18		n.a.
S 16	8 33	20 29	3 12	2 38	2 38	5 34	1 19	13 5	0 11	14 39	1 34	14 1	1 47	16 31	0 43	4 18	2 2	30 20	12 36	19 3	19 11	6 20		n.a.
S 17	8 55	21 9	2 10	1 57	2 34	5 33	1 9	13 19	0 11	14 40	1 34	14 3	1 47	16 31	0 43	4 17	2 2	30 20	12 37	19 4	19 12	6 22		n.a.
M18	9 16	20 35	1 4	1 14	2 30	5 31	0 59	13 34	0 12	14 40	1 33	14 5	1 46	16 30	0 43	4 17	2 2	30 20	12 37	19 4	19 12	6 24		n.a.
T 19	9 38	18 56	0n 4	0 29	2 25	5 27	0 49	13 48	0 12	14 40	1 33	14 8	1 46	16 30	0 43	4 16	2 2	30 20	12 37	19 4	19 13	6 27		n.a.
W20	9 59	16 23	1 10	0n16	2 19	5 24	0 40	14 3	0 13	14 40	1 33	14 10	1 46	16 29	0 43	4 15	2 2	30 21	12 38	19 4	19 14	6 29		n.a.
T 21	10 20	13 8	2 12	1 3	2 13	5 19	0 30	14 17	0 14	14 41	1 33	14 13	1 46	16 29	0 43	4 15	2 2	30 21	12 38	19 4	19 15	6 31		n.a.
F 22	10 41	9 23	3 6	1 51	2 6	5 14	0 22	14 31	0 14	14 41	1 32	14 15	1 46	16 28	0 43	4 14	2 2	30 21	12 38	19 6	19 15	6 34		n.a.
S 23	11 2	5 18	3 51	2 40	1 59	5 7	0 13	14 45	0 15	14 41	1 32	14 18	1 46	16 28	0 43	4 14	2 2	30 21	12 39	19 7	19 16	6 36		n.a.
S 24	11 23	1 2	4 26	3 30	1 52	5 0	0 4	14 58	0 15	14 41	1 32	14 20	1 46	16 27	0 43	4 13	2 2	30 21	12 39	19 10	19 17	6 38		n.a.
M25	11 43	3s15	4 49	4 21	1 43	4 53	0s 4	15 12	0 16	14 40	1 32	14 22	1 46	16 27	0 43	4 12	2 2	30 21	12 39	19 13	19 18	6 40		n.a.
T 26	12 3	7 24	4 59	5 13	1 35	4 44	0 12	15 26	0 16	14 40	1 31	14 25	1 46	16 27	0 43	4 12	2 2	30 22	12 40	19 16	19 19	6 43		n.a.
W27	12 23	11 16	4 56	6 6	1 26	4 35	0 19	15 39	0 17	14 40	1 31	14 27	1 45	16 26	0 43	4 11	2 2	30 22	12 40	19 20	19 19	6 45		n.a.
T 28	12 43	14 44	4 41	7 0	1 17	4 26	0 27	15 52	0 18	14 40	1 31	14 30	1 45	16 26	0 44	4 11	2 2	30 22	12 40	19 23	19 20	6 47		n.a.
F 29	13 3	17 36	4 12	7 54	1 7	4 15	0 34	16 5	0 18	14 39	1 31	14 32	1 45	16 25	0 44	4 10	2 2	30 22	12 41	19 25	19 21	6 50		n.a.
S 30	13n23	19s44	3n33	8n48	0s57	4s 4	0s41	16n18	0n19	14n39	1n31	14n35	1s45	16s25	0s44	4s10	2n 2	30s23	12s41	19n27	19n22	6s52		n.a.

Julian Day Number = 1656133.5, Delta T = 03h28m18s
Ecliptic obliquity = 23°42'56, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'09, Lahiri = - 6°25'09 Julian Calendar 1 Apr. 179 BCE == Greg. Calendar 29 March 179 BCE

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ASTRODIENST EPHEMERIS for the year 179 BCE
geocentric

MAY 179 BCE (-178) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 20 16	6♉ 4'03	1♋22	26♈47	22♓ 9	13♉58	25♌20	14♉13	17♒39	15°R 7	9♒ 4	4°R 0	4♌26	0♏18	n.a.	S 1
M 2	14 24 12	7° 1'25	13°46	28°52	22°54	14°39	25°21	14°21	17°40	15♎ 6	9° 5	3♌57	4°23	0°24	n.a.	M 2
T 3	14 28 9	7°58'45	26°25	0♉59	23°40	15°19	25°23	14°29	17°42	15° 4	9° 5	3°56	4°20	0°31	n.a.	T 3
W 4	14 32 6	8°56'05	9♒24	3° 7	24°27	16° 0	25°24	14°37	17°43	15° 3	9° 5	3°56	4°17	0°38	n.a.	W 4
T 5	14 36 2	9°53'24	22°46	5°17	25°15	16°40	25°25	14°44	17°44	15° 1	9° 5	3°55	4°13	0°45	n.a.	T 5
F 6	14 39 59	10°50'43	6♓34	7°27	26° 4	17°21	25°27	14°52	17°45	15° 0	9° 5	3°53	4°10	0°51	n.a.	F 6
S 7	14 43 55	11°48'01	20°50	9°38	26°53	18° 1	25°29	15° 0	17°46	14°58	9° 6	3°49	4° 7	0°58	n.a.	S 7
S 8	14 47 52	12°45'18	5♈32	11°50	27°43	18°41	25°31	15° 8	17°47	14°57	9° 6	3°43	4° 4	1° 5	n.a.	S 8
M 9	14 51 48	13°42'35	20°35	14° 1	28°34	19°22	25°33	15°16	17°48	14°56	9° 6	3°34	4° 1	1°12	n.a.	M 9
T 10	14 55 45	14°39'51	5♉50	16°13	29°25	20° 2	25°36	15°24	17°49	14°54	9° 6	3°24	3°58	1°18	n.a.	T 10
W11	14 59 41	15°37'07	21° 6	18°25	0♈17	20°42	25°38	15°32	17°49	14°53	9° 6	3°13	3°54	1°25	n.a.	W11
T 12	15 3 38	16°34'22	6♊13	20°36	1° 9	21°22	25°41	15°40	17°50	14°51	9° 6	3° 4	3°51	1°32	n.a.	T 12
F 13	15 7 35	17°31'36	21° 0	22°46	2° 2	22° 3	25°44	15°47	17°51	14°50	9° 6	2°57	3°48	1°38	n.a.	F 13
S 14	15 11 31	18°28'50	5♋22	24°54	2°56	22°43	25°47	15°55	17°52	14°49	9°R 6	2°52	3°45	1°45	n.a.	S 14
S 15	15 15 28	19°26'02	19°14	27° 2	3°50	23°23	25°51	16° 3	17°52	14°48	9° 6	2°49	3°42	1°52	n.a.	S 15
M16	15 19 24	20°23'14	2♌38	29° 8	4°45	24° 3	25°54	16°11	17°53	14°46	9° 6	2°D49	3°38	1°59	n.a.	M16
T 17	15 23 21	21°20'25	15°36	1♊13	5°40	24°43	25°58	16°19	17°53	14°45	9° 6	2°R49	3°35	2° 5	n.a.	T 17
W18	15 27 17	22°17'35	28°12	3°15	6°36	25°23	26° 1	16°27	17°54	14°44	9° 6	2°49	3°32	2°12	n.a.	W18
T 19	15 31 14	23°14'44	10♍30	5°16	7°32	26° 3	26° 5	16°35	17°54	14°43	9° 6	2°47	3°29	2°19	n.a.	T 19
F 20	15 35 10	24°11'52	22°36	7°15	8°28	26°43	26° 9	16°43	17°54	14°42	9° 6	2°44	3°26	2°25	n.a.	F 20
S 21	15 39 7	25° 9'00	4♎33	9°12	9°25	27°23	26°14	16°50	17°55	14°40	9° 5	2°38	3°23	2°32	n.a.	S 21
S 22	15 43 4	26° 6'07	16°27	11° 7	10°22	28° 2	26°18	16°58	17°55	14°39	9° 5	2°30	3°19	2°39	n.a.	S 22
M23	15 47 0	27° 3'14	28°18	12°59	11°20	28°42	26°23	17° 6	17°55	14°38	9° 5	2°19	3°16	2°46	n.a.	M23
T 24	15 50 57	28° 0'21	10♏11	14°49	12°18	29°22	26°27	17°14	17°55	14°37	9° 5	2° 8	3°13	2°52	n.a.	T 24
W25	15 54 53	28°57'27	22° 8	16°38	13°17	0♊ 2	26°32	17°22	17°56	14°36	9° 5	1°56	3°10	2°59	n.a.	W25
T 26	15 58 50	29°54'33	4♐ 8	18°23	14°16	0°41	26°37	17°29	17°56	14°35	9° 4	1°45	3° 7	3° 6	n.a.	T 26
F 27	16 2 46	0♊51'38	16°15	20° 7	15°15	1°21	26°43	17°37	17°R56	14°34	9° 4	1°36	3° 4	3°13	n.a.	F 27
S 28	16 6 43	1°48'44	28°28	21°49	16°15	2° 1	26°48	17°45	17°56	14°33	9° 4	1°29	3° 0	3°19	n.a.	S 28
S 29	16 10 39	2°45'50	10♋51	23°28	17°15	2°40	26°53	17°53	17°56	14°32	9° 3	1°25	2°57	3°26	n.a.	S 29
M30	16 14 36	3°42'55	23°24	25° 5	18°15	3°20	26°59	18° 0	17°55	14°31	9° 3	1°23	2°54	3°33	n.a.	M30
T 31	16 18 33	4♊40'01	6♒11	26♊39	19♈16	4♊ 0	27♌ 5	18♉ 8	17♒55	14♎30	9♒ 3	1°D23	2♌51	3♏39	n.a.	T 31

Day	☉	☽				☿				♀				♂				♃				♄				♅				♆				♇				☊	☊	⚸		⚷	
	decl	decl	lat			decl	lat			decl	lat			decl	lat			decl	lat			decl	lat			decl	lat			decl	lat			decl	lat			decl	decl			decl	lat
S 1	13n42	21s 0		2n43		9n43		0s47		3s53		0s48		16n31		0n19		14n38		1n30		14n37		1s45		16s25		0s44		4s 9		2n 2		30s23		12s41		19n29	19n22	6s54			n.a.
M 2	14 1	21 16		1 44		10 38		0 36		3 41		0 54		16 44		0 20		14 38		1 30		14 39		1 45		16 24		0 44		4 8		2 2		30 23		12 42		19 29	19 23	6 56			n.a.
T 3	14 20	20 28		0 40		11 33		0 26		3 28		1 1		16 57		0 20		14 37		1 30		14 42		1 45		16 24		0 44		4 8		2 2		30 23		12 42		19 30	19 24	6 59			n.a.
W 4	14 38	18 34		0s29		12 28		0 15		3 15		1 7		17 9		0 21		14 36		1 30		14 44		1 45		16 24		0 44		4 7		2 2		30 24		12 42		19 30	19 25	7 1			n.a.
T 5	14 57	15 37		1 38		13 22		0 4		3 1		1 13		17 21		0 22		14 36		1 29		14 47		1 45		16 23		0 44		4 7		2 2		30 24		12 43		19 30	19 25	7 3			n.a.
F 6	15 15	11 44		2 43		14 15		0n 6		2 47		1 18		17 33		0 22		14 35		1 29		14 49		1 45		16 23		0 44		4 6		2 2		30 24		12 43		19 30	19 26	7 6			n.a.
S 7	15 33	7 3		3 41		15 8		0 17		2 32		1 24		17 45		0 23		14 34		1 29		14 51		1 45		16 23		0 44		4 6		2 2		30 24		12 43		19 31	19 27	7 8			n.a.
S 8	15 51	1 50		4 26		15 59		0 27		2 17		1 29		17 57		0 23		14 33		1 29		14 54		1 45		16 23		0 44		4 5		2 2		30 25		12 44		19 33	19 28	7 10			n.a.
M 9	16 8	3n36		4 53		16 49		0 37		2 1		1 34		18 9		0 24		14 32		1 28		14 56		1 44		16 22		0 44		4 5		2 2		30 25		12 44		19 35	19 28	7 12			n.a.
T 10	16 25	8 54		5 1		17 38		0 47		1 45		1 39		18 21		0 24		14 31		1 28		14 59		1 44		16 22		0 44		4 4		2 2		30 25		12 45		19 37	19 29	7 15			n.a.
W11	16 42	13 38		4 47		18 24		0 56		1 28		1 43		18 32		0 25		14 30		1 28		15 1		1 44		16 22		0 44		4 4		2 2		30 26		12 45		19 40	19 30	7 17			n.a.
T 12	16 59	17 27		4 13		19 9		1 5		1 11		1 48		18 43		0 25		14 29		1 28		15 3		1 44		16 22		0 44		4 3		2 2		30 26		12 45		19 42	19 31	7 19			n.a.
F 13	17 15	20 3		3 22		19 52		1 14		0 53		1 52		18 54		0 26		14 27		1 27		15 6		1 44		16 21		0 44		4 3		2 2		30 26		12 46		19 44	19 31	7 22			n.a.
S 14	17 32	21 16		2 20		20 32		1 21		0 36		1 56		19 5		0 26		14 26		1 27		15 8		1 44		16 21		0 44		4 2		2 1		30 27		12 46		19 45	19 32	7 24			n.a.
S 15	17 47	21 8		1 11		21 9		1 29		0 17		2 0		19 16		0 27		14 25		1 27		15 10		1 44		16 21		0 44		4 2		2 1		30 27		12 46		19 45	19 33	7 26			n.a.
M16	18 3	19 47		0 1		21 45		1 35		0n 1		2 4		19 27		0 27		14 23		1 27		15 13		1 44		16 21		0 44		4 1		2 1		30 27		12 47		19 45	19 34	7 28			n.a.
T 17	18 18	17 25		1n 7		22 17		1 41		0 20		2 7		19 37		0 28		14 22		1 27		15 15		1 44		16 21		0 44		4 1		2 1		30 28		12 47		19 45	19 35	7 31			n.a.
W18	18 33	14 16		2 10		22 47		1 46		0 39		2 10		19 47		0 29		14 20		1 26		15 17		1 44		16 21		0 44		4 0		2 1		30 28		12 47		19 45	19 35	7 33			n.a.
T 19	18 48	10 35		3 6		23 15		1 51		0 59		2 14		19 58		0 29		14 19		1 26		15 20		1 44		16 21		0 44		4 0		2 1		30 28		12 48		19 46	19 36	7 35			n.a.
F 20	19 2	6 31		3 52		23 39		1 55		1 18		2 17		20 7		0 30		14 17		1 26		15 22		1 44		16 21		0 44		4 0		2 1		30 29		12 48		19 47	19 37	7 37			n.a.
S 21	19 16	2 15		4 27		24 1		1 58		1 39		2 19		20 17		0 30		14 16		1 26		15 24		1 44		16 21		0 44		3 59		2 1		30 29		12 48		19 48	19 37	7 40			n.a.
S 22	19 30	2s 4		4 51		24 21		2 0		1 59		2 22		20 27		0 31		14 14		1 25		15 26		1 44		16 21		0 44		3 59		2 1		30 30		12 49		19 50	19 38	7 42			n.a.
M23	19 44	6 18		5 2		24 38		2 2		2 19		2 24		20 36		0 31		14 12		1 25		15 29		1 44		16 20		0 45		3 58		2 1		30 30		12 49		19 52	19 39	7 44			n.a.
T 24	19 57	10 18		5 0		24 52		2 3		2 40		2 27		20 46		0 32		14 10		1 25		15 31		1 44		16 20		0 45		3 58		2 1		30 30		12 49		19 55	19 40	7 47			n.a.
W25	20 9	13 56		4 44		25 5		2 3		3 1		2 29		20 55		0 32		14 8		1 25		15 33		1 44		16 20		0 45		3 58		2 1		30 31		12 50		19 57	19 40	7 49			n.a.
T 26	20 22	17 1		4 16		25 14		2 3		3 22		2 31		21 4		0 33		14 6		1 24		15 35		1 44		16 20		0 45		3 57		2 1		30 31		12 50		20 0	19 41	7 51			n.a.
F 27	20 34	19 24		3 36		25 22		2 2		3 44		2 33		21 13		0 33		14 4		1 24		15 38		1 44		16 21		0 45		3 57		2 1		30 32		12 50		20 2	19 42	7 53			n.a.
S 28	20 46	20 56		2 46		25 27		2 0		4 5		2 34		21 21		0 34		14 2		1 24		15 40		1 44		16 21		0 45		3 57		2 1		30 32		12 51		20 4	19 43	7 56			n.a.
S 29	20 57	21 29		1 48		25 31		1 58		4 27		2 36		21 30		0 34		14 0		1 24		15 42		1 44		16 21		0 45		3 56		2 1		30 32		12 51		20 4	19 43	7 58			n.a.
M30	21 8	20 58		0 43		25 32		1 55		4 49		2 37		21 38		0 35		13 58		1 24		15 44		1 44		16 21		0 45		3 56		2 1		30 33		12 51		20 5	19 44	8 0			n.a.
T 31	21n19	19s21		0s26		25n31		1n51		5n11		2s39		21n46		0n35		13n56		1n23		15n46		1s44		16s21		0s45		3s56		2n 1		30s33		12s52		20n 5	19n45	8s 3			n.a.

Julian Day Number = 1656163.5, Delta T = 03h28m17s
Ecliptic obliquity = 23°42'56, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'05, Lahiri = - 6°25'04 Julian Calendar 1 May 179 BCE == Greg. Calendar 28 Apr. 179 BCE

The year -178 astronomical counting style corresponds to year 179 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 179 BCE
geocentric

JUNE 179 BCE (-178) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 22 29	5♊37'07	19♒14	28♊12	20♈17	4♊39	27♌11	18♉16	17°R55	14°R29	9°R 2	1♌23	2♌48	3♏46	n.a.	W 1
T 2	16 26 26	6°34'13	2♓36	29°42	21°18	5°19	27°17	18°23	17♒55	14♎28	9♒ 2	1°R24	2°44	3°53	n.a.	T 2
F 3	16 30 22	7°31'20	16°20	1♋10	22°19	5°58	27°23	18°31	17°55	14°28	9° 1	1°24	2°41	4° 0	n.a.	F 3
S 4	16 34 19	8°28'27	0♈26	2°35	23°21	6°37	27°29	18°39	17°54	14°27	9° 1	1°22	2°38	4° 6	n.a.	S 4
S 5	16 38 15	9°25'34	14°54	3°58	24°23	7°17	27°36	18°46	17°54	14°26	9° 0	1°18	2°35	4°13	n.a.	S 5
M 6	16 42 12	10°22'42	29°40	5°19	25°26	7°56	27°42	18°54	17°53	14°25	9° 0	1°12	2°32	4°20	n.a.	M 6
T 7	16 46 8	11°19'50	14♉38	6°37	26°28	8°36	27°49	19° 1	17°53	14°25	8°59	1° 5	2°29	4°27	n.a.	T 7
W 8	16 50 5	12°16'58	29°40	7°53	27°31	9°15	27°56	19° 9	17°52	14°24	8°59	0°58	2°25	4°33	n.a.	W 8
T 9	16 54 2	13°14'07	14♊36	9° 6	28°34	9°54	28° 3	19°16	17°52	14°23	8°58	0°51	2°22	4°40	n.a.	T 9
F 10	16 57 58	14°11'16	29°18	10°17	29°38	10°34	28°10	19°24	17°51	14°23	8°57	0°46	2°19	4°47	n.a.	F 10
S 11	17 1 55	15° 8'26	13♋38	11°25	0♉41	11°13	28°17	19°31	17°50	14°22	8°57	0°43	2°16	4°53	n.a.	S 11
S 12	17 5 51	16° 5'35	27°32	12°30	1°45	11°52	28°25	19°38	17°50	14°21	8°56	0°D41	2°13	5° 0	n.a.	S 12
M13	17 9 48	17° 2'45	11♌ 0	13°32	2°49	12°31	28°32	19°46	17°49	14°21	8°55	0°42	2°10	5° 7	n.a.	M13
T 14	17 13 44	17°59'55	24° 2	14°31	3°53	13°10	28°40	19°53	17°48	14°20	8°55	0°43	2° 6	5°14	n.a.	T 14
W15	17 17 41	18°57'05	6♍41	15°28	4°58	13°49	28°48	20° 0	17°47	14°20	8°54	0°44	2° 3	5°20	n.a.	W15
T 16	17 21 38	19°54'15	19° 2	16°21	6° 2	14°29	28°56	20° 8	17°46	14°19	8°53	0°R45	2° 0	5°27	n.a.	T 16
F 17	17 25 34	20°51'26	1♎ 9	17°11	7° 7	15° 8	29° 4	20°15	17°45	14°19	8°52	0°44	1°57	5°34	n.a.	F 17
S 18	17 29 31	21°48'36	13° 7	17°57	8°12	15°47	29°12	20°22	17°44	14°19	8°52	0°42	1°54	5°41	n.a.	S 18
S 19	17 33 27	22°45'47	25° 0	18°40	9°17	16°26	29°20	20°29	17°43	14°18	8°51	0°38	1°50	5°47	n.a.	S 19
M20	17 37 24	23°42'58	6♏53	19°19	10°23	17° 5	29°28	20°36	17°42	14°18	8°50	0°33	1°47	5°54	n.a.	M20
T 21	17 41 20	24°40'10	18°48	19°54	11°28	17°44	29°37	20°43	17°41	14°18	8°49	0°27	1°44	6° 1	n.a.	T 21
W22	17 45 17	25°37'23	0♐49	20°25	12°34	18°23	29°45	20°50	17°40	14°17	8°48	0°21	1°41	6° 7	n.a.	W22
T 23	17 49 13	26°34'36	12°57	20°52	13°40	19° 1	29°54	20°57	17°39	14°17	8°48	0°15	1°38	6°14	n.a.	T 23
F 24	17 53 10	27°31'49	25°14	21°15	14°46	19°40	0♍ 3	21° 4	17°37	14°17	8°47	0°10	1°35	6°21	n.a.	F 24
S 25	17 57 7	28°29'04	7♑42	21°33	15°52	20°19	0°12	21°11	17°36	14°17	8°46	0° 7	1°31	6°28	n.a.	S 25
S 26	18 1 3	29°26'19	20°21	21°46	16°59	20°58	0°21	21°18	17°35	14°17	8°45	0° 5	1°28	6°34	n.a.	S 26
M27	18 5 0	0♋23'36	3♒11	21°55	18° 5	21°37	0°30	21°24	17°33	14°16	8°44	0°D 5	1°25	6°41	n.a.	M27
T 28	18 8 56	1°20'53	16°15	21°R58	19°12	22°16	0°39	21°31	17°32	14°16	8°43	0° 6	1°22	6°48	n.a.	T 28
W29	18 12 53	2°18'11	29°32	21°57	20°19	22°54	0°48	21°38	17°31	14°16	8°42	0° 7	1°19	6°54	n.a.	W29
T 30	18 16 49	3♋15'30	13♓ 3	21♋50	21♉26	23♊33	0♍58	21♉44	17♒29	14°D16	8♒41	0♌ 8	1♌16	7♏ 1	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21n29	16s43	1s34	25n29	1n47	5n33	2s40	21n54	0n36	13n54	1n23	15n48	1s44	16s21	0s45	3s55	2n 1	30s34	12s52	20n 5	19n46	8s 5		n.a.
T 2	21 39	13 8	2 39	25 25	1 42	5 55	2 41	22 2	0 36	13 51	1 23	15 51	1 44	16 21	0 45	3 55	2 1	30 34	12 52	20 5	19 46	8 7		n.a.
F 3	21 49	8 47	3 37	25 19	1 36	6 18	2 41	22 9	0 37	13 49	1 23	15 53	1 44	16 21	0 45	3 55	2 1	30 35	12 53	20 5	19 47	8 9		n.a.
S 4	21 58	3 51	4 23	25 12	1 30	6 40	2 42	22 16	0 37	13 46	1 23	15 55	1 44	16 21	0 45	3 55	2 1	30 35	12 53	20 5	19 48	8 12		n.a.
S 5	22 7	1n25	4 54	25 3	1 24	7 3	2 43	22 24	0 38	13 44	1 22	15 57	1 44	16 21	0 45	3 54	2 0	30 35	12 53	20 6	19 49	8 14		n.a.
M 6	22 16	6 42	5 7	24 53	1 17	7 25	2 43	22 31	0 38	13 41	1 22	15 59	1 44	16 22	0 45	3 54	2 0	30 36	12 54	20 7	19 49	8 16		n.a.
T 7	22 24	11 40	4 58	24 42	1 9	7 48	2 43	22 37	0 39	13 39	1 22	16 1	1 44	16 22	0 45	3 54	2 0	30 36	12 54	20 9	19 50	8 18		n.a.
W 8	22 32	15 55	4 29	24 29	1 1	8 10	2 43	22 44	0 39	13 36	1 22	16 3	1 44	16 22	0 45	3 54	2 0	30 37	12 54	20 11	19 51	8 21		n.a.
T 9	22 39	19 8	3 42	24 16	0 52	8 33	2 43	22 51	0 40	13 34	1 22	16 5	1 44	16 22	0 45	3 53	2 0	30 37	12 55	20 12	19 51	8 23		n.a.
F 10	22 46	21 2	2 41	24 2	0 43	8 55	2 43	22 57	0 40	13 31	1 21	16 7	1 44	16 22	0 45	3 53	2 0	30 38	12 55	20 13	19 52	8 25		n.a.
S 11	22 53	21 30	1 31	23 46	0 33	9 18	2 43	23 3	0 40	13 28	1 21	16 9	1 44	16 23	0 45	3 53	2 0	30 38	12 55	20 14	19 53	8 28		n.a.
S 12	22 59	20 37	0 17	23 30	0 23	9 40	2 43	23 9	0 41	13 25	1 21	16 11	1 44	16 23	0 45	3 53	2 0	30 39	12 56	20 14	19 54	8 30		n.a.
M13	23 5	18 34	0n56	23 14	0 13	10 3	2 42	23 15	0 41	13 23	1 21	16 13	1 44	16 23	0 45	3 53	2 0	30 39	12 56	20 14	19 54	8 32		n.a.
T 14	23 10	15 36	2 3	22 57	0 2	10 25	2 42	23 20	0 42	13 20	1 21	16 15	1 44	16 24	0 45	3 53	2 0	30 40	12 56	20 14	19 55	8 34		n.a.
W15	23 15	11 59	3 3	22 39	0s 9	10 48	2 41	23 25	0 42	13 17	1 20	16 17	1 44	16 24	0 45	3 52	2 0	30 40	12 56	20 13	19 56	8 37		n.a.
T 16	23 20	7 56	3 52	22 21	0 21	11 10	2 40	23 31	0 43	13 14	1 20	16 19	1 44	16 24	0 45	3 52	2 0	30 41	12 57	20 13	19 57	8 39		n.a.
F 17	23 24	3 40	4 30	22 3	0 33	11 32	2 40	23 35	0 43	13 11	1 20	16 21	1 44	16 24	0 45	3 52	2 0	30 41	12 57	20 13	19 57	8 41		n.a.
S 18	23 28	0s42	4 56	21 44	0 46	11 54	2 39	23 40	0 44	13 8	1 20	16 23	1 44	16 25	0 45	3 52	2 0	30 42	12 57	20 14	19 58	8 43		n.a.
S 19	23 31	5 0	5 9	21 26	0 59	12 16	2 37	23 45	0 44	13 5	1 20	16 25	1 44	16 25	0 46	3 52	2 0	30 42	12 58	20 15	19 59	8 46		n.a.
M20	23 34	9 7	5 8	21 8	1 12	12 38	2 36	23 49	0 45	13 2	1 19	16 26	1 44	16 26	0 46	3 52	2 0	30 43	12 58	20 16	19 59	8 48		n.a.
T 21	23 36	12 54	4 55	20 49	1 25	12 59	2 35	23 53	0 45	12 58	1 19	16 28	1 44	16 26	0 46	3 52	2 0	30 43	12 58	20 17	20 0	8 50		n.a.
W22	23 39	16 11	4 28	20 31	1 38	13 21	2 34	23 57	0 46	12 55	1 19	16 30	1 44	16 26	0 46	3 52	1 59	30 44	12 58	20 19	20 1	8 53		n.a.
T 23	23 40	18 50	3 49	20 14	1 52	13 42	2 32	24 1	0 46	12 52	1 19	16 32	1 44	16 27	0 46	3 52	1 59	30 44	12 59	20 20	20 2	8 55		n.a.
F 24	23 42	20 39	2 59	19 57	2 6	14 3	2 31	24 5	0 46	12 49	1 19	16 34	1 44	16 27	0 46	3 52	1 59	30 45	12 59	20 21	20 2	8 57		n.a.
S 25	23 42	21 30	1 59	19 40	2 20	14 24	2 29	24 8	0 47	12 45	1 19	16 35	1 44	16 28	0 46	3 52	1 59	30 45	12 59	20 22	20 3	8 59		n.a.
S 26	23 43	21 17	0 53	19 25	2 33	14 45	2 27	24 11	0 47	12 42	1 18	16 37	1 44	16 28	0 46	3 52	1 59	30 46	12 59	20 22	20 4	9 2		n.a.
M27	23 43	19 57	0s17	19 10	2 47	15 5	2 25	24 14	0 48	12 38	1 18	16 39	1 44	16 28	0 46	3 52	1 59	30 46	13 0	20 22	20 4	9 4		n.a.
T 28	23 42	17 32	1 27	18 56	3 0	15 25	2 24	24 17	0 48	12 35	1 18	16 41	1 44	16 29	0 46	3 52	1 59	30 47	13 0	20 22	20 5	9 6		n.a.
W29	23 42	14 10	2 34	18 43	3 14	15 45	2 22	24 20	0 49	12 32	1 18	16 42	1 44	16 29	0 46	3 52	1 59	30 47	13 0	20 22	20 6	9 8		n.a.
T 30	23n40	10s 1	3s34	18n31	3s26	16n 5	2s20	24n22	0n49	12n28	1n18	16n44	1s44	16s30	0s46	3s52	1n59	30s48	13s 0	20n21	20n 7	9s11		n.a.

Julian Day Number = 1656194.5, Delta T = 03h28m16s
Ecliptic obliquity = 23°42'55, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°32'01, Lahiri = - 6°25'00 Julian Calendar 1 June 179 BCE == Greg. Calendar 29 May 179 BCE

The year -178 astronomical counting style corresponds to year 179 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 179 BCE
geocentric

JULY 179 BCE (-178) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 20 46	4♋12'51	26♓50	21°R38	22♉33	24♊12	1♍ 7	21♉51	17°R28	14♎16	8°R40	0♌ 9	1♌12	7♏ 8	n.a.	F 1
S 2	18 24 42	5°10'13	10♈52	21♋22	23°41	24°51	1°17	21°57	17♒26	14°16	8♒39	0°R10	1° 9	7°15	n.a.	S 2
S 3	18 28 39	6° 7'36	25° 8	21° 0	24°48	25°29	1°27	22° 4	17°24	14°16	8°38	0° 9	1° 6	7°21	n.a.	S 3
M 4	18 32 36	7° 5'01	9♉36	20°33	25°56	26° 8	1°37	22°10	17°23	14°17	8°37	0° 7	1° 3	7°28	n.a.	M 4
T 5	18 36 32	8° 2'27	24°11	20° 2	27° 4	26°47	1°46	22°17	17°21	14°17	8°36	0° 4	1° 0	7°35	n.a.	T 5
W 6	18 40 29	8°59'54	8♊49	19°27	28°12	27°25	1°56	22°23	17°19	14°17	8°35	0° 1	0°56	7°42	n.a.	W 6
T 7	18 44 25	9°57'23	23°22	18°47	29°20	28° 4	2° 6	22°29	17°18	14°17	8°34	29♋59	0°53	7°48	n.a.	T 7
F 8	18 48 22	10°54'53	7♋44	18° 5	0♊28	28°42	2°17	22°35	17°16	14°17	8°33	29°57	0°50	7°55	n.a.	F 8
S 9	18 52 18	11°52'24	21°51	17°20	1°36	29°21	2°27	22°41	17°14	14°18	8°32	29°56	0°47	8° 2	n.a.	S 9
S 10	18 56 15	12°49'56	5♌37	16°32	2°45	29°59	2°37	22°47	17°12	14°18	8°30	29°D56	0°44	8° 8	n.a.	S 10
M11	19 0 12	13°47'29	19° 1	15°44	3°53	0♋38	2°48	22°53	17°10	14°18	8°29	29°56	0°41	8°15	n.a.	M11
T 12	19 4 8	14°45'04	2♍ 3	14°56	5° 2	1°16	2°58	22°59	17° 9	14°19	8°28	29°57	0°37	8°22	n.a.	T 12
W13	19 8 5	15°42'39	14°44	14° 8	6°11	1°55	3° 9	23° 5	17° 7	14°19	8°27	29°59	0°34	8°29	n.a.	W13
T 14	19 12 1	16°40'16	27° 7	13°22	7°20	2°33	3°19	23°11	17° 5	14°19	8°26	29°59	0°31	8°35	n.a.	T 14
F 15	19 15 58	17°37'53	9♎16	12°38	8°29	3°12	3°30	23°16	17° 3	14°20	8°25	0♌ 0	0°28	8°42	n.a.	F 15
S 16	19 19 54	18°35'32	21°16	11°58	9°38	3°50	3°41	23°22	17° 1	14°20	8°23	0°R 0	0°25	8°49	n.a.	S 16
S 17	19 23 51	19°33'12	3♏10	11°22	10°47	4°28	3°52	23°28	16°59	14°21	8°22	0° 0	0°22	8°56	n.a.	S 17
M18	19 27 47	20°30'53	15° 3	10°52	11°57	5° 7	4° 3	23°33	16°57	14°21	8°21	29♋59	0°18	9° 2	n.a.	M18
T 19	19 31 44	21°28'36	27° 0	10°26	13° 6	5°45	4°14	23°39	16°55	14°22	8°20	29°58	0°15	9° 9	n.a.	T 19
W20	19 35 40	22°26'19	9♐ 5	10° 8	14°16	6°23	4°25	23°44	16°52	14°23	8°19	29°57	0°12	9°16	n.a.	W20
T 21	19 39 37	23°24'04	21°20	9°56	15°26	7° 2	4°36	23°49	16°50	14°23	8°17	29°56	0° 9	9°22	n.a.	T 21
F 22	19 43 34	24°21'51	3♑48	9°D51	16°35	7°40	4°48	23°54	16°48	14°24	8°16	29°56	0° 6	9°29	n.a.	F 22
S 23	19 47 30	25°19'39	16°31	9°54	17°45	8°18	4°59	24° 0	16°46	14°25	8°15	29°55	0° 2	9°36	n.a.	S 23
S 24	19 51 27	26°17'28	29°29	10° 4	18°55	8°57	5°10	24° 5	16°44	14°26	8°14	29°D55	29♋59	9°43	n.a.	S 24
M25	19 55 23	27°15'19	12♒42	10°23	20° 6	9°35	5°22	24°10	16°42	14°26	8°13	29°55	29°56	9°49	n.a.	M25
T 26	19 59 20	28°13'12	26° 9	10°49	21°16	10°13	5°33	24°14	16°39	14°27	8°11	29°55	29°53	9°56	n.a.	T 26
W27	20 3 16	29°11'06	9♓50	11°23	22°26	10°51	5°45	24°19	16°37	14°28	8°10	29°55	29°50	10° 3	n.a.	W27
T 28	20 7 13	0♌ 9'02	23°41	12° 5	23°37	11°29	5°56	24°24	16°35	14°29	8° 9	29°R55	29°47	10° 9	n.a.	T 28
F 29	20 11 9	1° 7'01	7♈42	12°54	24°47	12° 8	6° 8	24°29	16°33	14°30	8° 8	29°55	29°43	10°16	n.a.	F 29
S 30	20 15 6	2° 5'01	21°50	13°50	25°58	12°46	6°20	24°33	16°30	14°31	8° 6	29°55	29°40	10°23	n.a.	S 30
S 31	20 19 3	3♌ 3'03	6♉ 2	14♋53	27♊ 9	13♋24	6♍32	24♉38	16♒28	14♎32	8♒ 5	29°D55	29♋37	10♏30	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23n39	5s17	4s23	18n21	3s39	16n24	2s17	24n25	0n50	12n24	1n18	16n46	1s44	16s30	0s46	3s52	1n59	30s48	13s 1	20n21	20n 7	9s13		n.a.
S 2	23 37	0 11	4 57	18 12	3 50	16 44	2 15	24 27	0 50	12 21	1 17	16 47	1 44	16 31	0 46	3 52	1 59	30 49	13 1	20 21	20 8	9 15		n.a.
S 3	23 34	4n59	5 13	18 5	4 1	17 2	2 13	24 29	0 50	12 17	1 17	16 49	1 44	16 31	0 46	3 52	1 59	30 49	13 1	20 21	20 9	9 17		n.a.
M 4	23 31	9 57	5 10	17 59	4 11	17 21	2 11	24 30	0 51	12 13	1 17	16 50	1 44	16 32	0 46	3 52	1 59	30 50	13 1	20 22	20 9	9 20		n.a.
T 5	23 28	14 24	4 47	17 55	4 20	17 39	2 8	24 32	0 51	12 10	1 17	16 52	1 45	16 33	0 46	3 52	1 59	30 50	13 1	20 22	20 10	9 22		n.a.
W 6	23 24	17 59	4 5	17 52	4 28	17 57	2 6	24 33	0 52	12 6	1 17	16 54	1 45	16 33	0 46	3 53	1 59	30 51	13 2	20 23	20 11	9 24		n.a.
T 7	23 20	20 25	3 8	17 52	4 34	18 14	2 3	24 34	0 52	12 2	1 17	16 55	1 45	16 34	0 46	3 53	1 58	30 51	13 2	20 23	20 11	9 26		n.a.
F 8	23 16	21 30	1 59	17 53	4 39	18 31	2 1	24 35	0 53	11 58	1 17	16 57	1 45	16 34	0 46	3 53	1 58	30 52	13 2	20 24	20 12	9 29		n.a.
S 9	23 11	21 11	0 44	17 55	4 42	18 48	1 58	24 36	0 53	11 54	1 16	16 58	1 45	16 35	0 46	3 53	1 58	30 52	13 2	20 24	20 13	9 31		n.a.
S 10	23 5	19 35	0n31	18 0	4 43	19 4	1 55	24 36	0 53	11 51	1 16	17 0	1 45	16 35	0 46	3 53	1 58	30 53	13 2	20 24	20 14	9 33		n.a.
M11	23 0	16 56	1 44	18 6	4 43	19 20	1 53	24 37	0 54	11 47	1 16	17 1	1 45	16 36	0 46	3 53	1 58	30 53	13 3	20 24	20 14	9 36		n.a.
T 12	22 53	13 29	2 48	18 13	4 40	19 35	1 50	24 37	0 54	11 43	1 16	17 2	1 45	16 37	0 46	3 54	1 58	30 54	13 3	20 24	20 15	9 38		n.a.
W13	22 47	9 30	3 43	18 23	4 36	19 50	1 47	24 37	0 55	11 39	1 16	17 4	1 45	16 37	0 46	3 54	1 58	30 54	13 3	20 23	20 16	9 40		n.a.
T 14	22 40	5 13	4 26	18 33	4 30	20 4	1 44	24 36	0 55	11 35	1 16	17 5	1 45	16 38	0 46	3 54	1 58	30 54	13 3	20 23	20 16	9 42		n.a.
F 15	22 32	0 49	4 56	18 45	4 23	20 18	1 41	24 36	0 55	11 31	1 16	17 7	1 45	16 38	0 46	3 54	1 58	30 55	13 3	20 23	20 17	9 45		n.a.
S 16	22 25	3s34	5 13	18 58	4 13	20 32	1 38	24 35	0 56	11 27	1 16	17 8	1 45	16 39	0 46	3 55	1 58	30 55	13 3	20 23	20 18	9 47		n.a.
S 17	22 16	7 46	5 16	19 12	4 2	20 45	1 35	24 34	0 56	11 22	1 15	17 9	1 45	16 40	0 46	3 55	1 58	30 56	13 3	20 23	20 18	9 49		n.a.
M18	22 8	11 40	5 6	19 27	3 50	20 57	1 32	24 33	0 57	11 18	1 15	17 10	1 46	16 40	0 46	3 55	1 58	30 56	13 4	20 23	20 19	9 51		n.a.
T 19	21 59	15 8	4 42	19 42	3 36	21 9	1 29	24 32	0 57	11 14	1 15	17 12	1 46	16 41	0 46	3 55	1 58	30 57	13 4	20 23	20 20	9 54		n.a.
W20	21 49	18 1	4 6	19 58	3 22	21 21	1 26	24 31	0 57	11 10	1 15	17 13	1 46	16 42	0 46	3 56	1 58	30 57	13 4	20 24	20 20	9 56		n.a.
T 21	21 40	20 8	3 18	20 14	3 6	21 32	1 23	24 29	0 58	11 6	1 15	17 14	1 46	16 42	0 46	3 56	1 58	30 58	13 4	20 24	20 21	9 58		n.a.
F 22	21 30	21 20	2 20	20 31	2 50	21 42	1 20	24 28	0 58	11 1	1 15	17 15	1 46	16 43	0 46	3 56	1 58	30 58	13 4	20 24	20 22	10 0		n.a.
S 23	21 19	21 28	1 14	20 47	2 34	21 52	1 17	24 26	0 59	10 57	1 15	17 17	1 46	16 44	0 46	3 57	1 57	30 59	13 4	20 24	20 23	10 3		n.a.
S 24	21 8	20 27	0 2	21 4	2 16	22 2	1 14	24 23	0 59	10 53	1 15	17 18	1 46	16 44	0 46	3 57	1 57	30 59	13 4	20 24	20 23	10 5		n.a.
M25	20 57	18 19	1s10	21 19	1 59	22 10	1 10	24 21	0 59	10 48	1 15	17 19	1 46	16 45	0 46	3 57	1 57	31 0	13 4	20 24	20 24	10 7		n.a.
T 26	20 45	15 9	2 20	21 34	1 42	22 18	1 7	24 19	1 0	10 44	1 14	17 20	1 46	16 46	0 46	3 58	1 57	31 0	13 5	20 24	20 25	10 9		n.a.
W27	20 33	11 7	3 24	21 49	1 25	22 26	1 4	24 16	1 0	10 40	1 14	17 21	1 46	16 46	0 47	3 58	1 57	31 1	13 5	20 24	20 25	10 12		n.a.
T 28	20 21	6 27	4 16	22 2	1 8	22 33	1 1	24 13	1 1	10 35	1 14	17 22	1 46	16 47	0 47	3 59	1 57	31 1	13 5	20 24	20 26	10 14		n.a.
F 29	20 8	1 24	4 53	22 14	0 51	22 39	0 57	24 10	1 1	10 31	1 14	17 23	1 47	16 48	0 47	3 59	1 57	31 1	13 5	20 24	20 27	10 16		n.a.
S 30	19 55	3n45	5 14	22 24	0 35	22 45	0 54	24 7	1 1	10 26	1 14	17 24	1 47	16 49	0 47	3 59	1 57	31 2	13 5	20 24	20 27	10 18		n.a.
S 31	19n42	8n44	5s15	22n32	0s20	22n50	0s51	24n 3	1n 2	10n22	1n14	17n25	1s47	16s49	0s47	4s 0	1n57	31s 2	13s 5	20n24	20n28	10s20		n.a.

Julian Day Number = 1656224.5, Delta T = 03h28m15s
Ecliptic obliquity = 23°42'55, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°31'57, Lahiri = - 6°24'56 Julian Calendar 1 July 179 BCE == Greg. Calendar 28 June 179 BCE

The year -178 astronomical counting style corresponds to year 179 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 179 BCE
geocentric

AUGUST 179 BCE (-178) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 22 59	4♌ 1'07	20♉17	16♋ 3	28♊20	14♋ 2	6♍44	24♉42	16°R26	14♎33	8°R 4	29♋55	29♋34	10♏36	n.a.	M 1
T 2	20 26 56	4°59'14	4♊32	17°19	29°30	14°40	6°55	24°46	16♒23	14°34	8♒ 2	29°56	29°31	10°43	n.a.	T 2
W 3	20 30 52	5°57'23	18°43	18°41	0♋42	15°18	7° 7	24°51	16°21	14°35	8° 1	29°56	29°27	10°50	n.a.	W 3
T 4	20 34 49	6°55'33	2♋48	20° 8	1°53	15°56	7°19	24°55	16°19	14°36	8° 0	29°57	29°24	10°57	n.a.	T 4
F 5	20 38 45	7°53'46	16°44	21°40	3° 4	16°34	7°32	24°59	16°16	14°37	7°59	29°57	29°21	11° 3	n.a.	F 5
S 6	20 42 42	8°52'01	0♌28	23°16	4°15	17°12	7°44	25° 3	16°14	14°38	7°57	29°R58	29°18	11°10	n.a.	S 6
S 7	20 46 38	9°50'17	13°56	24°56	5°27	17°50	7°56	25° 7	16°11	14°39	7°56	29°57	29°15	11°17	n.a.	S 7
M 8	20 50 35	10°48'35	27° 8	26°40	6°38	18°28	8° 8	25°10	16° 9	14°40	7°55	29°56	29°12	11°23	n.a.	M 8
T 9	20 54 32	11°46'56	10♍ 2	28°25	7°50	19° 6	8°20	25°14	16° 7	14°42	7°54	29°55	29° 8	11°30	n.a.	T 9
W10	20 58 28	12°45'17	22°40	0♌14	9° 2	19°44	8°33	25°18	16° 4	14°43	7°52	29°53	29° 5	11°37	n.a.	W10
T 11	21 2 25	13°43'41	5♎ 2	2° 4	10°13	20°22	8°45	25°21	16° 2	14°44	7°51	29°51	29° 2	11°44	n.a.	T 11
F 12	21 6 21	14°42'06	17°11	3°55	11°25	21° 0	8°57	25°24	15°59	14°46	7°50	29°50	28°59	11°50	n.a.	F 12
S 13	21 10 18	15°40'34	29°10	5°48	12°37	21°38	9°10	25°28	15°57	14°47	7°48	29°48	28°56	11°57	n.a.	S 13
S 14	21 14 14	16°39'02	11♏ 4	7°41	13°49	22°16	9°22	25°31	15°55	14°48	7°47	29°48	28°53	12° 4	n.a.	S 14
M15	21 18 11	17°37'33	22°57	9°34	15° 1	22°54	9°35	25°34	15°52	14°50	7°46	29°D47	28°49	12°10	n.a.	M15
T 16	21 22 7	18°36'05	4♐54	11°28	16°14	23°32	9°47	25°37	15°50	14°51	7°45	29°48	28°46	12°17	n.a.	T 16
W17	21 26 4	19°34'40	16°59	13°22	17°26	24° 9	10° 0	25°40	15°47	14°52	7°43	29°50	28°43	12°24	n.a.	W17
T 18	21 30 1	20°33'16	29°17	15°15	18°38	24°47	10°13	25°43	15°45	14°54	7°42	29°51	28°40	12°31	n.a.	T 18
F 19	21 33 57	21°31'53	11♑51	17° 8	19°51	25°25	10°25	25°45	15°43	14°55	7°41	29°53	28°37	12°37	n.a.	F 19
S 20	21 37 54	22°30'33	24°45	19° 1	21° 3	26° 3	10°38	25°48	15°40	14°57	7°40	29°R53	28°33	12°44	n.a.	S 20
S 21	21 41 50	23°29'15	7♒59	20°53	22°16	26°41	10°51	25°50	15°38	14°59	7°39	29°53	28°30	12°51	n.a.	S 21
M22	21 45 47	24°27'58	21°34	22°44	23°28	27°18	11° 3	25°53	15°35	15° 0	7°37	29°52	28°27	12°58	n.a.	M22
T 23	21 49 43	25°26'44	5♓28	24°34	24°41	27°56	11°16	25°55	15°33	15° 2	7°36	29°49	28°24	13° 4	n.a.	T 23
W24	21 53 40	26°25'32	19°36	26°24	25°54	28°34	11°29	25°57	15°31	15° 3	7°35	29°46	28°21	13°11	n.a.	W24
T 25	21 57 36	27°24'22	3♈56	28°13	27° 7	29°12	11°42	25°59	15°28	15° 5	7°34	29°42	28°18	13°18	n.a.	T 25
F 26	22 1 33	28°23'14	18°20	0♍ 1	28°20	29°49	11°55	26° 1	15°26	15° 7	7°33	29°38	28°14	13°24	n.a.	F 26
S 27	22 5 29	29°22'08	2♉45	1°48	29°33	0♌27	12° 8	26° 3	15°24	15° 8	7°31	29°35	28°11	13°31	n.a.	S 27
S 28	22 9 26	0♍21'05	17° 6	3°34	0♌46	1° 5	12°20	26° 5	15°21	15°10	7°30	29°33	28° 8	13°38	n.a.	S 28
M29	22 13 23	1°20'05	1♊18	5°19	1°59	1°42	12°33	26° 7	15°19	15°12	7°29	29°D32	28° 5	13°45	n.a.	M29
T 30	22 17 19	2°19'07	15°21	7° 3	3°12	2°20	12°46	26° 8	15°17	15°13	7°28	29°33	28° 2	13°51	n.a.	T 30
W31	22 21 16	3♍18'11	29♊14	8♍46	4♌25	2♌58	12♍59	26♉ 9	15♒15	15♎15	7♒27	29♋34	27♋59	13♏58	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	19n28	13n15	4s57	22n39	0s 5	22n55	0s47	24n 0	1n 2	10n17	1n14	17n26	1s47	16s50	0s47	4s 0	1n57	31s 3	13s 5	20n24	20n29	10s23		n.a.
T 2	19 14	17 1	4 21	22 43	0n 9	22 59	0 44	23 56	1 2	10 13	1 14	17 27	1 47	16 51	0 47	4 1	1 57	31 3	13 5	20 24	20 29	10 25		n.a.
W 3	19 0	19 45	3 29	22 45	0 22	23 2	0 41	23 52	1 3	10 8	1 14	17 28	1 47	16 52	0 47	4 1	1 57	31 4	13 5	20 24	20 30	10 27		n.a.
T 4	18 45	21 16	2 25	22 45	0 34	23 5	0 38	23 48	1 3	10 3	1 14	17 29	1 47	16 52	0 47	4 2	1 57	31 4	13 5	20 24	20 31	10 29		n.a.
F 5	18 30	21 27	1 13	22 42	0 46	23 6	0 34	23 44	1 4	9 59	1 14	17 30	1 47	16 53	0 47	4 2	1 57	31 4	13 5	20 24	20 31	10 32		n.a.
S 6	18 15	20 20	0n 3	22 36	0 56	23 8	0 31	23 39	1 4	9 54	1 13	17 31	1 47	16 54	0 47	4 3	1 57	31 5	13 5	20 24	20 32	10 34		n.a.
S 7	17 59	18 3	1 17	22 28	1 5	23 8	0 28	23 34	1 4	9 49	1 13	17 31	1 48	16 54	0 47	4 3	1 57	31 5	13 5	20 24	20 33	10 36		n.a.
M 8	17 43	14 52	2 25	22 17	1 14	23 8	0 24	23 30	1 5	9 45	1 13	17 32	1 48	16 55	0 47	4 4	1 56	31 5	13 5	20 24	20 33	10 38		n.a.
T 9	17 27	11 2	3 24	22 3	1 21	23 8	0 21	23 25	1 5	9 40	1 13	17 33	1 48	16 56	0 47	4 4	1 56	31 6	13 5	20 24	20 34	10 41		n.a.
W10	17 11	6 47	4 12	21 46	1 28	23 6	0 18	23 19	1 5	9 35	1 13	17 34	1 48	16 57	0 47	4 5	1 56	31 6	13 5	20 24	20 35	10 43		n.a.
T 11	16 54	2 21	4 47	21 27	1 34	23 4	0 15	23 14	1 6	9 31	1 13	17 34	1 48	16 57	0 47	4 5	1 56	31 7	13 5	20 25	20 35	10 45		n.a.
F 12	16 37	2s 5	5 8	21 5	1 38	23 2	0 12	23 9	1 6	9 26	1 13	17 35	1 48	16 58	0 47	4 6	1 56	31 7	13 5	20 25	20 36	10 47		n.a.
S 13	16 19	6 23	5 16	20 41	1 42	22 58	0 8	23 3	1 6	9 21	1 13	17 36	1 48	16 59	0 47	4 6	1 56	31 7	13 5	20 26	20 37	10 50		n.a.
S 14	16 2	10 25	5 10	20 15	1 45	22 54	0 5	22 57	1 7	9 16	1 13	17 36	1 48	17 0	0 47	4 7	1 56	31 8	13 5	20 26	20 37	10 52		n.a.
M15	15 44	14 3	4 50	19 47	1 47	22 49	0 2	22 51	1 7	9 11	1 13	17 37	1 49	17 0	0 47	4 8	1 56	31 8	13 5	20 26	20 38	10 54		n.a.
T 16	15 25	17 7	4 18	19 16	1 48	22 44	0n 1	22 45	1 8	9 6	1 13	17 38	1 49	17 1	0 47	4 8	1 56	31 8	13 5	20 26	20 39	10 56		n.a.
W17	15 7	19 30	3 35	18 44	1 49	22 38	0 4	22 39	1 8	9 2	1 13	17 38	1 49	17 2	0 47	4 9	1 56	31 9	13 5	20 25	20 39	10 58		n.a.
T 18	14 48	21 2	2 41	18 11	1 49	22 31	0 7	22 32	1 8	8 57	1 13	17 39	1 49	17 2	0 47	4 9	1 56	31 9	13 5	20 25	20 40	11 1		n.a.
F 19	14 29	21 33	1 38	17 36	1 48	22 24	0 10	22 25	1 9	8 52	1 13	17 39	1 49	17 3	0 47	4 10	1 56	31 9	13 5	20 25	20 41	11 3		n.a.
S 20	14 10	20 58	0 28	16 59	1 47	22 16	0 13	22 19	1 9	8 47	1 13	17 40	1 49	17 4	0 47	4 11	1 56	31 10	13 5	20 24	20 41	11 5		n.a.
S 21	13 51	19 12	0s44	16 22	1 45	22 7	0 16	22 12	1 9	8 42	1 13	17 40	1 49	17 5	0 47	4 11	1 56	31 10	13 5	20 24	20 42	11 7		n.a.
M22	13 31	16 19	1 56	15 43	1 43	21 58	0 19	22 5	1 10	8 37	1 13	17 41	1 49	17 5	0 47	4 12	1 56	31 10	13 5	20 25	20 43	11 10		n.a.
T 23	13 11	12 27	3 3	15 3	1 40	21 48	0 22	21 57	1 10	8 32	1 12	17 41	1 50	17 6	0 47	4 13	1 56	31 10	13 5	20 25	20 43	11 12		n.a.
W24	12 51	7 49	3 59	14 23	1 37	21 37	0 25	21 50	1 10	8 27	1 12	17 41	1 50	17 7	0 47	4 13	1 56	31 11	13 5	20 26	20 44	11 14		n.a.
T 25	12 31	2 43	4 42	13 41	1 33	21 26	0 28	21 42	1 11	8 22	1 12	17 42	1 50	17 7	0 47	4 14	1 56	31 11	13 5	20 27	20 44	11 16		n.a.
F 26	12 10	2n33	5 7	12 59	1 29	21 14	0 30	21 35	1 11	8 17	1 12	17 42	1 50	17 8	0 47	4 15	1 56	31 11	13 5	20 28	20 45	11 18		n.a.
S 27	11 49	7 41	5 12	12 17	1 25	21 1	0 33	21 27	1 11	8 12	1 12	17 42	1 50	17 9	0 47	4 15	1 55	31 11	13 5	20 28	20 46	11 21		n.a.
S 28	11 29	12 22	4 58	11 34	1 20	20 48	0 36	21 19	1 12	8 7	1 12	17 43	1 50	17 9	0 47	4 16	1 55	31 12	13 5	20 29	20 46	11 23		n.a.
M29	11 7	16 19	4 26	10 50	1 15	20 34	0 38	21 11	1 12	8 2	1 12	17 43	1 50	17 10	0 47	4 17	1 55	31 12	13 5	20 29	20 47	11 25		n.a.
T 30	10 46	19 17	3 38	10 6	1 10	20 20	0 41	21 2	1 12	7 57	1 12	17 43	1 50	17 11	0 47	4 18	1 55	31 12	13 4	20 29	20 48	11 27		n.a.
W31	10n25	21n 5	2s38	9n22	1n 5	20n 5	0n43	20n54	1n13	7n52	1n12	17n43	1s51	17s11	0s47	4s18	1n55	31s12	13s 4	20n29	20n48	11s29		n.a.

Julian Day Number = 1656255.5, Delta T = 03h28m14s
Ecliptic obliquity = 23°42'56, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°31'52, Lahiri = - 6°24'52 Julian Calendar 1 Aug. 179 BCE == Greg. Calendar 29 July 179 BCE

The year -178 astronomical counting style corresponds to year 179 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 179 BCE
geocentric

SEPTEMBER 179 BCE (-178) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 25 12	4♍17'18	12♋54	10♍29	5♌39	3♌35	13♍12	26♉11	15°R12	15♎17	7°R26	29♋36	27♋55	14♏ 5	n.a.	T 1
F 2	22 29 9	5°16'27	26°24	12°10	6°52	4°13	13°25	26°12	15♒10	15°19	7♒25	29°R36	27°52	14°11	n.a.	F 2
S 3	22 33 5	6°15'39	9♌42	13°51	8° 6	4°50	13°38	26°13	15° 8	15°21	7°24	29°36	27°49	14°18	n.a.	S 3
S 4	22 37 2	7°14'53	22°47	15°31	9°19	5°28	13°51	26°14	15° 6	15°22	7°22	29°34	27°46	14°25	n.a.	S 4
M 5	22 40 58	8°14'08	5♍41	17° 9	10°33	6° 6	14° 4	26°15	15° 4	15°24	7°21	29°30	27°43	14°32	n.a.	M 5
T 6	22 44 55	9°13'26	18°22	18°48	11°47	6°43	14°17	26°16	15° 1	15°26	7°20	29°24	27°39	14°38	n.a.	T 6
W 7	22 48 52	10°12'47	0♎50	20°25	13° 0	7°21	14°30	26°16	14°59	15°28	7°19	29°17	27°36	14°45	n.a.	W 7
T 8	22 52 48	11°12'09	13° 6	22° 2	14°14	7°58	14°43	26°17	14°57	15°30	7°18	29° 9	27°33	14°52	n.a.	T 8
F 9	22 56 45	12°11'33	25°12	23°37	15°28	8°36	14°56	26°17	14°55	15°32	7°17	29° 1	27°30	14°58	n.a.	F 9
S 10	23 0 41	13°10'59	7♏10	25°13	16°42	9°13	15°10	26°18	14°53	15°34	7°16	28°54	27°27	15° 5	n.a.	S 10
S 11	23 4 38	14°10'27	19° 2	26°47	17°56	9°51	15°23	26°18	14°51	15°36	7°15	28°49	27°24	15°12	n.a.	S 11
M12	23 8 34	15° 9'57	0♐53	28°20	19°10	10°28	15°36	26°R18	14°49	15°38	7°14	28°46	27°20	15°19	n.a.	M12
T 13	23 12 31	16° 9'29	12°47	29°53	20°24	11° 6	15°49	26°18	14°47	15°40	7°13	28°D44	27°17	15°25	n.a.	T 13
W14	23 16 27	17° 9'03	24°49	1♎26	21°38	11°43	16° 2	26°18	14°45	15°42	7°12	28°45	27°14	15°32	n.a.	W14
T 15	23 20 24	18° 8'39	7♑ 5	2°57	22°52	12°20	16°15	26°17	14°43	15°44	7°12	28°46	27°11	15°39	n.a.	T 15
F 16	23 24 20	19° 8'16	19°38	4°28	24° 7	12°58	16°28	26°17	14°41	15°46	7°11	28°47	27° 8	15°45	n.a.	F 16
S 17	23 28 17	20° 7'56	2♒34	5°58	25°21	13°35	16°41	26°17	14°40	15°48	7°10	28°R47	27° 4	15°52	n.a.	S 17
S 18	23 32 14	21° 7'37	15°56	7°27	26°35	14°12	16°54	26°16	14°38	15°50	7° 9	28°46	27° 1	15°59	n.a.	S 18
M19	23 36 10	22° 7'20	29°44	8°56	27°50	14°50	17° 7	26°15	14°36	15°52	7° 8	28°42	26°58	16° 6	n.a.	M19
T 20	23 40 7	23° 7'05	13♓57	10°24	29° 4	15°27	17°20	26°14	14°34	15°54	7° 7	28°36	26°55	16°12	n.a.	T 20
W21	23 44 3	24° 6'52	28°31	11°51	0♍19	16° 4	17°33	26°13	14°33	15°57	7° 6	28°28	26°52	16°19	n.a.	W21
T 22	23 48 0	25° 6'42	13♈18	13°18	1°33	16°42	17°46	26°12	14°31	15°59	7° 6	28°19	26°49	16°26	n.a.	T 22
F 23	23 51 56	26° 6'33	28°11	14°44	2°48	17°19	17°59	26°11	14°29	16° 1	7° 5	28°10	26°45	16°32	n.a.	F 23
S 24	23 55 53	27° 6'27	13♉ 1	16° 9	4° 2	17°56	18°12	26°10	14°28	16° 3	7° 4	28° 3	26°42	16°39	n.a.	S 24
S 25	23 59 49	28° 6'22	27°39	17°33	5°17	18°33	18°25	26° 9	14°26	16° 5	7° 3	27°57	26°39	16°46	n.a.	S 25
M26	0 3 46	29° 6'21	12♊ 2	18°57	6°32	19°11	18°38	26° 7	14°25	16° 7	7° 3	27°53	26°36	16°53	n.a.	M26
T 27	0 7 43	0♎ 6'21	26° 6	20°19	7°46	19°48	18°51	26° 6	14°23	16° 9	7° 2	27°D52	26°33	16°59	n.a.	T 27
W28	0 11 39	1° 6'24	9♋51	21°41	9° 1	20°25	19° 4	26° 4	14°22	16°12	7° 1	27°52	26°30	17° 6	n.a.	W28
T 29	0 15 36	2° 6'29	23°18	23° 1	10°16	21° 2	19°17	26° 2	14°20	16°14	7° 1	27°R53	26°26	17°13	n.a.	T 29
F 30	0 19 32	3♎ 6'37	6♌29	24♎21	11♍31	21♌39	19♍30	26♉ 0	14♒19	16♎16	7♒ 0	27♋52	26♋23	17♏19	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	10n 3	21n35	1s30	8n38	0n59	19n49	0n46	20n45	1n13	7n47	1n12	17n44	1s51	17s12	0s47	4s19	1n55	31s13	13s 4	20n28	20n49	11s32		n.a.	T 1
F 2	9 41	20 50	0 17	7 53	0 53	19 33	0 48	20 37	1 13	7 42	1 12	17 44	1 51	17 13	0 47	4 20	1 55	31 13	13 4	20 28	20 50	11 34		n.a.	F 2
S 3	9 19	18 54	0n55	7 9	0 47	19 16	0 51	20 28	1 14	7 37	1 12	17 44	1 51	17 13	0 47	4 20	1 55	31 13	13 4	20 28	20 50	11 36		n.a.	S 3
S 4	8 57	16 0	2 3	6 24	0 41	18 59	0 53	20 19	1 14	7 32	1 12	17 44	1 51	17 14	0 47	4 21	1 55	31 13	13 4	20 29	20 51	11 38		n.a.	S 4
M 5	8 35	12 22	3 3	5 39	0 34	18 41	0 55	20 10	1 14	7 27	1 12	17 44	1 51	17 15	0 47	4 22	1 55	31 13	13 4	20 30	20 52	11 41		n.a.	M 5
T 6	8 12	8 14	3 53	4 55	0 28	18 22	0 57	20 1	1 15	7 22	1 12	17 44	1 51	17 15	0 46	4 23	1 55	31 14	13 4	20 31	20 52	11 43		n.a.	T 6
W 7	7 50	3 49	4 32	4 10	0 21	18 3	1 0	19 51	1 15	7 16	1 12	17 44	1 52	17 16	0 46	4 24	1 55	31 14	13 4	20 32	20 53	11 45		n.a.	W 7
T 8	7 27	0s41	4 57	3 25	0 15	17 44	1 2	19 42	1 15	7 11	1 12	17 44	1 52	17 17	0 46	4 24	1 55	31 14	13 3	20 34	20 53	11 47		n.a.	T 8
F 9	7 4	5 6	5 8	2 41	0 8	17 24	1 4	19 32	1 16	7 6	1 12	17 44	1 52	17 17	0 46	4 25	1 55	31 14	13 3	20 36	20 54	11 49		n.a.	F 9
S 10	6 41	9 15	5 5	1 56	0 1	17 3	1 6	19 22	1 16	7 1	1 12	17 44	1 52	17 18	0 46	4 26	1 55	31 14	13 3	20 37	20 55	11 52		n.a.	S 10
S 11	6 18	13 2	4 50	1 12	0s 6	16 42	1 8	19 13	1 16	6 56	1 12	17 44	1 52	17 18	0 46	4 27	1 55	31 14	13 3	20 38	20 55	11 54		n.a.	S 11
M12	5 55	16 18	4 22	0 28	0 13	16 21	1 9	19 3	1 16	6 51	1 12	17 44	1 52	17 19	0 46	4 27	1 55	31 14	13 3	20 39	20 56	11 56		n.a.	M12
T 13	5 31	18 55	3 42	0s15	0 20	15 59	1 11	18 52	1 17	6 46	1 12	17 44	1 52	17 19	0 46	4 28	1 55	31 14	13 3	20 39	20 57	11 58		n.a.	T 13
W14	5 8	20 44	2 53	0 59	0 27	15 36	1 13	18 42	1 17	6 41	1 12	17 44	1 52	17 20	0 46	4 29	1 55	31 15	13 2	20 39	20 57	12 0		n.a.	W14
T 15	4 44	21 37	1 54	1 42	0 34	15 13	1 14	18 32	1 17	6 36	1 12	17 43	1 53	17 21	0 46	4 30	1 55	31 15	13 2	20 39	20 58	12 3		n.a.	T 15
F 16	4 21	21 27	0 49	2 25	0 41	14 50	1 16	18 21	1 18	6 30	1 12	17 43	1 53	17 21	0 46	4 31	1 55	31 15	13 2	20 38	20 58	12 5		n.a.	F 16
S 17	3 57	20 9	0s20	3 7	0 48	14 26	1 18	18 11	1 18	6 25	1 12	17 43	1 53	17 22	0 46	4 32	1 55	31 15	13 2	20 38	20 59	12 7		n.a.	S 17
S 18	3 33	17 41	1 31	3 50	0 55	14 2	1 19	18 0	1 18	6 20	1 12	17 43	1 53	17 22	0 46	4 32	1 55	31 15	13 2	20 39	21 0	12 9		n.a.	S 18
M19	3 10	14 9	2 38	4 31	1 1	13 37	1 20	17 49	1 19	6 15	1 12	17 42	1 53	17 23	0 46	4 33	1 55	31 15	13 2	20 39	21 0	12 11		n.a.	M19
T 20	2 46	9 43	3 38	5 12	1 8	13 12	1 22	17 39	1 19	6 10	1 12	17 42	1 53	17 23	0 46	4 34	1 55	31 15	13 1	20 41	21 1	12 13		n.a.	T 20
W21	2 22	4 38	4 24	5 53	1 15	12 47	1 23	17 28	1 19	6 5	1 12	17 42	1 53	17 24	0 46	4 35	1 55	31 15	13 1	20 42	21 2	12 16		n.a.	W21
T 22	1 58	0n48	4 54	6 34	1 22	12 21	1 24	17 17	1 20	6 0	1 12	17 41	1 53	17 24	0 46	4 36	1 55	31 15	13 1	20 44	21 2	12 18		n.a.	T 22
F 23	1 34	6 13	5 4	7 13	1 28	11 55	1 25	17 5	1 20	5 54	1 12	17 41	1 54	17 25	0 46	4 37	1 55	31 15	13 1	20 46	21 3	12 20		n.a.	F 23
S 24	1 10	11 15	4 54	7 53	1 35	11 28	1 26	16 54	1 20	5 49	1 12	17 41	1 54	17 25	0 46	4 37	1 55	31 15	13 1	20 48	21 3	12 22		n.a.	S 24
S 25	0 46	15 34	4 25	8 31	1 41	11 2	1 27	16 43	1 20	5 44	1 12	17 40	1 54	17 25	0 46	4 38	1 55	31 15	13 0	20 49	21 4	12 24		n.a.	S 25
M26	0 22	18 52	3 39	9 9	1 47	10 35	1 28	16 31	1 21	5 39	1 12	17 40	1 54	17 26	0 46	4 39	1 55	31 15	13 0	20 49	21 5	12 27		n.a.	M26
T 27	0s 3	20 59	2 41	9 46	1 53	10 7	1 29	16 20	1 21	5 34	1 12	17 39	1 54	17 26	0 46	4 40	1 55	31 15	13 0	20 50	21 5	12 29		n.a.	T 27
W28	0 27	21 46	1 35	10 23	1 59	9 39	1 29	16 8	1 21	5 29	1 13	17 39	1 54	17 27	0 46	4 41	1 55	31 15	13 0	20 50	21 6	12 31		n.a.	W28
T 29	0 51	21 17	0 24	10 58	2 5	9 11	1 30	15 56	1 22	5 24	1 13	17 38	1 54	17 27	0 46	4 42	1 55	31 15	12 59	20 50	21 7	12 33		n.a.	T 29
F 30	1s15	19n36	0n46	11s33	2s10	8n43	1n31	15n44	1n22	5n19	1n13	17n38	1s54	17s27	0s46	4s43	1n54	31s15	12s59	20n50	21n 7	12s35		n.a.	F 30

Julian Day Number = 1656286.5, Delta T = 03h28m13s
Ecliptic obliquity = 23°42'57, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°31'48, Lahiri = - 6°24'48 Julian Calendar 1 Sept. 179 BCE == Greg. Calendar 29 Aug. 179 BCE

The year -178 astronomical counting style corresponds to year 179 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 179 BCE
geocentric

OCTOBER 179 BCE (-178) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 23 29	4♎ 6'46	19♌26	25♎39	12♍46	22♌17	19♍43	25°R58	14°R18	16♎18	7°R 0	27°R50	26♋20	17♏26	n.a.	S 1
S 2	0 27 25	5° 6'58	2♍11	26°56	14° 1	22°54	19°56	25♉56	14♒16	16°20	6♒59	27♋46	26°17	17°33	n.a.	S 2
M 3	0 31 22	6° 7'12	14°46	28°12	15°16	23°31	20° 9	25°54	14°15	16°23	6°58	27°38	26°14	17°40	n.a.	M 3
T 4	0 35 18	7° 7'27	27°11	29°26	16°31	24° 8	20°22	25°51	14°14	16°25	6°58	27°27	26°10	17°46	n.a.	T 4
W 5	0 39 15	8° 7'45	9♎27	0♏39	17°46	24°45	20°35	25°49	14°13	16°27	6°57	27°15	26° 7	17°53	n.a.	W 5
T 6	0 43 12	9° 8'04	21°34	1°49	19° 1	25°22	20°47	25°46	14°12	16°29	6°57	27° 1	26° 4	18° 0	n.a.	T 6
F 7	0 47 8	10° 8'25	3♏34	2°58	20°16	25°59	21° 0	25°44	14°11	16°32	6°56	26°47	26° 1	18° 6	n.a.	F 7
S 8	0 51 5	11° 8'48	15°29	4° 4	21°31	26°36	21°13	25°41	14°10	16°34	6°56	26°35	25°58	18°13	n.a.	S 8
S 9	0 55 1	12° 9'13	27°19	5° 8	22°46	27°13	21°25	25°38	14° 9	16°36	6°56	26°25	25°55	18°20	n.a.	S 9
M10	0 58 58	13° 9'39	9♐ 8	6° 9	24° 1	27°50	21°38	25°35	14° 8	16°38	6°55	26°17	25°51	18°27	n.a.	M10
T 11	1 2 54	14°10'07	21° 0	7° 6	25°16	28°27	21°51	25°32	14° 7	16°41	6°55	26°12	25°48	18°33	n.a.	T 11
W12	1 6 51	15°10'36	2♑59	8° 0	26°31	29° 4	22° 3	25°29	14° 6	16°43	6°55	26°10	25°45	18°40	n.a.	W12
T 13	1 10 47	16°11'07	15° 9	8°49	27°47	29°41	22°16	25°26	14° 6	16°45	6°54	26°D10	25°42	18°47	n.a.	T 13
F 14	1 14 44	17°11'39	27°38	9°34	29° 2	0♍18	22°28	25°23	14° 5	16°47	6°54	26°R10	25°39	18°53	n.a.	F 14
S 15	1 18 40	18°12'13	10♒29	10°14	0♎17	0°54	22°41	25°19	14° 4	16°50	6°54	26° 9	25°36	19° 0	n.a.	S 15
S 16	1 22 37	19°12'48	23°47	10°48	1°32	1°31	22°53	25°16	14° 4	16°52	6°53	26° 7	25°32	19° 7	n.a.	S 16
M17	1 26 34	20°13'24	7♓35	11°15	2°48	2° 8	23° 6	25°12	14° 3	16°54	6°53	26° 2	25°29	19°14	n.a.	M17
T 18	1 30 30	21°14'01	21°53	11°35	4° 3	2°45	23°18	25° 9	14° 2	16°56	6°53	25°54	25°26	19°20	n.a.	T 18
W19	1 34 27	22°14'40	6♈37	11°47	5°18	3°22	23°30	25° 5	14° 2	16°59	6°53	25°44	25°23	19°27	n.a.	W19
T 20	1 38 23	23°15'20	21°42	11°R51	6°34	3°58	23°42	25° 1	14° 2	17° 1	6°53	25°33	25°20	19°34	n.a.	T 20
F 21	1 42 20	24°16'02	6♉56	11°45	7°49	4°35	23°55	24°57	14° 1	17° 3	6°53	25°21	25°16	19°40	n.a.	F 21
S 22	1 46 16	25°16'46	22° 9	11°29	9° 5	5°12	24° 7	24°53	14° 1	17° 5	6°53	25°10	25°13	19°47	n.a.	S 22
S 23	1 50 13	26°17'31	7♊10	11° 2	10°20	5°48	24°19	24°49	14° 1	17° 8	6°52	25° 2	25°10	19°54	n.a.	S 23
M24	1 54 9	27°18'17	21°51	10°25	11°35	6°25	24°31	24°45	14° 0	17°10	6°52	24°57	25° 7	20° 1	n.a.	M24
T 25	1 58 6	28°19'06	6♋ 8	9°37	12°51	7° 2	24°43	24°41	14° 0	17°12	6°D52	24°54	25° 4	20° 7	n.a.	T 25
W26	2 2 3	29°19'56	19°59	8°39	14° 6	7°38	24°55	24°37	14° 0	17°14	6°52	24°53	25° 1	20°14	n.a.	W26
T 27	2 5 59	0♏20'48	3♌25	7°32	15°22	8°15	25° 7	24°33	14° 0	17°16	6°52	24°53	24°57	20°21	n.a.	T 27
F 28	2 9 56	1°21'41	16°30	6°18	16°37	8°51	25°18	24°28	14°D 0	17°19	6°53	24°53	24°54	20°27	n.a.	F 28
S 29	2 13 52	2°22'36	29°17	4°59	17°53	9°28	25°30	24°24	14° 0	17°21	6°53	24°50	24°51	20°34	n.a.	S 29
S 30	2 17 49	3°23'32	11♍48	3°37	19° 8	10° 4	25°42	24°19	14° 0	17°23	6°53	24°45	24°48	20°41	n.a.	S 30
M31	2 21 45	4♏24'29	24♍ 9	2♏15	20♎24	10♍41	25♍53	24♉15	14♒ 0	17♎25	6♒53	24♋37	24♋45	20♏48	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	1s39	16n56	1n52	12s 7	2s15	8n15	1n31	15n32	1n22	5n14	1n13	17n37	1s54	17s28	0s46	4s43	1n54	31s15	12s59	20n50	21n 8	12s37		n.a.
S 2	2 3	13 29	2 52	12 40	2 20	7 46	1 31	15 20	1 22	5 9	1 13	17 36	1 54	17 28	0 46	4 44	1 54	31 15	12 59	20 51	21 8	12 40		n.a.
M 3	2 27	9 28	3 42	13 12	2 25	7 17	1 32	15 8	1 23	5 4	1 13	17 36	1 55	17 28	0 46	4 45	1 54	31 15	12 58	20 53	21 9	12 42		n.a.
T 4	2 52	5 7	4 20	13 43	2 29	6 48	1 32	14 56	1 23	4 58	1 13	17 35	1 55	17 29	0 46	4 46	1 54	31 15	12 58	20 55	21 10	12 44		n.a.
W 5	3 16	0 36	4 47	14 13	2 33	6 18	1 32	14 44	1 23	4 53	1 13	17 35	1 55	17 29	0 46	4 47	1 54	31 14	12 58	20 57	21 10	12 46		n.a.
T 6	3 40	3s53	4 59	14 41	2 36	5 49	1 32	14 31	1 24	4 48	1 13	17 34	1 55	17 29	0 46	4 48	1 54	31 14	12 58	21 0	21 11	12 48		n.a.
F 7	4 4	8 10	4 59	15 8	2 39	5 19	1 33	14 19	1 24	4 43	1 13	17 33	1 55	17 30	0 46	4 49	1 54	31 14	12 58	21 2	21 11	12 50		n.a.
S 8	4 28	12 7	4 45	15 33	2 42	4 49	1 33	14 6	1 24	4 38	1 13	17 32	1 55	17 30	0 46	4 50	1 54	31 14	12 57	21 5	21 12	12 53		n.a.
S 9	4 51	15 35	4 19	15 57	2 44	4 19	1 32	13 54	1 24	4 33	1 13	17 32	1 55	17 30	0 46	4 50	1 54	31 14	12 57	21 7	21 13	12 55		n.a.
M10	5 15	18 26	3 42	16 19	2 46	3 49	1 32	13 41	1 25	4 28	1 13	17 31	1 55	17 30	0 46	4 51	1 54	31 14	12 57	21 8	21 13	12 57		n.a.
T 11	5 39	20 30	2 55	16 39	2 46	3 18	1 32	13 28	1 25	4 23	1 13	17 30	1 55	17 31	0 46	4 52	1 54	31 14	12 56	21 9	21 14	12 59		n.a.
W12	6 3	21 41	1 59	16 57	2 47	2 48	1 32	13 16	1 25	4 18	1 13	17 29	1 55	17 31	0 46	4 53	1 54	31 14	12 56	21 10	21 14	13 1		n.a.
T 13	6 26	21 53	0 58	17 13	2 46	2 17	1 31	13 3	1 25	4 14	1 13	17 28	1 55	17 31	0 46	4 54	1 54	31 13	12 56	21 10	21 15	13 3		n.a.
F 14	6 50	21 0	0s 8	17 26	2 44	1 47	1 31	12 50	1 26	4 9	1 14	17 28	1 55	17 31	0 46	4 55	1 54	31 13	12 56	21 10	21 16	13 6		n.a.
S 15	7 13	19 1	1 15	17 37	2 42	1 16	1 31	12 37	1 26	4 4	1 14	17 27	1 56	17 31	0 45	4 56	1 54	31 13	12 55	21 10	21 16	13 8		n.a.
S 16	7 36	15 57	2 20	17 44	2 39	0 45	1 30	12 24	1 26	3 59	1 14	17 26	1 56	17 31	0 45	4 57	1 54	31 13	12 55	21 10	21 17	13 10		n.a.
M17	8 0	11 55	3 20	17 49	2 34	0 14	1 29	12 11	1 27	3 54	1 14	17 25	1 56	17 32	0 45	4 57	1 54	31 13	12 55	21 11	21 17	13 12		n.a.
T 18	8 23	7 4	4 9	17 50	2 28	0s16	1 29	11 58	1 27	3 49	1 14	17 24	1 56	17 32	0 45	4 58	1 54	31 12	12 55	21 13	21 18	13 14		n.a.
W19	8 45	1 41	4 44	17 47	2 21	0 47	1 28	11 44	1 27	3 44	1 14	17 23	1 56	17 32	0 45	4 59	1 54	31 12	12 54	21 15	21 18	13 16		n.a.
T 20	9 8	3n56	4 59	17 39	2 12	1 18	1 27	11 31	1 27	3 39	1 14	17 22	1 56	17 32	0 45	5 0	1 54	31 12	12 54	21 17	21 19	13 18		n.a.
F 21	9 31	9 21	4 54	17 28	2 2	1 49	1 26	11 18	1 28	3 35	1 14	17 21	1 56	17 32	0 45	5 1	1 54	31 12	12 54	21 19	21 20	13 21		n.a.
S 22	9 53	14 12	4 28	17 11	1 50	2 20	1 25	11 4	1 28	3 30	1 14	17 20	1 56	17 32	0 45	5 2	1 54	31 12	12 54	21 21	21 20	13 23		n.a.
S 23	10 16	18 5	3 43	16 50	1 37	2 51	1 24	10 51	1 28	3 25	1 14	17 19	1 56	17 32	0 45	5 3	1 54	31 11	12 53	21 22	21 21	13 25		n.a.
M24	10 38	20 43	2 45	16 24	1 21	3 22	1 23	10 37	1 28	3 20	1 14	17 18	1 56	17 32	0 45	5 3	1 54	31 11	12 53	21 23	21 21	13 27		n.a.
T 25	11 0	21 57	1 37	15 53	1 5	3 52	1 22	10 24	1 29	3 16	1 15	17 17	1 56	17 32	0 45	5 4	1 54	31 11	12 53	21 24	21 22	13 29		n.a.
W26	11 22	21 47	0 26	15 17	0 46	4 23	1 21	10 10	1 29	3 11	1 15	17 16	1 56	17 32	0 45	5 5	1 54	31 10	12 52	21 24	21 23	13 31		n.a.
T 27	11 43	20 21	0n45	14 37	0 27	4 54	1 20	9 57	1 29	3 6	1 15	17 15	1 56	17 32	0 45	5 6	1 55	31 10	12 52	21 24	21 23	13 33		n.a.
F 28	12 5	17 51	1 52	13 53	0 7	5 24	1 18	9 43	1 29	3 2	1 15	17 14	1 56	17 32	0 45	5 7	1 55	31 10	12 52	21 24	21 24	13 35		n.a.
S 29	12 26	14 31	2 51	13 7	0n14	5 54	1 17	9 29	1 30	2 57	1 15	17 13	1 56	17 32	0 45	5 8	1 55	31 10	12 52	21 24	21 24	13 38		n.a.
S 30	12 47	10 36	3 41	12 20	0 34	6 25	1 16	9 16	1 30	2 53	1 15	17 12	1 56	17 32	0 45	5 8	1 55	31 9	12 51	21 25	21 25	13 40		n.a.
M31	13s 8	6n19	4n19	11s33	0n54	6s55	1n14	9n 2	1n30	2n48	1n15	17n11	1s56	17s32	0s45	5s 9	1n55	31s 9	12s51	21n27	21n25	13s42		n.a.

Julian Day Number = 1656316.5, Delta T = 03h28m12s
Ecliptic obliquity = 23°42'57, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°31'44, Lahiri = - 6°24'44 Julian Calendar 1 Oct. 179 BCE == Greg. Calendar 28 Sept. 179 BCE

The year -178 astronomical counting style corresponds to year 179 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 179 BCE
geocentric

NOVEMBER 179 BCE (-178) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 25 42	5♏25'28	6♎20	0°R55	21♎39	11♍17	26♍ 5	24°R10	14♒ 0	17♎27	6♒53	24°R26	24♋41	20♏54	n.a.	T 1
W 2	2 29 38	6°26'28	18°25	29♎41	22°55	11°54	26°16	24♉ 6	14° 1	17°30	6°53	24♋12	24°38	21° 1	n.a.	W 2
T 3	2 33 35	7°27'29	0♏23	28°35	24°10	12°30	26°28	24° 1	14° 1	17°32	6°53	23°58	24°35	21° 8	n.a.	T 3
F 4	2 37 32	8°28'32	12°18	27°38	25°26	13° 6	26°39	23°56	14° 1	17°34	6°54	23°43	24°32	21°14	n.a.	F 4
S 5	2 41 28	9°29'35	24°10	26°52	26°41	13°43	26°50	23°52	14° 2	17°36	6°54	23°30	24°29	21°21	n.a.	S 5
S 6	2 45 25	10°30'40	6♐ 0	26°16	27°57	14°19	27° 1	23°47	14° 2	17°38	6°54	23°19	24°26	21°28	n.a.	S 6
M 7	2 49 21	11°31'45	17°50	25°53	29°13	14°55	27°13	23°42	14° 3	17°40	6°55	23°10	24°22	21°34	n.a.	M 7
T 8	2 53 18	12°32'51	29°43	25°40	0♏28	15°31	27°24	23°37	14° 3	17°42	6°55	23° 5	24°19	21°41	n.a.	T 8
W 9	2 57 14	13°33'58	11♑42	25°D39	1°44	16° 8	27°35	23°32	14° 4	17°44	6°55	23° 2	24°16	21°48	n.a.	W 9
T 10	3 1 11	14°35'05	23°52	25°47	2°59	16°44	27°45	23°28	14° 5	17°46	6°56	23°D 2	24°13	21°55	n.a.	T 10
F 11	3 5 7	15°36'13	6♒17	26° 5	4°15	17°20	27°56	23°23	14° 5	17°49	6°56	23° 2	24°10	22° 1	n.a.	F 11
S 12	3 9 4	16°37'22	19° 2	26°31	5°30	17°56	28° 7	23°18	14° 6	17°51	6°57	23°R 2	24° 7	22° 8	n.a.	S 12
S 13	3 13 1	17°38'30	2♓12	27° 5	6°46	18°32	28°17	23°13	14° 7	17°53	6°57	23° 1	24° 3	22°15	n.a.	S 13
M14	3 16 57	18°39'39	15°50	27°45	8° 2	19° 8	28°28	23° 8	14° 8	17°55	6°58	22°58	24° 0	22°21	n.a.	M14
T 15	3 20 54	19°40'49	29°59	28°32	9°17	19°44	28°38	23° 3	14° 9	17°57	6°58	22°52	23°57	22°28	n.a.	T 15
W16	3 24 50	20°41'59	14♈36	29°24	10°33	20°20	28°49	22°58	14°10	17°59	6°59	22°45	23°54	22°35	n.a.	W16
T 17	3 28 47	21°43'09	29°38	0♏21	11°48	20°56	28°59	22°53	14°11	18° 1	6°59	22°35	23°51	22°42	n.a.	T 17
F 18	3 32 43	22°44'20	14♉55	1°22	13° 4	21°32	29° 9	22°48	14°12	18° 3	7° 0	22°26	23°47	22°48	n.a.	F 18
S 19	3 36 40	23°45'31	0♊17	2°26	14°19	22° 7	29°19	22°43	14°13	18° 4	7° 0	22°17	23°44	22°55	n.a.	S 19
S 20	3 40 36	24°46'43	15°31	3°34	15°35	22°43	29°29	22°38	14°14	18° 6	7° 1	22°10	23°41	23° 2	n.a.	S 20
M21	3 44 33	25°47'55	0♋29	4°44	16°50	23°19	29°39	22°33	14°15	18° 8	7° 2	22° 6	23°38	23° 8	n.a.	M21
T 22	3 48 30	26°49'08	15° 2	5°57	18° 6	23°55	29°49	22°28	14°16	18°10	7° 2	22° 4	23°35	23°15	n.a.	T 22
W23	3 52 26	27°50'21	29° 6	7°12	19°22	24°30	29°58	22°23	14°18	18°12	7° 3	22°D 4	23°32	23°22	n.a.	W23
T 24	3 56 23	28°51'35	12♌43	8°28	20°37	25° 6	0♎ 8	22°18	14°19	18°14	7° 4	22° 5	23°28	23°28	n.a.	T 24
F 25	4 0 19	29°52'50	25°53	9°47	21°53	25°41	0°17	22°13	14°20	18°16	7° 5	22°R 5	23°25	23°35	n.a.	F 25
S 26	4 4 16	0♐54'05	8♍40	11° 7	23° 8	26°17	0°27	22° 8	14°22	18°17	7° 6	22° 5	23°22	23°42	n.a.	S 26
S 27	4 8 12	1°55'20	21° 9	12°28	24°24	26°52	0°36	22° 3	14°23	18°19	7° 6	22° 3	23°19	23°49	n.a.	S 27
M28	4 12 9	2°56'36	3♎24	13°50	25°39	27°28	0°45	21°58	14°25	18°21	7° 7	21°59	23°16	23°55	n.a.	M28
T 29	4 16 6	3°57'52	15°28	15°14	26°55	28° 3	0°54	21°54	14°27	18°23	7° 8	21°52	23°13	24° 2	n.a.	T 29
W30	4 20 2	4♐59'09	27♎25	16♏38	28♏10	28♍38	1♎ 3	21♉49	14♒28	18♎24	7♒ 9	21♋44	23♋ 9	24♏ 9	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s29	1n49	4n45	10s47	1n13	7s25	1n13	8n48	1n30	2n44	1n15	17n10	1s56	17s32	0s45	5s10	1n55	31s 9	12s51	21n29	21n26	13s44		n.a.
W 2	13 49	2s42	4 58	10 4	1 31	7 55	1 11	8 34	1 30	2 39	1 16	17 8	1 56	17 32	0 45	5 11	1 55	31 8	12 50	21 31	21 27	13 46		n.a.
T 3	14 10	7 5	4 58	9 26	1 47	8 24	1 9	8 20	1 31	2 35	1 16	17 7	1 56	17 32	0 45	5 12	1 55	31 8	12 50	21 34	21 27	13 48		n.a.
F 4	14 29	11 11	4 45	8 53	2 1	8 54	1 8	8 7	1 31	2 30	1 16	17 6	1 56	17 31	0 45	5 13	1 55	31 8	12 50	21 36	21 28	13 50		n.a.
S 5	14 49	14 51	4 19	8 25	2 12	9 23	1 6	7 53	1 31	2 26	1 16	17 5	1 56	17 31	0 45	5 13	1 55	31 7	12 50	21 39	21 28	13 52		n.a.
S 6	15 9	17 55	3 42	8 3	2 22	9 52	1 4	7 39	1 31	2 21	1 16	17 4	1 56	17 31	0 45	5 14	1 55	31 7	12 49	21 41	21 29	13 55		n.a.
M 7	15 28	20 15	2 55	7 48	2 29	10 21	1 3	7 25	1 32	2 17	1 16	17 3	1 56	17 31	0 45	5 15	1 55	31 7	12 49	21 42	21 29	13 57		n.a.
T 8	15 47	21 42	2 1	7 38	2 35	10 49	1 1	7 11	1 32	2 13	1 16	17 2	1 56	17 31	0 45	5 16	1 55	31 6	12 49	21 43	21 30	13 59		n.a.
W 9	16 6	22 12	1 0	7 34	2 39	11 18	0 59	6 57	1 32	2 9	1 16	17 0	1 56	17 31	0 45	5 16	1 55	31 6	12 49	21 43	21 31	14 1		n.a.
T 10	16 24	21 39	0s 4	7 35	2 41	11 46	0 57	6 43	1 32	2 4	1 17	16 59	1 56	17 30	0 45	5 17	1 55	31 6	12 48	21 44	21 31	14 3		n.a.
F 11	16 42	20 3	1 10	7 41	2 41	12 13	0 55	6 29	1 33	2 0	1 17	16 58	1 56	17 30	0 45	5 18	1 55	31 5	12 48	21 43	21 32	14 5		n.a.
S 12	17 0	17 24	2 14	7 51	2 41	12 41	0 53	6 15	1 33	1 56	1 17	16 57	1 56	17 30	0 44	5 19	1 55	31 5	12 48	21 43	21 32	14 7		n.a.
S 13	17 17	13 48	3 13	8 5	2 39	13 8	0 51	6 0	1 33	1 52	1 17	16 56	1 56	17 30	0 44	5 19	1 55	31 4	12 47	21 44	21 33	14 9		n.a.
M14	17 35	9 22	4 3	8 22	2 36	13 35	0 49	5 46	1 33	1 48	1 17	16 54	1 55	17 29	0 44	5 20	1 55	31 4	12 47	21 44	21 33	14 11		n.a.
T 15	17 51	4 17	4 40	8 42	2 33	14 1	0 47	5 32	1 33	1 44	1 17	16 53	1 55	17 29	0 44	5 21	1 55	31 4	12 47	21 45	21 34	14 14		n.a.
W16	18 8	1n12	5 1	9 4	2 29	14 27	0 45	5 18	1 34	1 40	1 18	16 52	1 55	17 29	0 44	5 22	1 55	31 3	12 47	21 46	21 35	14 16		n.a.
T 17	18 24	6 46	5 2	9 29	2 24	14 53	0 42	5 4	1 34	1 36	1 18	16 51	1 55	17 28	0 44	5 22	1 55	31 3	12 46	21 48	21 35	14 18		n.a.
F 18	18 40	12 1	4 41	9 55	2 18	15 18	0 40	4 50	1 34	1 32	1 18	16 50	1 55	17 28	0 44	5 23	1 55	31 2	12 46	21 50	21 36	14 20		n.a.
S 19	18 56	16 32	4 0	10 23	2 12	15 43	0 38	4 36	1 34	1 28	1 18	16 48	1 55	17 28	0 44	5 24	1 55	31 2	12 46	21 51	21 36	14 22		n.a.
S 20	19 11	19 54	3 2	10 52	2 6	16 7	0 36	4 22	1 34	1 24	1 18	16 47	1 55	17 27	0 44	5 25	1 55	31 2	12 46	21 52	21 37	14 24		n.a.
M21	19 26	21 50	1 53	11 22	1 59	16 31	0 34	4 8	1 35	1 20	1 18	16 46	1 55	17 27	0 44	5 25	1 55	31 1	12 45	21 53	21 37	14 26		n.a.
T 22	19 40	22 14	0 38	11 53	1 53	16 55	0 31	3 54	1 35	1 16	1 19	16 45	1 55	17 26	0 44	5 26	1 55	31 1	12 45	21 53	21 38	14 28		n.a.
W23	19 54	21 11	0n38	12 25	1 46	17 18	0 29	3 39	1 35	1 13	1 19	16 44	1 55	17 26	0 44	5 27	1 55	31 0	12 45	21 53	21 38	14 30		n.a.
T 24	20 8	18 55	1 49	12 57	1 38	17 41	0 27	3 25	1 35	1 9	1 19	16 43	1 55	17 26	0 44	5 27	1 55	31 0	12 45	21 53	21 39	14 32		n.a.
F 25	20 22	15 43	2 51	13 29	1 31	18 3	0 24	3 11	1 35	1 5	1 19	16 41	1 54	17 25	0 44	5 28	1 55	30 59	12 44	21 53	21 39	14 34		n.a.
S 26	20 34	11 52	3 44	14 1	1 23	18 25	0 22	2 57	1 35	1 2	1 19	16 40	1 54	17 25	0 44	5 29	1 55	30 59	12 44	21 53	21 40	14 37		n.a.
S 27	20 47	7 35	4 24	14 33	1 16	18 46	0 20	2 43	1 36	0 58	1 19	16 39	1 54	17 24	0 44	5 29	1 55	30 58	12 44	21 53	21 41	14 39		n.a.
M28	20 59	3 5	4 51	15 5	1 8	19 7	0 17	2 29	1 36	0 55	1 20	16 38	1 54	17 24	0 44	5 30	1 55	30 58	12 44	21 54	21 41	14 41		n.a.
T 29	21 11	1s28	5 5	15 37	1 1	19 27	0 15	2 15	1 36	0 51	1 20	16 37	1 54	17 23	0 44	5 30	1 56	30 57	12 43	21 55	21 42	14 43		n.a.
W30	21s22	5s55	5n 6	16s 9	0n53	19s47	0n13	2n 1	1n36	0n48	1n20	16n36	1s54	17s23	0s44	5s31	1n56	30s57	12s43	21n56	21n42	14s45		n.a.

Julian Day Number = 1656347.5, Delta T = 03h28m11s
Ecliptic obliquity = 23°42'57, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°31'40, Lahiri = - 6°24'39 Julian Calendar 1 Nov. 179 BCE == Greg. Calendar 29 Oct. 179 BCE

The year -178 astronomical counting style corresponds to year 179 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 179 BCE
geocentric

DECEMBER 179 BCE (-178) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 23 59	6♐ 0'25	9♏18	18♏ 3	29♏26	29♍14	1♎12	21°R44	14♒30	18♎26	7♒10	21°R35	23♋ 6	24♏15	n.a.	T 1
F 2	4 27 55	7° 1'42	21° 9	19°29	0♐41	29°49	1°20	21♉39	14°32	18°28	7°11	21♋25	23° 3	24°22	n.a.	F 2
S 3	4 31 52	8° 2'59	3♐ 0	20°56	1°57	0♎24	1°29	21°35	14°33	18°29	7°12	21°17	23° 0	24°29	n.a.	S 3
S 4	4 35 48	9° 4'16	14°52	22°23	3°13	0°59	1°37	21°30	14°35	18°31	7°13	21° 9	22°57	24°36	n.a.	S 4
M 5	4 39 45	10° 5'32	26°47	23°51	4°28	1°34	1°45	21°25	14°37	18°32	7°14	21° 4	22°53	24°42	n.a.	M 5
T 6	4 43 41	11° 6'49	8♑47	25°19	5°44	2° 9	1°53	21°21	14°39	18°34	7°15	21° 1	22°50	24°49	n.a.	T 6
W 7	4 47 38	12° 8'05	20°55	26°48	6°59	2°44	2° 1	21°16	14°41	18°36	7°16	21°D 1	22°47	24°56	n.a.	W 7
T 8	4 51 35	13° 9'20	3♒12	28°17	8°15	3°19	2° 9	21°12	14°43	18°37	7°17	21° 1	22°44	25° 2	n.a.	T 8
F 9	4 55 31	14°10'36	15°42	29°47	9°30	3°54	2°17	21° 7	14°45	18°39	7°18	21° 3	22°41	25° 9	n.a.	F 9
S 10	4 59 28	15°11'50	28°28	1♓18	10°46	4°29	2°25	21° 3	14°47	18°40	7°19	21° 4	22°38	25°16	n.a.	S 10
S 11	5 3 24	16°13'04	11♓35	2°49	12° 1	5° 3	2°32	20°59	14°49	18°41	7°20	21°R 5	22°34	25°22	n.a.	S 11
M12	5 7 21	17°14'17	25° 4	4°20	13°16	5°38	2°39	20°55	14°51	18°43	7°21	21° 5	22°31	25°29	n.a.	M12
T 13	5 11 17	18°15'29	8♈59	5°52	14°32	6°13	2°47	20°50	14°54	18°44	7°22	21° 4	22°28	25°36	n.a.	T 13
W14	5 15 14	19°16'41	23°20	7°24	15°47	6°47	2°54	20°46	14°56	18°45	7°24	21° 0	22°25	25°43	n.a.	W14
T 15	5 19 10	20°17'51	8♉ 3	8°57	17° 3	7°22	3° 1	20°42	14°58	18°47	7°25	20°56	22°22	25°49	n.a.	T 15
F 16	5 23 7	21°19'01	23° 3	10°30	18°18	7°56	3° 7	20°38	15° 0	18°48	7°26	20°52	22°19	25°56	n.a.	F 16
S 17	5 27 4	22°20'10	8♊13	12° 4	19°34	8°30	3°14	20°34	15° 3	18°49	7°27	20°48	22°15	26° 3	n.a.	S 17
S 18	5 31 0	23°21'19	23°21	13°38	20°49	9° 5	3°20	20°31	15° 5	18°51	7°28	20°44	22°12	26° 9	n.a.	S 18
M19	5 34 57	24°22'27	8♋20	15°13	22° 4	9°39	3°27	20°27	15° 8	18°52	7°30	20°43	22° 9	26°16	n.a.	M19
T 20	5 38 53	25°23'34	22°59	16°48	23°20	10°13	3°33	20°23	15°10	18°53	7°31	20°D42	22° 6	26°23	n.a.	T 20
W21	5 42 50	26°24'41	7♌14	18°24	24°35	10°47	3°39	20°20	15°13	18°54	7°32	20°43	22° 3	26°29	n.a.	W21
T 22	5 46 46	27°25'47	21° 2	20° 0	25°50	11°21	3°45	20°16	15°15	18°55	7°34	20°44	21°59	26°36	n.a.	T 22
F 23	5 50 43	28°26'52	4♍22	21°37	27° 6	11°55	3°51	20°13	15°18	18°56	7°35	20°46	21°56	26°43	n.a.	F 23
S 24	5 54 40	29°27'57	17°18	23°15	28°21	12°29	3°56	20°10	15°20	18°57	7°36	20°47	21°53	26°50	n.a.	S 24
S 25	5 58 36	0♑29'01	29°51	24°53	29°36	13° 2	4° 1	20° 7	15°23	18°58	7°38	20°R48	21°50	26°56	n.a.	S 25
M26	6 2 33	1°30'04	12♎ 8	26°32	0♑52	13°36	4° 7	20° 3	15°26	18°59	7°39	20°47	21°47	27° 3	n.a.	M26
T 27	6 6 29	2°31'07	24°11	28°11	2° 7	14°10	4°12	20° 0	15°28	19° 0	7°40	20°46	21°44	27°10	n.a.	T 27
W28	6 10 26	3°32'08	6♏ 6	29°51	3°22	14°43	4°17	19°57	15°31	19° 1	7°42	20°44	21°40	27°16	n.a.	W28
T 29	6 14 22	4°33'10	17°56	1♑32	4°38	15°16	4°21	19°55	15°34	19° 2	7°43	20°41	21°37	27°23	n.a.	T 29
F 30	6 18 19	5°34'10	29°46	3°13	5°53	15°50	4°26	19°52	15°37	19° 3	7°45	20°39	21°34	27°30	n.a.	F 30
S 31	6 22 15	6♑35'09	11♐38	4♑55	7♑ 8	16♎23	4♎30	19♉49	15♒39	19♎ 4	7♒46	20♋36	21♋31	27♏36	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	21s33	10s 8	4n53	16s41	0n45	20s 6	0n10	1n47	1n36	0n45	1n20	16n35	1s54	17s22	0s44	5s32	1n56	30s56	12s43	21n58	21n43	14s47			n.a.
F 2	21 44	13 57	4 27	17 12	0 38	20 24	0 8	1 33	1 36	0 41	1 20	16 34	1 54	17 22	0 44	5 32	1 56	30 56	12 43	21 59	21 43	14 49			n.a.
S 3	21 54	17 14	3 50	17 43	0 30	20 42	0 5	1 19	1 37	0 38	1 21	16 33	1 53	17 21	0 44	5 33	1 56	30 56	12 42	22 1	21 44	14 51			n.a.
S 4	22 4	19 49	3 3	18 13	0 23	20 59	0 3	1 5	1 37	0 35	1 21	16 31	1 53	17 20	0 44	5 33	1 56	30 55	12 42	22 2	21 44	14 53			n.a.
M 5	22 13	21 33	2 8	18 42	0 15	21 16	0 1	0 51	1 37	0 32	1 21	16 30	1 53	17 20	0 44	5 34	1 56	30 55	12 42	22 3	21 45	14 55			n.a.
T 6	22 22	22 19	1 6	19 11	0 8	21 32	0s 2	0 37	1 37	0 29	1 21	16 29	1 53	17 19	0 44	5 34	1 56	30 54	12 42	22 3	21 45	14 57			n.a.
W 7	22 30	22 4	0 1	19 39	0 1	21 48	0 4	0 23	1 37	0 26	1 21	16 28	1 53	17 19	0 44	5 35	1 56	30 54	12 41	22 3	21 46	14 59			n.a.
T 8	22 38	20 44	1s 6	20 7	0s 6	22 3	0 7	0 9	1 37	0 23	1 22	16 27	1 53	17 18	0 44	5 36	1 56	30 53	12 41	22 3	21 46	15 1			n.a.
F 9	22 46	18 23	2 11	20 33	0 13	22 17	0 9	0s 5	1 37	0 20	1 22	16 26	1 52	17 17	0 44	5 36	1 56	30 53	12 41	22 3	21 47	15 3			n.a.
S 10	22 53	15 6	3 10	20 59	0 20	22 30	0 11	0 19	1 38	0 17	1 22	16 25	1 52	17 17	0 44	5 37	1 56	30 52	12 41	22 3	21 48	15 5			n.a.
S 11	23 0	11 1	4 1	21 24	0 27	22 43	0 14	0 32	1 38	0 14	1 22	16 24	1 52	17 16	0 44	5 37	1 56	30 52	12 41	22 2	21 48	15 7			n.a.
M12	23 6	6 16	4 41	21 48	0 34	22 55	0 16	0 46	1 38	0 11	1 23	16 24	1 52	17 15	0 44	5 38	1 56	30 51	12 40	22 2	21 49	15 10			n.a.
T 13	23 11	1 4	5 6	22 11	0 40	23 7	0 18	1 0	1 38	0 9	1 23	16 23	1 52	17 15	0 43	5 38	1 56	30 51	12 40	22 3	21 49	15 12			n.a.
W14	23 17	4n20	5 12	22 33	0 46	23 17	0 21	1 14	1 38	0 6	1 23	16 22	1 51	17 14	0 43	5 38	1 56	30 50	12 40	22 3	21 50	15 14			n.a.
T 15	23 21	9 38	4 59	22 55	0 52	23 27	0 23	1 27	1 38	0 4	1 23	16 21	1 51	17 13	0 43	5 39	1 56	30 49	12 40	22 4	21 50	15 16			n.a.
F 16	23 26	14 29	4 25	23 15	0 58	23 37	0 25	1 41	1 38	0 1	1 23	16 20	1 51	17 13	0 43	5 39	1 56	30 49	12 40	22 5	21 51	15 18			n.a.
S 17	23 29	18 26	3 32	23 33	1 4	23 45	0 27	1 54	1 38	0s 1	1 24	16 19	1 51	17 12	0 43	5 40	1 56	30 48	12 39	22 5	21 51	15 20			n.a.
S 18	23 33	21 8	2 25	23 51	1 10	23 53	0 30	2 8	1 39	0 4	1 24	16 18	1 51	17 11	0 43	5 40	1 57	30 48	12 39	22 6	21 52	15 22			n.a.
M19	23 36	22 20	1 8	24 8	1 15	24 0	0 32	2 21	1 39	0 6	1 24	16 18	1 50	17 10	0 43	5 41	1 57	30 47	12 39	22 6	21 52	15 24			n.a.
T 20	23 38	21 56	0n13	24 23	1 20	24 7	0 34	2 35	1 39	0 8	1 24	16 17	1 50	17 10	0 43	5 41	1 57	30 47	12 39	22 6	21 53	15 26			n.a.
W21	23 40	20 7	1 30	24 37	1 25	24 12	0 36	2 48	1 39	0 11	1 25	16 16	1 50	17 9	0 43	5 41	1 57	30 46	12 39	22 6	21 53	15 28			n.a.
T 22	23 41	17 10	2 39	24 49	1 30	24 17	0 38	3 1	1 39	0 13	1 25	16 15	1 50	17 8	0 43	5 42	1 57	30 46	12 39	22 6	21 54	15 30			n.a.
F 23	23 42	13 23	3 38	25 1	1 34	24 21	0 41	3 15	1 39	0 15	1 25	16 15	1 50	17 7	0 43	5 42	1 57	30 45	12 38	22 5	21 54	15 32			n.a.
S 24	23 43	9 6	4 23	25 10	1 38	24 25	0 43	3 28	1 39	0 17	1 25	16 14	1 49	17 7	0 43	5 42	1 57	30 45	12 38	22 5	21 55	15 34			n.a.
S 25	23 43	4 33	4 55	25 19	1 42	24 28	0 45	3 41	1 39	0 19	1 26	16 13	1 49	17 6	0 43	5 43	1 57	30 44	12 38	22 5	21 55	15 36			n.a.
M26	23 42	0s 4	5 12	25 25	1 45	24 29	0 47	3 54	1 39	0 21	1 26	16 13	1 49	17 5	0 43	5 43	1 57	30 44	12 38	22 5	21 56	15 38			n.a.
T 27	23 41	4 36	5 15	25 31	1 49	24 30	0 49	4 7	1 39	0 22	1 26	16 12	1 49	17 4	0 43	5 43	1 57	30 43	12 38	22 5	21 56	15 40			n.a.
W28	23 40	8 55	5 4	25 34	1 51	24 31	0 51	4 20	1 39	0 24	1 26	16 12	1 48	17 3	0 43	5 44	1 57	30 43	12 38	22 6	21 57	15 42			n.a.
T 29	23 38	12 53	4 41	25 36	1 54	24 30	0 52	4 33	1 39	0 26	1 27	16 11	1 48	17 2	0 43	5 44	1 57	30 42	12 38	22 6	21 57	15 44			n.a.
F 30	23 36	16 20	4 5	25 37	1 56	24 29	0 54	4 46	1 39	0 27	1 27	16 11	1 48	17 2	0 43	5 44	1 57	30 42	12 37	22 7	21 58	15 46			n.a.
S 31	23s33	19s 9	3n19	25s36	1s58	24s27	0s56	4s59	1n39	0s29	1n27	16n10	1s48	17s 1	0s43	5s44	1n57	30s41	12s37	22n 7	21n58	15s48			n.a.

Julian Day Number = 1656377.5, Delta T = 03h28m10s
Ecliptic obliquity = 23°42'56, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°31'36, Lahiri = - 6°24'35 Julian Calendar 1 Dec. 179 BCE == Greg. Calendar 28 Nov. 179 BCE

The year -178 astronomical counting style corresponds to year 179 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 178 BCE
geocentric

JANUARY 178 BCE (-177) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 26 12	7♉36'07	23♐35	6♉38	8♉23	16♎56	4♎35	19°R47	15♒42	19♎ 4	7♒47	20°R34	21♋28	27♏43	n.a.	S 1
M 2	6 30 9	8°37'04	5♉38	8°21	9°39	17°29	4°39	19♉44	15°45	19° 5	7°49	20♋33	21°25	27°50	n.a.	M 2
T 3	6 34 5	9°38'00	17°50	10° 5	10°54	18° 2	4°43	19°42	15°48	19° 6	7°50	20°D33	21°21	27°57	n.a.	T 3
W 4	6 38 2	10°38'55	0♒12	11°50	12° 9	18°35	4°46	19°40	15°51	19° 7	7°52	20°33	21°18	28° 3	n.a.	W 4
T 5	6 41 58	11°39'48	12°45	13°36	13°24	19° 8	4°50	19°38	15°54	19° 7	7°53	20°34	21°15	28°10	n.a.	T 5
F 6	6 45 55	12°40'40	25°31	15°22	14°40	19°40	4°53	19°36	15°57	19° 8	7°55	20°34	21°12	28°17	n.a.	F 6
S 7	6 49 51	13°41'30	8♓31	17° 8	15°55	20°13	4°56	19°34	16° 0	19° 8	7°56	20°35	21° 9	28°23	n.a.	S 7
S 8	6 53 48	14°42'19	21°46	18°56	17°10	20°45	4°59	19°32	16° 3	19° 9	7°58	20°36	21° 5	28°30	n.a.	S 8
M 9	6 57 44	15°43'06	5♈17	20°44	18°25	21°17	5° 2	19°30	16° 6	19°10	7°59	20°36	21° 2	28°37	n.a.	M 9
T 10	7 1 41	16°43'51	19° 6	22°32	19°40	21°50	5° 5	19°29	16° 9	19°10	8° 1	20°R36	20°59	28°43	n.a.	T 10
W11	7 5 38	17°44'34	3♉12	24°21	20°55	22°22	5° 7	19°27	16°12	19°10	8° 3	20°36	20°56	28°50	n.a.	W11
T 12	7 9 34	18°45'16	17°35	26°10	22°11	22°54	5°10	19°26	16°15	19°11	8° 4	20°36	20°53	28°57	n.a.	T 12
F 13	7 13 31	19°45'56	2♊10	28° 0	23°26	23°25	5°12	19°25	16°19	19°11	8° 6	20°36	20°50	29° 3	n.a.	F 13
S 14	7 17 27	20°46'34	16°53	29°49	24°41	23°57	5°13	19°24	16°22	19°12	8° 7	20°D36	20°46	29°10	n.a.	S 14
S 15	7 21 24	21°47'10	1♋38	1♒38	25°56	24°29	5°15	19°23	16°25	19°12	8° 9	20°36	20°43	29°17	n.a.	S 15
M16	7 25 20	22°47'45	16°18	3°28	27°11	25° 0	5°17	19°22	16°28	19°12	8°10	20°R36	20°40	29°24	n.a.	M16
T 17	7 29 17	23°48'18	0♌47	5°16	28°26	25°32	5°18	19°21	16°31	19°12	8°12	20°36	20°37	29°30	n.a.	T 17
W18	7 33 14	24°48'49	14°58	7° 4	29°41	26° 3	5°19	19°20	16°35	19°13	8°14	20°36	20°34	29°37	n.a.	W18
T 19	7 37 10	25°49'19	28°47	8°51	0♒56	26°34	5°20	19°20	16°38	19°13	8°15	20°35	20°31	29°44	n.a.	T 19
F 20	7 41 7	26°49'47	12♍13	10°36	2°11	27° 5	5°21	19°19	16°41	19°13	8°17	20°34	20°27	29°50	n.a.	F 20
S 21	7 45 3	27°50'13	25°15	12°20	3°26	27°36	5°22	19°19	16°44	19°13	8°18	20°33	20°24	29°57	n.a.	S 21
S 22	7 49 0	28°50'38	7♎55	14° 1	4°41	28° 6	5°22	19°19	16°48	19°13	8°20	20°33	20°21	0♐ 4	n.a.	S 22
M23	7 52 56	29°51'02	20°16	15°39	5°56	28°37	5°22	19°D18	16°51	19°13	8°22	20°32	20°18	0°10	n.a.	M23
T 24	7 56 53	0♒51'24	2♏22	17°14	7°11	29° 7	5°R22	19°18	16°54	19°R13	8°23	20°D32	20°15	0°17	n.a.	T 24
W25	8 0 49	1°51'44	14°18	18°45	8°25	29°38	5°22	19°19	16°58	19°13	8°25	20°32	20°11	0°24	n.a.	W25
T 26	8 4 46	2°52'03	26° 9	20°11	9°40	0♏ 8	5°22	19°19	17° 1	19°13	8°27	20°33	20° 8	0°31	n.a.	T 26
F 27	8 8 42	3°52'21	7♐59	21°33	10°55	0°38	5°21	19°19	17° 4	19°13	8°28	20°34	20° 5	0°37	n.a.	F 27
S 28	8 12 39	4°52'36	19°53	22°48	12°10	1° 7	5°20	19°20	17° 8	19°13	8°30	20°36	20° 2	0°44	n.a.	S 28
S 29	8 16 36	5°52'50	1♉54	23°57	13°25	1°37	5°20	19°20	17°11	19°13	8°32	20°37	19°59	0°51	n.a.	S 29
M30	8 20 32	6°53'03	14° 6	25° 0	14°40	2° 6	5°18	19°21	17°15	19°13	8°33	20°38	19°56	0°57	n.a.	M30
T 31	8 24 29	7♒53'13	26♉31	25♒54	15♒55	2♏36	5♎17	19♉22	17♒18	19♎12	8♒35	20°R38	19♋52	1♐ 4	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	23s30	21s10	2n24	25s32	2s 0	24s25	0s58	5s12	1n39	0s30	1n27	16n10	1s47	17s 0	0s43	5s45	1n57	30s41	12s37	22n 7	21n59	15s50			n.a.
M 2	23 26	22 14	1 22	25 28	2 1	24 21	1 0	5 25	1 39	0 32	1 28	16 9	1 47	16 59	0 43	5 45	1 57	30 40	12 37	22 7	21 59	15 52			n.a.
T 3	23 22	22 16	0 15	25 21	2 2	24 17	1 1	5 37	1 39	0 33	1 28	16 9	1 47	16 58	0 43	5 45	1 58	30 40	12 37	22 7	22 0	15 54			n.a.
W 4	23 17	21 12	0s53	25 12	2 2	24 12	1 3	5 50	1 39	0 34	1 28	16 9	1 47	16 57	0 43	5 45	1 58	30 39	12 37	22 7	22 0	15 56			n.a.
T 5	23 12	19 6	2 0	25 2	2 2	24 6	1 5	6 2	1 39	0 36	1 28	16 8	1 46	16 56	0 43	5 45	1 58	30 39	12 37	22 7	22 1	15 58			n.a.
F 6	23 6	16 1	3 2	24 49	2 1	24 0	1 6	6 15	1 39	0 37	1 29	16 8	1 46	16 55	0 43	5 46	1 58	30 38	12 37	22 7	22 1	16 0			n.a.
S 7	23 0	12 7	3 56	24 35	2 0	23 52	1 8	6 27	1 39	0 38	1 29	16 8	1 46	16 54	0 43	5 46	1 58	30 38	12 37	22 7	22 2	16 2			n.a.
S 8	22 54	7 33	4 38	24 19	1 58	23 44	1 9	6 40	1 39	0 39	1 29	16 7	1 46	16 53	0 43	5 46	1 58	30 37	12 37	22 7	22 2	16 4			n.a.
M 9	22 47	2 33	5 6	24 0	1 56	23 36	1 10	6 52	1 39	0 40	1 29	16 7	1 45	16 52	0 43	5 46	1 58	30 37	12 36	22 7	22 3	16 6			n.a.
T 10	22 39	2n40	5 17	23 40	1 53	23 26	1 12	7 4	1 39	0 40	1 30	16 7	1 45	16 52	0 43	5 46	1 58	30 36	12 36	22 7	22 3	16 8			n.a.
W11	22 31	7 52	5 10	23 18	1 50	23 16	1 13	7 16	1 39	0 41	1 30	16 7	1 45	16 51	0 43	5 46	1 58	30 36	12 36	22 7	22 4	16 10			n.a.
T 12	22 23	12 45	4 43	22 53	1 46	23 5	1 14	7 28	1 39	0 42	1 30	16 7	1 45	16 50	0 43	5 46	1 58	30 35	12 36	22 7	22 4	16 12			n.a.
F 13	22 14	16 57	3 58	22 27	1 41	22 54	1 15	7 40	1 39	0 42	1 30	16 7	1 44	16 49	0 43	5 47	1 58	30 35	12 36	22 7	22 5	16 14			n.a.
S 14	22 5	20 8	2 57	21 59	1 36	22 42	1 17	7 52	1 39	0 43	1 31	16 7	1 44	16 48	0 43	5 47	1 58	30 34	12 36	22 7	22 5	16 16			n.a.
S 15	21 56	21 59	1 43	21 29	1 30	22 29	1 18	8 4	1 39	0 43	1 31	16 7	1 44	16 47	0 43	5 47	1 58	30 34	12 36	22 7	22 6	16 18			n.a.
M16	21 46	22 19	0 24	20 57	1 23	22 15	1 19	8 15	1 39	0 44	1 31	16 7	1 44	16 46	0 43	5 47	1 58	30 33	12 36	22 7	22 6	16 20			n.a.
T 17	21 35	21 8	0n56	20 24	1 16	22 1	1 20	8 27	1 39	0 44	1 31	16 7	1 43	16 45	0 43	5 47	1 59	30 33	12 36	22 7	22 7	16 22			n.a.
W18	21 25	18 37	2 11	19 49	1 8	21 46	1 21	8 38	1 39	0 44	1 32	16 7	1 43	16 44	0 43	5 47	1 59	30 32	12 36	22 7	22 7	16 24			n.a.
T 19	21 14	15 6	3 17	19 12	0 59	21 30	1 21	8 50	1 39	0 44	1 32	16 7	1 43	16 43	0 43	5 47	1 59	30 32	12 36	22 7	22 8	16 26			n.a.
F 20	21 2	10 53	4 9	18 34	0 50	21 14	1 22	9 1	1 39	0 44	1 32	16 7	1 43	16 42	0 43	5 47	1 59	30 31	12 36	22 7	22 8	16 28			n.a.
S 21	20 50	6 17	4 47	17 56	0 39	20 57	1 23	9 13	1 38	0 44	1 33	16 7	1 42	16 41	0 43	5 47	1 59	30 31	12 36	22 7	22 9	16 30			n.a.
S 22	20 38	1 33	5 10	17 16	0 28	20 40	1 24	9 24	1 38	0 44	1 33	16 7	1 42	16 40	0 43	5 47	1 59	30 30	12 36	22 7	22 9	16 32			n.a.
M23	20 25	3s 7	5 17	16 35	0 16	20 22	1 24	9 35	1 38	0 44	1 33	16 8	1 42	16 39	0 43	5 47	1 59	30 30	12 36	22 8	22 10	16 33			n.a.
T 24	20 12	7 35	5 10	15 55	0 4	20 3	1 25	9 46	1 38	0 44	1 33	16 8	1 41	16 38	0 43	5 47	1 59	30 29	12 36	22 8	22 10	16 35			n.a.
W25	19 58	11 42	4 50	15 14	0n 9	19 44	1 25	9 57	1 38	0 44	1 34	16 8	1 41	16 37	0 43	5 47	1 59	30 29	12 36	22 8	22 11	16 37			n.a.
T 26	19 45	15 20	4 18	14 34	0 23	19 24	1 26	10 8	1 38	0 43	1 34	16 8	1 41	16 36	0 43	5 46	1 59	30 28	12 36	22 7	22 11	16 39			n.a.
F 27	19 30	18 22	3 35	13 54	0 37	19 4	1 26	10 18	1 37	0 43	1 34	16 9	1 41	16 34	0 43	5 46	1 59	30 28	12 36	22 7	22 12	16 41			n.a.
S 28	19 16	20 38	2 42	13 16	0 52	18 43	1 26	10 29	1 37	0 42	1 34	16 9	1 40	16 33	0 43	5 46	1 59	30 27	12 36	22 7	22 12	16 43			n.a.
S 29	19 1	22 0	1 42	12 39	1 6	18 22	1 27	10 39	1 37	0 42	1 35	16 10	1 40	16 32	0 43	5 46	1 59	30 27	12 36	22 7	22 13	16 45			n.a.
M30	18 46	22 22	0 36	12 4	1 22	18 0	1 27	10 50	1 37	0 41	1 35	16 10	1 40	16 31	0 43	5 46	1 59	30 26	12 36	22 7	22 13	16 47			n.a.
T 31	18s30	21s38	0s32	11s31	1n37	17s38	1s27	11s 0	1n36	0s40	1n35	16n10	1s40	16s30	0s43	5s46	1n59	30s26	12s36	22n 7	22n14	16s49			n.a.

Julian Day Number = 1656408.5, Delta T = 03h28m09s
Ecliptic obliquity = 23°42'56, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°31'32, Lahiri = - 6°24'31 Julian Calendar 1 Jan. 178 BCE == Greg. Calendar 29 Dec. 179 BCE

The year -177 astronomical counting style corresponds to year 178 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 178 BCE
geocentric

FEBRUARY 178 BCE (-177) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	8 28 25	8♒53'22	9♒10	26♒41	17♒ 9	3♏ 5	5°R16	19♉23	17♒21	19°R12	8♒37	20°R37	19♋49	1♐11	n.a.	W 1
T 2	8 32 22	9°53'28	22° 4	27°19	18°24	3°34	5♎14	19°24	17°25	19♎12	8°38	20♋35	19°46	1°17	n.a.	T 2
F 3	8 36 18	10°53'33	5♓13	27°48	19°39	4° 2	5°12	19°25	17°28	19°11	8°40	20°32	19°43	1°24	n.a.	F 3
S 4	8 40 15	11°53'35	18°36	28° 8	20°54	4°31	5°10	19°26	17°32	19°11	8°41	20°29	19°40	1°31	n.a.	S 4
S 5	8 44 11	12°53'35	2♈12	28°20	22° 8	4°59	5° 8	19°27	17°35	19°11	8°43	20°26	19°36	1°37	n.a.	S 5
M 6	8 48 8	13°53'33	15°59	28°R21	23°23	5°27	5° 5	19°29	17°39	19°10	8°45	20°23	19°33	1°44	n.a.	M 6
T 7	8 52 5	14°53'29	29°55	28°14	24°38	5°55	5° 3	19°30	17°42	19°10	8°46	20°21	19°30	1°51	n.a.	T 7
W 8	8 56 1	15°53'22	13♉59	27°59	25°52	6°23	5° 0	19°32	17°45	19° 9	8°48	20°D20	19°27	1°57	n.a.	W 8
T 9	8 59 58	16°53'13	28° 9	27°34	27° 7	6°50	4°57	19°34	17°49	19° 9	8°50	20°21	19°24	2° 4	n.a.	T 9
F 10	9 3 54	17°53'02	12♊24	27° 3	28°22	7°17	4°54	19°36	17°52	19° 8	8°51	20°22	19°21	2°11	n.a.	F 10
S 11	9 7 51	18°52'48	26°41	26°24	29°36	7°44	4°51	19°38	17°56	19° 8	8°53	20°23	19°17	2°18	n.a.	S 11
S 12	9 11 47	19°52'32	10♋57	25°40	0♓51	8°11	4°47	19°40	17°59	19° 7	8°55	20°25	19°14	2°24	n.a.	S 12
M13	9 15 44	20°52'14	25°10	24°51	2° 5	8°38	4°44	19°42	18° 3	19° 6	8°56	20°R25	19°11	2°31	n.a.	M13
T 14	9 19 40	21°51'54	9♌14	23°58	3°20	9° 4	4°40	19°45	18° 6	19° 6	8°58	20°24	19° 8	2°38	n.a.	T 14
W15	9 23 37	22°51'31	23° 6	23° 3	4°34	9°30	4°36	19°47	18° 9	19° 5	8°59	20°21	19° 5	2°44	n.a.	W15
T 16	9 27 34	23°51'06	6♍43	22° 6	5°49	9°56	4°32	19°50	18°13	19° 4	9° 1	20°16	19° 2	2°51	n.a.	T 16
F 17	9 31 30	24°50'39	20° 2	21°10	7° 3	10°22	4°27	19°52	18°16	19° 4	9° 3	20°11	18°58	2°58	n.a.	F 17
S 18	9 35 27	25°50'10	3♎ 2	20°15	8°17	10°47	4°23	19°55	18°20	19° 3	9° 4	20° 5	18°55	3° 4	n.a.	S 18
S 19	9 39 23	26°49'39	15°42	19°23	9°32	11°12	4°18	19°58	18°23	19° 2	9° 6	19°59	18°52	3°11	n.a.	S 19
M20	9 43 20	27°49'06	28° 5	18°33	10°46	11°37	4°13	20° 1	18°27	19° 1	9° 7	19°54	18°49	3°18	n.a.	M20
T 21	9 47 16	28°48'31	10♏13	17°48	12° 0	12° 1	4° 8	20° 4	18°30	19° 0	9° 9	19°50	18°46	3°24	n.a.	T 21
W22	9 51 13	29°47'54	22°11	17° 7	13°15	12°26	4° 3	20° 7	18°33	18°59	9°10	19°48	18°42	3°31	n.a.	W22
T 23	9 55 9	0♓47'16	4♐ 2	16°32	14°29	12°50	3°58	20°10	18°37	18°58	9°12	19°D48	18°39	3°38	n.a.	T 23
F 24	9 59 6	1°46'36	15°53	16° 2	15°43	13°13	3°53	20°14	18°40	18°58	9°14	19°49	18°36	3°44	n.a.	F 24
S 25	10 3 2	2°45'53	27°47	15°37	16°57	13°37	3°47	20°17	18°43	18°57	9°15	19°50	18°33	3°51	n.a.	S 25
S 26	10 6 59	3°45'09	9♑51	15°19	18°12	14° 0	3°41	20°21	18°47	18°56	9°17	19°52	18°30	3°58	n.a.	S 26
M27	10 10 56	4°44'23	22° 8	15° 7	19°26	14°22	3°36	20°25	18°50	18°55	9°18	19°R52	18°27	4° 5	n.a.	M27
T 28	10 14 52	5♓43'35	4♒42	15♒ 0	20♓40	14♏45	3♎30	20♉28	18♒53	18♎53	9♒20	19♋51	18♋23	4♐11	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
W 1	18s15	19s47	1s41	11s 1	1n52	17s15	1s27	11s10	1n36	0s39	1n35	16n11	1s39	16s29	0s43	5s46	2n 0	30s26	12s36	22n 7	22n14	16s51		n.a.	W 1
T 2	17 58	16 55	2 45	10 33	2 7	16 52	1 27	11 21	1 36	0 39	1 36	16 12	1 39	16 28	0 43	5 45	2 0	30 25	12 36	22 7	22 14	16 53		n.a.	T 2
F 3	17 42	13 8	3 42	10 10	2 22	16 28	1 27	11 31	1 36	0 38	1 36	16 12	1 39	16 27	0 43	5 45	2 0	30 25	12 36	22 8	22 15	16 55		n.a.	F 3
S 4	17 25	8 39	4 27	9 49	2 36	16 4	1 27	11 41	1 35	0 37	1 36	16 13	1 39	16 26	0 43	5 45	2 0	30 24	12 36	22 8	22 15	16 57		n.a.	S 4
S 5	17 8	3 41	4 59	9 33	2 49	15 39	1 26	11 50	1 35	0 35	1 36	16 13	1 38	16 25	0 43	5 45	2 0	30 24	12 36	22 9	22 16	16 59		n.a.	S 5
M 6	16 51	1n32	5 13	9 21	3 1	15 14	1 26	12 0	1 35	0 34	1 37	16 14	1 38	16 24	0 43	5 45	2 0	30 23	12 36	22 9	22 16	17 0		n.a.	M 6
T 7	16 33	6 44	5 10	9 13	3 13	14 48	1 26	12 10	1 34	0 33	1 37	16 15	1 38	16 23	0 43	5 44	2 0	30 23	12 36	22 9	22 17	17 2		n.a.	T 7
W 8	16 15	11 38	4 48	9 9	3 23	14 23	1 25	12 19	1 34	0 32	1 37	16 15	1 37	16 22	0 43	5 44	2 0	30 23	12 36	22 9	22 17	17 4		n.a.	W 8
T 9	15 57	15 56	4 9	9 9	3 31	13 56	1 25	12 29	1 34	0 30	1 37	16 16	1 37	16 21	0 43	5 44	2 0	30 22	12 36	22 9	22 18	17 6		n.a.	T 9
F 10	15 39	19 21	3 14	9 13	3 38	13 30	1 24	12 38	1 33	0 29	1 38	16 17	1 37	16 20	0 43	5 44	2 0	30 22	12 36	22 9	22 18	17 8		n.a.	F 10
S 11	15 20	21 34	2 7	9 22	3 43	13 3	1 24	12 47	1 33	0 27	1 38	16 18	1 37	16 19	0 43	5 43	2 0	30 21	12 37	22 9	22 19	17 10		n.a.	S 11
S 12	15 1	22 24	0 52	9 34	3 47	12 35	1 23	12 56	1 32	0 26	1 38	16 19	1 36	16 18	0 43	5 43	2 0	30 21	12 37	22 9	22 19	17 12		n.a.	S 12
M13	14 42	21 46	0n26	9 49	3 48	12 8	1 22	13 5	1 32	0 24	1 38	16 19	1 36	16 16	0 43	5 43	2 0	30 21	12 37	22 9	22 20	17 14		n.a.	M13
T 14	14 23	19 47	1 41	10 7	3 47	11 40	1 21	13 14	1 31	0 22	1 38	16 20	1 36	16 15	0 43	5 43	2 0	30 20	12 37	22 9	22 20	17 16		n.a.	T 14
W15	14 3	16 38	2 49	10 28	3 44	11 12	1 21	13 23	1 31	0 20	1 39	16 21	1 36	16 14	0 43	5 42	2 0	30 20	12 37	22 9	22 20	17 18		n.a.	W15
T 16	13 43	12 38	3 46	10 50	3 40	10 43	1 20	13 32	1 31	0 19	1 39	16 22	1 35	16 13	0 43	5 42	2 0	30 20	12 37	22 10	22 21	17 19		n.a.	T 16
F 17	13 23	8 6	4 29	11 14	3 33	10 14	1 19	13 40	1 30	0 17	1 39	16 23	1 35	16 12	0 43	5 42	2 0	30 19	12 37	22 11	22 21	17 21		n.a.	F 17
S 18	13 3	3 19	4 57	11 40	3 25	9 45	1 18	13 49	1 29	0 15	1 39	16 24	1 35	16 11	0 43	5 41	2 1	30 19	12 37	22 12	22 22	17 23		n.a.	S 18
S 19	12 43	1s29	5 10	12 5	3 15	9 16	1 16	13 57	1 29	0 13	1 39	16 25	1 35	16 10	0 43	5 41	2 1	30 19	12 37	22 13	22 22	17 25		n.a.	S 19
M20	12 22	6 8	5 8	12 31	3 4	8 46	1 15	14 6	1 28	0 11	1 40	16 26	1 34	16 9	0 43	5 40	2 1	30 18	12 38	22 13	22 23	17 27		n.a.	M20
T 21	12 1	10 26	4 52	12 57	2 52	8 17	1 14	14 14	1 28	0 8	1 40	16 27	1 34	16 8	0 43	5 40	2 1	30 18	12 38	22 14	22 23	17 29		n.a.	T 21
W22	11 40	14 17	4 23	13 22	2 39	7 47	1 13	14 22	1 27	0 6	1 40	16 28	1 34	16 7	0 43	5 40	2 1	30 18	12 38	22 14	22 24	17 31		n.a.	W22
T 23	11 19	17 33	3 43	13 45	2 25	7 16	1 11	14 30	1 26	0 4	1 40	16 29	1 34	16 6	0 43	5 39	2 1	30 17	12 38	22 14	22 24	17 33		n.a.	T 23
F 24	10 58	20 4	2 54	14 8	2 11	6 46	1 10	14 38	1 26	0 2	1 40	16 31	1 33	16 5	0 43	5 39	2 1	30 17	12 38	22 14	22 24	17 34		n.a.	F 24
S 25	10 36	21 45	1 57	14 29	1 56	6 15	1 9	14 45	1 25	0n 1	1 40	16 32	1 33	16 4	0 43	5 38	2 1	30 17	12 38	22 14	22 25	17 36		n.a.	S 25
S 26	10 15	22 27	0 54	14 49	1 41	5 45	1 7	14 53	1 24	0 3	1 41	16 33	1 33	16 3	0 43	5 38	2 1	30 16	12 38	22 14	22 25	17 38		n.a.	S 26
M27	9 53	22 5	0s12	15 7	1 26	5 14	1 5	15 0	1 24	0 6	1 41	16 34	1 33	16 2	0 43	5 38	2 1	30 16	12 39	22 14	22 26	17 40		n.a.	M27
T 28	9s31	20s36	1s19	15s23	1n11	4s43	1s 4	15s 8	1n23	0n 8	1n41	16n35	1s32	16s 1	0s43	5s37	2n 1	30s16	12s39	22n14	22n26	17s42		n.a.	T 28

Julian Day Number = 1656439.5, Delta T = 03h28m08s
Ecliptic obliquity = 23°42'57, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°31'27, Lahiri = - 6°24'27 Julian Calendar 1 Feb. 178 BCE == Greg. Calendar 29 Jan. 178 BCE

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ASTRODIENST EPHEMERIS for the year 178 BCE
geocentric

MARCH 178 BCE (-177) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	10 18 49	6♓42'45	17♒36	14°D59	21♓54	15♏ 7	3°R24	20♉32	18♒57	18°R52	9♒21	19°R48	18♋20	4♐18	n.a.	W 1
T 2	10 22 45	7°41'53	0♓50	15♒ 4	23° 8	15°28	3♎18	20°36	19° 0	18♎51	9°23	19♋42	18°17	4°25	n.a.	T 2
F 3	10 26 42	8°40'59	14°23	15°14	24°22	15°50	3°11	20°40	19° 3	18°50	9°24	19°35	18°14	4°31	n.a.	F 3
S 4	10 30 38	9°40'02	28°13	15°29	25°36	16°10	3° 5	20°44	19° 7	18°49	9°26	19°27	18°11	4°38	n.a.	S 4
S 5	10 34 35	10°39'04	12♈17	15°49	26°50	16°31	2°58	20°48	19°10	18°48	9°27	19°18	18° 8	4°45	n.a.	S 5
M 6	10 38 31	11°38'03	26°28	16°14	28° 4	16°51	2°52	20°53	19°13	18°47	9°29	19°11	18° 4	4°51	n.a.	M 6
T 7	10 42 28	12°36'59	10♉44	16°43	29°18	17°11	2°45	20°57	19°16	18°45	9°30	19° 5	18° 1	4°58	n.a.	T 7
W 8	10 46 25	13°35'54	24°59	17°17	0♈32	17°30	2°38	21° 2	19°20	18°44	9°31	19° 1	17°58	5° 5	n.a.	W 8
T 9	10 50 21	14°34'46	9♊11	17°54	1°46	17°49	2°31	21° 6	19°23	18°43	9°33	19°D 0	17°55	5°11	n.a.	T 9
F 10	10 54 18	15°33'35	23°18	18°36	3° 0	18° 8	2°24	21°11	19°26	18°42	9°34	19° 0	17°52	5°18	n.a.	F 10
S 11	10 58 14	16°32'23	7♋18	19°21	4°14	18°26	2°17	21°16	19°29	18°40	9°36	19° 1	17°48	5°25	n.a.	S 11
S 12	11 2 11	17°31'08	21°12	20° 9	5°28	18°44	2°10	21°20	19°32	18°39	9°37	19°R 1	17°45	5°31	n.a.	S 12
M13	11 6 7	18°29'50	4♌59	21° 1	6°41	19° 1	2° 3	21°25	19°35	18°38	9°38	19° 0	17°42	5°38	n.a.	M13
T 14	11 10 4	19°28'30	18°36	21°56	7°55	19°18	1°56	21°30	19°39	18°36	9°40	18°56	17°39	5°45	n.a.	T 14
W15	11 14 0	20°27'08	2♍ 4	22°54	9° 9	19°34	1°48	21°35	19°42	18°35	9°41	18°50	17°36	5°51	n.a.	W15
T 16	11 17 57	21°25'44	15°20	23°55	10°22	19°50	1°41	21°40	19°45	18°34	9°42	18°42	17°33	5°58	n.a.	T 16
F 17	11 21 53	22°24'18	28°22	24°59	11°36	20° 5	1°33	21°46	19°48	18°32	9°43	18°31	17°29	6° 5	n.a.	F 17
S 18	11 25 50	23°22'49	11♎10	26° 5	12°50	20°20	1°26	21°51	19°51	18°31	9°45	18°20	17°26	6°11	n.a.	S 18
S 19	11 29 47	24°21'19	23°43	27°13	14° 3	20°35	1°18	21°56	19°54	18°29	9°46	18° 9	17°23	6°18	n.a.	S 19
M20	11 33 43	25°19'47	6♏ 1	28°24	15°17	20°49	1°11	22° 2	19°57	18°28	9°47	17°58	17°20	6°25	n.a.	M20
T 21	11 37 40	26°18'13	18° 7	29°38	16°30	21° 2	1° 3	22° 7	20° 0	18°26	9°48	17°50	17°17	6°31	n.a.	T 21
W22	11 41 36	27°16'38	0♐ 4	0♓53	17°44	21°15	0°56	22°13	20° 2	18°25	9°50	17°44	17°13	6°38	n.a.	W22
T 23	11 45 33	28°15'00	11°54	2°11	18°57	21°27	0°48	22°18	20° 5	18°23	9°51	17°41	17°10	6°45	n.a.	T 23
F 24	11 49 29	29°13'22	23°44	3°31	20°10	21°39	0°40	22°24	20° 8	18°22	9°52	17°40	17° 7	6°52	n.a.	F 24
S 25	11 53 26	0♈11'41	5♑38	4°53	21°24	21°50	0°33	22°30	20°11	18°20	9°53	17°D40	17° 4	6°58	n.a.	S 25
S 26	11 57 22	1° 9'59	17°42	6°17	22°37	22° 0	0°25	22°36	20°14	18°19	9°54	17°R40	17° 1	7° 5	n.a.	S 26
M27	12 1 19	2° 8'15	0♒ 0	7°43	23°50	22°10	0°17	22°42	20°17	18°17	9°55	17°39	16°58	7°12	n.a.	M27
T 28	12 5 16	3° 6'29	12°38	9°11	25° 4	22°20	0°10	22°48	20°19	18°16	9°56	17°37	16°54	7°18	n.a.	T 28
W29	12 9 12	4° 4'42	25°39	10°41	26°17	22°28	0° 2	22°54	20°22	18°14	9°58	17°32	16°51	7°25	n.a.	W29
T 30	12 13 9	5° 2'53	9♓ 6	12°12	27°30	22°36	29♍54	23° 0	20°25	18°13	9°59	17°25	16°48	7°32	n.a.	T 30
F 31	12 17 5	6♈ 1'03	22♓57	13♓46	28♈43	22♏44	29♍47	23♉ 6	20♒27	18♎11	10♒ 0	17♋15	16♋45	7♐38	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	9s 9	18s 1	2s24	15s38	0n57	4s12	1s 2	15s15	1n22	0n11	1n41	16n37	1s32	16s 0	0s43	5s37	2n 1	30s16	12s39	22n14	22n27	17s44			n.a.
T 2	8 47	14 27	3 23	15 50	0 42	3 41	1 0	15 22	1 21	0 13	1 41	16 38	1 32	15 59	0 43	5 36	2 1	30 15	12 39	22 15	22 27	17 46			n.a.
F 3	8 24	10 4	4 11	16 1	0 28	3 9	0 59	15 29	1 20	0 16	1 41	16 39	1 32	15 58	0 43	5 36	2 1	30 15	12 39	22 16	22 28	17 47			n.a.
S 4	8 2	5 5	4 46	16 9	0 14	2 38	0 57	15 36	1 19	0 19	1 41	16 41	1 31	15 56	0 43	5 35	2 1	30 15	12 39	22 17	22 28	17 49			n.a.
S 5	7 39	0n15	5 4	16 16	0 1	2 7	0 55	15 43	1 19	0 21	1 42	16 42	1 31	15 55	0 43	5 35	2 1	30 15	12 40	22 18	22 28	17 51			n.a.
M 6	7 17	5 36	5 4	16 21	0s12	1 35	0 53	15 50	1 18	0 24	1 42	16 43	1 31	15 54	0 43	5 34	2 1	30 14	12 40	22 20	22 29	17 53			n.a.
T 7	6 54	10 42	4 45	16 24	0 24	1 3	0 51	15 56	1 17	0 27	1 42	16 45	1 31	15 53	0 43	5 34	2 1	30 14	12 40	22 20	22 29	17 55			n.a.
W 8	6 31	15 13	4 9	16 24	0 36	0 32	0 49	16 3	1 16	0 30	1 42	16 46	1 31	15 52	0 43	5 33	2 1	30 14	12 40	22 21	22 30	17 57			n.a.
T 9	6 8	18 50	3 17	16 24	0 47	0 0	0 47	16 9	1 15	0 33	1 42	16 47	1 30	15 51	0 43	5 33	2 1	30 14	12 40	22 21	22 30	17 58			n.a.
F 10	5 45	21 19	2 13	16 21	0 58	0n31	0 45	16 15	1 13	0 35	1 42	16 49	1 30	15 50	0 43	5 32	2 2	30 14	12 41	22 21	22 31	18 0			n.a.
S 11	5 22	22 28	1 2	16 16	1 8	1 3	0 43	16 21	1 12	0 38	1 42	16 50	1 30	15 49	0 43	5 32	2 2	30 13	12 41	22 21	22 31	18 2			n.a.
S 12	4 59	22 13	0n12	16 10	1 18	1 35	0 40	16 27	1 11	0 41	1 42	16 52	1 30	15 48	0 43	5 31	2 2	30 13	12 41	22 21	22 31	18 4			n.a.
M13	4 36	20 36	1 24	16 2	1 27	2 6	0 38	16 33	1 10	0 44	1 42	16 53	1 29	15 48	0 43	5 31	2 2	30 13	12 41	22 21	22 32	18 6			n.a.
T 14	4 13	17 49	2 31	15 52	1 36	2 38	0 36	16 39	1 9	0 47	1 42	16 55	1 29	15 47	0 43	5 30	2 2	30 13	12 42	22 22	22 32	18 7			n.a.
W15	3 50	14 6	3 29	15 40	1 44	3 9	0 34	16 45	1 8	0 50	1 42	16 56	1 29	15 46	0 43	5 29	2 2	30 13	12 42	22 22	22 33	18 9			n.a.
T 16	3 26	9 44	4 14	15 27	1 51	3 40	0 31	16 50	1 6	0 53	1 43	16 58	1 29	15 45	0 43	5 29	2 2	30 13	12 42	22 24	22 33	18 11			n.a.
F 17	3 3	5 0	4 45	15 12	1 58	4 12	0 29	16 56	1 5	0 56	1 43	16 59	1 29	15 44	0 43	5 28	2 2	30 12	12 42	22 25	22 33	18 13			n.a.
S 18	2 39	0 8	5 0	14 55	2 4	4 43	0 27	17 1	1 4	0 59	1 43	17 1	1 28	15 43	0 43	5 28	2 2	30 12	12 43	22 27	22 34	18 15			n.a.
S 19	2 16	4s39	5 1	14 36	2 10	5 14	0 24	17 6	1 2	1 2	1 43	17 3	1 28	15 42	0 43	5 27	2 2	30 12	12 43	22 28	22 34	18 16			n.a.
M20	1 53	9 9	4 48	14 16	2 15	5 45	0 22	17 11	1 1	1 5	1 43	17 4	1 28	15 41	0 43	5 27	2 2	30 12	12 43	22 30	22 35	18 18			n.a.
T 21	1 29	13 14	4 22	13 54	2 19	6 16	0 19	17 16	0 59	1 9	1 43	17 6	1 28	15 40	0 43	5 26	2 2	30 12	12 43	22 31	22 35	18 20			n.a.
W22	1 6	16 44	3 45	13 31	2 23	6 47	0 17	17 21	0 58	1 12	1 43	17 8	1 27	15 39	0 43	5 25	2 2	30 12	12 44	22 31	22 36	18 22			n.a.
T 23	0 42	19 32	2 58	13 6	2 27	7 17	0 14	17 26	0 56	1 15	1 43	17 9	1 27	15 38	0 43	5 25	2 2	30 12	12 44	22 32	22 36	18 24			n.a.
F 24	0 19	21 30	2 4	12 39	2 29	7 48	0 11	17 31	0 54	1 18	1 43	17 11	1 27	15 37	0 43	5 24	2 2	30 12	12 44	22 32	22 36	18 25			n.a.
S 25	0n 5	22 32	1 4	12 11	2 32	8 18	0 9	17 35	0 53	1 21	1 43	17 12	1 27	15 36	0 43	5 24	2 2	30 12	12 44	22 32	22 37	18 27			n.a.
S 26	0 28	22 32	0s 0	11 41	2 33	8 48	0 6	17 39	0 51	1 24	1 43	17 14	1 27	15 36	0 43	5 23	2 2	30 12	12 45	22 32	22 37	18 29			n.a.
M27	0 52	21 27	1 5	11 10	2 35	9 18	0 4	17 44	0 49	1 27	1 43	17 16	1 27	15 35	0 43	5 22	2 2	30 11	12 45	22 32	22 38	18 31			n.a.
T 28	1 15	19 16	2 8	10 37	2 35	9 48	0 1	17 48	0 47	1 30	1 43	17 18	1 26	15 34	0 43	5 22	2 2	30 11	12 45	22 32	22 38	18 32			n.a.
W29	1 38	16 2	3 7	10 2	2 35	10 17	0n 2	17 52	0 46	1 33	1 42	17 19	1 26	15 33	0 43	5 21	2 2	30 11	12 45	22 33	22 38	18 34			n.a.
T 30	2 2	11 54	3 57	9 26	2 35	10 46	0 4	17 56	0 44	1 36	1 42	17 21	1 26	15 32	0 43	5 21	2 2	30 11	12 46	22 34	22 39	18 36			n.a.
F 31	2n25	7s 1	4s35	8s49	2s34	11n15	0n 7	18s 0	0n42	1n39	1n42	17n23	1s26	15s31	0s43	5s20	2n 2	30s11	12s46	22n35	22n39	18s38			n.a.

Julian Day Number = 1656467.5, Delta T = 03h28m07s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°31'23, Lahiri = - 6°24'23 Julian Calendar 1 March 178 BCE == Greg. Calendar 26 Feb. 178 BCE

The year -177 astronomical counting style corresponds to year 178 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 178 BCE
geocentric

APRIL 178 BCE (-177) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 21 2	6♈59'10	7♈ 9	15♓21	29♈56	22♏51	29°R39	23♉12	20♒30	18°R 9	10♒ 1	17°R 4	16♋42	7♐45	n.a.	S 1
S 2	12 24 58	7°57'16	21°38	16°59	1♉10	22°57	29♍32	23°19	20°33	18♎ 8	10° 2	16♋52	16°39	7°52	n.a.	S 2
M 3	12 28 55	8°55'20	6♉17	18°38	2°23	23° 2	29°24	23°25	20°35	18° 6	10° 3	16°42	16°35	7°58	n.a.	M 3
T 4	12 32 51	9°53'23	20°57	20°19	3°36	23° 7	29°17	23°31	20°38	18° 5	10° 4	16°33	16°32	8° 5	n.a.	T 4
W 5	12 36 48	10°51'23	5♊32	22° 2	4°49	23°11	29° 9	23°38	20°40	18° 3	10° 5	16°28	16°29	8°12	n.a.	W 5
T 6	12 40 44	11°49'21	19°57	23°47	6° 2	23°14	29° 2	23°44	20°43	18° 1	10° 5	16°24	16°26	8°18	n.a.	T 6
F 7	12 44 41	12°47'18	4♋ 9	25°33	7°14	23°17	28°55	23°51	20°45	18° 0	10° 6	16°23	16°23	8°25	n.a.	F 7
S 8	12 48 38	13°45'13	18° 7	27°22	8°27	23°18	28°47	23°58	20°47	17°58	10° 7	16°23	16°19	8°32	n.a.	S 8
S 9	12 52 34	14°43'05	1♌50	29°12	9°40	23°20	28°40	24° 4	20°50	17°57	10° 8	16°23	16°16	8°38	n.a.	S 9
M10	12 56 31	15°40'56	15°19	1♈ 5	10°53	23°R20	28°33	24°11	20°52	17°55	10° 9	16°21	16°13	8°45	n.a.	M10
T 11	13 0 27	16°38'44	28°37	2°59	12° 6	23°20	28°26	24°18	20°54	17°53	10°10	16°17	16°10	8°52	n.a.	T 11
W12	13 4 24	17°36'31	11♍42	4°55	13°18	23°19	28°19	24°25	20°57	17°52	10°11	16° 9	16° 7	8°58	n.a.	W12
T 13	13 8 20	18°34'16	24°36	6°53	14°31	23°17	28°12	24°31	20°59	17°50	10°11	15°59	16° 4	9° 5	n.a.	T 13
F 14	13 12 17	19°32'00	7♎19	8°52	15°44	23°14	28° 6	24°38	21° 1	17°48	10°12	15°47	16° 0	9°12	n.a.	F 14
S 15	13 16 13	20°29'42	19°51	10°54	16°56	23°11	27°59	24°45	21° 3	17°47	10°13	15°34	15°57	9°18	n.a.	S 15
S 16	13 20 10	21°27'22	2♏11	12°57	18° 9	23° 7	27°53	24°52	21° 5	17°45	10°13	15°21	15°54	9°25	n.a.	S 16
M17	13 24 7	22°25'02	14°21	15° 1	19°21	23° 2	27°46	24°59	21° 7	17°44	10°14	15° 9	15°51	9°32	n.a.	M17
T 18	13 28 3	23°22'40	26°21	17° 7	20°34	22°57	27°40	25° 6	21° 9	17°42	10°15	14°59	15°48	9°38	n.a.	T 18
W19	13 32 0	24°20'16	8♐15	19°15	21°46	22°50	27°34	25°14	21°11	17°40	10°15	14°52	15°44	9°45	n.a.	W19
T 20	13 35 56	25°17'52	20° 3	21°23	22°58	22°43	27°27	25°21	21°13	17°39	10°16	14°47	15°41	9°52	n.a.	T 20
F 21	13 39 53	26°15'26	1♑52	23°33	24°11	22°36	27°21	25°28	21°15	17°37	10°17	14°45	15°38	9°58	n.a.	F 21
S 22	13 43 49	27°13'00	13°45	25°43	25°23	22°27	27°16	25°35	21°17	17°36	10°17	14°D44	15°35	10° 5	n.a.	S 22
S 23	13 47 46	28°10'32	25°47	27°55	26°35	22°18	27°10	25°42	21°19	17°34	10°18	14°R44	15°32	10°12	n.a.	S 23
M24	13 51 42	29° 8'03	8♒ 5	0♉ 6	27°47	22° 8	27° 4	25°50	21°20	17°32	10°18	14°44	15°29	10°18	n.a.	M24
T 25	13 55 39	0♉ 5'34	20°42	2°17	29° 0	21°57	26°59	25°57	21°22	17°31	10°19	14°42	15°25	10°25	n.a.	T 25
W26	13 59 36	1° 3'03	3♓43	4°29	0♊12	21°46	26°54	26° 4	21°24	17°29	10°19	14°38	15°22	10°32	n.a.	W26
T 27	14 3 32	2° 0'31	17°13	6°39	1°24	21°34	26°48	26°12	21°26	17°28	10°20	14°32	15°19	10°38	n.a.	T 27
F 28	14 7 29	2°57'59	1♈10	8°50	2°36	21°21	26°43	26°19	21°27	17°26	10°20	14°24	15°16	10°45	n.a.	F 28
S 29	14 11 25	3°55'25	15°34	10°59	3°48	21° 8	26°38	26°27	21°29	17°25	10°21	14°14	15°13	10°52	n.a.	S 29
S 30	14 15 22	4♉52'51	0♉19	13♉ 6	5♊ 0	20♏54	26♍34	26♉34	21♒30	17♎23	10♒21	14♋ 4	15♋10	10♐58	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	2n48	1s39	4s56	8s10	2s32	11n44	0n10	18s 3	0n40	1n42	1n42	17n25	1s26	15s30	0s43	5s19	2n 2	30s11	12s46	22n37	22n40	18s39		n.a.
S 2	3 11	3n54	5 0	7 30	2 30	12 12	0 12	18 7	0 38	1 45	1 42	17 26	1 25	15 30	0 43	5 19	2 2	30 11	12 47	22 38	22 40	18 41		n.a.
M 3	3 35	9 18	4 44	6 48	2 27	12 40	0 15	18 10	0 35	1 48	1 42	17 28	1 25	15 29	0 43	5 18	2 2	30 11	12 47	22 40	22 40	18 43		n.a.
T 4	3 58	14 12	4 9	6 5	2 24	13 8	0 18	18 14	0 33	1 51	1 42	17 30	1 25	15 28	0 43	5 17	2 2	30 11	12 47	22 41	22 41	18 45		n.a.
W 5	4 21	18 14	3 18	5 20	2 20	13 36	0 21	18 17	0 31	1 54	1 42	17 32	1 25	15 27	0 43	5 17	2 2	30 11	12 48	22 41	22 41	18 46		n.a.
T 6	4 44	21 5	2 15	4 34	2 15	14 3	0 23	18 20	0 29	1 57	1 42	17 33	1 25	15 27	0 44	5 16	2 2	30 11	12 48	22 42	22 42	18 48		n.a.
F 7	5 6	22 35	1 4	3 47	2 11	14 30	0 26	18 23	0 26	1 59	1 42	17 35	1 25	15 26	0 44	5 16	2 2	30 11	12 48	22 42	22 42	18 50		n.a.
S 8	5 29	22 38	0n 9	2 58	2 5	14 56	0 29	18 26	0 24	2 2	1 42	17 37	1 24	15 25	0 44	5 15	2 2	30 11	12 49	22 42	22 42	18 52		n.a.
S 9	5 52	21 18	1 21	2 8	1 59	15 22	0 31	18 29	0 21	2 5	1 42	17 39	1 24	15 24	0 44	5 14	2 2	30 11	12 49	22 42	22 43	18 53		n.a.
M10	6 14	18 45	2 27	1 17	1 53	15 48	0 34	18 31	0 19	2 8	1 41	17 41	1 24	15 24	0 44	5 14	2 2	30 12	12 49	22 42	22 43	18 55		n.a.
T 11	6 37	15 16	3 23	0 25	1 46	16 14	0 37	18 34	0 16	2 10	1 41	17 43	1 24	15 23	0 44	5 13	2 2	30 12	12 49	22 43	22 43	18 57		n.a.
W12	6 59	11 4	4 8	0n29	1 38	16 39	0 40	18 36	0 14	2 13	1 41	17 44	1 24	15 22	0 44	5 12	2 2	30 12	12 50	22 44	22 44	18 59		n.a.
T 13	7 22	6 26	4 40	1 23	1 30	17 3	0 42	18 38	0 11	2 16	1 41	17 46	1 24	15 21	0 44	5 12	2 2	30 12	12 50	22 45	22 44	19 0		n.a.
F 14	7 44	1 36	4 57	2 18	1 22	17 27	0 45	18 40	0 8	2 18	1 41	17 48	1 23	15 21	0 44	5 11	2 2	30 12	12 50	22 46	22 45	19 2		n.a.
S 15	8 6	3s14	4 59	3 14	1 13	17 51	0 48	18 42	0 5	2 21	1 41	17 50	1 23	15 20	0 44	5 11	2 2	30 12	12 51	22 48	22 45	19 4		n.a.
S 16	8 28	7 53	4 47	4 11	1 4	18 14	0 50	18 44	0 2	2 23	1 41	17 52	1 23	15 20	0 44	5 10	2 2	30 12	12 51	22 49	22 45	19 5		n.a.
M17	8 49	12 9	4 23	5 9	0 54	18 37	0 53	18 45	0s 1	2 26	1 40	17 54	1 23	15 19	0 44	5 9	2 2	30 12	12 51	22 51	22 46	19 7		n.a.
T 18	9 11	15 54	3 46	6 7	0 44	18 59	0 55	18 47	0 4	2 28	1 40	17 55	1 23	15 18	0 44	5 9	2 2	30 12	12 52	22 52	22 46	19 9		n.a.
W19	9 32	18 58	3 0	7 5	0 34	19 21	0 58	18 48	0 7	2 30	1 40	17 57	1 23	15 18	0 44	5 8	2 2	30 12	12 52	22 53	22 47	19 10		n.a.
T 20	9 54	21 14	2 7	8 4	0 24	19 42	1 0	18 50	0 10	2 33	1 40	17 59	1 22	15 17	0 44	5 7	2 2	30 13	12 52	22 53	22 47	19 12		n.a.
F 21	10 15	22 34	1 8	9 2	0 14	20 3	1 3	18 51	0 13	2 35	1 40	18 1	1 22	15 16	0 44	5 7	2 2	30 13	12 53	22 53	22 47	19 14		n.a.
S 22	10 36	22 55	0 5	10 0	0 3	20 23	1 5	18 52	0 16	2 37	1 39	18 3	1 22	15 16	0 44	5 6	2 2	30 13	12 53	22 53	22 48	19 16		n.a.
S 23	10 57	22 11	0s58	10 58	0n 8	20 43	1 8	18 52	0 20	2 39	1 39	18 5	1 22	15 15	0 44	5 6	2 2	30 13	12 53	22 53	22 48	19 17		n.a.
M24	11 18	20 24	2 1	11 55	0 18	21 2	1 10	18 53	0 23	2 41	1 39	18 7	1 22	15 15	0 44	5 5	2 2	30 13	12 54	22 53	22 48	19 19		n.a.
T 25	11 38	17 35	2 59	12 51	0 29	21 21	1 13	18 53	0 26	2 43	1 39	18 9	1 22	15 14	0 44	5 4	2 2	30 13	12 54	22 54	22 49	19 21		n.a.
W26	11 58	13 49	3 49	13 46	0 39	21 39	1 15	18 54	0 30	2 45	1 39	18 10	1 22	15 14	0 44	5 4	2 2	30 14	12 55	22 54	22 49	19 22		n.a.
T 27	12 19	9 14	4 29	14 40	0 49	21 56	1 17	18 54	0 33	2 47	1 38	18 12	1 21	15 13	0 44	5 3	2 2	30 14	12 55	22 55	22 49	19 24		n.a.
F 28	12 39	4 1	4 55	15 31	0 58	22 13	1 19	18 54	0 37	2 49	1 38	18 14	1 21	15 13	0 44	5 3	2 2	30 14	12 55	22 56	22 50	19 26		n.a.
S 29	12 58	1n33	5 2	16 22	1 8	22 29	1 22	18 54	0 40	2 51	1 38	18 16	1 21	15 12	0 44	5 2	2 2	30 14	12 56	22 57	22 50	19 27		n.a.
S 30	13n18	7n11	4s51	17n10	1n16	22n45	1n24	18s54	0s44	2n52	1n38	18n18	1s21	15s12	0s44	5s 2	2n 2	30s14	12s56	22n58	22n51	19s29		n.a.

Julian Day Number = 1656498.5, Delta T = 03h28m06s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°31'19, Lahiri = - 6°24'19 Julian Calendar 1 Apr. 178 BCE == Greg. Calendar 29 March 178 BCE

The year -177 astronomical counting style corresponds to year 178 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 178 BCE
geocentric

MAY 178 BCE (-177) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	14 19 18	5♉50'15	15♉17	15♉13	6♊12	20°R39	26°R29	26♉42	21♒32	17°R21	10♒21	13°R54	15♋ 6	11♐ 5	n.a.	M 1
T 2	14 23 15	6°47'39	0♊19	17°17	7°23	20♏24	26♍25	26°49	21°33	17♎20	10°22	13♋47	15° 3	11°12	n.a.	T 2
W 3	14 27 11	7°45'02	15°16	19°20	8°35	20° 8	26°20	26°57	21°34	17°18	10°22	13°41	15° 0	11°18	n.a.	W 3
T 4	14 31 8	8°42'23	29°59	21°21	9°47	19°52	26°16	27° 5	21°36	17°17	10°22	13°39	14°57	11°25	n.a.	T 4
F 5	14 35 5	9°39'43	14♋24	23°19	10°59	19°35	26°12	27°12	21°37	17°15	10°22	13°D38	14°54	11°32	n.a.	F 5
S 6	14 39 1	10°37'02	28°29	25°15	12°10	19°18	26° 8	27°20	21°38	17°14	10°23	13°39	14°50	11°38	n.a.	S 6
S 7	14 42 58	11°34'20	12♌13	27° 9	13°22	19° 1	26° 5	27°28	21°39	17°13	10°23	13°R39	14°47	11°45	n.a.	S 7
M 8	14 46 54	12°31'37	25°37	29° 1	14°33	18°43	26° 1	27°35	21°41	17°11	10°23	13°38	14°44	11°52	n.a.	M 8
T 9	14 50 51	13°28'52	8♍44	0♊50	15°45	18°25	25°58	27°43	21°42	17°10	10°23	13°35	14°41	11°58	n.a.	T 9
W10	14 54 47	14°26'07	21°35	2°36	16°56	18° 7	25°55	27°51	21°43	17° 8	10°23	13°30	14°38	12° 5	n.a.	W10
T 11	14 58 44	15°23'20	4♎13	4°20	18° 8	17°48	25°52	27°59	21°44	17° 7	10°23	13°23	14°35	12°12	n.a.	T 11
F 12	15 2 40	16°20'33	16°40	6° 2	19°19	17°29	25°49	28° 6	21°45	17° 6	10°24	13°14	14°31	12°18	n.a.	F 12
S 13	15 6 37	17°17'44	28°57	7°40	20°30	17°10	25°47	28°14	21°46	17° 4	10°24	13° 4	14°28	12°25	n.a.	S 13
S 14	15 10 34	18°14'55	11♏ 4	9°17	21°41	16°51	25°44	28°22	21°47	17° 3	10°24	12°54	14°25	12°32	n.a.	S 14
M15	15 14 30	19°12'06	23° 5	10°50	22°52	16°32	25°42	28°30	21°47	17° 2	10°R24	12°44	14°22	12°38	n.a.	M15
T 16	15 18 27	20° 9'16	4♐59	12°21	24° 4	16°13	25°40	28°37	21°48	17° 0	10°24	12°37	14°19	12°45	n.a.	T 16
W17	15 22 23	21° 6'25	16°48	13°49	25°15	15°54	25°38	28°45	21°49	16°59	10°24	12°31	14°16	12°52	n.a.	W17
T 18	15 26 20	22° 3'34	28°36	15°15	26°25	15°35	25°36	28°53	21°49	16°58	10°24	12°28	14°12	12°58	n.a.	T 18
F 19	15 30 16	23° 0'43	10♑25	16°38	27°36	15°16	25°35	29° 1	21°50	16°56	10°24	12°D27	14° 9	13° 5	n.a.	F 19
S 20	15 34 13	23°57'52	22°19	17°58	28°47	14°57	25°33	29° 9	21°51	16°55	10°23	12°28	14° 6	13°12	n.a.	S 20
S 21	15 38 10	24°55'00	4♒22	19°15	29°58	14°39	25°32	29°17	21°51	16°54	10°23	12°29	14° 3	13°18	n.a.	S 21
M22	15 42 6	25°52'08	16°39	20°29	1♋ 9	14°20	25°31	29°25	21°52	16°53	10°23	12°30	14° 0	13°25	n.a.	M22
T 23	15 46 3	26°49'16	29°14	21°41	2°19	14° 2	25°30	29°32	21°52	16°52	10°23	12°R30	13°56	13°32	n.a.	T 23
W24	15 49 59	27°46'24	12♓13	22°49	3°30	13°45	25°30	29°40	21°53	16°51	10°23	12°29	13°53	13°38	n.a.	W24
T 25	15 53 56	28°43'32	25°39	23°54	4°40	13°28	25°29	29°48	21°53	16°49	10°23	12°26	13°50	13°45	n.a.	T 25
F 26	15 57 52	29°40'40	9♈33	24°57	5°51	13°11	25°29	29°56	21°53	16°48	10°22	12°22	13°47	13°52	n.a.	F 26
S 27	16 1 49	0♊37'48	23°55	25°56	7° 1	12°54	25°D29	0♊ 4	21°53	16°47	10°22	12°16	13°44	13°58	n.a.	S 27
S 28	16 5 45	1°34'56	8♉42	26°52	8°11	12°38	25°29	0°12	21°54	16°46	10°22	12°10	13°41	14° 5	n.a.	S 28
M29	16 9 42	2°32'04	23°46	27°44	9°22	12°23	25°29	0°20	21°54	16°45	10°21	12° 5	13°37	14°12	n.a.	M29
T 30	16 13 39	3°29'12	8♊58	28°33	10°32	12° 8	25°30	0°28	21°54	16°44	10°21	12° 0	13°34	14°18	n.a.	T 30
W31	16 17 35	4♊26'20	24♊ 8	29♊18	11♋42	11♏54	25♍30	0♊35	21°R54	16♎43	10♒21	11♋57	13♋31	14♐25	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	13n37	12n29	4s19	17n56	1n24	23n 0	1n26	18s53	0s48	2n54	1n37	18n20	1s21	15s11	0s44	5s 1	2n 2	30s15	12s56	22n59	22n51	19s30			n.a.
T 2	13 56	17 3	3 29	18 40	1 32	23 15	1 28	18 53	0 51	2 56	1 37	18 22	1 21	15 11	0 44	5 0	2 2	30 15	12 57	23 0	22 51	19 32			n.a.
W 3	14 15	20 29	2 25	19 21	1 39	23 28	1 30	18 52	0 55	2 57	1 37	18 24	1 21	15 11	0 44	5 0	2 2	30 15	12 57	23 0	22 52	19 34			n.a.
T 4	14 34	22 31	1 12	20 0	1 46	23 41	1 32	18 51	0 59	2 58	1 37	18 25	1 21	15 10	0 44	4 59	2 2	30 15	12 57	23 0	22 52	19 35			n.a.
F 5	14 52	23 0	0n 4	20 37	1 51	23 54	1 34	18 50	1 2	3 0	1 36	18 27	1 20	15 10	0 45	4 59	2 2	30 16	12 58	23 1	22 52	19 37			n.a.
S 6	15 11	21 59	1 18	21 11	1 56	24 6	1 36	18 49	1 6	3 1	1 36	18 29	1 20	15 9	0 45	4 58	2 2	30 16	12 58	23 0	22 53	19 39			n.a.
S 7	15 29	19 40	2 26	21 42	2 1	24 17	1 38	18 48	1 10	3 2	1 36	18 31	1 20	15 9	0 45	4 58	2 2	30 16	12 58	23 0	22 53	19 40			n.a.
M 8	15 47	16 20	3 25	22 11	2 4	24 27	1 39	18 46	1 14	3 3	1 36	18 33	1 20	15 9	0 45	4 57	2 2	30 17	12 59	23 1	22 53	19 42			n.a.
T 9	16 4	12 15	4 11	22 38	2 7	24 37	1 41	18 45	1 17	3 5	1 35	18 35	1 20	15 8	0 45	4 57	2 2	30 17	12 59	23 1	22 54	19 44			n.a.
W10	16 21	7 42	4 43	23 2	2 9	24 46	1 43	18 43	1 21	3 6	1 35	18 37	1 20	15 8	0 45	4 56	2 2	30 17	12 59	23 1	22 54	19 45			n.a.
T 11	16 38	2 54	5 1	23 24	2 11	24 55	1 44	18 41	1 25	3 7	1 35	18 38	1 20	15 8	0 45	4 56	2 2	30 17	13 0	23 2	22 55	19 47			n.a.
F 12	16 55	1s57	5 4	23 43	2 11	25 2	1 46	18 40	1 29	3 7	1 35	18 40	1 20	15 8	0 45	4 55	2 2	30 18	13 0	23 3	22 55	19 48			n.a.
S 13	17 11	6 39	4 53	24 0	2 11	25 9	1 47	18 38	1 32	3 8	1 34	18 42	1 20	15 7	0 45	4 55	2 2	30 18	13 1	23 4	22 55	19 50			n.a.
S 14	17 28	11 3	4 29	24 15	2 11	25 16	1 49	18 36	1 36	3 9	1 34	18 44	1 20	15 7	0 45	4 54	2 2	30 18	13 1	23 5	22 56	19 52			n.a.
M15	17 44	14 59	3 53	24 27	2 9	25 21	1 50	18 34	1 40	3 10	1 34	18 46	1 19	15 7	0 45	4 54	2 2	30 19	13 1	23 6	22 56	19 53			n.a.
T 16	17 59	18 18	3 8	24 38	2 7	25 26	1 51	18 32	1 43	3 10	1 33	18 48	1 19	15 7	0 45	4 53	2 2	30 19	13 2	23 7	22 56	19 55			n.a.
W17	18 15	20 50	2 14	24 46	2 4	25 30	1 52	18 29	1 47	3 11	1 33	18 49	1 19	15 6	0 45	4 53	2 2	30 19	13 2	23 7	22 57	19 56			n.a.
T 18	18 30	22 28	1 14	24 53	2 0	25 33	1 53	18 27	1 50	3 11	1 33	18 51	1 19	15 6	0 45	4 52	2 2	30 20	13 2	23 7	22 57	19 58			n.a.
F 19	18 44	23 7	0 11	24 57	1 56	25 36	1 54	18 25	1 54	3 11	1 33	18 53	1 19	15 6	0 45	4 52	2 1	30 20	13 3	23 8	22 57	20 0			n.a.
S 20	18 59	22 43	0s53	25 0	1 51	25 38	1 55	18 23	1 57	3 12	1 32	18 55	1 19	15 6	0 45	4 51	2 1	30 21	13 3	23 7	22 58	20 1			n.a.
S 21	19 13	21 16	1 56	25 1	1 45	25 39	1 56	18 20	2 1	3 12	1 32	18 57	1 19	15 6	0 45	4 51	2 1	30 21	13 3	23 7	22 58	20 3			n.a.
M22	19 27	18 48	2 54	25 1	1 39	25 40	1 57	18 18	2 4	3 12	1 32	18 58	1 19	15 6	0 45	4 51	2 1	30 21	13 4	23 7	22 58	20 4			n.a.
T 23	19 40	15 24	3 46	24 59	1 32	25 39	1 58	18 16	2 8	3 12	1 31	19 0	1 19	15 6	0 45	4 50	2 1	30 22	13 4	23 7	22 59	20 6			n.a.
W24	19 53	11 10	4 28	24 55	1 24	25 38	1 58	18 13	2 11	3 12	1 31	19 2	1 19	15 5	0 45	4 50	2 1	30 22	13 4	23 7	22 59	20 7			n.a.
T 25	20 6	6 17	4 57	24 50	1 16	25 37	1 59	18 11	2 14	3 12	1 31	19 4	1 19	15 5	0 45	4 49	2 1	30 22	13 5	23 8	22 59	20 9			n.a.
F 26	20 19	0 54	5 9	24 44	1 7	25 34	1 59	18 9	2 17	3 12	1 31	19 6	1 18	15 5	0 45	4 49	2 1	30 23	13 5	23 8	23 0	20 11			n.a.
S 27	20 31	4n41	5 4	24 36	0 57	25 31	1 59	18 7	2 20	3 12	1 30	19 7	1 18	15 5	0 45	4 49	2 1	30 23	13 5	23 9	23 0	20 12			n.a.
S 28	20 43	10 11	4 38	24 28	0 47	25 27	2 0	18 5	2 23	3 11	1 30	19 9	1 18	15 5	0 45	4 48	2 1	30 24	13 6	23 9	23 0	20 14			n.a.
M29	20 54	15 11	3 52	24 18	0 36	25 22	2 0	18 3	2 26	3 11	1 30	19 11	1 18	15 5	0 45	4 48	2 1	30 24	13 6	23 10	23 1	20 15			n.a.
T 30	21 6	19 15	2 50	24 7	0 25	25 17	2 0	18 1	2 29	3 11	1 29	19 13	1 18	15 5	0 46	4 48	2 1	30 24	13 6	23 10	23 1	20 17			n.a.
W31	21n16	22n 0	1s36	23n56	0n13	25n11	2n 0	17s59	2s32	3n10	1n29	19n14	1s18	15s 5	0s46	4s47	2n 1	30s25	13s 7	23n10	23n 1	20s18			n.a.

Julian Day Number = 1656528.5, Delta T = 03h28m05s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°31'15, Lahiri = - 6°24'15 Julian Calendar 1 May 178 BCE == Greg. Calendar 28 Apr. 178 BCE

The year -177 astronomical counting style corresponds to year 178 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 178 BCE
geocentric

JUNE 178 BCE (-177) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 21 32	5♊23'28	9♋ 7	29♊59	12♋52	11°R41	25♍31	0♊43	21°R54	16°R42	10°R20	11°D56	13♋28	14♐32	n.a.	T 1
F 2	16 25 28	6°20'36	23°47	0♋38	14° 2	11♏28	25°32	0°51	21♒54	16♎41	10♒20	11♋57	13°25	14°38	n.a.	F 2
S 3	16 29 25	7°17'43	8♌ 4	1°11	15°12	11°16	25°33	0°59	21°54	16°40	10°19	11°58	13°22	14°45	n.a.	S 3
S 4	16 33 21	8°14'50	21°57	1°41	16°22	11° 4	25°34	1° 7	21°54	16°40	10°19	11°59	13°18	14°52	n.a.	S 4
M 5	16 37 18	9°11'57	5♍24	2° 6	17°31	10°54	25°36	1°15	21°53	16°39	10°19	12°R 0	13°15	14°58	n.a.	M 5
T 6	16 41 14	10° 9'04	18°30	2°27	18°41	10°44	25°38	1°23	21°53	16°38	10°18	12° 0	13°12	15° 5	n.a.	T 6
W 7	16 45 11	11° 6'10	1♎16	2°44	19°50	10°35	25°40	1°30	21°53	16°37	10°18	11°58	13° 9	15°12	n.a.	W 7
T 8	16 49 8	12° 3'17	13°45	2°56	21° 0	10°26	25°42	1°38	21°53	16°36	10°17	11°55	13° 6	15°18	n.a.	T 8
F 9	16 53 4	13° 0'23	26° 2	3° 3	22° 9	10°19	25°44	1°46	21°52	16°36	10°16	11°52	13° 2	15°25	n.a.	F 9
S 10	16 57 1	13°57'30	8♏ 8	3°R 5	23°18	10°12	25°46	1°54	21°52	16°35	10°16	11°47	12°59	15°32	n.a.	S 10
S 11	17 0 57	14°54'37	20° 6	3° 3	24°27	10° 6	25°49	2° 1	21°51	16°34	10°15	11°42	12°56	15°38	n.a.	S 11
M12	17 4 54	15°51'44	1♐59	2°56	25°36	10° 1	25°51	2° 9	21°51	16°34	10°15	11°38	12°53	15°45	n.a.	M12
T 13	17 8 50	16°48'51	13°49	2°45	26°45	9°57	25°54	2°17	21°50	16°33	10°14	11°35	12°50	15°52	n.a.	T 13
W14	17 12 47	17°45'59	25°37	2°28	27°54	9°53	25°57	2°25	21°49	16°32	10°13	11°33	12°47	15°58	n.a.	W14
T 15	17 16 43	18°43'07	7♑27	2° 8	29° 3	9°51	26° 1	2°32	21°49	16°32	10°13	11°D32	12°43	16° 5	n.a.	T 15
F 16	17 20 40	19°40'16	19°20	1°43	0♌12	9°49	26° 4	2°40	21°48	16°31	10°12	11°32	12°40	16°12	n.a.	F 16
S 17	17 24 37	20°37'25	1♒19	1°14	1°20	9°48	26° 8	2°48	21°47	16°31	10°11	11°33	12°37	16°18	n.a.	S 17
S 18	17 28 33	21°34'35	13°27	0°42	2°29	9°D48	26°11	2°55	21°47	16°30	10°10	11°34	12°34	16°25	n.a.	S 18
M19	17 32 30	22°31'46	25°49	0° 6	3°37	9°49	26°15	3° 3	21°46	16°30	10°10	11°36	12°31	16°32	n.a.	M19
T 20	17 36 26	23°28'57	8♓26	29♊28	4°45	9°50	26°19	3°10	21°45	16°29	10° 9	11°37	12°28	16°38	n.a.	T 20
W21	17 40 23	24°26'10	21°24	28°48	5°53	9°53	26°24	3°18	21°44	16°29	10° 8	11°R38	12°24	16°45	n.a.	W21
T 22	17 44 19	25°23'23	4♈45	28° 7	7° 1	9°56	26°28	3°26	21°43	16°29	10° 7	11°37	12°21	16°52	n.a.	T 22
F 23	17 48 16	26°20'38	18°31	27°25	8° 9	10° 0	26°33	3°33	21°42	16°28	10° 6	11°37	12°18	16°58	n.a.	F 23
S 24	17 52 13	27°17'53	2♉43	26°44	9°17	10° 5	26°37	3°40	21°41	16°28	10° 6	11°35	12°15	17° 5	n.a.	S 24
S 25	17 56 9	28°15'09	17°19	26° 3	10°24	10°10	26°42	3°48	21°40	16°28	10° 5	11°34	12°12	17°12	n.a.	S 25
M26	18 0 6	29°12'27	2♊14	25°23	11°32	10°17	26°47	3°55	21°39	16°28	10° 4	11°32	12° 8	17°18	n.a.	M26
T 27	18 4 2	0♋ 9'45	17°21	24°46	12°39	10°24	26°52	4° 3	21°37	16°27	10° 3	11°31	12° 5	17°25	n.a.	T 27
W28	18 7 59	1° 7'05	2♋30	24°12	13°46	10°32	26°58	4°10	21°36	16°27	10° 2	11°30	12° 2	17°32	n.a.	W28
T 29	18 11 55	2° 4'25	17°34	23°42	14°54	10°41	27° 3	4°17	21°35	16°27	10° 1	11°D30	11°59	17°38	n.a.	T 29
F 30	18 15 52	3♋ 1'46	2♌22	23♊16	16♌ 0	10♏50	27♍ 9	4♊25	21♒34	16♎27	10♒ 0	11♋31	11♋56	17♐45	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n27	23n 9	0s15	23n44	0n 1	25n 4	2n 0	17s57	2s34	3n 9	1n29	19n16	1s18	15s 5	0s46	4s47	2n 1	30s25	13s 7	23n10	23n 2	20s20		n.a.
F 2	21 37	22 39	1n 4	23 31	0s12	24 57	2 0	17 56	2 37	3 9	1 28	19 18	1 18	15 5	0 46	4 47	2 1	30 26	13 7	23 10	23 2	20 21		n.a.
S 3	21 47	20 41	2 18	23 17	0 26	24 49	1 59	17 54	2 39	3 8	1 28	19 19	1 18	15 5	0 46	4 46	2 1	30 26	13 8	23 10	23 2	20 23		n.a.
S 4	21 56	17 31	3 21	23 3	0 40	24 40	1 59	17 53	2 42	3 7	1 28	19 21	1 18	15 5	0 46	4 46	2 1	30 27	13 8	23 10	23 3	20 24		n.a.
M 5	22 5	13 31	4 12	22 48	0 54	24 31	1 58	17 52	2 44	3 6	1 28	19 23	1 18	15 6	0 46	4 46	2 1	30 27	13 8	23 10	23 3	20 26		n.a.
T 6	22 14	9 0	4 47	22 33	1 8	24 21	1 58	17 51	2 46	3 5	1 27	19 24	1 18	15 6	0 46	4 45	2 1	30 28	13 9	23 10	23 3	20 27		n.a.
W 7	22 22	4 11	5 7	22 18	1 23	24 10	1 57	17 50	2 49	3 4	1 27	19 26	1 18	15 6	0 46	4 45	2 1	30 28	13 9	23 10	23 3	20 29		n.a.
T 8	22 30	0s41	5 13	22 3	1 38	23 58	1 56	17 49	2 51	3 3	1 27	19 28	1 18	15 6	0 46	4 45	2 0	30 28	13 9	23 10	23 4	20 30		n.a.
F 9	22 37	5 27	5 3	21 48	1 53	23 46	1 56	17 49	2 53	3 2	1 26	19 29	1 18	15 6	0 46	4 45	2 0	30 29	13 10	23 11	23 4	20 32		n.a.
S 10	22 44	9 57	4 41	21 32	2 9	23 34	1 55	17 48	2 55	3 1	1 26	19 31	1 18	15 6	0 46	4 44	2 0	30 29	13 10	23 11	23 4	20 33		n.a.
S 11	22 51	14 1	4 6	21 17	2 24	23 20	1 54	17 48	2 57	3 0	1 26	19 32	1 17	15 7	0 46	4 44	2 0	30 30	13 10	23 12	23 5	20 35		n.a.
M12	22 57	17 31	3 21	21 2	2 39	23 6	1 52	17 48	2 58	2 58	1 25	19 34	1 17	15 7	0 46	4 44	2 0	30 30	13 11	23 12	23 5	20 36		n.a.
T 13	23 3	20 18	2 27	20 48	2 54	22 52	1 51	17 48	3 0	2 57	1 25	19 36	1 17	15 7	0 46	4 44	2 0	30 31	13 11	23 12	23 5	20 38		n.a.
W14	23 9	22 12	1 27	20 33	3 8	22 37	1 50	17 49	3 2	2 55	1 25	19 37	1 17	15 7	0 46	4 44	2 0	30 31	13 11	23 12	23 6	20 39		n.a.
T 15	23 14	23 8	0 23	20 20	3 22	22 21	1 48	17 50	3 3	2 54	1 25	19 39	1 17	15 7	0 46	4 44	2 0	30 32	13 12	23 13	23 6	20 41		n.a.
F 16	23 19	23 1	0s43	20 7	3 35	22 5	1 47	17 50	3 5	2 52	1 24	19 40	1 17	15 8	0 46	4 43	2 0	30 32	13 12	23 13	23 6	20 42		n.a.
S 17	23 23	21 50	1 47	19 55	3 48	21 48	1 45	17 51	3 6	2 50	1 24	19 42	1 17	15 8	0 46	4 43	2 0	30 33	13 12	23 12	23 7	20 44		n.a.
S 18	23 27	19 39	2 47	19 43	3 59	21 30	1 43	17 53	3 8	2 49	1 24	19 43	1 17	15 8	0 46	4 43	2 0	30 33	13 12	23 12	23 7	20 45		n.a.
M19	23 30	16 31	3 41	19 33	4 10	21 12	1 41	17 54	3 9	2 47	1 23	19 45	1 17	15 9	0 46	4 43	2 0	30 34	13 13	23 12	23 7	20 47		n.a.
T 20	23 33	12 35	4 25	19 24	4 19	20 54	1 39	17 56	3 10	2 45	1 23	19 46	1 17	15 9	0 46	4 43	2 0	30 34	13 13	23 12	23 7	20 48		n.a.
W21	23 36	7 59	4 57	19 16	4 27	20 35	1 37	17 58	3 11	2 43	1 23	19 48	1 17	15 9	0 46	4 43	2 0	30 35	13 13	23 12	23 8	20 50		n.a.
T 22	23 38	2 53	5 14	19 9	4 33	20 15	1 35	18 0	3 12	2 41	1 23	19 49	1 17	15 10	0 46	4 43	2 0	30 35	13 13	23 12	23 8	20 51		n.a.
F 23	23 40	2n30	5 14	19 3	4 38	19 55	1 32	18 2	3 13	2 39	1 22	19 51	1 17	15 10	0 46	4 43	2 0	30 36	13 14	23 12	23 8	20 52		n.a.
S 24	23 41	7 56	4 55	18 59	4 41	19 35	1 30	18 4	3 14	2 37	1 22	19 52	1 17	15 10	0 46	4 43	2 0	30 36	13 14	23 12	23 9	20 54		n.a.
S 25	23 42	13 5	4 17	18 57	4 43	19 14	1 27	18 7	3 15	2 34	1 22	19 54	1 17	15 11	0 46	4 43	1 59	30 37	13 14	23 12	23 9	20 55		n.a.
M26	23 43	17 34	3 21	18 56	4 42	18 53	1 25	18 10	3 16	2 32	1 22	19 55	1 17	15 11	0 47	4 43	1 59	30 37	13 15	23 13	23 9	20 57		n.a.
T 27	23 43	20 57	2 10	18 57	4 40	18 31	1 22	18 13	3 17	2 30	1 21	19 56	1 17	15 12	0 47	4 43	1 59	30 38	13 15	23 13	23 10	20 58		n.a.
W28	23 43	22 52	0 50	18 59	4 37	18 9	1 19	18 16	3 18	2 27	1 21	19 58	1 17	15 12	0 47	4 43	1 59	30 38	13 15	23 13	23 10	21 0		n.a.
T 29	23 42	23 6	0n34	19 3	4 31	17 46	1 16	18 20	3 18	2 25	1 21	19 59	1 17	15 12	0 47	4 43	1 59	30 39	13 15	23 13	23 10	21 1		n.a.
F 30	23n41	21n42	1n53	19n 8	4s25	17n23	1n13	18s23	3s19	2n23	1n20	20n 1	1s17	15s13	0s47	4s43	1n59	30s39	13s16	23n13	23n10	21s 2		n.a.

Julian Day Number = 1656559.5, Delta T = 03h28m04s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°31'11, Lahiri = - 6°24'10 Julian Calendar 1 June 178 BCE == Greg. Calendar 29 May 178 BCE

The year -177 astronomical counting style corresponds to year 178 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 178 BCE
geocentric

JULY 178 BCE (-177) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 19 48	3♋59'08	16♌50	22°R55	17♌ 7	11♏ 1	27♍14	4♊32	21°R32	16°R27	9°R59	11♋31	11♋53	17♐52	n.a.	S 1
S 2	18 23 45	4°56'31	0♍52	22♊38	18°14	11°12	27°20	4°39	21♒31	16♎27	9♒58	11°32	11°49	17°58	n.a.	S 2
M 3	18 27 42	5°53'54	14°27	22°28	19°20	11°23	27°26	4°46	21°29	16°D27	9°57	11°32	11°46	18° 5	n.a.	M 3
T 4	18 31 38	6°51'18	27°37	22°D24	20°27	11°36	27°33	4°53	21°28	16°27	9°56	11°33	11°43	18°12	n.a.	T 4
W 5	18 35 35	7°48'43	10♎24	22°25	21°33	11°49	27°39	5° 0	21°26	16°27	9°55	11°R33	11°40	18°18	n.a.	W 5
T 6	18 39 31	8°46'08	22°52	22°34	22°39	12° 3	27°45	5° 7	21°25	16°27	9°54	11°33	11°37	18°25	n.a.	T 6
F 7	18 43 28	9°43'35	5♏ 4	22°48	23°45	12°18	27°52	5°14	21°23	16°27	9°53	11°33	11°34	18°32	n.a.	F 7
S 8	18 47 24	10°41'02	17° 5	23°10	24°51	12°33	27°59	5°21	21°22	16°27	9°52	11°32	11°30	18°38	n.a.	S 8
S 9	18 51 21	11°38'30	28°58	23°38	25°56	12°49	28° 6	5°28	21°20	16°28	9°51	11°D32	11°27	18°45	n.a.	S 9
M10	18 55 17	12°36'00	10♐47	24°12	27° 1	13° 6	28°13	5°35	21°18	16°28	9°50	11°32	11°24	18°52	n.a.	M10
T 11	18 59 14	13°33'30	22°36	24°54	28° 6	13°23	28°20	5°42	21°17	16°28	9°49	11°33	11°21	18°58	n.a.	T 11
W12	19 3 11	14°31'02	4♑26	25°42	29°11	13°41	28°27	5°49	21°15	16°28	9°48	11°33	11°18	19° 5	n.a.	W12
T 13	19 7 7	15°28'35	16°21	26°36	0♍16	13°59	28°35	5°55	21°13	16°29	9°46	11°R33	11°14	19°12	n.a.	T 13
F 14	19 11 4	16°26'10	28°23	27°37	1°21	14°18	28°42	6° 2	21°11	16°29	9°45	11°33	11°11	19°18	n.a.	F 14
S 15	19 15 0	17°23'45	10♒33	28°43	2°25	14°38	28°50	6° 9	21° 9	16°30	9°44	11°32	11° 8	19°25	n.a.	S 15
S 16	19 18 57	18°21'22	22°53	29°56	3°29	14°58	28°58	6°15	21° 7	16°30	9°43	11°31	11° 5	19°32	n.a.	S 16
M17	19 22 53	19°19'01	5♓26	1♋14	4°33	15°19	29° 6	6°22	21° 5	16°30	9°42	11°30	11° 2	19°38	n.a.	M17
T 18	19 26 50	20°16'41	18°13	2°38	5°37	15°40	29°14	6°28	21° 4	16°31	9°41	11°29	10°59	19°45	n.a.	T 18
W19	19 30 46	21°14'23	1♈17	4° 6	6°40	16° 2	29°22	6°35	21° 2	16°31	9°40	11°28	10°55	19°51	n.a.	W19
T 20	19 34 43	22°12'07	14°38	5°40	7°43	16°24	29°30	6°41	21° 0	16°32	9°38	11°28	10°52	19°58	n.a.	T 20
F 21	19 38 40	23° 9'52	28°19	7°17	8°46	16°47	29°39	6°47	20°58	16°32	9°37	11°D28	10°49	20° 5	n.a.	F 21
S 22	19 42 36	24° 7'40	12♉19	8°59	9°49	17°10	29°47	6°53	20°55	16°33	9°36	11°28	10°46	20°11	n.a.	S 22
S 23	19 46 33	25° 5'29	26°39	10°44	10°51	17°34	29°56	7° 0	20°53	16°34	9°35	11°29	10°43	20°18	n.a.	S 23
M24	19 50 29	26° 3'20	11♊15	12°32	11°53	17°59	0♎ 4	7° 6	20°51	16°34	9°33	11°30	10°39	20°25	n.a.	M24
T 25	19 54 26	27° 1'13	26° 4	14°23	12°55	18°23	0°13	7°12	20°49	16°35	9°32	11°31	10°36	20°31	n.a.	T 25
W26	19 58 22	27°59'08	10♋58	16°16	13°57	18°49	0°22	7°18	20°47	16°36	9°31	11°R32	10°33	20°38	n.a.	W26
T 27	20 2 19	28°57'04	25°51	18°11	14°58	19°14	0°31	7°24	20°45	16°37	9°30	11°31	10°30	20°45	n.a.	T 27
F 28	20 6 15	29°55'02	10♌35	20° 7	15°59	19°41	0°41	7°29	20°43	16°37	9°29	11°30	10°27	20°51	n.a.	F 28
S 29	20 10 12	0♌53'02	25° 3	22° 4	17° 0	20° 7	0°50	7°35	20°40	16°38	9°27	11°28	10°24	20°58	n.a.	S 29
S 30	20 14 9	1°51'04	9♍ 8	24° 2	18° 0	20°34	0°59	7°41	20°38	16°39	9°26	11°25	10°20	21° 5	n.a.	S 30
M31	20 18 5	2♌49'06	22♍49	26♋ 1	19♍ 0	21♏ 2	1♎ 9	7♊47	20♒36	16♎40	9♒25	11♋22	10♋17	21♐11	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n39	18n53	3n 4	19n15	4s16	16n59	1n10	18s27	3s19	2n20	1n20	20n 2	1s17	15s13	0s47	4s43	1n59	30s40	13s16	23n13	23n11	21s 4		n.a.
S 2	23 37	15 3	4 1	19 24	4 7	16 36	1 7	18 31	3 20	2 17	1 20	20 3	1 17	15 14	0 47	4 43	1 59	30 40	13 16	23 13	23 11	21 5		n.a.
M 3	23 35	10 32	4 43	19 34	3 56	16 11	1 3	18 35	3 20	2 15	1 20	20 5	1 17	15 14	0 47	4 43	1 59	30 41	13 16	23 12	23 11	21 7		n.a.
T 4	23 32	5 40	5 8	19 46	3 44	15 47	1 0	18 40	3 21	2 12	1 19	20 6	1 17	15 15	0 47	4 43	1 59	30 41	13 16	23 12	23 12	21 8		n.a.
W 5	23 29	0 42	5 18	19 58	3 32	15 22	0 56	18 44	3 21	2 9	1 19	20 7	1 17	15 15	0 47	4 43	1 59	30 42	13 17	23 12	23 12	21 9		n.a.
T 6	23 25	4s10	5 11	20 12	3 18	14 57	0 52	18 49	3 21	2 6	1 19	20 8	1 17	15 16	0 47	4 43	1 59	30 42	13 17	23 12	23 12	21 11		n.a.
F 7	23 21	8 47	4 51	20 27	3 4	14 31	0 49	18 54	3 22	2 3	1 19	20 10	1 17	15 17	0 47	4 43	1 59	30 43	13 17	23 12	23 12	21 12		n.a.
S 8	23 17	13 0	4 19	20 43	2 49	14 5	0 45	18 59	3 22	2 0	1 18	20 11	1 17	15 17	0 47	4 43	1 59	30 43	13 17	23 12	23 13	21 14		n.a.
S 9	23 12	16 39	3 35	21 0	2 34	13 39	0 41	19 4	3 22	1 57	1 18	20 12	1 17	15 18	0 47	4 43	1 59	30 44	13 17	23 12	23 13	21 15		n.a.
M10	23 7	19 38	2 43	21 17	2 19	13 13	0 36	19 9	3 22	1 54	1 18	20 13	1 17	15 18	0 47	4 44	1 58	30 44	13 18	23 12	23 13	21 16		n.a.
T 11	23 1	21 47	1 43	21 34	2 3	12 46	0 32	19 15	3 22	1 51	1 18	20 15	1 17	15 19	0 47	4 44	1 58	30 45	13 18	23 12	23 14	21 18		n.a.
W12	22 55	22 59	0 39	21 51	1 47	12 19	0 28	19 20	3 22	1 48	1 17	20 16	1 17	15 19	0 47	4 44	1 58	30 45	13 18	23 12	23 14	21 19		n.a.
T 13	22 48	23 9	0s27	22 9	1 32	11 52	0 23	19 26	3 23	1 45	1 17	20 17	1 17	15 20	0 47	4 44	1 58	30 46	13 18	23 12	23 14	21 20		n.a.
F 14	22 41	22 14	1 32	22 26	1 16	11 25	0 19	19 32	3 23	1 42	1 17	20 18	1 17	15 21	0 47	4 44	1 58	30 46	13 18	23 12	23 14	21 22		n.a.
S 15	22 34	20 16	2 34	22 42	1 1	10 57	0 14	19 38	3 23	1 38	1 17	20 19	1 17	15 21	0 47	4 44	1 58	30 47	13 19	23 13	23 15	21 23		n.a.
S 16	22 26	17 21	3 30	22 57	0 46	10 29	0 9	19 44	3 22	1 35	1 16	20 20	1 17	15 22	0 47	4 45	1 58	30 47	13 19	23 13	23 15	21 24		n.a.
M17	22 18	13 35	4 17	23 12	0 31	10 1	0 5	19 50	3 22	1 32	1 16	20 22	1 17	15 23	0 47	4 45	1 58	30 48	13 19	23 13	23 15	21 26		n.a.
T 18	22 10	9 10	4 51	23 24	0 17	9 33	0s 0	19 56	3 22	1 28	1 16	20 23	1 17	15 23	0 47	4 45	1 58	30 48	13 19	23 13	23 15	21 27		n.a.
W19	22 1	4 15	5 12	23 36	0 3	9 5	0 5	20 3	3 22	1 25	1 16	20 24	1 17	15 24	0 47	4 45	1 58	30 49	13 19	23 13	23 16	21 29		n.a.
T 20	21 52	0n58	5 17	23 45	0n10	8 37	0 10	20 9	3 22	1 21	1 15	20 25	1 17	15 25	0 47	4 46	1 58	30 49	13 19	23 13	23 16	21 30		n.a.
F 21	21 42	6 16	5 3	23 53	0 22	8 8	0 16	20 16	3 22	1 17	1 15	20 26	1 17	15 25	0 47	4 46	1 58	30 50	13 19	23 13	23 16	21 31		n.a.
S 22	21 32	11 23	4 32	23 58	0 34	7 39	0 21	20 22	3 21	1 14	1 15	20 27	1 17	15 26	0 47	4 46	1 58	30 50	13 20	23 13	23 16	21 32		n.a.
S 23	21 22	16 0	3 44	24 1	0 44	7 10	0 26	20 29	3 21	1 10	1 15	20 28	1 17	15 27	0 47	4 47	1 58	30 51	13 20	23 13	23 17	21 34		n.a.
M24	21 11	19 45	2 40	24 1	0 54	6 42	0 32	20 36	3 21	1 6	1 15	20 29	1 17	15 27	0 47	4 47	1 58	30 51	13 20	23 13	23 17	21 35		n.a.
T 25	21 0	22 15	1 25	23 59	1 3	6 12	0 38	20 42	3 21	1 3	1 14	20 30	1 17	15 28	0 47	4 47	1 58	30 52	13 20	23 13	23 17	21 36		n.a.
W26	20 48	23 12	0 3	23 54	1 12	5 43	0 43	20 49	3 20	0 59	1 14	20 31	1 17	15 29	0 47	4 48	1 57	30 52	13 20	23 13	23 17	21 38		n.a.
T 27	20 36	22 30	1n18	23 46	1 19	5 14	0 49	20 56	3 20	0 55	1 14	20 32	1 17	15 29	0 47	4 48	1 57	30 53	13 20	23 13	23 18	21 39		n.a.
F 28	20 24	20 15	2 34	23 36	1 25	4 45	0 55	21 3	3 19	0 51	1 14	20 33	1 17	15 30	0 47	4 48	1 57	30 53	13 20	23 13	23 18	21 40		n.a.
S 29	20 12	16 44	3 38	23 23	1 31	4 16	1 1	21 10	3 19	0 47	1 13	20 34	1 17	15 31	0 47	4 49	1 57	30 53	13 20	23 13	23 18	21 42		n.a.
S 30	19 59	12 21	4 27	23 7	1 36	3 46	1 7	21 17	3 19	0 43	1 13	20 35	1 17	15 32	0 47	4 49	1 57	30 54	13 20	23 13	23 18	21 43		n.a.
M31	19n45	7n27	4n59	22n49	1n40	3n17	1s13	21s24	3s18	0n39	1n13	20n35	1s17	15s32	0s47	4s49	1n57	30s54	13s20	23n13	23n19	21s44		n.a.

Julian Day Number = 1656589.5, Delta T = 03h28m03s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°31'07, Lahiri = - 6°24'06 Julian Calendar 1 July 178 BCE == Greg. Calendar 28 June 178 BCE

The year -177 astronomical counting style corresponds to year 178 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 178 BCE
geocentric

AUGUST 178 BCE (-177) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 22 2	3♌47'11	6♎ 4	27♋59	20♍ 0	21♏30	1♎18	7♊52	20°R34	16♎41	9°R24	11°R20	10♋14	21♐18	n.a.	T 1
W 2	20 25 58	4°45'16	18°55	29°57	20°59	21°58	1°28	7°58	20♒31	16°42	9♒22	11♋18	10°11	21°25	n.a.	W 2
T 3	20 29 55	5°43'24	1♏24	1♌55	21°58	22°27	1°38	8° 3	20°29	16°43	9°21	11°D17	10° 8	21°31	n.a.	T 3
F 4	20 33 51	6°41'33	13°36	3°53	22°57	22°56	1°48	8° 8	20°27	16°44	9°20	11°17	10° 5	21°38	n.a.	F 4
S 5	20 37 48	7°39'43	25°35	5°49	23°55	23°26	1°58	8°14	20°25	16°45	9°18	11°18	10° 1	21°45	n.a.	S 5
S 6	20 41 44	8°37'55	7♐27	7°45	24°53	23°56	2° 8	8°19	20°22	16°46	9°17	11°19	9°58	21°51	n.a.	S 6
M 7	20 45 41	9°36'09	19°15	9°40	25°50	24°26	2°18	8°24	20°20	16°47	9°16	11°21	9°55	21°58	n.a.	M 7
T 8	20 49 38	10°34'25	1♑ 5	11°35	26°47	24°56	2°28	8°29	20°17	16°48	9°15	11°23	9°52	22° 5	n.a.	T 8
W 9	20 53 34	11°32'42	12°59	13°28	27°43	25°27	2°39	8°34	20°15	16°49	9°13	11°R23	9°49	22°11	n.a.	W 9
T 10	20 57 31	12°31'01	25° 2	15°20	28°39	25°59	2°49	8°39	20°13	16°51	9°12	11°22	9°45	22°18	n.a.	T 10
F 11	21 1 27	13°29'22	7♒15	17°11	29°35	26°30	3° 0	8°44	20°10	16°52	9°11	11°20	9°42	22°25	n.a.	F 11
S 12	21 5 24	14°27'44	19°41	19° 1	0♎30	27° 2	3°11	8°48	20° 8	16°53	9°10	11°16	9°39	22°31	n.a.	S 12
S 13	21 9 20	15°26'09	2♓19	20°50	1°24	27°34	3°21	8°53	20° 6	16°54	9° 8	11°11	9°36	22°38	n.a.	S 13
M14	21 13 17	16°24'36	15°11	22°38	2°18	28° 7	3°32	8°58	20° 3	16°56	9° 7	11° 5	9°33	22°44	n.a.	M14
T 15	21 17 13	17°23'05	28°16	24°24	3°12	28°39	3°43	9° 2	20° 1	16°57	9° 6	10°59	9°30	22°51	n.a.	T 15
W16	21 21 10	18°21'36	11♈34	26°10	4° 4	29°13	3°54	9° 6	19°58	16°58	9° 5	10°54	9°26	22°58	n.a.	W16
T 17	21 25 7	19°20'09	25° 6	27°55	4°56	29°46	4° 5	9°11	19°56	17° 0	9° 3	10°50	9°23	23° 4	n.a.	T 17
F 18	21 29 3	20°18'44	8♉49	29°38	5°48	0♐20	4°16	9°15	19°54	17° 1	9° 2	10°47	9°20	23°11	n.a.	F 18
S 19	21 33 0	21°17'22	22°44	1♍20	6°39	0°53	4°27	9°19	19°51	17° 3	9° 1	10°D47	9°17	23°18	n.a.	S 19
S 20	21 36 56	22°16'03	6♊51	3° 2	7°29	1°28	4°38	9°23	19°49	17° 4	9° 0	10°47	9°14	23°24	n.a.	S 20
M21	21 40 53	23°14'46	21° 8	4°42	8°19	2° 2	4°50	9°27	19°46	17° 5	8°58	10°49	9°11	23°31	n.a.	M21
T 22	21 44 49	24°13'31	5♋34	6°21	9° 7	2°37	5° 1	9°31	19°44	17° 7	8°57	10°R50	9° 7	23°38	n.a.	T 22
W23	21 48 46	25°12'18	20° 4	8° 0	9°55	3°12	5°13	9°35	19°41	17° 8	8°56	10°49	9° 4	23°44	n.a.	W23
T 24	21 52 42	26°11'08	4♌35	9°37	10°43	3°47	5°24	9°38	19°39	17°10	8°55	10°47	9° 1	23°51	n.a.	T 24
F 25	21 56 39	27°10'00	19° 1	11°14	11°29	4°22	5°36	9°42	19°37	17°12	8°54	10°43	8°58	23°58	n.a.	F 25
S 26	22 0 36	28° 8'54	3♍15	12°49	12°15	4°58	5°48	9°45	19°34	17°13	8°52	10°37	8°55	24° 4	n.a.	S 26
S 27	22 4 32	29° 7'50	17°13	14°23	12°59	5°34	5°59	9°49	19°32	17°15	8°51	10°29	8°51	24°11	n.a.	S 27
M28	22 8 29	0♍ 6'48	0♎51	15°57	13°43	6°10	6°11	9°52	19°30	17°17	8°50	10°20	8°48	24°18	n.a.	M28
T 29	22 12 25	1° 5'48	14° 5	17°30	14°26	6°47	6°23	9°55	19°27	17°18	8°49	10°12	8°45	24°24	n.a.	T 29
W30	22 16 22	2° 4'50	26°57	19° 1	15° 8	7°23	6°35	9°58	19°25	17°20	8°48	10° 5	8°42	24°31	n.a.	W30
T 31	22 20 18	3♍ 3'54	9♏27	20♍32	15♎49	8♐ 0	6♎47	10♊ 1	19♒23	17♎22	8♒47	10♋ 0	8♋39	24♐38	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	19n32	2n21	5n14	22n29	1n43	2n48	1s19	21s31	3s18	0n35	1n13	20n36	1s17	15s33	0s47	4s50	1n57	30s55	13s21	23n14	23n19	21s45			n.a.
W 2	19 18	2s41	5 12	22 6	1 45	2 18	1 25	21 38	3 17	0 31	1 13	20 37	1 17	15 34	0 47	4 50	1 57	30 55	13 21	23 14	23 19	21 47			n.a.
T 3	19 4	7 28	4 56	21 41	1 47	1 49	1 32	21 46	3 17	0 27	1 12	20 38	1 17	15 35	0 47	4 51	1 57	30 56	13 21	23 14	23 19	21 48			n.a.
F 4	18 49	11 52	4 27	21 15	1 47	1 20	1 38	21 53	3 16	0 23	1 12	20 39	1 17	15 35	0 47	4 51	1 57	30 56	13 21	23 14	23 20	21 49			n.a.
S 5	18 34	15 43	3 46	20 46	1 48	0 51	1 45	22 0	3 16	0 19	1 12	20 40	1 17	15 36	0 47	4 52	1 57	30 56	13 21	23 14	23 20	21 50			n.a.
S 6	18 19	18 55	2 56	20 16	1 47	0 22	1 51	22 7	3 15	0 14	1 12	20 40	1 17	15 37	0 47	4 52	1 57	30 57	13 21	23 14	23 20	21 52			n.a.
M 7	18 3	21 18	1 59	19 44	1 46	0s 7	1 58	22 14	3 14	0 10	1 12	20 41	1 17	15 38	0 47	4 53	1 57	30 57	13 21	23 13	23 20	21 53			n.a.
T 8	17 47	22 46	0 56	19 11	1 44	0 36	2 4	22 21	3 14	0 6	1 12	20 42	1 17	15 38	0 47	4 53	1 57	30 58	13 21	23 13	23 21	21 54			n.a.
W 9	17 31	23 13	0s 9	18 36	1 42	1 5	2 11	22 28	3 13	0 1	1 11	20 43	1 17	15 39	0 47	4 54	1 57	30 58	13 21	23 13	23 21	21 55			n.a.
T 10	17 15	22 35	1 14	18 1	1 40	1 34	2 18	22 35	3 12	0s 3	1 11	20 43	1 17	15 40	0 47	4 54	1 57	30 58	13 21	23 13	23 21	21 57			n.a.
F 11	16 58	20 53	2 17	17 24	1 37	2 3	2 25	22 42	3 12	0 7	1 11	20 44	1 18	15 41	0 48	4 55	1 56	30 59	13 21	23 14	23 21	21 58			n.a.
S 12	16 41	18 9	3 14	16 46	1 33	2 31	2 32	22 49	3 11	0 12	1 11	20 45	1 18	15 41	0 48	4 55	1 56	30 59	13 21	23 14	23 22	21 59			n.a.
S 13	16 24	14 32	4 3	16 8	1 29	2 59	2 39	22 56	3 10	0 16	1 11	20 46	1 18	15 42	0 48	4 56	1 56	31 0	13 21	23 14	23 22	22 0			n.a.
M14	16 6	10 12	4 40	15 28	1 25	3 27	2 46	23 3	3 10	0 21	1 10	20 46	1 18	15 43	0 48	4 56	1 56	31 0	13 21	23 15	23 22	22 2			n.a.
T 15	15 48	5 19	5 3	14 48	1 21	3 55	2 53	23 10	3 9	0 25	1 10	20 47	1 18	15 44	0 48	4 57	1 56	31 0	13 21	23 15	23 22	22 3			n.a.
W16	15 30	0 8	5 11	14 7	1 16	4 23	3 0	23 16	3 8	0 30	1 10	20 47	1 18	15 45	0 48	4 57	1 56	31 1	13 21	23 16	23 23	22 4			n.a.
T 17	15 12	5n 9	5 1	13 26	1 11	4 51	3 7	23 23	3 7	0 34	1 10	20 48	1 18	15 45	0 48	4 58	1 56	31 1	13 21	23 16	23 23	22 5			n.a.
F 18	14 53	10 16	4 35	12 45	1 5	5 18	3 15	23 30	3 7	0 39	1 10	20 49	1 18	15 46	0 48	4 59	1 56	31 1	13 21	23 16	23 23	22 6			n.a.
S 19	14 34	14 56	3 51	12 3	0 59	5 45	3 22	23 36	3 6	0 44	1 10	20 49	1 18	15 47	0 48	4 59	1 56	31 2	13 21	23 16	23 23	22 8			n.a.
S 20	14 15	18 51	2 54	11 20	0 53	6 12	3 29	23 43	3 5	0 48	1 9	20 50	1 18	15 48	0 48	5 0	1 56	31 2	13 21	23 16	23 23	22 9			n.a.
M21	13 56	21 40	1 45	10 38	0 47	6 38	3 36	23 49	3 4	0 53	1 9	20 50	1 18	15 48	0 48	5 0	1 56	31 2	13 21	23 16	23 24	22 10			n.a.
T 22	13 36	23 7	0 29	9 55	0 41	7 5	3 44	23 55	3 3	0 58	1 9	20 51	1 18	15 49	0 48	5 1	1 56	31 3	13 21	23 16	23 24	22 11			n.a.
W23	13 16	23 1	0n50	9 12	0 35	7 30	3 51	24 1	3 3	1 2	1 9	20 51	1 18	15 50	0 48	5 2	1 56	31 3	13 21	23 16	23 24	22 12			n.a.
T 24	12 56	21 21	2 5	8 29	0 28	7 56	3 59	24 7	3 2	1 7	1 9	20 52	1 18	15 51	0 48	5 2	1 56	31 3	13 21	23 16	23 24	22 13			n.a.
F 25	12 36	18 19	3 11	7 46	0 21	8 21	4 6	24 13	3 1	1 12	1 9	20 52	1 18	15 51	0 48	5 3	1 56	31 3	13 21	23 17	23 25	22 15			n.a.
S 26	12 15	14 13	4 5	7 3	0 14	8 46	4 13	24 19	3 0	1 17	1 9	20 53	1 18	15 52	0 48	5 4	1 56	31 4	13 21	23 17	23 25	22 16			n.a.
S 27	11 55	9 26	4 43	6 19	0 7	9 11	4 21	24 25	2 59	1 22	1 8	20 53	1 18	15 53	0 48	5 4	1 56	31 4	13 20	23 18	23 25	22 17			n.a.
M28	11 34	4 17	5 3	5 36	0 0	9 35	4 28	24 31	2 58	1 26	1 8	20 54	1 18	15 54	0 48	5 5	1 56	31 4	13 20	23 18	23 25	22 18			n.a.
T 29	11 13	0s55	5 6	4 53	0s 7	9 59	4 36	24 36	2 57	1 31	1 8	20 54	1 18	15 54	0 47	5 6	1 56	31 4	13 20	23 19	23 25	22 19			n.a.
W30	10 51	5 56	4 54	4 10	0 14	10 22	4 43	24 42	2 56	1 36	1 8	20 55	1 18	15 55	0 47	5 6	1 55	31 5	13 20	23 20	23 26	22 20			n.a.
T 31	10n30	10s35	4n28	3n28	0s22	10s45	4s50	24s47	2s55	1s41	1n 8	20n55	1s19	15s56	0s47	5s 7	1n55	31s 5	13s20	23n20	23n26	22s21			n.a.

Julian Day Number = 1656620.5, Delta T = 03h28m02s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°31'03, Lahiri = - 6°24'02 Julian Calendar 1 Aug. 178 BCE == Greg. Calendar 29 July 178 BCE

The year -177 astronomical counting style corresponds to year 178 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 178 BCE
geocentric

SEPTEMBER 178 BCE (-177) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	22 24 15	4♍ 3'00	21♏40	22♍ 2	16♎28	8♐37	6♎59	10♊ 4	19°R20	17♎23	8°R45	9°R58	8♋36	24♐44	n.a.	F 1
S 2	22 28 11	5° 2'07	3♐39	23°31	17° 7	9°14	7°11	10° 7	19♒18	17°25	8♒44	9°D57	8°32	24°51	n.a.	S 2
S 3	22 32 8	6° 1'17	15°31	24°59	17°45	9°52	7°23	10°10	19°16	17°27	8°43	9♋57	8°29	24°57	n.a.	S 3
M 4	22 36 4	7° 0'28	27°19	26°27	18°21	10°29	7°35	10°12	19°13	17°29	8°42	9°58	8°26	25° 4	n.a.	M 4
T 5	22 40 1	7°59'42	9♑10	27°53	18°56	11° 7	7°48	10°15	19°11	17°31	8°41	9°R59	8°23	25°11	n.a.	T 5
W 6	22 43 58	8°58'57	21° 8	29°18	19°29	11°45	8° 0	10°17	19° 9	17°32	8°40	9°58	8°20	25°17	n.a.	W 6
T 7	22 47 54	9°58'15	3♒17	0♎42	20° 1	12°23	8°12	10°19	19° 7	17°34	8°39	9°55	8°17	25°24	n.a.	T 7
F 8	22 51 51	10°57'34	15°41	2° 6	20°32	13° 2	8°25	10°21	19° 5	17°36	8°38	9°50	8°13	25°31	n.a.	F 8
S 9	22 55 47	11°56'55	28°22	3°28	21° 2	13°40	8°37	10°23	19° 2	17°38	8°37	9°42	8°10	25°37	n.a.	S 9
S 10	22 59 44	12°56'18	11♓20	4°49	21°29	14°19	8°50	10°25	19° 0	17°40	8°36	9°33	8° 7	25°44	n.a.	S 10
M11	23 3 40	13°55'44	24°36	6° 9	21°55	14°58	9° 2	10°27	18°58	17°42	8°35	9°22	8° 4	25°51	n.a.	M11
T 12	23 7 37	14°55'11	8♈ 6	7°28	22°20	15°37	9°15	10°29	18°56	17°44	8°34	9°10	8° 1	25°57	n.a.	T 12
W13	23 11 33	15°54'41	21°48	8°46	22°43	16°16	9°28	10°30	18°54	17°46	8°33	9° 0	7°57	26° 4	n.a.	W13
T 14	23 15 30	16°54'13	5♉39	10° 2	23° 4	16°55	9°40	10°32	18°52	17°48	8°32	8°52	7°54	26°11	n.a.	T 14
F 15	23 19 26	17°53'48	19°37	11°17	23°23	17°34	9°53	10°33	18°50	17°50	8°31	8°47	7°51	26°17	n.a.	F 15
S 16	23 23 23	18°53'25	3♊39	12°30	23°40	18°14	10° 6	10°35	18°48	17°52	8°30	8°44	7°48	26°24	n.a.	S 16
S 17	23 27 20	19°53'04	17°43	13°42	23°55	18°54	10°19	10°36	18°46	17°54	8°29	8°D43	7°45	26°31	n.a.	S 17
M18	23 31 16	20°52'46	1♋49	14°52	24° 8	19°33	10°31	10°37	18°44	17°56	8°28	8°R43	7°42	26°37	n.a.	M18
T 19	23 35 13	21°52'30	15°56	16° 0	24°19	20°13	10°44	10°38	18°42	17°58	8°27	8°43	7°38	26°44	n.a.	T 19
W20	23 39 9	22°52'17	0♌ 3	17° 6	24°28	20°53	10°57	10°39	18°40	18° 0	8°27	8°41	7°35	26°51	n.a.	W20
T 21	23 43 6	23°52'06	14° 8	18°10	24°35	21°34	11°10	10°39	18°38	18° 2	8°26	8°37	7°32	26°57	n.a.	T 21
F 22	23 47 2	24°51'57	28° 7	19°11	24°40	22°14	11°23	10°40	18°37	18° 4	8°25	8°30	7°29	27° 4	n.a.	F 22
S 23	23 50 59	25°51'51	11♍59	20°10	24°R42	22°54	11°36	10°40	18°35	18° 6	8°24	8°20	7°26	27°10	n.a.	S 23
S 24	23 54 55	26°51'46	25°37	21° 5	24°42	23°35	11°49	10°41	18°33	18° 8	8°23	8° 8	7°22	27°17	n.a.	S 24
M25	23 58 52	27°51'44	9♎ 1	21°57	24°40	24°16	12° 2	10°41	18°31	18°11	8°23	7°55	7°19	27°24	n.a.	M25
T 26	0 2 49	28°51'43	22° 6	22°45	24°35	24°56	12°15	10°41	18°30	18°13	8°22	7°43	7°16	27°30	n.a.	T 26
W27	0 6 45	29°51'44	4♏52	23°29	24°28	25°37	12°28	10°R41	18°28	18°15	8°21	7°31	7°13	27°37	n.a.	W27
T 28	0 10 42	0♎51'48	17°19	24° 8	24°18	26°18	12°42	10°41	18°26	18°17	8°20	7°22	7°10	27°44	n.a.	T 28
F 29	0 14 38	1°51'53	29°31	24°42	24° 6	27° 0	12°55	10°41	18°25	18°19	8°20	7°16	7° 7	27°50	n.a.	F 29
S 30	0 18 35	2♎52'00	11♐29	25♎11	23♎51	27♐41	13♎ 8	10♊41	18♒23	18♎21	8♒19	7♋13	7♋ 3	27♐57	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	10n 8	14s41	3n50	2n45	0s29	11s 7	4s58	24s52	2s55	1s46	1n 8	20n55	1s19	15s57	0s47	5s 8	1n55	31s 5	13s20	23n20	23n26	22s23		n.a.
S 2	9 46	18 9	3 2	2 3	0 36	11 29	5 5	24 57	2 54	1 51	1 8	20 56	1 19	15 57	0 47	5 8	1 55	31 5	13 20	23 20	23 26	22 24		n.a.
S 3	9 24	20 48	2 8	1 21	0 44	11 50	5 12	25 2	2 53	1 56	1 7	20 56	1 19	15 58	0 47	5 9	1 55	31 6	13 20	23 20	23 26	22 25		n.a.
M 4	9 2	22 34	1 7	0 39	0 51	12 11	5 20	25 6	2 52	2 1	1 7	20 56	1 19	15 59	0 47	5 10	1 55	31 6	13 20	23 20	23 27	22 26		n.a.
T 5	8 40	23 19	0 4	0s 2	0 58	12 31	5 27	25 11	2 51	2 6	1 7	20 57	1 19	15 59	0 47	5 11	1 55	31 6	13 20	23 20	23 27	22 27		n.a.
W 6	8 18	23 1	0s59	0 43	1 6	12 51	5 34	25 15	2 50	2 11	1 7	20 57	1 19	16 0	0 47	5 11	1 55	31 6	13 19	23 20	23 27	22 28		n.a.
T 7	7 55	21 37	2 1	1 24	1 13	13 10	5 41	25 20	2 49	2 16	1 7	20 57	1 19	16 1	0 47	5 12	1 55	31 6	13 19	23 20	23 27	22 29		n.a.
F 8	7 32	19 10	2 59	2 4	1 20	13 28	5 48	25 24	2 48	2 21	1 7	20 57	1 19	16 2	0 47	5 13	1 55	31 7	13 19	23 21	23 27	22 30		n.a.
S 9	7 10	15 44	3 48	2 44	1 28	13 45	5 55	25 28	2 47	2 26	1 7	20 58	1 19	16 2	0 47	5 14	1 55	31 7	13 19	23 21	23 28	22 31		n.a.
S 10	6 47	11 30	4 27	3 23	1 35	14 2	6 1	25 31	2 46	2 31	1 7	20 58	1 19	16 3	0 47	5 14	1 55	31 7	13 19	23 22	23 28	22 32		n.a.
M11	6 24	6 39	4 53	4 1	1 42	14 18	6 8	25 35	2 45	2 36	1 6	20 58	1 19	16 4	0 47	5 15	1 55	31 7	13 19	23 23	23 28	22 34		n.a.
T 12	6 0	1 23	5 3	4 39	1 49	14 34	6 14	25 38	2 44	2 42	1 6	20 58	1 19	16 4	0 47	5 16	1 55	31 7	13 19	23 24	23 28	22 35		n.a.
W13	5 37	4n 2	4 55	5 17	1 55	14 48	6 21	25 41	2 42	2 47	1 6	20 58	1 19	16 5	0 47	5 17	1 55	31 7	13 18	23 24	23 28	22 36		n.a.
T 14	5 14	9 18	4 31	5 53	2 2	15 2	6 27	25 45	2 41	2 52	1 6	20 59	1 19	16 5	0 47	5 18	1 55	31 7	13 18	23 25	23 29	22 37		n.a.
F 15	4 50	14 9	3 50	6 29	2 8	15 14	6 33	25 47	2 40	2 57	1 6	20 59	1 19	16 6	0 47	5 18	1 55	31 7	13 18	23 25	23 29	22 38		n.a.
S 16	4 27	18 16	2 55	7 4	2 15	15 26	6 38	25 50	2 39	3 2	1 6	20 59	1 19	16 7	0 47	5 19	1 55	31 8	13 18	23 26	23 29	22 39		n.a.
S 17	4 3	21 20	1 49	7 37	2 21	15 37	6 44	25 52	2 38	3 7	1 6	20 59	1 19	16 7	0 47	5 20	1 55	31 8	13 18	23 26	23 29	22 40		n.a.
M18	3 39	23 6	0 37	8 10	2 27	15 47	6 49	25 55	2 37	3 12	1 6	20 59	1 20	16 8	0 47	5 21	1 55	31 8	13 17	23 26	23 29	22 41		n.a.
T 19	3 16	23 23	0n38	8 42	2 32	15 55	6 54	25 57	2 36	3 18	1 6	20 59	1 20	16 8	0 47	5 22	1 55	31 8	13 17	23 26	23 30	22 42		n.a.
W20	2 52	22 10	1 51	9 13	2 37	16 3	6 58	25 59	2 35	3 23	1 6	20 59	1 20	16 9	0 47	5 22	1 55	31 8	13 17	23 26	23 30	22 43		n.a.
T 21	2 28	19 35	2 56	9 42	2 42	16 9	7 2	26 0	2 34	3 28	1 5	20 59	1 20	16 10	0 47	5 23	1 55	31 8	13 17	23 26	23 30	22 44		n.a.
F 22	2 4	15 51	3 50	10 10	2 47	16 15	7 6	26 2	2 33	3 33	1 5	20 59	1 20	16 10	0 47	5 24	1 55	31 8	13 17	23 26	23 30	22 45		n.a.
S 23	1 40	11 18	4 30	10 36	2 51	16 19	7 9	26 3	2 32	3 38	1 5	20 59	1 20	16 11	0 47	5 25	1 55	31 8	13 16	23 27	23 30	22 46		n.a.
S 24	1 16	6 14	4 54	11 0	2 54	16 21	7 12	26 4	2 31	3 44	1 5	20 59	1 20	16 11	0 47	5 26	1 55	31 8	13 16	23 28	23 31	22 47		n.a.
M25	0 52	0 59	5 1	11 23	2 57	16 23	7 15	26 5	2 29	3 49	1 5	20 59	1 20	16 12	0 47	5 27	1 55	31 8	13 16	23 29	23 31	22 48		n.a.
T 26	0 27	4s12	4 51	11 44	3 0	16 23	7 17	26 5	2 28	3 54	1 5	20 59	1 20	16 12	0 47	5 27	1 55	31 8	13 16	23 29	23 31	22 49		n.a.
W27	0 3	9 5	4 28	12 2	3 2	16 21	7 18	26 6	2 27	3 59	1 5	20 59	1 20	16 13	0 47	5 28	1 55	31 8	13 16	23 30	23 31	22 50		n.a.
T 28	0s21	13 30	3 52	12 18	3 3	16 19	7 19	26 6	2 26	4 5	1 5	20 59	1 20	16 13	0 47	5 29	1 55	31 8	13 15	23 31	23 31	22 51		n.a.
F 29	0 45	17 16	3 5	12 31	3 3	16 14	7 20	26 6	2 25	4 10	1 5	20 59	1 20	16 14	0 47	5 30	1 55	31 8	13 15	23 31	23 31	22 52		n.a.
S 30	1s 9	20s15	2n12	12s41	3s 2	16s 9	7s19	26s 5	2s24	4s15	1n 5	20n59	1s20	16s14	0s47	5s31	1n55	31s 8	13s15	23n31	23n32	22s53		n.a.

Julian Day Number = 1656651.5, Delta T = 03h28m01s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'58, Lahiri = - 6°23'58 Julian Calendar 1 Sept. 178 BCE == Greg. Calendar 29 Aug. 178 BCE

The year -177 astronomical counting style corresponds to year 178 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 178 BCE
geocentric

OCTOBER 178 BCE (-177) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 22 31	3♎52'08	23♐20	25♎33	23°R34	28♐22	13♎21	10°R40	18°R22	18♎24	8°R19	7°R11	7♋ 0	28♐ 4	n.a.	S 1
M 2	0 26 28	4°52'18	5♑ 7	25°49	23♎15	29° 4	13°34	10♊40	18♒20	18°26	8♒18	7♋11	6°57	28°10	n.a.	M 2
T 3	0 30 24	5°52'30	16°58	25°R57	22°54	29°45	13°47	10°39	18°19	18°28	8°17	7°11	6°54	28°17	n.a.	T 3
W 4	0 34 21	6°52'44	28°56	25°56	22°30	0♑27	14° 1	10°38	18°18	18°30	8°17	7°10	6°51	28°24	n.a.	W 4
T 5	0 38 18	7°52'59	11♒ 8	25°47	22° 4	1° 8	14°14	10°37	18°16	18°32	8°16	7° 6	6°48	28°30	n.a.	T 5
F 6	0 42 14	8°53'16	23°38	25°29	21°37	1°50	14°27	10°36	18°15	18°35	8°16	7° 0	6°44	28°37	n.a.	F 6
S 7	0 46 11	9°53'34	6♓29	25° 1	21° 7	2°32	14°40	10°35	18°14	18°37	8°15	6°52	6°41	28°43	n.a.	S 7
S 8	0 50 7	10°53'54	19°42	24°23	20°36	3°14	14°54	10°34	18°13	18°39	8°15	6°41	6°38	28°50	n.a.	S 8
M 9	0 54 4	11°54'16	3♈17	23°36	20° 4	3°56	15° 7	10°33	18°11	18°41	8°14	6°28	6°35	28°57	n.a.	M 9
T 10	0 58 0	12°54'39	17°12	22°39	19°30	4°38	15°20	10°31	18°10	18°44	8°14	6°16	6°32	29° 3	n.a.	T 10
W11	1 1 57	13°55'04	1♉21	21°34	18°55	5°20	15°34	10°30	18° 9	18°46	8°13	6° 4	6°28	29°10	n.a.	W11
T 12	1 5 53	14°55'32	15°40	20°22	18°19	6° 3	15°47	10°28	18° 8	18°48	8°13	5°54	6°25	29°17	n.a.	T 12
F 13	1 9 50	15°56'01	0♊ 2	19° 5	17°43	6°45	16° 0	10°26	18° 7	18°50	8°13	5°48	6°22	29°23	n.a.	F 13
S 14	1 13 46	16°56'32	14°23	17°45	17° 7	7°27	16°14	10°25	18° 6	18°53	8°12	5°44	6°19	29°30	n.a.	S 14
S 15	1 17 43	17°57'05	28°39	16°25	16°30	8°10	16°27	10°23	18° 6	18°55	8°12	5°43	6°16	29°37	n.a.	S 15
M16	1 21 40	18°57'40	12♋48	15° 7	15°54	8°52	16°40	10°20	18° 5	18°57	8°12	5°42	6°13	29°43	n.a.	M16
T 17	1 25 36	19°58'16	26°49	13°54	15°18	9°35	16°53	10°18	18° 4	18°59	8°12	5°42	6° 9	29°50	n.a.	T 17
W18	1 29 33	20°58'55	10♌41	12°48	14°43	10°17	17° 7	10°16	18° 3	19° 2	8°11	5°41	6° 6	29°57	n.a.	W18
T 19	1 33 29	21°59'36	24°26	11°51	14° 9	11° 0	17°20	10°14	18° 3	19° 4	8°11	5°37	6° 3	0♑ 3	n.a.	T 19
F 20	1 37 26	23° 0'18	8♍ 1	11° 5	13°36	11°42	17°33	10°11	18° 2	19° 6	8°11	5°31	6° 0	0°10	n.a.	F 20
S 21	1 41 22	24° 1'02	21°26	10°30	13° 5	12°25	17°47	10° 9	18° 1	19° 8	8°11	5°21	5°57	0°17	n.a.	S 21
S 22	1 45 19	25° 1'48	4♎40	10° 6	12°35	13° 8	18° 0	10° 6	18° 1	19°11	8°11	5°10	5°53	0°23	n.a.	S 22
M23	1 49 15	26° 2'35	17°42	9°55	12° 7	13°51	18°13	10° 3	18° 0	19°13	8°11	4°57	5°50	0°30	n.a.	M23
T 24	1 53 12	27° 3'24	0♏30	9°D54	11°40	14°34	18°26	10° 0	18° 0	19°15	8°11	4°45	5°47	0°36	n.a.	T 24
W25	1 57 9	28° 4'14	13° 3	10° 4	11°16	15°17	18°40	9°57	17°59	19°17	8°10	4°33	5°44	0°43	n.a.	W25
T 26	2 1 5	29° 5'05	25°22	10°24	10°54	16° 0	18°53	9°54	17°59	19°20	8°D10	4°24	5°41	0°50	n.a.	T 26
F 27	2 5 2	0♏ 5'58	7♐29	10°53	10°34	16°43	19° 6	9°51	17°59	19°22	8°10	4°18	5°38	0°56	n.a.	F 27
S 28	2 8 58	1° 6'52	19°24	11°30	10°16	17°26	19°19	9°48	17°59	19°24	8°10	4°14	5°34	1° 3	n.a.	S 28
S 29	2 12 55	2° 7'46	1♑13	12°15	10° 1	18° 9	19°33	9°44	17°58	19°26	8°11	4°D13	5°31	1°10	n.a.	S 29
M30	2 16 51	3° 8'42	12°59	13° 6	9°48	18°52	19°46	9°41	17°58	19°28	8°11	4°13	5°28	1°16	n.a.	M30
T 31	2 20 48	4♏ 9'39	24♑48	14♎ 2	9♎38	19♑35	19♎59	9♊37	17♒58	19♎31	8♒11	4♋14	5♋25	1♑23	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	1s33	22s20	1n13	12s47	3s 1	16s 1	7s18	26s 5	2s23	4s20	1n 5	20n59	1s20	16s15	0s47	5s32	1n55	31s 8	13s15	23n31	23n32	22s54			n.a.
M 2	1 57	23 26	0 11	12 50	2 58	15 52	7 17	26 4	2 21	4 26	1 5	20 59	1 20	16 15	0 47	5 33	1 54	31 8	13 14	23 31	23 32	22 55			n.a.
T 3	2 22	23 29	0s52	12 50	2 54	15 42	7 14	26 3	2 20	4 31	1 5	20 59	1 20	16 15	0 47	5 33	1 54	31 8	13 14	23 31	23 32	22 56			n.a.
W 4	2 46	22 27	1 53	12 44	2 48	15 30	7 11	26 2	2 19	4 36	1 4	20 58	1 20	16 16	0 47	5 34	1 54	31 8	13 14	23 31	23 32	22 57			n.a.
T 5	3 10	20 21	2 49	12 35	2 41	15 16	7 7	26 1	2 18	4 41	1 4	20 58	1 20	16 16	0 47	5 35	1 54	31 8	13 14	23 31	23 32	22 58			n.a.
F 6	3 34	17 15	3 39	12 20	2 33	15 1	7 2	25 59	2 17	4 46	1 4	20 58	1 21	16 16	0 47	5 36	1 54	31 7	13 14	23 32	23 33	22 59			n.a.
S 7	3 58	13 15	4 20	12 0	2 23	14 45	6 57	25 57	2 16	4 52	1 4	20 58	1 21	16 17	0 47	5 37	1 54	31 7	13 13	23 32	23 33	23 0			n.a.
S 8	4 22	8 31	4 48	11 35	2 11	14 27	6 50	25 55	2 14	4 57	1 4	20 58	1 21	16 17	0 47	5 38	1 54	31 7	13 13	23 33	23 33	23 1			n.a.
M 9	4 46	3 15	5 0	11 4	1 57	14 8	6 43	25 53	2 13	5 2	1 4	20 57	1 21	16 18	0 47	5 39	1 54	31 7	13 13	23 33	23 33	23 2			n.a.
T 10	5 9	2n18	4 55	10 28	1 41	13 47	6 35	25 50	2 12	5 7	1 4	20 57	1 21	16 18	0 47	5 39	1 54	31 7	13 12	23 34	23 33	23 3			n.a.
W11	5 33	7 50	4 32	9 48	1 24	13 26	6 26	25 47	2 11	5 13	1 4	20 57	1 21	16 18	0 47	5 40	1 54	31 7	13 12	23 35	23 33	23 3			n.a.
T 12	5 57	13 1	3 52	9 3	1 5	13 3	6 16	25 44	2 10	5 18	1 4	20 57	1 21	16 18	0 47	5 41	1 54	31 7	13 12	23 35	23 34	23 4			n.a.
F 13	6 20	17 31	2 57	8 16	0 46	12 39	6 6	25 41	2 9	5 23	1 4	20 56	1 21	16 19	0 47	5 42	1 54	31 7	13 12	23 35	23 34	23 5			n.a.
S 14	6 44	20 58	1 50	7 26	0 25	12 15	5 55	25 37	2 7	5 28	1 4	20 56	1 21	16 19	0 46	5 43	1 54	31 6	13 11	23 35	23 34	23 6			n.a.
S 15	7 7	23 5	0 37	6 36	0 4	11 50	5 43	25 34	2 6	5 33	1 4	20 56	1 21	16 19	0 46	5 44	1 54	31 6	13 11	23 36	23 34	23 7			n.a.
M16	7 31	23 43	0n38	5 47	0n16	11 24	5 31	25 30	2 5	5 39	1 4	20 55	1 21	16 19	0 46	5 45	1 54	31 6	13 11	23 36	23 34	23 8			n.a.
T 17	7 54	22 50	1 49	5 0	0 36	10 58	5 17	25 25	2 4	5 44	1 4	20 55	1 21	16 20	0 46	5 46	1 54	31 6	13 11	23 36	23 34	23 9			n.a.
W18	8 17	20 33	2 54	4 16	0 55	10 31	5 4	25 21	2 3	5 49	1 4	20 55	1 21	16 20	0 46	5 46	1 54	31 6	13 10	23 36	23 34	23 10			n.a.
T 19	8 40	17 6	3 48	3 38	1 12	10 5	4 50	25 16	2 1	5 54	1 4	20 54	1 21	16 20	0 46	5 47	1 54	31 5	13 10	23 36	23 35	23 11			n.a.
F 20	9 3	12 48	4 28	3 5	1 28	9 39	4 35	25 11	2 0	5 59	1 4	20 54	1 21	16 20	0 46	5 48	1 54	31 5	13 10	23 36	23 35	23 12			n.a.
S 21	9 25	7 55	4 53	2 39	1 42	9 13	4 21	25 6	1 59	6 4	1 4	20 54	1 21	16 20	0 46	5 49	1 54	31 5	13 10	23 36	23 35	23 12			n.a.
S 22	9 48	2 44	5 2	2 19	1 53	8 47	4 6	25 1	1 58	6 10	1 4	20 53	1 21	16 20	0 46	5 50	1 54	31 5	13 9	23 37	23 35	23 13			n.a.
M23	10 10	2s30	4 55	2 5	2 3	8 22	3 50	24 55	1 57	6 15	1 4	20 53	1 21	16 21	0 46	5 51	1 54	31 5	13 9	23 37	23 35	23 14			n.a.
T 24	10 32	7 32	4 32	1 57	2 11	7 57	3 35	24 49	1 55	6 20	1 4	20 52	1 21	16 21	0 46	5 52	1 54	31 4	13 9	23 38	23 35	23 15			n.a.
W25	10 55	12 10	3 57	1 56	2 18	7 34	3 20	24 43	1 54	6 25	1 4	20 52	1 21	16 21	0 46	5 52	1 54	31 4	13 8	23 38	23 35	23 16			n.a.
T 26	11 16	16 14	3 12	1 59	2 22	7 11	3 4	24 37	1 53	6 30	1 4	20 51	1 21	16 21	0 46	5 53	1 54	31 4	13 8	23 39	23 36	23 17			n.a.
F 27	11 38	19 33	2 18	2 8	2 25	6 48	2 49	24 30	1 52	6 35	1 4	20 51	1 21	16 21	0 46	5 54	1 54	31 4	13 8	23 39	23 36	23 17			n.a.
S 28	12 0	21 59	1 18	2 21	2 27	6 27	2 33	24 24	1 51	6 40	1 4	20 50	1 21	16 21	0 46	5 55	1 54	31 3	13 8	23 39	23 36	23 18			n.a.
S 29	12 21	23 27	0 16	2 38	2 28	6 7	2 18	24 17	1 49	6 45	1 4	20 50	1 21	16 21	0 46	5 56	1 54	31 3	13 7	23 39	23 36	23 19			n.a.
M30	12 42	23 51	0s47	2 58	2 27	5 48	2 3	24 9	1 48	6 50	1 4	20 49	1 21	16 21	0 46	5 57	1 55	31 3	13 7	23 39	23 36	23 20			n.a.
T 31	13s 3	23s11	1s48	3s22	2n26	5s31	1s48	24s 2	1s47	6s55	1n 4	20n49	1s21	16s21	0s46	5s57	1n55	31s 2	13s 7	23n39	23n36	23s21			n.a.

Julian Day Number = 1656681.5, Delta T = 03h28m00s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'54, Lahiri = - 6°23'54 Julian Calendar 1 Oct. 178 BCE == Greg. Calendar 28 Sept. 178 BCE

The year -177 astronomical counting style corresponds to year 178 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 178 BCE
geocentric

NOVEMBER 178 BCE (-177) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	2 24 44	5♏10'37	6♒45	15♎ 3	9°R30	20♑19	20♎12	9°R34	17°D58	19♎33	8♒11	4°R15	5♋22	1♑30	n.a.	W 1
T 2	2 28 41	6°11'36	18°55	16° 9	9♎24	21° 2	20°25	9♊30	17♒58	19°35	8°11	4♋14	5°19	1°36	n.a.	T 2
F 3	2 32 38	7°12'35	1♓24	17°18	9°21	21°45	20°38	9°26	17°58	19°37	8°11	4°11	5°15	1°43	n.a.	F 3
S 4	2 36 34	8°13'35	14°15	18°31	9°D21	22°28	20°51	9°23	17°58	19°39	8°11	4° 5	5°12	1°50	n.a.	S 4
S 5	2 40 31	9°14'36	27°33	19°46	9°23	23°12	21° 4	9°19	17°59	19°42	8°12	3°58	5° 9	1°56	n.a.	S 5
M 6	2 44 27	10°15'38	11♈17	21° 4	9°27	23°55	21°17	9°15	17°59	19°44	8°12	3°49	5° 6	2° 3	n.a.	M 6
T 7	2 48 24	11°16'41	25°26	22°23	9°34	24°38	21°30	9°11	17°59	19°46	8°12	3°40	5° 3	2° 9	n.a.	T 7
W 8	2 52 20	12°17'44	9♉55	23°45	9°43	25°22	21°43	9° 7	18° 0	19°48	8°12	3°31	4°59	2°16	n.a.	W 8
T 9	2 56 17	13°18'49	24°38	25° 8	9°54	26° 5	21°56	9° 2	18° 0	19°50	8°13	3°25	4°56	2°23	n.a.	T 9
F 10	3 0 13	14°19'54	9♊28	26°32	10° 7	26°49	22° 9	8°58	18° 0	19°52	8°13	3°20	4°53	2°29	n.a.	F 10
S 11	3 4 10	15°21'00	24°15	27°57	10°23	27°32	22°22	8°54	18° 1	19°54	8°14	3°18	4°50	2°36	n.a.	S 11
S 12	3 8 7	16°22'08	8♋54	29°23	10°41	28°16	22°34	8°49	18° 1	19°56	8°14	3°D17	4°47	2°43	n.a.	S 12
M13	3 12 3	17°23'16	23°19	0♏51	11° 0	28°59	22°47	8°45	18° 2	19°58	8°14	3°18	4°44	2°49	n.a.	M13
T 14	3 16 0	18°24'26	7♌29	2°18	11°22	29°43	23° 0	8°41	18° 3	20° 0	8°15	3°20	4°40	2°56	n.a.	T 14
W15	3 19 56	19°25'36	21°22	3°47	11°46	0♒26	23°13	8°36	18° 3	20° 2	8°15	3°R20	4°37	3° 3	n.a.	W15
T 16	3 23 53	20°26'47	4♍58	5°16	12°11	1°10	23°25	8°31	18° 4	20° 5	8°16	3°19	4°34	3° 9	n.a.	T 16
F 17	3 27 49	21°27'59	18°19	6°45	12°38	1°53	23°38	8°27	18° 5	20° 7	8°16	3°16	4°31	3°16	n.a.	F 17
S 18	3 31 46	22°29'12	1♎25	8°15	13° 7	2°37	23°50	8°22	18° 6	20° 8	8°17	3°11	4°28	3°23	n.a.	S 18
S 19	3 35 43	23°30'26	14°17	9°45	13°37	3°20	24° 3	8°17	18° 7	20°10	8°18	3° 5	4°25	3°29	n.a.	S 19
M20	3 39 39	24°31'40	26°57	11°16	14° 9	4° 4	24°15	8°13	18° 8	20°12	8°18	2°57	4°21	3°36	n.a.	M20
T 21	3 43 36	25°32'55	9♏26	12°47	14°43	4°47	24°28	8° 8	18° 9	20°14	8°19	2°50	4°18	3°43	n.a.	T 21
W22	3 47 32	26°34'10	21°43	14°18	15°18	5°31	24°40	8° 3	18°10	20°16	8°19	2°44	4°15	3°49	n.a.	W22
T 23	3 51 29	27°35'26	3♐50	15°49	15°54	6°14	24°52	7°58	18°11	20°18	8°20	2°38	4°12	3°56	n.a.	T 23
F 24	3 55 25	28°36'42	15°49	17°21	16°32	6°58	25° 4	7°53	18°12	20°20	8°21	2°35	4° 9	4° 2	n.a.	F 24
S 25	3 59 22	29°37'59	27°40	18°53	17°11	7°42	25°16	7°48	18°13	20°22	8°22	2°D34	4° 5	4° 9	n.a.	S 25
S 26	4 3 18	0♐39'15	9♑27	20°25	17°51	8°25	25°29	7°43	18°14	20°24	8°22	2°34	4° 2	4°16	n.a.	S 26
M27	4 7 15	1°40'32	21°13	21°58	18°32	9° 9	25°41	7°39	18°16	20°26	8°23	2°35	3°59	4°22	n.a.	M27
T 28	4 11 12	2°41'48	3♒ 2	23°31	19°15	9°52	25°53	7°34	18°17	20°27	8°24	2°37	3°56	4°29	n.a.	T 28
W29	4 15 8	3°43'04	14°57	25° 4	19°58	10°36	26° 4	7°29	18°18	20°29	8°25	2°39	3°53	4°36	n.a.	W29
T 30	4 19 5	4♐44'20	27♒ 5	26♏37	20♎43	11♒20	26♎16	7♊24	18♒20	20♎31	8♒26	2♋40	3♋50	4♑42	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	13 s24	21 s28	2 s45	3 s48	2n23	5 s14	1 s34	23 s54	1 s46	7 s 0	1n 4	20n48	1 s21	16 s21	0 s46	5 s58	1n55	31 s 2	13 s 6	23n39	23n36	23 s22		n.a.
T 2	13 44	18 45	3 36	4 16	2 20	4 59	1 19	23 46	1 45	7 5	1 4	20 48	1 21	16 21	0 46	5 59	1 55	31 2	13 6	23 39	23 37	23 22		n.a.
F 3	14 5	15 7	4 18	4 47	2 16	4 45	1 5	23 38	1 43	7 10	1 4	20 47	1 21	16 21	0 46	6 0	1 55	31 1	13 6	23 39	23 37	23 23		n.a.
S 4	14 25	10 41	4 48	5 18	2 12	4 32	0 52	23 30	1 42	7 15	1 4	20 47	1 21	16 21	0 46	6 1	1 55	31 1	13 6	23 39	23 37	23 24		n.a.
S 5	14 44	5 38	5 4	5 52	2 7	4 21	0 38	23 21	1 41	7 20	1 4	20 46	1 21	16 21	0 46	6 1	1 55	31 1	13 5	23 39	23 37	23 25		n.a.
M 6	15 4	0 8	5 4	6 26	2 2	4 11	0 25	23 13	1 40	7 25	1 4	20 45	1 21	16 21	0 46	6 2	1 55	31 0	13 5	23 40	23 37	23 26		n.a.
T 7	15 23	5n32	4 45	7 1	1 56	4 2	0 13	23 4	1 39	7 30	1 4	20 45	1 21	16 20	0 46	6 3	1 55	31 0	13 5	23 40	23 37	23 26		n.a.
W 8	15 42	11 3	4 7	7 37	1 50	3 54	0 1	22 55	1 38	7 35	1 4	20 44	1 21	16 20	0 46	6 4	1 55	31 0	13 4	23 40	23 37	23 27		n.a.
T 9	16 1	16 2	3 13	8 13	1 44	3 48	0n11	22 45	1 36	7 40	1 4	20 44	1 21	16 20	0 46	6 5	1 55	30 59	13 4	23 40	23 37	23 28		n.a.
F 10	16 19	20 4	2 5	8 50	1 38	3 42	0 23	22 36	1 35	7 44	1 4	20 43	1 21	16 20	0 46	6 5	1 55	30 59	13 4	23 40	23 38	23 29		n.a.
S 11	16 38	22 47	0 49	9 27	1 31	3 39	0 34	22 26	1 34	7 49	1 4	20 42	1 21	16 20	0 45	6 6	1 55	30 59	13 4	23 40	23 38	23 29		n.a.
S 12	16 55	23 55	0n30	10 4	1 25	3 36	0 44	22 16	1 33	7 54	1 4	20 42	1 21	16 20	0 45	6 7	1 55	30 58	13 3	23 40	23 38	23 30		n.a.
M13	17 13	23 25	1 46	10 41	1 18	3 34	0 55	22 6	1 32	7 59	1 4	20 41	1 21	16 19	0 45	6 8	1 55	30 58	13 3	23 40	23 38	23 31		n.a.
T 14	17 30	21 25	2 54	11 19	1 11	3 34	1 4	21 55	1 30	8 3	1 4	20 40	1 21	16 19	0 45	6 8	1 55	30 57	13 3	23 40	23 38	23 32		n.a.
W15	17 47	18 11	3 51	11 56	1 4	3 34	1 14	21 45	1 29	8 8	1 4	20 40	1 21	16 19	0 45	6 9	1 55	30 57	13 2	23 40	23 38	23 32		n.a.
T 16	18 4	14 1	4 33	12 32	0 57	3 36	1 23	21 34	1 28	8 13	1 4	20 39	1 21	16 19	0 45	6 10	1 55	30 57	13 2	23 40	23 38	23 33		n.a.
F 17	18 20	9 15	5 0	13 9	0 49	3 38	1 32	21 23	1 27	8 18	1 4	20 38	1 21	16 18	0 45	6 11	1 55	30 56	13 2	23 41	23 38	23 34		n.a.
S 18	18 36	4 10	5 10	13 45	0 42	3 42	1 40	21 12	1 26	8 22	1 4	20 38	1 21	16 18	0 45	6 11	1 55	30 56	13 2	23 41	23 38	23 35		n.a.
S 19	18 52	1 s 2	5 4	14 21	0 35	3 47	1 48	21 0	1 25	8 27	1 4	20 37	1 21	16 18	0 45	6 12	1 55	30 55	13 1	23 41	23 39	23 35		n.a.
M20	19 7	6 6	4 43	14 56	0 28	3 52	1 56	20 49	1 23	8 31	1 4	20 36	1 21	16 17	0 45	6 13	1 55	30 55	13 1	23 41	23 39	23 36		n.a.
T 21	19 22	10 51	4 10	15 31	0 21	3 59	2 3	20 37	1 22	8 36	1 4	20 36	1 20	16 17	0 45	6 13	1 55	30 54	13 1	23 41	23 39	23 37		n.a.
W22	19 37	15 7	3 24	16 6	0 14	4 6	2 10	20 25	1 21	8 40	1 4	20 35	1 20	16 17	0 45	6 14	1 55	30 54	13 1	23 41	23 39	23 37		n.a.
T 23	19 51	18 42	2 31	16 39	0 7	4 14	2 16	20 13	1 20	8 45	1 4	20 34	1 20	16 16	0 45	6 15	1 55	30 54	13 0	23 41	23 39	23 38		n.a.
F 24	20 5	21 27	1 30	17 13	0 s 0	4 23	2 23	20 1	1 19	8 49	1 4	20 33	1 20	16 16	0 45	6 16	1 55	30 53	13 0	23 41	23 39	23 39		n.a.
S 25	20 18	23 15	0 27	17 45	0 7	4 32	2 29	19 49	1 18	8 54	1 4	20 33	1 20	16 15	0 45	6 16	1 55	30 53	13 0	23 41	23 39	23 39		n.a.
S 26	20 31	24 0	0 s38	18 17	0 14	4 42	2 34	19 36	1 17	8 58	1 4	20 32	1 20	16 15	0 45	6 17	1 55	30 52	13 0	23 41	23 39	23 40		n.a.
M27	20 44	23 41	1 41	18 48	0 20	4 53	2 40	19 23	1 15	9 3	1 4	20 31	1 20	16 15	0 45	6 17	1 55	30 52	12 59	23 41	23 39	23 41		n.a.
T 28	20 56	22 18	2 40	19 18	0 27	5 5	2 45	19 10	1 14	9 7	1 4	20 31	1 20	16 14	0 45	6 18	1 55	30 51	12 59	23 41	23 39	23 41		n.a.
W29	21 8	19 55	3 32	19 47	0 33	5 17	2 49	18 57	1 13	9 11	1 4	20 30	1 20	16 14	0 45	6 19	1 55	30 51	12 59	23 41	23 40	23 42		n.a.
T 30	21 s20	16 s38	4 s16	20 s16	0 s40	5 s30	2n54	18 s44	1 s12	9 s16	1n 4	20n29	1 s20	16 s13	0 s45	6 s19	1n55	30 s50	12 s59	23n41	23n40	23 s43		n.a.

Julian Day Number = 1656712.5, Delta T = 03h28m00s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'50, Lahiri = - 6°23'50 Julian Calendar 1 Nov. 178 BCE == Greg. Calendar 29 Oct. 178 BCE

The year -177 astronomical counting style corresponds to year 178 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 178 BCE
geocentric

DECEMBER 178 BCE (-177) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	4 23 1	5♐45'36	9♓29	28♏11	21♎29	12♒ 3	26♎28	7°R19	18♒21	20♎33	8♒26	2°R40	3♋46	4♑49	n.a.	F 1
S 2	4 26 58	6°46'52	22°15	29°45	22°15	12°47	26°40	7♊14	18°23	20°34	8°27	2♋39	3°43	4°56	n.a.	S 2
S 3	4 30 54	7°48'07	5♈27	1♐19	23° 3	13°30	26°51	7° 9	18°24	20°36	8°28	2°37	3°40	5° 2	n.a.	S 3
M 4	4 34 51	8°49'22	19° 6	2°53	23°51	14°14	27° 3	7° 4	18°26	20°38	8°29	2°34	3°37	5° 9	n.a.	M 4
T 5	4 38 47	9°50'36	3♉13	4°28	24°41	14°57	27°14	6°59	18°28	20°39	8°30	2°31	3°34	5°16	n.a.	T 5
W 6	4 42 44	10°51'50	17°46	6° 3	25°31	15°41	27°26	6°54	18°30	20°41	8°31	2°27	3°31	5°22	n.a.	W 6
T 7	4 46 41	11°53'04	2♊40	7°39	26°22	16°24	27°37	6°49	18°31	20°42	8°32	2°25	3°27	5°29	n.a.	T 7
F 8	4 50 37	12°54'18	17°46	9°15	27°13	17° 8	27°48	6°44	18°33	20°44	8°33	2°23	3°24	5°36	n.a.	F 8
S 9	4 54 34	13°55'31	2♋55	10°51	28° 6	17°51	28° 0	6°39	18°35	20°46	8°34	2°D23	3°21	5°42	n.a.	S 9
S 10	4 58 30	14°56'45	17°58	12°28	28°59	18°35	28°11	6°34	18°37	20°47	8°35	2°23	3°18	5°49	n.a.	S 10
M11	5 2 27	15°57'58	2♌47	14° 5	29°53	19°18	28°22	6°29	18°39	20°49	8°36	2°24	3°15	5°55	n.a.	M11
T 12	5 6 23	16°59'11	17°15	15°43	0♏48	20° 2	28°33	6°24	18°41	20°50	8°37	2°25	3°11	6° 2	n.a.	T 12
W13	5 10 20	18° 0'23	1♍21	17°21	1°43	20°45	28°44	6°19	18°43	20°52	8°38	2°27	3° 8	6° 9	n.a.	W13
T 14	5 14 17	19° 1'36	15° 3	19° 0	2°38	21°29	28°54	6°15	18°45	20°53	8°40	2°R27	3° 5	6°15	n.a.	T 14
F 15	5 18 13	20° 2'48	28°22	20°39	3°35	22°12	29° 5	6°10	18°47	20°54	8°41	2°27	3° 2	6°22	n.a.	F 15
S 16	5 22 10	21° 4'00	11♎21	22°18	4°32	22°55	29°16	6° 5	18°49	20°56	8°42	2°26	2°59	6°29	n.a.	S 16
S 17	5 26 6	22° 5'11	24° 1	23°58	5°29	23°39	29°26	6° 0	18°51	20°57	8°43	2°25	2°56	6°35	n.a.	S 17
M18	5 30 3	23° 6'22	6♏26	25°39	6°27	24°22	29°36	5°56	18°54	20°58	8°44	2°24	2°52	6°42	n.a.	M18
T 19	5 33 59	24° 7'33	18°39	27°20	7°26	25° 5	29°47	5°51	18°56	21° 0	8°46	2°22	2°49	6°49	n.a.	T 19
W20	5 37 56	25° 8'43	0♐42	29° 1	8°25	25°49	29°57	5°46	18°58	21° 1	8°47	2°21	2°46	6°55	n.a.	W20
T 21	5 41 52	26° 9'53	12°39	0♑43	9°24	26°32	0♏ 7	5°42	19° 1	21° 2	8°48	2°21	2°43	7° 2	n.a.	T 21
F 22	5 45 49	27°11'02	24°29	2°26	10°24	27°15	0°17	5°37	19° 3	21° 3	8°49	2°20	2°40	7° 9	n.a.	F 22
S 23	5 49 46	28°12'10	6♑17	4° 8	11°24	27°59	0°27	5°33	19° 5	21° 4	8°51	2°D20	2°37	7°15	n.a.	S 23
S 24	5 53 42	29°13'17	18° 4	5°52	12°25	28°42	0°37	5°29	19° 8	21° 5	8°52	2°20	2°33	7°22	n.a.	S 24
M25	5 57 39	0♑14'23	29°53	7°35	13°26	29°25	0°46	5°24	19°10	21° 6	8°53	2°21	2°30	7°28	n.a.	M25
T 26	6 1 35	1°15'28	11♒45	9°19	14°27	0♓ 8	0°56	5°20	19°13	21° 8	8°55	2°21	2°27	7°35	n.a.	T 26
W27	6 5 32	2°16'32	23°44	11° 4	15°29	0°52	1° 5	5°16	19°15	21° 9	8°56	2°R21	2°24	7°42	n.a.	W27
T 28	6 9 28	3°17'35	5♓54	12°48	16°31	1°35	1°15	5°12	19°18	21°10	8°57	2°21	2°21	7°48	n.a.	T 28
F 29	6 13 25	4°18'36	18°18	14°32	17°34	2°18	1°24	5° 8	19°21	21°11	8°59	2°21	2°17	7°55	n.a.	F 29
S 30	6 17 21	5°19'36	1♈ 0	16°16	18°37	3° 1	1°33	5° 4	19°23	21°11	9° 0	2°D21	2°14	8° 2	n.a.	S 30
S 31	6 21 18	6♑20'34	14♈ 3	18♑ 0	19♏40	3♓44	1♏42	5♊ 0	19♒26	21♎12	9♒ 2	2♋21	2♋11	8♑ 8	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21s31	12s34	4s50	20s44	0s46	5s43	2n58	18s31	1s11	9s20	1n 4	20n28	1s20	16s13	0s45	6s20	1n55	30s50	12s58	23n41	23n40	23s43		n.a.
S 2	21 42	7 50	5 10	21 10	0 52	5 57	3 2	18 17	1 10	9 24	1 4	20 28	1 20	16 12	0 45	6 21	1 56	30 49	12 58	23 41	23 40	23 44		n.a.
S 3	21 52	2 37	5 15	21 36	0 58	6 12	3 5	18 4	1 9	9 28	1 4	20 27	1 19	16 12	0 45	6 21	1 56	30 49	12 58	23 41	23 40	23 45		n.a.
M 4	22 2	2n55	5 2	22 1	1 3	6 26	3 9	17 50	1 8	9 32	1 4	20 26	1 19	16 11	0 45	6 22	1 56	30 48	12 58	23 41	23 40	23 45		n.a.
T 5	22 11	8 29	4 31	22 24	1 9	6 42	3 12	17 36	1 7	9 36	1 5	20 25	1 19	16 10	0 45	6 22	1 56	30 48	12 57	23 42	23 40	23 46		n.a.
W 6	22 20	13 46	3 42	22 47	1 14	6 57	3 15	17 22	1 5	9 41	1 5	20 25	1 19	16 10	0 45	6 23	1 56	30 47	12 57	23 42	23 40	23 46		n.a.
T 7	22 28	18 22	2 37	23 8	1 19	7 14	3 17	17 7	1 4	9 45	1 5	20 24	1 19	16 9	0 45	6 23	1 56	30 47	12 57	23 42	23 40	23 47		n.a.
F 8	22 37	21 49	1 20	23 29	1 24	7 30	3 20	16 53	1 3	9 49	1 5	20 23	1 19	16 9	0 45	6 24	1 56	30 46	12 57	23 42	23 40	23 48		n.a.
S 9	22 44	23 44	0n 3	23 48	1 29	7 47	3 22	16 39	1 2	9 53	1 5	20 23	1 19	16 8	0 44	6 25	1 56	30 46	12 56	23 42	23 40	23 48		n.a.
S 10	22 51	23 54	1 25	24 6	1 33	8 4	3 24	16 24	1 1	9 56	1 5	20 22	1 19	16 7	0 44	6 25	1 56	30 45	12 56	23 42	23 40	23 49		n.a.
M11	22 58	22 22	2 41	24 22	1 37	8 22	3 25	16 9	1 0	10 0	1 5	20 21	1 19	16 7	0 44	6 26	1 56	30 45	12 56	23 42	23 41	23 49		n.a.
T 12	23 4	19 23	3 44	24 37	1 41	8 39	3 27	15 54	0 59	10 4	1 5	20 20	1 18	16 6	0 44	6 26	1 56	30 44	12 56	23 42	23 41	23 50		n.a.
W13	23 10	15 20	4 32	24 51	1 45	8 57	3 28	15 39	0 58	10 8	1 5	20 20	1 18	16 6	0 44	6 27	1 56	30 44	12 56	23 42	23 41	23 51		n.a.
T 14	23 15	10 36	5 3	25 3	1 48	9 15	3 29	15 24	0 57	10 12	1 5	20 19	1 18	16 5	0 44	6 27	1 56	30 43	12 55	23 42	23 41	23 51		n.a.
F 15	23 20	5 29	5 16	25 14	1 51	9 34	3 30	15 9	0 56	10 16	1 5	20 18	1 18	16 4	0 44	6 28	1 56	30 43	12 55	23 42	23 41	23 52		n.a.
S 16	23 25	0 16	5 13	25 23	1 54	9 52	3 31	14 54	0 55	10 19	1 5	20 18	1 18	16 3	0 44	6 28	1 56	30 42	12 55	23 42	23 41	23 52		n.a.
S 17	23 29	4s51	4 55	25 31	1 57	10 11	3 31	14 38	0 54	10 23	1 5	20 17	1 18	16 3	0 44	6 28	1 56	30 42	12 55	23 42	23 41	23 53		n.a.
M18	23 32	9 41	4 23	25 37	1 59	10 30	3 32	14 23	0 53	10 27	1 5	20 16	1 18	16 2	0 44	6 29	1 56	30 41	12 55	23 42	23 41	23 53		n.a.
T 19	23 35	14 3	3 40	25 42	2 0	10 49	3 32	14 7	0 52	10 30	1 6	20 16	1 17	16 1	0 44	6 29	1 56	30 41	12 54	23 42	23 41	23 54		n.a.
W20	23 38	17 49	2 47	25 45	2 2	11 8	3 32	13 51	0 50	10 34	1 6	20 15	1 17	16 0	0 44	6 30	1 56	30 40	12 54	23 42	23 41	23 54		n.a.
T 21	23 40	20 48	1 47	25 46	2 3	11 27	3 31	13 35	0 49	10 37	1 6	20 14	1 17	16 0	0 44	6 30	1 57	30 40	12 54	23 42	23 41	23 55		n.a.
F 22	23 41	22 53	0 44	25 45	2 3	11 46	3 31	13 19	0 48	10 41	1 6	20 14	1 17	15 59	0 44	6 30	1 57	30 39	12 54	23 42	23 41	23 55		n.a.
S 23	23 42	23 56	0s22	25 42	2 3	12 6	3 31	13 3	0 47	10 44	1 6	20 13	1 17	15 58	0 44	6 31	1 57	30 39	12 54	23 42	23 41	23 56		n.a.
S 24	23 43	23 54	1 26	25 38	2 3	12 25	3 30	12 47	0 46	10 47	1 6	20 13	1 17	15 57	0 44	6 31	1 57	30 38	12 53	23 42	23 41	23 56		n.a.
M25	23 43	22 49	2 27	25 31	2 2	12 44	3 29	12 31	0 45	10 51	1 6	20 12	1 16	15 57	0 44	6 32	1 57	30 37	12 53	23 42	23 42	23 57		n.a.
T 26	23 43	20 42	3 22	25 23	2 0	13 3	3 28	12 15	0 44	10 54	1 6	20 11	1 16	15 56	0 44	6 32	1 57	30 37	12 53	23 42	23 42	23 57		n.a.
W27	23 42	17 40	4 9	25 13	1 58	13 22	3 27	11 58	0 43	10 57	1 6	20 11	1 16	15 55	0 44	6 32	1 57	30 36	12 53	23 42	23 42	23 58		n.a.
T 28	23 40	13 51	4 45	25 1	1 56	13 41	3 26	11 42	0 42	11 0	1 6	20 10	1 16	15 54	0 44	6 33	1 57	30 36	12 53	23 42	23 42	23 58		n.a.
F 29	23 39	9 24	5 9	24 47	1 52	14 0	3 24	11 25	0 41	11 3	1 7	20 10	1 16	15 53	0 44	6 33	1 57	30 35	12 53	23 42	23 42	23 59		n.a.
S 30	23 36	4 27	5 18	24 30	1 49	14 19	3 23	11 9	0 40	11 7	1 7	20 9	1 16	15 52	0 44	6 33	1 57	30 35	12 53	23 42	23 42	23 59		n.a.
S 31	23s34	0n49	5s12	24s12	1s44	14s38	3n21	10s52	0s39	11s10	1n 7	20n 9	1s15	15s51	0s44	6s33	1n57	30s34	12s52	23n42	23n42	24s 0		n.a.

Julian Day Number = 1656742.5, Delta T = 03h27m59s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'46, Lahiri = - 6°23'46 Julian Calendar 1 Dec. 178 BCE == Greg. Calendar 28 Nov. 178 BCE

The year -177 astronomical counting style corresponds to year 178 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 177 BCE
geocentric

JANUARY 177 BCE (-176) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 25 15	7♉21'32	27♈31	19♉44	20♏43	4♓27	1♏51	4°R56	19♒29	21♎13	9♒ 3	2♋21	2♋ 8	8♉15	n.a.	M 1
T 2	6 29 11	8°22'27	11♉26	21°27	21°47	5°10	2° 0	4♊52	19°31	21°14	9° 4	2°21	2° 5	8°22	n.a.	T 2
W 3	6 33 8	9°23'22	25°47	23° 9	22°51	5°53	2° 8	4°49	19°34	21°15	9° 6	2°22	2° 2	8°28	n.a.	W 3
T 4	6 37 4	10°24'14	10♊32	24°49	23°55	6°36	2°17	4°45	19°37	21°16	9° 7	2°23	1°58	8°35	n.a.	T 4
F 5	6 41 1	11°25'06	25°35	26°28	25° 0	7°19	2°25	4°42	19°40	21°16	9° 9	2°R23	1°55	8°42	n.a.	F 5
S 6	6 44 57	12°25'56	10♋48	28° 5	26° 5	8° 2	2°34	4°38	19°43	21°17	9°10	2°23	1°52	8°48	n.a.	S 6
S 7	6 48 54	13°26'45	26° 3	29°40	27°10	8°45	2°42	4°35	19°46	21°18	9°12	2°22	1°49	8°55	n.a.	S 7
M 8	6 52 51	14°27'32	11♌ 8	1♒11	28°15	9°28	2°50	4°32	19°49	21°18	9°13	2°21	1°46	9° 2	n.a.	M 8
T 9	6 56 47	15°28'18	25°55	2°39	29°21	10°11	2°58	4°29	19°52	21°19	9°15	2°20	1°43	9° 8	n.a.	T 9
W10	7 0 44	16°29'03	10♍18	4° 2	0♐26	10°53	3° 5	4°25	19°55	21°19	9°16	2°18	1°39	9°15	n.a.	W10
T 11	7 4 40	17°29'47	24°13	5°21	1°32	11°36	3°13	4°23	19°58	21°20	9°18	2°16	1°36	9°21	n.a.	T 11
F 12	7 8 37	18°30'29	7♎41	6°34	2°39	12°19	3°20	4°20	20° 1	21°21	9°19	2°15	1°33	9°28	n.a.	F 12
S 13	7 12 33	19°31'10	20°42	7°41	3°45	13° 2	3°28	4°17	20° 4	21°21	9°21	2°D15	1°30	9°35	n.a.	S 13
S 14	7 16 30	20°31'50	3♏20	8°40	4°52	13°44	3°35	4°14	20° 7	21°21	9°22	2°15	1°27	9°41	n.a.	S 14
M15	7 20 26	21°32'29	15°40	9°32	5°58	14°27	3°42	4°12	20°10	21°22	9°24	2°17	1°23	9°48	n.a.	M15
T 16	7 24 23	22°33'06	27°45	10°16	7° 5	15°10	3°49	4° 9	20°13	21°22	9°26	2°18	1°20	9°55	n.a.	T 16
W17	7 28 20	23°33'42	9♐41	10°50	8°12	15°52	3°56	4° 7	20°16	21°23	9°27	2°20	1°17	10° 1	n.a.	W17
T 18	7 32 16	24°34'16	21°30	11°15	9°20	16°35	4° 2	4° 5	20°19	21°23	9°29	2°21	1°14	10° 8	n.a.	T 18
F 19	7 36 13	25°34'49	3♉16	11°29	10°27	17°17	4° 9	4° 2	20°22	21°23	9°30	2°R22	1°11	10°15	n.a.	F 19
S 20	7 40 9	26°35'21	15° 3	11°R34	11°35	18° 0	4°15	4° 0	20°26	21°23	9°32	2°21	1° 8	10°21	n.a.	S 20
S 21	7 44 6	27°35'50	26°53	11°28	12°43	18°42	4°21	3°58	20°29	21°23	9°34	2°19	1° 4	10°28	n.a.	S 21
M22	7 48 2	28°36'18	8♒47	11°12	13°51	19°25	4°27	3°56	20°32	21°24	9°35	2°15	1° 1	10°35	n.a.	M22
T 23	7 51 59	29°36'44	20°48	10°46	14°59	20° 7	4°33	3°55	20°35	21°24	9°37	2°11	0°58	10°41	n.a.	T 23
W24	7 55 55	0♒37'08	2♓57	10°11	16° 7	20°50	4°39	3°53	20°39	21°24	9°38	2° 6	0°55	10°48	n.a.	W24
T 25	7 59 52	1°37'31	15°16	9°29	17°15	21°32	4°44	3°52	20°42	21°24	9°40	2° 1	0°52	10°55	n.a.	T 25
F 26	8 3 49	2°37'51	27°48	8°39	18°24	22°14	4°50	3°50	20°45	21°R24	9°42	1°56	0°49	11° 1	n.a.	F 26
S 27	8 7 45	3°38'09	10♈33	7°43	19°32	22°56	4°55	3°49	20°49	21°24	9°43	1°53	0°45	11° 8	n.a.	S 27
S 28	8 11 42	4°38'25	23°35	6°43	20°41	23°39	5° 0	3°48	20°52	21°24	9°45	1°51	0°42	11°15	n.a.	S 28
M29	8 15 38	5°38'38	6♉56	5°40	21°50	24°21	5° 5	3°47	20°55	21°24	9°47	1°D50	0°39	11°21	n.a.	M29
T 30	8 19 35	6°38'50	20°39	4°36	22°58	25° 3	5° 9	3°46	20°59	21°24	9°48	1°51	0°36	11°28	n.a.	T 30
W31	8 23 31	7♒38'59	4♊43	3♒33	24♐ 7	25♓45	5♏14	3♊45	21♒ 2	21♎24	9♒50	1♋52	0♋33	11♉34	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	23s31	6n14	4s48	23s53	1s39	14s56	3n19	10s35	0s38	11s13	1n 7	20n 8	1s15	15s51	0s44	6s34	1n57	30s34	12s52	23n42	23n42	24s 0			n.a.
T 2	23 27	11 31	4 7	23 31	1 33	15 15	3 17	10 18	0 37	11 16	1 7	20 8	1 15	15 50	0 44	6 34	1 57	30 33	12 52	23 42	23 42	24 1			n.a.
W 3	23 23	16 21	3 10	23 7	1 26	15 33	3 15	10 1	0 36	11 18	1 7	20 7	1 15	15 49	0 44	6 34	1 57	30 33	12 52	23 42	23 42	24 1			n.a.
T 4	23 18	20 20	1 59	22 42	1 19	15 51	3 13	9 44	0 36	11 21	1 7	20 7	1 15	15 48	0 44	6 34	1 57	30 32	12 52	23 42	23 42	24 2			n.a.
F 5	23 13	23 1	0 38	22 15	1 10	16 9	3 11	9 27	0 35	11 24	1 7	20 6	1 14	15 47	0 44	6 35	1 57	30 32	12 52	23 42	23 42	24 2			n.a.
S 6	23 8	24 3	0n47	21 47	1 1	16 27	3 9	9 10	0 34	11 27	1 7	20 6	1 14	15 46	0 44	6 35	1 58	30 31	12 52	23 42	23 42	24 3			n.a.
S 7	23 2	23 16	2 8	21 17	0 51	16 44	3 6	8 53	0 33	11 30	1 8	20 5	1 14	15 45	0 44	6 35	1 58	30 31	12 52	23 42	23 42	24 3			n.a.
M 8	22 55	20 49	3 19	20 47	0 40	17 1	3 4	8 36	0 32	11 32	1 8	20 5	1 14	15 44	0 44	6 35	1 58	30 30	12 52	23 42	23 42	24 3			n.a.
T 9	22 48	17 1	4 15	20 15	0 28	17 18	3 1	8 19	0 31	11 35	1 8	20 4	1 14	15 43	0 44	6 35	1 58	30 29	12 51	23 42	23 42	24 4			n.a.
W10	22 41	12 19	4 54	19 44	0 16	17 34	2 58	8 2	0 30	11 37	1 8	20 4	1 13	15 42	0 44	6 36	1 58	30 29	12 51	23 42	23 42	24 4			n.a.
T 11	22 33	7 7	5 14	19 12	0 3	17 51	2 55	7 44	0 29	11 40	1 8	20 4	1 13	15 41	0 44	6 36	1 58	30 28	12 51	23 42	23 42	24 5			n.a.
F 12	22 25	1 45	5 16	18 40	0n12	18 7	2 53	7 27	0 28	11 42	1 8	20 3	1 13	15 40	0 44	6 36	1 58	30 28	12 51	23 42	23 42	24 5			n.a.
S 13	22 17	3s32	5 1	18 8	0 26	18 22	2 50	7 10	0 27	11 45	1 8	20 3	1 13	15 39	0 44	6 36	1 58	30 27	12 51	23 42	23 42	24 5			n.a.
S 14	22 8	8 31	4 32	17 38	0 42	18 37	2 47	6 52	0 26	11 47	1 8	20 3	1 13	15 38	0 44	6 36	1 58	30 27	12 51	23 42	23 43	24 6			n.a.
M15	21 58	13 3	3 51	17 9	0 58	18 52	2 43	6 35	0 25	11 49	1 9	20 3	1 12	15 37	0 44	6 36	1 58	30 26	12 51	23 42	23 43	24 6			n.a.
T 16	21 48	16 58	3 0	16 41	1 14	19 7	2 40	6 17	0 24	11 52	1 9	20 2	1 12	15 36	0 44	6 36	1 58	30 26	12 51	23 42	23 43	24 6			n.a.
W17	21 38	20 9	2 2	16 16	1 31	19 21	2 37	6 0	0 23	11 54	1 9	20 2	1 12	15 35	0 44	6 36	1 58	30 25	12 51	23 42	23 43	24 7			n.a.
T 18	21 27	22 27	1 0	15 53	1 48	19 34	2 34	5 42	0 23	11 56	1 9	20 2	1 12	15 34	0 44	6 36	1 58	30 25	12 51	23 42	23 43	24 7			n.a.
F 19	21 16	23 46	0s 5	15 33	2 4	19 48	2 30	5 25	0 22	11 58	1 9	20 2	1 12	15 33	0 44	6 36	1 58	30 24	12 51	23 42	23 43	24 8			n.a.
S 20	21 5	24 0	1 9	15 16	2 20	20 0	2 27	5 7	0 21	12 0	1 9	20 1	1 11	15 32	0 43	6 36	1 58	30 24	12 51	23 42	23 43	24 8			n.a.
S 21	20 53	23 10	2 11	15 3	2 36	20 13	2 23	4 49	0 20	12 2	1 9	20 1	1 11	15 31	0 43	6 36	1 59	30 23	12 51	23 42	23 43	24 8			n.a.
M22	20 41	21 17	3 7	14 53	2 51	20 25	2 20	4 32	0 19	12 4	1 9	20 1	1 11	15 30	0 43	6 36	1 59	30 23	12 51	23 42	23 43	24 9			n.a.
T 23	20 28	18 26	3 55	14 47	3 4	20 36	2 16	4 14	0 18	12 6	1 10	20 1	1 11	15 29	0 43	6 36	1 59	30 22	12 51	23 42	23 43	24 9			n.a.
W24	20 15	14 47	4 34	14 44	3 17	20 47	2 13	3 57	0 17	12 7	1 10	20 1	1 11	15 28	0 43	6 36	1 59	30 22	12 51	23 42	23 43	24 9			n.a.
T 25	20 2	10 28	5 0	14 45	3 27	20 57	2 9	3 39	0 16	12 9	1 10	20 1	1 10	15 27	0 43	6 36	1 59	30 21	12 51	23 42	23 43	24 10			n.a.
F 26	19 48	5 39	5 12	14 50	3 36	21 7	2 5	3 21	0 16	12 11	1 10	20 1	1 10	15 26	0 43	6 36	1 59	30 21	12 51	23 42	23 43	24 10			n.a.
S 27	19 34	0 31	5 9	14 57	3 43	21 17	2 2	3 4	0 15	12 12	1 10	20 1	1 10	15 25	0 43	6 36	1 59	30 20	12 51	23 42	23 43	24 10			n.a.
S 28	19 19	4n46	4 51	15 8	3 48	21 26	1 58	2 46	0 14	12 14	1 10	20 1	1 10	15 23	0 43	6 36	1 59	30 20	12 51	23 42	23 43	24 10			n.a.
M29	19 5	9 57	4 16	15 21	3 51	21 34	1 54	2 28	0 13	12 16	1 10	20 1	1 10	15 22	0 43	6 36	1 59	30 20	12 51	23 42	23 43	24 11			n.a.
T 30	18 50	14 48	3 26	15 36	3 51	21 42	1 50	2 11	0 12	12 17	1 11	20 1	1 9	15 21	0 43	6 36	1 59	30 19	12 51	23 42	23 43	24 11			n.a.
W31	18s34	18n59	2s23	15s52	3n49	21s49	1n46	1s53	0s11	12s18	1n11	20n 1	1s 9	15s20	0s43	6s36	1n59	30s19	12s51	23n42	23n43	24s11			n.a.

Julian Day Number = 1656773.5, Delta T = 03h27m58s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'42, Lahiri = - 6°23'41 Julian Calendar 1 Jan. 177 BCE == Greg. Calendar 29 Dec. 178 BCE

The year -176 astronomical counting style corresponds to year 177 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 177 BCE
geocentric

FEBRUARY 177 BCE (-176) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 27 28	8♒39'06	19♊ 9	2°R31	25♐17	26♓27	5♏18	3°R44	21♒ 5	21°R23	9♒52	1♋54	0♋29	11♑41	n.a.	T 1
F 2	8 31 24	9°39'12	3♋54	1♒33	26°26	27° 9	5°23	3♊43	21° 9	21♎23	9°53	1°R54	0°26	11°48	n.a.	F 2
S 3	8 35 21	10°39'14	18°54	0°38	27°35	27°51	5°27	3°43	21°12	21°23	9°55	1°53	0°23	11°54	n.a.	S 3
S 4	8 39 18	11°39'15	4♌ 0	29♑49	28°44	28°33	5°30	3°42	21°15	21°23	9°56	1°50	0°20	12° 1	n.a.	S 4
M 5	8 43 14	12°39'14	19° 3	29° 6	29°54	29°15	5°34	3°42	21°19	21°22	9°58	1°45	0°17	12° 8	n.a.	M 5
T 6	8 47 11	13°39'10	3♍54	28°29	1♑ 3	29°57	5°38	3°42	21°22	21°22	10° 0	1°39	0°14	12°14	n.a.	T 6
W 7	8 51 7	14°39'05	18°25	27°58	2°13	0♈39	5°41	3°D42	21°26	21°22	10° 1	1°32	0°10	12°21	n.a.	W 7
T 8	8 55 4	15°38'58	2♎30	27°34	3°23	1°21	5°44	3°42	21°29	21°21	10° 3	1°25	0° 7	12°28	n.a.	T 8
F 9	8 59 0	16°38'49	16° 7	27°17	4°33	2° 3	5°47	3°42	21°32	21°21	10° 5	1°20	0° 4	12°34	n.a.	F 9
S 10	9 2 57	17°38'38	29°15	27° 6	5°43	2°45	5°50	3°42	21°36	21°20	10° 6	1°16	0° 1	12°41	n.a.	S 10
S 11	9 6 53	18°38'25	11♏58	27°D 2	6°53	3°26	5°52	3°43	21°39	21°20	10° 8	1°14	29♊58	12°48	n.a.	S 11
M12	9 10 50	19°38'11	24°19	27° 4	8° 3	4° 8	5°55	3°43	21°43	21°19	10° 9	1°D14	29°54	12°54	n.a.	M12
T 13	9 14 46	20°37'54	6♐24	27°11	9°13	4°50	5°57	3°44	21°46	21°19	10°11	1°15	29°51	13° 1	n.a.	T 13
W14	9 18 43	21°37'36	18°18	27°25	10°23	5°31	5°59	3°45	21°50	21°18	10°13	1°16	29°48	13° 8	n.a.	W14
T 15	9 22 40	22°37'16	0♑ 5	27°44	11°34	6°13	6° 1	3°45	21°53	21°17	10°14	1°R17	29°45	13°14	n.a.	T 15
F 16	9 26 36	23°36'55	11°51	28° 8	12°44	6°55	6° 3	3°46	21°57	21°17	10°16	1°17	29°42	13°21	n.a.	F 16
S 17	9 30 33	24°36'31	23°39	28°36	13°54	7°36	6° 4	3°47	22° 0	21°16	10°18	1°14	29°39	13°27	n.a.	S 17
S 18	9 34 29	25°36'05	5♒34	29°10	15° 5	8°18	6° 6	3°49	22° 3	21°15	10°19	1° 9	29°35	13°34	n.a.	S 18
M19	9 38 26	26°35'37	17°36	29°47	16°15	8°59	6° 7	3°50	22° 7	21°15	10°21	1° 1	29°32	13°41	n.a.	M19
T 20	9 42 22	27°35'07	29°49	0♒28	17°26	9°41	6° 8	3°51	22°10	21°14	10°22	0°51	29°29	13°47	n.a.	T 20
W21	9 46 19	28°34'35	12♓13	1°13	18°37	10°22	6° 9	3°53	22°14	21°13	10°24	0°41	29°26	13°54	n.a.	W21
T 22	9 50 15	29°34'01	24°49	2° 2	19°47	11° 3	6° 9	3°54	22°17	21°12	10°25	0°30	29°23	14° 1	n.a.	T 22
F 23	9 54 12	0♓33'24	7♈36	2°54	20°58	11°45	6°10	3°56	22°20	21°11	10°27	0°20	29°20	14° 7	n.a.	F 23
S 24	9 58 9	1°32'45	20°35	3°49	22° 9	12°26	6°10	3°58	22°24	21°11	10°29	0°11	29°16	14°14	n.a.	S 24
S 25	10 2 5	2°32'04	3♉47	4°46	23°20	13° 7	6°R10	4° 0	22°27	21°10	10°30	0° 5	29°13	14°21	n.a.	S 25
M26	10 6 2	3°31'20	17°12	5°47	24°31	13°49	6°10	4° 2	22°31	21° 9	10°32	0° 2	29°10	14°27	n.a.	M26
T 27	10 9 58	4°30'34	0♊52	6°50	25°42	14°30	6° 9	4° 4	22°34	21° 8	10°33	0°D 1	29° 7	14°34	n.a.	T 27
W28	10 13 55	5°29'45	14°46	7°56	26°53	15°11	6° 9	4° 6	22°37	21° 7	10°35	0° 1	29° 4	14°41	n.a.	W28
T 29	10 17 51	6♓28'54	28♊56	9♒ 4	28♑ 4	15♈52	6♏ 8	4♊ 9	22♒41	21♎ 6	10♒36	0°R 1	29♊ 0	14♑47	n.a.	T 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s18	22n 7	1s 9	16s10	3n45	21s56	1n42	1s35	0s11	12s20	1n11	20n 1	1s 9	15s19	0s43	6s36	1n59	30s18	12s51	23n42	23n43	24s12		n.a.
F 2	18 2	23 50	0n11	16 29	3 39	22 2	1 38	1 18	0 10	12 21	1 11	20 1	1 9	15 18	0 43	6 36	1 59	30 18	12 51	23 42	23 43	24 12		n.a.
S 3	17 46	23 52	1 31	16 48	3 32	22 7	1 35	1 0	0 9	12 22	1 11	20 1	1 8	15 17	0 43	6 35	1 59	30 17	12 51	23 42	23 43	24 12		n.a.
S 4	17 29	22 10	2 46	17 7	3 23	22 12	1 31	0 42	0 8	12 23	1 11	20 1	1 8	15 16	0 43	6 35	1 59	30 17	12 51	23 42	23 43	24 12		n.a.
M 5	17 12	18 54	3 48	17 26	3 13	22 16	1 27	0 25	0 7	12 24	1 11	20 1	1 8	15 15	0 43	6 35	2 0	30 16	12 51	23 42	23 43	24 13		n.a.
T 6	16 55	14 26	4 34	17 45	3 1	22 20	1 23	0 7	0 7	12 25	1 12	20 2	1 8	15 14	0 43	6 35	2 0	30 16	12 51	23 42	23 43	24 13		n.a.
W 7	16 38	9 15	5 2	18 3	2 49	22 23	1 19	0n10	0 6	12 26	1 12	20 2	1 8	15 12	0 43	6 35	2 0	30 16	12 51	23 42	23 43	24 13		n.a.
T 8	16 20	3 43	5 9	18 20	2 36	22 26	1 15	0 28	0 5	12 27	1 12	20 2	1 7	15 11	0 43	6 34	2 0	30 15	12 51	23 43	23 43	24 13		n.a.
F 9	16 2	1s49	4 59	18 36	2 23	22 27	1 11	0 46	0 4	12 28	1 12	20 2	1 7	15 10	0 43	6 34	2 0	30 15	12 51	23 43	23 43	24 14		n.a.
S 10	15 43	7 4	4 34	18 52	2 10	22 29	1 7	1 3	0 4	12 29	1 12	20 3	1 7	15 9	0 43	6 34	2 0	30 14	12 51	23 43	23 43	24 14		n.a.
S 11	15 25	11 53	3 55	19 6	1 56	22 29	1 3	1 20	0 3	12 30	1 12	20 3	1 7	15 8	0 43	6 34	2 0	30 14	12 51	23 43	23 43	24 14		n.a.
M12	15 6	16 4	3 6	19 19	1 42	22 29	0 59	1 38	0 2	12 30	1 13	20 3	1 6	15 7	0 43	6 33	2 0	30 13	12 51	23 43	23 43	24 14		n.a.
T 13	14 47	19 29	2 10	19 31	1 29	22 29	0 55	1 55	0 1	12 31	1 13	20 3	1 6	15 6	0 43	6 33	2 0	30 13	12 51	23 43	23 43	24 14		n.a.
W14	14 28	22 2	1 10	19 42	1 15	22 27	0 51	2 13	0 0	12 32	1 13	20 4	1 6	15 5	0 43	6 33	2 0	30 13	12 51	23 43	23 43	24 15		n.a.
T 15	14 8	23 36	0 7	19 51	1 2	22 25	0 47	2 30	0n 0	12 32	1 13	20 4	1 6	15 3	0 43	6 33	2 0	30 12	12 52	23 43	23 43	24 15		n.a.
F 16	13 48	24 7	0s57	19 59	0 49	22 23	0 43	2 47	0 1	12 33	1 13	20 5	1 6	15 2	0 43	6 32	2 0	30 12	12 52	23 43	23 43	24 15		n.a.
S 17	13 28	23 33	1 57	20 6	0 36	22 20	0 40	3 5	0 2	12 33	1 13	20 5	1 5	15 1	0 43	6 32	2 0	30 12	12 52	23 43	23 43	24 15		n.a.
S 18	13 8	21 54	2 53	20 11	0 23	22 16	0 36	3 22	0 2	12 33	1 13	20 5	1 5	15 0	0 43	6 32	2 0	30 11	12 52	23 43	23 43	24 15		n.a.
M19	12 48	19 15	3 42	20 15	0 11	22 11	0 32	3 39	0 3	12 33	1 14	20 6	1 5	14 59	0 43	6 31	2 0	30 11	12 52	23 43	23 43	24 15		n.a.
T 20	12 27	15 44	4 21	20 18	0s 1	22 6	0 28	3 56	0 4	12 34	1 14	20 6	1 5	14 58	0 43	6 31	2 0	30 11	12 52	23 43	23 43	24 16		n.a.
W21	12 6	11 30	4 49	20 19	0 12	22 0	0 24	4 13	0 5	12 34	1 14	20 7	1 4	14 57	0 43	6 31	2 1	30 10	12 52	23 43	23 43	24 16		n.a.
T 22	11 45	6 42	5 3	20 18	0 23	21 54	0 21	4 30	0 5	12 34	1 14	20 7	1 4	14 56	0 43	6 30	2 1	30 10	12 52	23 43	23 43	24 16		n.a.
F 23	11 24	1 34	5 2	20 17	0 33	21 47	0 17	4 47	0 6	12 34	1 14	20 8	1 4	14 54	0 43	6 30	2 1	30 10	12 53	23 43	23 43	24 16		n.a.
S 24	11 3	3n44	4 45	20 13	0 43	21 39	0 13	5 4	0 7	12 34	1 14	20 8	1 4	14 53	0 43	6 30	2 1	30 9	12 53	23 43	23 43	24 16		n.a.
S 25	10 41	8 57	4 14	20 9	0 53	21 31	0 9	5 21	0 7	12 34	1 14	20 9	1 4	14 52	0 43	6 29	2 1	30 9	12 53	23 43	23 43	24 16		n.a.
M26	10 20	13 51	3 28	20 2	1 2	21 22	0 6	5 38	0 8	12 33	1 15	20 10	1 3	14 51	0 43	6 29	2 1	30 9	12 53	23 43	23 43	24 16		n.a.
T 27	9 58	18 8	2 29	19 55	1 10	21 13	0 2	5 55	0 9	12 33	1 15	20 10	1 3	14 50	0 43	6 28	2 1	30 8	12 53	23 43	23 43	24 17		n.a.
W28	9 36	21 30	1 20	19 46	1 19	21 3	0s 1	6 12	0 10	12 33	1 15	20 11	1 3	14 49	0 43	6 28	2 1	30 8	12 53	23 43	23 43	24 17		n.a.
T 29	9s14	23n37	0s 6	19s35	1s26	20s52	0s 5	6n28	0n10	12s32	1n15	20n12	1s 3	14s48	0s43	6s27	2n 1	30s 8	12s53	23n43	23n43	24s17		n.a.

Julian Day Number = 1656804.5, Delta T = 03h27m57s
Ecliptic obliquity = 23°43'00, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'38, Lahiri = - 6°23'37 Julian Calendar 1 Feb. 177 BCE == Greg. Calendar 29 Jan. 177 BCE

The year -176 astronomical counting style corresponds to year 177 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 177 BCE
geocentric

MARCH 177 BCE (-176) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 21 48	7♓28'01	13♋20	10♒14	29♉15	16♈33	6°R 7	4♊11	22♒44	21°R 5	10♒38	0°R 0	28♊57	14♉54	n.a.	F 1
S 2	10 25 44	8°27'05	27°57	11°27	0♒26	17°14	6♏ 6	4°14	22°48	21♎ 4	10°39	29♊58	28°54	15° 1	n.a.	S 2
S 3	10 29 41	9°26'07	12♌40	12°41	1°37	17°55	6° 5	4°16	22°51	21° 2	10°41	29°52	28°51	15° 7	n.a.	S 3
M 4	10 33 38	10°25'07	27°25	13°58	2°48	18°36	6° 3	4°19	22°54	21° 1	10°42	29°45	28°48	15°14	n.a.	M 4
T 5	10 37 34	11°24'04	12♍ 2	15°16	3°59	19°17	6° 1	4°22	22°57	21° 0	10°44	29°34	28°45	15°21	n.a.	T 5
W 6	10 41 31	12°22'59	26°25	16°37	5°11	19°58	6° 0	4°25	23° 1	20°59	10°45	29°23	28°41	15°27	n.a.	W 6
T 7	10 45 27	13°21'52	10♎27	17°59	6°22	20°39	5°58	4°28	23° 4	20°58	10°46	29°12	28°38	15°34	n.a.	T 7
F 8	10 49 24	14°20'43	24° 4	19°23	7°33	21°20	5°55	4°31	23° 7	20°57	10°48	29° 3	28°35	15°40	n.a.	F 8
S 9	10 53 20	15°19'32	7♏15	20°49	8°45	22° 0	5°53	4°34	23°11	20°55	10°49	28°55	28°32	15°47	n.a.	S 9
S 10	10 57 17	16°18'19	20° 2	22°16	9°56	22°41	5°50	4°38	23°14	20°54	10°51	28°50	28°29	15°54	n.a.	S 10
M11	11 1 13	17°17'05	2♐26	23°45	11° 8	23°22	5°48	4°41	23°17	20°53	10°52	28°47	28°26	16° 0	n.a.	M11
T 12	11 5 10	18°15'49	14°33	25°16	12°19	24° 3	5°45	4°45	23°20	20°52	10°53	28°D47	28°22	16° 7	n.a.	T 12
W13	11 9 6	19°14'31	26°28	26°49	13°31	24°43	5°42	4°48	23°23	20°50	10°55	28°R47	28°19	16°14	n.a.	W13
T 14	11 13 3	20°13'11	8♑17	28°23	14°42	25°24	5°38	4°52	23°27	20°49	10°56	28°46	28°16	16°20	n.a.	T 14
F 15	11 17 0	21°11'49	20° 4	29°58	15°54	26° 4	5°35	4°56	23°30	20°48	10°57	28°45	28°13	16°27	n.a.	F 15
S 16	11 20 56	22°10'26	1♒55	1♓36	17° 5	26°45	5°31	5° 0	23°33	20°46	10°59	28°41	28°10	16°34	n.a.	S 16
S 17	11 24 53	23° 9'00	13°55	3°15	18°17	27°26	5°27	5° 4	23°36	20°45	11° 0	28°35	28° 6	16°40	n.a.	S 17
M18	11 28 49	24° 7'33	26° 6	4°55	19°29	28° 6	5°23	5° 8	23°39	20°44	11° 1	28°25	28° 3	16°47	n.a.	M18
T 19	11 32 46	25° 6'04	8♓31	6°38	20°41	28°47	5°19	5°12	23°42	20°42	11° 2	28°14	28° 0	16°54	n.a.	T 19
W20	11 36 42	26° 4'33	21°11	8°22	21°52	29°27	5°15	5°17	23°45	20°41	11° 4	28° 1	27°57	17° 0	n.a.	W20
T 21	11 40 39	27° 3'00	4♈ 6	10° 7	23° 4	0♉ 7	5°10	5°21	23°48	20°39	11° 5	27°48	27°54	17° 7	n.a.	T 21
F 22	11 44 35	28° 1'25	17°14	11°54	24°16	0°48	5° 6	5°25	23°51	20°38	11° 6	27°35	27°51	17°14	n.a.	F 22
S 23	11 48 32	28°59'48	0♉35	13°43	25°28	1°28	5° 1	5°30	23°54	20°36	11° 7	27°25	27°47	17°20	n.a.	S 23
S 24	11 52 28	29°58'09	14° 6	15°33	26°39	2° 8	4°56	5°35	23°57	20°35	11° 8	27°17	27°44	17°27	n.a.	S 24
M25	11 56 25	0♈56'28	27°47	17°26	27°51	2°49	4°51	5°39	24° 0	20°33	11°10	27°12	27°41	17°34	n.a.	M25
T 26	12 0 22	1°54'44	11♊36	19°19	29° 3	3°29	4°46	5°44	24° 3	20°32	11°11	27°10	27°38	17°40	n.a.	T 26
W27	12 4 18	2°52'59	25°33	21°15	0♓15	4° 9	4°41	5°49	24° 6	20°30	11°12	27°10	27°35	17°47	n.a.	W27
T 28	12 8 15	3°51'12	9♋37	23°12	1°27	4°49	4°35	5°54	24° 8	20°29	11°13	27°10	27°31	17°54	n.a.	T 28
F 29	12 12 11	4°49'22	23°48	25°10	2°39	5°29	4°29	5°59	24°11	20°27	11°14	27° 9	27°28	18° 0	n.a.	F 29
S 30	12 16 8	5°47'30	8♌ 5	27°11	3°51	6°10	4°24	6° 4	24°14	20°26	11°15	27° 6	27°25	18° 7	n.a.	S 30
S 31	12 20 4	6♈45'36	22♌24	29♓12	5♓ 3	6♉50	4♏18	6♊ 9	24♒17	20♎24	11♒16	27♊ 1	27♊22	18♉14	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	8s52	24n12	1n10	19s23	1s34	20s41	0s 8	6n45	0n11	12s32	1n15	20n12	1s 3	14s47	0s43	6s27	2n 1	30s 7	12s54	23n43	23n43	24s17		n.a.
S 2	8 30	23 9	2 23	19 9	1 40	20 29	0 12	7 1	0 12	12 32	1 15	20 13	1 2	14 46	0 43	6 27	2 1	30 7	12 54	23 43	23 43	24 17		n.a.
S 3	8 7	20 29	3 26	18 54	1 47	20 16	0 15	7 18	0 12	12 31	1 15	20 14	1 2	14 45	0 43	6 26	2 1	30 7	12 54	23 43	23 43	24 17		n.a.
M 4	7 45	16 30	4 16	18 37	1 52	20 3	0 18	7 34	0 13	12 30	1 16	20 14	1 2	14 43	0 43	6 26	2 1	30 7	12 54	23 43	23 43	24 17		n.a.
T 5	7 22	11 33	4 48	18 19	1 58	19 50	0 22	7 50	0 14	12 30	1 16	20 15	1 2	14 42	0 43	6 25	2 1	30 6	12 54	23 43	23 43	24 17		n.a.
W 6	7 0	6 2	5 2	17 59	2 3	19 36	0 25	8 7	0 14	12 29	1 16	20 16	1 2	14 41	0 43	6 25	2 1	30 6	12 55	23 43	23 43	24 17		n.a.
T 7	6 37	0 21	4 56	17 38	2 7	19 21	0 28	8 23	0 15	12 28	1 16	20 17	1 1	14 40	0 43	6 24	2 1	30 6	12 55	23 43	23 43	24 17		n.a.
F 8	6 14	5s12	4 34	17 15	2 11	19 6	0 31	8 39	0 15	12 27	1 16	20 17	1 1	14 39	0 44	6 24	2 1	30 6	12 55	23 43	23 43	24 17		n.a.
S 9	5 51	10 21	3 58	16 50	2 14	18 50	0 34	8 55	0 16	12 26	1 16	20 18	1 1	14 38	0 44	6 23	2 1	30 5	12 55	23 43	23 43	24 17		n.a.
S 10	5 28	14 54	3 10	16 24	2 17	18 33	0 37	9 11	0 17	12 25	1 16	20 19	1 1	14 37	0 44	6 23	2 1	30 5	12 55	23 43	23 42	24 17		n.a.
M11	5 5	18 41	2 15	15 57	2 19	18 17	0 40	9 27	0 17	12 24	1 16	20 20	1 1	14 36	0 44	6 22	2 1	30 5	12 56	23 43	23 42	24 17		n.a.
T 12	4 42	21 34	1 15	15 28	2 21	17 59	0 43	9 43	0 18	12 23	1 16	20 21	1 0	14 35	0 44	6 22	2 1	30 5	12 56	23 43	23 42	24 17		n.a.
W13	4 18	23 28	0 12	14 57	2 23	17 41	0 46	9 58	0 19	12 22	1 17	20 21	1 0	14 34	0 44	6 21	2 2	30 5	12 56	23 43	23 42	24 18		n.a.
T 14	3 55	24 17	0s50	14 25	2 24	17 23	0 48	10 14	0 19	12 21	1 17	20 22	1 0	14 33	0 44	6 21	2 2	30 4	12 56	23 43	23 42	24 18		n.a.
F 15	3 32	24 1	1 50	13 51	2 24	17 4	0 51	10 29	0 20	12 20	1 17	20 23	1 0	14 32	0 44	6 20	2 2	30 4	12 57	23 43	23 42	24 18		n.a.
S 16	3 8	22 39	2 46	13 16	2 24	16 45	0 54	10 45	0 20	12 18	1 17	20 24	1 0	14 31	0 44	6 20	2 2	30 4	12 57	23 43	23 42	24 18		n.a.
S 17	2 45	20 16	3 35	12 39	2 23	16 25	0 56	11 0	0 21	12 17	1 17	20 25	0 59	14 30	0 44	6 19	2 2	30 4	12 57	23 43	23 42	24 18		n.a.
M18	2 22	16 57	4 14	12 1	2 22	16 5	0 59	11 15	0 22	12 16	1 17	20 26	0 59	14 29	0 44	6 18	2 2	30 4	12 57	23 42	23 42	24 18		n.a.
T 19	1 58	12 50	4 43	11 21	2 20	15 44	1 1	11 31	0 22	12 14	1 17	20 27	0 59	14 28	0 44	6 18	2 2	30 4	12 57	23 42	23 42	24 17		n.a.
W20	1 35	8 5	4 58	10 40	2 18	15 23	1 3	11 46	0 23	12 13	1 17	20 28	0 59	14 27	0 44	6 17	2 2	30 4	12 58	23 42	23 42	24 17		n.a.
T 21	1 11	2 55	4 58	9 57	2 15	15 1	1 6	12 1	0 23	12 11	1 17	20 29	0 59	14 26	0 44	6 17	2 2	30 3	12 58	23 42	23 42	24 17		n.a.
F 22	0 48	2n30	4 43	9 12	2 12	14 39	1 8	12 15	0 24	12 9	1 17	20 30	0 58	14 25	0 44	6 16	2 2	30 3	12 58	23 42	23 42	24 17		n.a.
S 23	0 24	7 53	4 12	8 27	2 8	14 17	1 10	12 30	0 24	12 8	1 18	20 31	0 58	14 24	0 44	6 16	2 2	30 3	12 59	23 41	23 42	24 17		n.a.
S 24	0 1	12 58	3 26	7 39	2 4	13 54	1 12	12 45	0 25	12 6	1 18	20 32	0 58	14 23	0 44	6 15	2 2	30 3	12 59	23 41	23 42	24 17		n.a.
M25	0n23	17 29	2 29	6 51	1 59	13 31	1 14	12 59	0 26	12 4	1 18	20 33	0 58	14 22	0 44	6 14	2 2	30 3	12 59	23 41	23 42	24 17		n.a.
T 26	0 46	21 6	1 21	6 1	1 54	13 7	1 16	13 14	0 26	12 2	1 18	20 34	0 58	14 21	0 44	6 14	2 2	30 3	12 59	23 41	23 42	24 17		n.a.
W27	1 10	23 30	0 9	5 9	1 48	12 43	1 18	13 28	0 27	12 1	1 18	20 35	0 58	14 20	0 44	6 13	2 2	30 3	13 0	23 41	23 42	24 17		n.a.
T 28	1 33	24 27	1n 5	4 17	1 41	12 19	1 20	13 42	0 27	11 59	1 18	20 36	0 57	14 19	0 44	6 13	2 2	30 3	13 0	23 41	23 42	24 17		n.a.
F 29	1 56	23 49	2 16	3 23	1 34	11 55	1 21	13 56	0 28	11 57	1 18	20 37	0 57	14 18	0 44	6 12	2 2	30 3	13 0	23 41	23 42	24 17		n.a.
S 30	2 20	21 39	3 18	2 27	1 27	11 30	1 23	14 10	0 28	11 55	1 18	20 38	0 57	14 17	0 44	6 11	2 2	30 3	13 0	23 41	23 41	24 17		n.a.
S 31	2n43	18n 7	4n 8	1s31	1s19	11s 5	1s25	14n24	0n29	11s53	1n18	20n39	0s57	14s16	0s44	6s11	2n 2	30s 3	13s 1	23n41	23n41	24s17		n.a.

Julian Day Number = 1656833.5, Delta T = 03h27m56s
Ecliptic obliquity = 23°43'00, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'34, Lahiri = - 6°23'33 Julian Calendar 1 March 177 BCE == Greg. Calendar 27 Feb. 177 BCE

The year -176 astronomical counting style corresponds to year 177 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 177 BCE
geocentric

APRIL 177 BCE (-176) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 24 1	7♈43'40	6♍42	1♈16	6♓15	7♉30	4°R12	6♊14	24♒19	20°R23	11♒17	26°R52	27♊19	18♋20	n.a.	M 1
T 2	12 27 57	8°41'42	20°55	3°20	7°27	8°10	4♏ 6	6°20	24°22	20♎21	11°18	26♊42	27°16	18°27	n.a.	T 2
W 3	12 31 54	9°39'42	4♎56	5°26	8°39	8°50	3°59	6°25	24°25	20°19	11°19	26°31	27°12	18°33	n.a.	W 3
T 4	12 35 51	10°37'40	18°41	7°33	9°51	9°30	3°53	6°31	24°27	20°18	11°20	26°19	27° 9	18°40	n.a.	T 4
F 5	12 39 47	11°35'37	2♏ 7	9°42	11° 3	10° 9	3°47	6°36	24°30	20°16	11°21	26° 9	27° 6	18°47	n.a.	F 5
S 6	12 43 44	12°33'32	15°11	11°51	12°15	10°49	3°40	6°42	24°33	20°15	11°22	26° 1	27° 3	18°53	n.a.	S 6
S 7	12 47 40	13°31'26	27°54	14° 0	13°27	11°29	3°33	6°47	24°35	20°13	11°23	25°55	27° 0	19° 0	n.a.	S 7
M 8	12 51 37	14°29'18	10♐17	16°10	14°39	12° 9	3°27	6°53	24°38	20°11	11°24	25°52	26°57	19° 7	n.a.	M 8
T 9	12 55 33	15°27'09	22°25	18°21	15°52	12°49	3°20	6°59	24°40	20°10	11°25	25°D51	26°53	19°13	n.a.	T 9
W10	12 59 30	16°24'58	4♑22	20°31	17° 4	13°29	3°13	7° 5	24°43	20° 8	11°26	25°51	26°50	19°20	n.a.	W10
T 11	13 3 26	17°22'46	16°12	22°40	18°16	14° 8	3° 6	7°11	24°45	20° 7	11°26	25°R51	26°47	19°27	n.a.	T 11
F 12	13 7 23	18°20'33	28° 1	24°50	19°28	14°48	2°59	7°17	24°47	20° 5	11°27	25°51	26°44	19°33	n.a.	F 12
S 13	13 11 20	19°18'19	9♒55	26°58	20°40	15°28	2°52	7°23	24°50	20° 3	11°28	25°49	26°41	19°40	n.a.	S 13
S 14	13 15 16	20°16'03	21°58	29° 5	21°53	16° 7	2°44	7°29	24°52	20° 2	11°29	25°44	26°37	19°47	n.a.	S 14
M15	13 19 13	21°13'46	4♓15	1♉10	23° 5	16°47	2°37	7°35	24°54	20° 0	11°29	25°38	26°34	19°53	n.a.	M15
T 16	13 23 9	22°11'28	16°49	3°14	24°17	17°27	2°30	7°42	24°56	19°58	11°30	25°29	26°31	20° 0	n.a.	T 16
W17	13 27 6	23° 9'09	29°41	5°16	25°30	18° 6	2°22	7°48	24°59	19°57	11°31	25°19	26°28	20° 7	n.a.	W17
T 18	13 31 2	24° 6'48	12♈52	7°15	26°42	18°46	2°15	7°54	25° 1	19°55	11°31	25° 8	26°25	20°13	n.a.	T 18
F 19	13 34 59	25° 4'26	26°21	9°13	27°54	19°25	2° 7	8° 1	25° 3	19°54	11°32	24°59	26°22	20°20	n.a.	F 19
S 20	13 38 55	26° 2'02	10♉ 6	11° 7	29° 7	20° 5	2° 0	8° 7	25° 5	19°52	11°33	24°50	26°18	20°27	n.a.	S 20
S 21	13 42 52	26°59'38	24° 2	12°59	0♈19	20°44	1°52	8°14	25° 7	19°50	11°33	24°45	26°15	20°33	n.a.	S 21
M22	13 46 49	27°57'11	8♊ 6	14°49	1°31	21°24	1°45	8°20	25° 9	19°49	11°34	24°41	26°12	20°40	n.a.	M22
T 23	13 50 45	28°54'44	22°15	16°35	2°44	22° 3	1°37	8°27	25°11	19°47	11°34	24°D40	26° 9	20°47	n.a.	T 23
W24	13 54 42	29°52'15	6♋27	18°19	3°56	22°43	1°29	8°34	25°13	19°45	11°35	24°40	26° 6	20°53	n.a.	W24
T 25	13 58 38	0♉49'44	20°38	20° 0	5° 9	23°22	1°22	8°40	25°15	19°44	11°36	24°41	26° 3	21° 0	n.a.	T 25
F 26	14 2 35	1°47'12	4♌47	21°37	6°21	24° 1	1°14	8°47	25°16	19°42	11°36	24°R41	25°59	21° 7	n.a.	F 26
S 27	14 6 31	2°44'39	18°53	23°12	7°34	24°41	1° 6	8°54	25°18	19°41	11°36	24°40	25°56	21°13	n.a.	S 27
S 28	14 10 28	3°42'04	2♍55	24°43	8°46	25°20	0°59	9° 1	25°20	19°39	11°37	24°37	25°53	21°20	n.a.	S 28
M29	14 14 24	4°39'28	16°50	26°12	9°59	25°59	0°51	9° 8	25°22	19°38	11°37	24°32	25°50	21°27	n.a.	M29
T 30	14 18 21	5♉36'50	0♎36	27♉37	11♈11	26♉38	0♏44	9♊15	25♒23	19♎36	11♒38	24♊25	25♊47	21♋33	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	3n 6	13n31	4n43	0s34	1s10	10s39	1s26	14n38	0n29	11s51	1n18	20n40	0s57	14s15	0s44	6s10	2n 2	30s 3	13s 1	23n41	23n41	24s17		n.a.
T 2	3 29	8 13	5 0	0n24	1 2	10 13	1 27	14 52	0 30	11 48	1 18	20 41	0 56	14 15	0 44	6 10	2 2	30 3	13 1	23 41	23 41	24 17		n.a.
W 3	3 52	2 34	4 58	1 23	0 52	9 47	1 29	15 5	0 30	11 46	1 18	20 42	0 56	14 14	0 44	6 9	2 2	30 3	13 2	23 40	23 41	24 16		n.a.
T 4	4 15	3s 7	4 39	2 23	0 43	9 21	1 30	15 19	0 31	11 44	1 18	20 44	0 56	14 13	0 44	6 8	2 2	30 3	13 2	23 40	23 41	24 16		n.a.
F 5	4 38	8 31	4 5	3 23	0 33	8 54	1 31	15 32	0 32	11 42	1 18	20 45	0 56	14 12	0 44	6 8	2 2	30 3	13 2	23 40	23 41	24 16		n.a.
S 6	5 1	13 25	3 18	4 23	0 23	8 28	1 32	15 45	0 32	11 40	1 18	20 46	0 56	14 11	0 44	6 7	2 2	30 3	13 3	23 39	23 41	24 16		n.a.
S 7	5 24	17 36	2 23	5 24	0 12	8 1	1 33	15 58	0 33	11 37	1 18	20 47	0 56	14 10	0 44	6 6	2 2	30 3	13 3	23 39	23 41	24 16		n.a.
M 8	5 47	20 54	1 22	6 24	0 2	7 33	1 34	16 11	0 33	11 35	1 18	20 48	0 55	14 9	0 44	6 6	2 2	30 3	13 3	23 39	23 41	24 16		n.a.
T 9	6 9	23 12	0 18	7 25	0n 9	7 6	1 35	16 24	0 34	11 33	1 18	20 49	0 55	14 9	0 44	6 5	2 2	30 3	13 3	23 39	23 41	24 16		n.a.
W10	6 32	24 24	0s45	8 24	0 20	6 38	1 36	16 36	0 34	11 30	1 18	20 50	0 55	14 8	0 44	6 5	2 2	30 3	13 4	23 39	23 41	24 15		n.a.
T 11	6 54	24 29	1 46	9 23	0 30	6 10	1 37	16 49	0 35	11 28	1 18	20 51	0 55	14 7	0 44	6 4	2 2	30 3	13 4	23 39	23 41	24 15		n.a.
F 12	7 16	23 27	2 43	10 21	0 41	5 42	1 37	17 1	0 35	11 26	1 18	20 53	0 55	14 6	0 44	6 3	2 2	30 3	13 4	23 39	23 41	24 15		n.a.
S 13	7 38	21 22	3 32	11 18	0 51	5 14	1 38	17 14	0 36	11 23	1 18	20 54	0 55	14 6	0 44	6 3	2 2	30 3	13 5	23 39	23 40	24 15		n.a.
S 14	8 1	18 20	4 13	12 13	1 1	4 45	1 38	17 26	0 36	11 21	1 18	20 55	0 55	14 5	0 44	6 2	2 2	30 3	13 5	23 39	23 40	24 15		n.a.
M15	8 22	14 27	4 43	13 7	1 11	4 17	1 39	17 38	0 36	11 18	1 18	20 56	0 54	14 4	0 44	6 2	2 2	30 3	13 5	23 39	23 40	24 15		n.a.
T 16	8 44	9 52	5 0	13 59	1 20	3 48	1 39	17 49	0 37	11 16	1 18	20 57	0 54	14 3	0 44	6 1	2 2	30 3	13 6	23 38	23 40	24 14		n.a.
W17	9 6	4 45	5 3	14 49	1 29	3 20	1 39	18 1	0 37	11 13	1 18	20 58	0 54	14 3	0 44	6 0	2 2	30 3	13 6	23 38	23 40	24 14		n.a.
T 18	9 27	0n42	4 50	15 37	1 37	2 51	1 39	18 13	0 38	11 11	1 18	21 0	0 54	14 2	0 44	6 0	2 2	30 4	13 6	23 38	23 40	24 14		n.a.
F 19	9 49	6 15	4 20	16 23	1 44	2 22	1 39	18 24	0 38	11 8	1 18	21 1	0 54	14 1	0 45	5 59	2 2	30 4	13 7	23 37	23 40	24 14		n.a.
S 20	10 10	11 37	3 35	17 6	1 51	1 53	1 39	18 35	0 39	11 5	1 18	21 2	0 54	14 1	0 45	5 58	2 2	30 4	13 7	23 37	23 40	24 13		n.a.
S 21	10 31	16 28	2 36	17 47	1 58	1 23	1 39	18 47	0 39	11 3	1 18	21 3	0 53	14 0	0 45	5 58	2 2	30 4	13 7	23 37	23 40	24 13		n.a.
M22	10 52	20 28	1 28	18 26	2 3	0 54	1 39	18 57	0 40	11 0	1 18	21 4	0 53	13 59	0 45	5 57	2 2	30 4	13 8	23 37	23 40	24 13		n.a.
T 23	11 13	23 16	0 13	19 2	2 8	0 25	1 39	19 8	0 40	10 58	1 18	21 6	0 53	13 59	0 45	5 57	2 2	30 4	13 8	23 36	23 40	24 13		n.a.
W24	11 33	24 36	1n 3	19 36	2 13	0n 4	1 39	19 19	0 41	10 55	1 17	21 7	0 53	13 58	0 45	5 56	2 2	30 5	13 9	23 36	23 40	24 13		n.a.
T 25	11 54	24 20	2 15	20 8	2 16	0 34	1 39	19 29	0 41	10 53	1 17	21 8	0 53	13 57	0 45	5 55	2 2	30 5	13 9	23 37	23 39	24 12		n.a.
F 26	12 14	22 30	3 18	20 37	2 19	1 3	1 38	19 40	0 41	10 50	1 17	21 9	0 53	13 57	0 45	5 55	2 2	30 5	13 9	23 37	23 39	24 12		n.a.
S 27	12 34	19 17	4 10	21 3	2 21	1 32	1 38	19 50	0 42	10 47	1 17	21 10	0 53	13 56	0 45	5 54	2 2	30 5	13 10	23 36	23 39	24 12		n.a.
S 28	12 54	14 59	4 46	21 28	2 22	2 2	1 37	20 0	0 42	10 45	1 17	21 12	0 52	13 56	0 45	5 54	2 2	30 5	13 10	23 36	23 39	24 11		n.a.
M29	13 13	9 55	5 4	21 50	2 22	2 31	1 37	20 10	0 43	10 42	1 17	21 13	0 52	13 55	0 45	5 53	2 2	30 5	13 10	23 36	23 39	24 11		n.a.
T 30	13n33	4n25	5n 5	22n 9	2n22	3n 0	1s36	20n20	0n43	10s40	1n17	21n14	0s52	13s55	0s45	5s53	2n 2	30s 6	13s11	23n36	23n39	24s11		n.a.

Julian Day Number = 1656864.5, Delta T = 03h27m55s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'29, Lahiri = - 6°23'29 Julian Calendar 1 Apr. 177 BCE == Greg. Calendar 29 March 177 BCE

The year -176 astronomical counting style corresponds to year 177 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 177 BCE
geocentric

MAY 177 BCE (-176) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 22 18	6♉34'11	14♎11	28♉59	12♈24	27♉18	0°R36	9♊22	25♒25	19°R35	11♒38	24°R17	25♊43	21♑40	n.a.	W 1
T 2	14 26 14	7°31'31	27°32	0♊18	13°36	27°57	0♏28	9°29	25°26	19♎33	11°38	24♊10	25°40	21°47	n.a.	T 2
F 3	14 30 11	8°28'50	10♏38	1°33	14°49	28°36	0°21	9°36	25°28	19°31	11°39	24° 3	25°37	21°53	n.a.	F 3
S 4	14 34 7	9°26'08	23°27	2°45	16° 1	29°15	0°13	9°43	25°29	19°30	11°39	23°57	25°34	22° 0	n.a.	S 4
S 5	14 38 4	10°23'25	5♐59	3°54	17°14	29°54	0° 6	9°50	25°31	19°28	11°39	23°54	25°31	22° 7	n.a.	S 5
M 6	14 42 0	11°20'42	18°16	4°59	18°27	0♊33	29♎59	9°57	25°32	19°27	11°40	23°D52	25°28	22°13	n.a.	M 6
T 7	14 45 57	12°17'58	0♑21	6° 1	19°39	1°12	29°51	10° 5	25°34	19°25	11°40	23°52	25°24	22°20	n.a.	T 7
W 8	14 49 53	13°15'13	12°16	6°59	20°52	1°51	29°44	10°12	25°35	19°24	11°40	23°53	25°21	22°27	n.a.	W 8
T 9	14 53 50	14°12'28	24° 6	7°54	22° 5	2°30	29°37	10°19	25°36	19°23	11°40	23°55	25°18	22°33	n.a.	T 9
F 10	14 57 47	15° 9'42	5♒56	8°44	23°17	3° 9	29°30	10°26	25°37	19°21	11°40	23°56	25°15	22°40	n.a.	F 10
S 11	15 1 43	16° 6'56	17°51	9°31	24°30	3°48	29°23	10°34	25°38	19°20	11°40	23°R56	25°12	22°46	n.a.	S 11
S 12	15 5 40	17° 4'09	29°55	10°14	25°43	4°27	29°16	10°41	25°40	19°18	11°41	23°56	25° 8	22°53	n.a.	S 12
M13	15 9 36	18° 1'22	12♓14	10°53	26°55	5° 6	29° 9	10°49	25°41	19°17	11°41	23°53	25° 5	23° 0	n.a.	M13
T 14	15 13 33	18°58'34	24°51	11°28	28° 8	5°45	29° 2	10°56	25°42	19°16	11°41	23°49	25° 2	23° 6	n.a.	T 14
W15	15 17 29	19°55'46	7♈49	11°59	29°21	6°24	28°55	11° 4	25°43	19°14	11°41	23°45	24°59	23°13	n.a.	W15
T 16	15 21 26	20°52'58	21°10	12°25	0♉34	7° 3	28°48	11°11	25°44	19°13	11°R41	23°39	24°56	23°20	n.a.	T 16
F 17	15 25 22	21°50'09	4♉53	12°47	1°47	7°42	28°42	11°19	25°44	19°12	11°41	23°35	24°53	23°26	n.a.	F 17
S 18	15 29 19	22°47'20	18°56	13° 5	2°59	8°21	28°35	11°26	25°45	19°10	11°41	23°31	24°49	23°33	n.a.	S 18
S 19	15 33 16	23°44'31	3♊15	13°18	4°12	9° 0	28°29	11°34	25°46	19° 9	11°41	23°28	24°46	23°40	n.a.	S 19
M20	15 37 12	24°41'41	17°45	13°26	5°25	9°39	28°23	11°41	25°47	19° 8	11°40	23°D27	24°43	23°46	n.a.	M20
T 21	15 41 9	25°38'51	2♋19	13°R30	6°38	10°17	28°17	11°49	25°48	19° 7	11°40	23°27	24°40	23°53	n.a.	T 21
W22	15 45 5	26°36'00	16°53	13°30	7°51	10°56	28°11	11°57	25°48	19° 5	11°40	23°28	24°37	24° 0	n.a.	W22
T 23	15 49 2	27°33'08	1♌21	13°25	9° 4	11°35	28° 5	12° 4	25°49	19° 4	11°40	23°29	24°34	24° 6	n.a.	T 23
F 24	15 52 58	28°30'16	15°39	13°15	10°17	12°14	27°59	12°12	25°49	19° 3	11°40	23°30	24°30	24°13	n.a.	F 24
S 25	15 56 55	29°27'23	29°46	13° 1	11°30	12°52	27°54	12°20	25°50	19° 2	11°40	23°R31	24°27	24°20	n.a.	S 25
S 26	16 0 51	0♊24'30	13♍40	12°43	12°43	13°31	27°48	12°28	25°50	19° 1	11°39	23°30	24°24	24°26	n.a.	S 26
M27	16 4 48	1°21'36	27°21	12°22	13°56	14°10	27°43	12°35	25°51	19° 0	11°39	23°29	24°21	24°33	n.a.	M27
T 28	16 8 45	2°18'42	10♎46	11°56	15° 9	14°49	27°38	12°43	25°51	18°59	11°39	23°26	24°18	24°40	n.a.	T 28
W29	16 12 41	3°15'47	23°58	11°28	16°22	15°27	27°33	12°51	25°51	18°57	11°39	23°23	24°14	24°46	n.a.	W29
T 30	16 16 38	4°12'53	6♏56	10°57	17°35	16° 6	27°28	12°59	25°52	18°56	11°38	23°21	24°11	24°53	n.a.	T 30
F 31	16 20 34	5♊ 9'58	19♏39	10♊24	18♉48	16♊44	27♎23	13♊ 6	25♒52	18♎55	11♒38	23♊18	24♊ 8	25♑ 0	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	13n52	1s13	4n49	22n27	2n21	3n30	1s35	20n29	0n44	10s37	1n17	21n15	0s52	13s54	0s45	5s52	2n 2	30s 6	13s11	23n36	23n39	24s11			n.a.
T 2	14 11	6 43	4 17	22 42	2 18	3 59	1 34	20 39	0 44	10 35	1 17	21 16	0 52	13 54	0 45	5 51	2 2	30 6	13 11	23 35	23 39	24 10			n.a.
F 3	14 30	11 50	3 32	22 55	2 16	4 28	1 33	20 48	0 44	10 32	1 16	21 18	0 52	13 53	0 45	5 51	2 2	30 6	13 12	23 35	23 39	24 10			n.a.
S 4	14 48	16 19	2 37	23 6	2 12	4 57	1 32	20 57	0 45	10 30	1 16	21 19	0 52	13 53	0 45	5 50	2 2	30 7	13 12	23 35	23 38	24 10			n.a.
S 5	15 6	19 59	1 35	23 16	2 7	5 26	1 31	21 6	0 45	10 27	1 16	21 20	0 52	13 52	0 45	5 50	2 2	30 7	13 12	23 34	23 38	24 9			n.a.
M 6	15 25	22 41	0 30	23 23	2 2	5 55	1 30	21 15	0 46	10 25	1 16	21 21	0 51	13 52	0 45	5 49	2 2	30 7	13 13	23 34	23 38	24 9			n.a.
T 7	15 42	24 18	0s35	23 28	1 56	6 24	1 29	21 23	0 46	10 22	1 16	21 22	0 51	13 51	0 45	5 49	2 2	30 7	13 13	23 34	23 38	24 9			n.a.
W 8	16 0	24 47	1 38	23 31	1 49	6 53	1 28	21 32	0 46	10 20	1 16	21 24	0 51	13 51	0 45	5 48	2 2	30 8	13 13	23 34	23 38	24 8			n.a.
T 9	16 17	24 7	2 37	23 33	1 42	7 21	1 27	21 40	0 47	10 17	1 16	21 25	0 51	13 51	0 45	5 48	2 2	30 8	13 14	23 34	23 38	24 8			n.a.
F 10	16 34	22 23	3 29	23 33	1 33	7 50	1 26	21 48	0 47	10 15	1 15	21 26	0 51	13 50	0 45	5 47	2 2	30 8	13 14	23 35	23 38	24 8			n.a.
S 11	16 51	19 39	4 12	23 31	1 24	8 18	1 24	21 56	0 48	10 13	1 15	21 27	0 51	13 50	0 45	5 47	2 2	30 9	13 15	23 35	23 38	24 7			n.a.
S 12	17 8	16 4	4 45	23 28	1 14	8 46	1 23	22 4	0 48	10 10	1 15	21 28	0 51	13 49	0 45	5 46	2 2	30 9	13 15	23 35	23 38	24 7			n.a.
M13	17 24	11 44	5 5	23 23	1 3	9 14	1 21	22 11	0 48	10 8	1 15	21 30	0 51	13 49	0 45	5 46	2 2	30 9	13 15	23 34	23 37	24 7			n.a.
T 14	17 40	6 50	5 12	23 16	0 52	9 42	1 20	22 19	0 49	10 6	1 15	21 31	0 50	13 49	0 45	5 45	2 2	30 10	13 16	23 34	23 37	24 6			n.a.
W15	17 56	1 29	5 2	23 8	0 39	10 9	1 18	22 26	0 49	10 3	1 14	21 32	0 50	13 49	0 45	5 45	2 2	30 10	13 16	23 34	23 37	24 6			n.a.
T 16	18 11	4n 5	4 37	22 59	0 26	10 36	1 17	22 33	0 49	10 1	1 14	21 33	0 50	13 48	0 45	5 44	2 2	30 10	13 16	23 34	23 37	24 5			n.a.
F 17	18 26	9 37	3 55	22 49	0 13	11 4	1 15	22 40	0 50	9 59	1 14	21 34	0 50	13 48	0 46	5 44	2 1	30 11	13 17	23 34	23 37	24 5			n.a.
S 18	18 41	14 48	2 58	22 37	0s 1	11 30	1 13	22 47	0 50	9 57	1 14	21 35	0 50	13 48	0 46	5 43	2 1	30 11	13 17	23 33	23 37	24 5			n.a.
S 19	18 55	19 17	1 48	22 24	0 16	11 57	1 11	22 53	0 51	9 55	1 14	21 36	0 50	13 47	0 46	5 43	2 1	30 11	13 17	23 33	23 37	24 4			n.a.
M20	19 10	22 38	0 31	22 10	0 31	12 23	1 10	23 0	0 51	9 53	1 13	21 38	0 50	13 47	0 46	5 42	2 1	30 12	13 18	23 33	23 37	24 4			n.a.
T 21	19 24	24 30	0n49	21 55	0 47	12 49	1 8	23 6	0 51	9 51	1 13	21 39	0 50	13 47	0 46	5 42	2 1	30 12	13 18	23 33	23 36	24 3			n.a.
W22	19 37	24 42	2 5	21 39	1 3	13 15	1 6	23 12	0 52	9 49	1 13	21 40	0 50	13 47	0 46	5 41	2 1	30 12	13 18	23 33	23 36	24 3			n.a.
T 23	19 50	23 14	3 13	21 22	1 19	13 41	1 4	23 17	0 52	9 47	1 13	21 41	0 49	13 47	0 46	5 41	2 1	30 13	13 19	23 33	23 36	24 2			n.a.
F 24	20 3	20 17	4 9	21 5	1 35	14 6	1 2	23 23	0 52	9 45	1 13	21 42	0 49	13 47	0 46	5 41	2 1	30 13	13 19	23 33	23 36	24 2			n.a.
S 25	20 16	16 10	4 48	20 47	1 52	14 30	1 0	23 28	0 53	9 43	1 12	21 43	0 49	13 46	0 46	5 40	2 1	30 14	13 19	23 33	23 36	24 2			n.a.
S 26	20 28	11 15	5 10	20 28	2 8	14 55	0 58	23 34	0 53	9 42	1 12	21 44	0 49	13 46	0 46	5 40	2 1	30 14	13 20	23 33	23 36	24 1			n.a.
M27	20 40	5 52	5 14	20 10	2 24	15 19	0 56	23 39	0 53	9 40	1 12	21 46	0 49	13 46	0 46	5 39	2 1	30 14	13 20	23 33	23 36	24 1			n.a.
T 28	20 52	0 17	5 1	19 51	2 40	15 43	0 54	23 44	0 54	9 38	1 12	21 47	0 49	13 46	0 46	5 39	2 1	30 15	13 21	23 33	23 36	24 0			n.a.
W29	21 3	5s12	4 31	19 32	2 55	16 6	0 51	23 48	0 54	9 37	1 11	21 48	0 49	13 46	0 46	5 39	2 1	30 15	13 21	23 33	23 35	24 0			n.a.
T 30	21 14	10 23	3 49	19 13	3 9	16 29	0 49	23 53	0 54	9 35	1 11	21 49	0 49	13 46	0 46	5 38	2 1	30 16	13 21	23 33	23 35	23 59			n.a.
F 31	21n25	15s 3	2n55	18n55	3s23	16n52	0s47	23n57	0n55	9s34	1n11	21n50	0s49	13s46	0s46	5s38	2n 1	30s16	13s22	23n33	23n35	23s59			n.a.

Julian Day Number = 1656894.5, Delta T = 03h27m54s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'25, Lahiri = - 6°23'25 Julian Calendar 1 May 177 BCE == Greg. Calendar 28 Apr. 177 BCE

The year -176 astronomical counting style corresponds to year 177 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 177 BCE
geocentric

JUNE 177 BCE (-176) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 24 31	6♊ 7'03	2♐10	9°R49	20♉ 1	17♊23	27°R19	13♊14	25♒52	18°R54	11°R38	23°R16	24♊ 5	25♑ 6	n.a.	S 1
S 2	16 28 27	7° 4'08	14°28	9♊12	21°14	18° 2	27♎14	13°22	25°52	18♎53	11♒37	23♊15	24° 2	25°13	n.a.	S 2
M 3	16 32 24	8° 1'13	26°36	8°36	22°28	18°40	27°10	13°30	25°52	18°53	11°37	23°D15	23°59	25°20	n.a.	M 3
T 4	16 36 21	8°58'18	8♑35	7°59	23°41	19°19	27° 6	13°38	25°R52	18°52	11°36	23°16	23°55	25°26	n.a.	T 4
W 5	16 40 17	9°55'23	20°27	7°23	24°54	19°57	27° 2	13°45	25°52	18°51	11°36	23°17	23°52	25°33	n.a.	W 5
T 6	16 44 14	10°52'29	2♒17	6°49	26° 7	20°36	26°58	13°53	25°52	18°50	11°35	23°18	23°49	25°40	n.a.	T 6
F 7	16 48 10	11°49'35	14° 7	6°16	27°20	21°14	26°54	14° 1	25°52	18°49	11°35	23°19	23°46	25°46	n.a.	F 7
S 8	16 52 7	12°46'42	26° 1	5°46	28°34	21°53	26°51	14° 9	25°52	18°48	11°34	23°20	23°43	25°53	n.a.	S 8
S 9	16 56 3	13°43'49	8♓ 5	5°19	29°47	22°31	26°48	14°17	25°52	18°47	11°34	23°20	23°40	26° 0	n.a.	S 9
M10	17 0 0	14°40'56	20°22	4°56	1♊ 0	23°10	26°44	14°25	25°51	18°47	11°33	23°R20	23°36	26° 6	n.a.	M10
T 11	17 3 56	15°38'05	2♈58	4°37	2°14	23°48	26°42	14°33	25°51	18°46	11°33	23°20	23°33	26°13	n.a.	T 11
W12	17 7 53	16°35'13	15°55	4°22	3°27	24°27	26°39	14°40	25°51	18°45	11°32	23°19	23°30	26°20	n.a.	W12
T 13	17 11 50	17°32'23	29°17	4°12	4°40	25° 5	26°36	14°48	25°50	18°45	11°31	23°19	23°27	26°26	n.a.	T 13
F 14	17 15 46	18°29'33	13♉ 4	4° 7	5°54	25°44	26°34	14°56	25°50	18°44	11°31	23°18	23°24	26°33	n.a.	F 14
S 15	17 19 43	19°26'43	27°15	4°D 7	7° 7	26°22	26°31	15° 4	25°49	18°43	11°30	23°18	23°20	26°40	n.a.	S 15
S 16	17 23 39	20°23'55	11♊48	4°12	8°21	27° 1	26°29	15°12	25°49	18°43	11°29	23°17	23°17	26°46	n.a.	S 16
M17	17 27 36	21°21'07	26°37	4°23	9°34	27°39	26°28	15°20	25°48	18°42	11°29	23°D17	23°14	26°53	n.a.	M17
T 18	17 31 32	22°18'19	11♋33	4°39	10°48	28°18	26°26	15°27	25°47	18°42	11°28	23°17	23°11	27° 0	n.a.	T 18
W19	17 35 29	23°15'32	26°30	5° 1	12° 1	28°56	26°24	15°35	25°47	18°41	11°27	23°R17	23° 8	27° 6	n.a.	W19
T 20	17 39 25	24°12'46	11♌20	5°28	13°15	29°34	26°23	15°43	25°46	18°41	11°26	23°17	23° 5	27°13	n.a.	T 20
F 21	17 43 22	25° 9'59	25°55	6° 1	14°28	0♋13	26°22	15°51	25°45	18°40	11°26	23°17	23° 1	27°20	n.a.	F 21
S 22	17 47 19	26° 7'14	10♍12	6°40	15°42	0°51	26°21	15°58	25°44	18°40	11°25	23°17	22°58	27°27	n.a.	S 22
S 23	17 51 15	27° 4'28	24° 9	7°24	16°56	1°29	26°20	16° 6	25°43	18°40	11°24	23°D17	22°55	27°33	n.a.	S 23
M24	17 55 12	28° 1'43	7♎44	8°14	18° 9	2° 8	26°19	16°14	25°42	18°39	11°23	23°17	22°52	27°40	n.a.	M24
T 25	17 59 8	28°58'58	20°58	9°10	19°23	2°46	26°19	16°22	25°42	18°39	11°22	23°17	22°49	27°47	n.a.	T 25
W26	18 3 5	29°56'14	3♏54	10°10	20°37	3°24	26°19	16°29	25°40	18°39	11°21	23°18	22°46	27°53	n.a.	W26
T 27	18 7 1	0♋53'31	16°34	11°16	21°50	4° 3	26°D19	16°37	25°39	18°39	11°21	23°19	22°42	28° 0	n.a.	T 27
F 28	18 10 58	1°50'48	29° 0	12°27	23° 4	4°41	26°19	16°45	25°38	18°38	11°20	23°19	22°39	28° 7	n.a.	F 28
S 29	18 14 55	2°48'06	11♐14	13°43	24°18	5°19	26°19	16°52	25°37	18°38	11°19	23°20	22°36	28°13	n.a.	S 29
S 30	18 18 51	3♋45'25	23♐19	15♊ 4	25♊32	5♋58	26♎20	17♊ 0	25♒36	18♎38	11♒18	23°R20	22♊33	28♑20	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n35	18s58	1n54	18n37	3s36	17n14	0s45	24n 1	0n55	9s32	1n11	21n51	0s49	13s46	0s46	5s38	2n 1	30s16	13s22	23n33	23n35	23s58		n.a.
S 2	21 45	22 0	0 48	18 20	3 48	17 36	0 43	24 5	0 55	9 31	1 10	21 52	0 48	13 46	0 46	5 37	2 1	30 17	13 22	23 33	23 35	23 58		n.a.
M 3	21 54	23 59	0s19	18 4	3 58	17 57	0 40	24 9	0 56	9 30	1 10	21 53	0 48	13 46	0 46	5 37	2 1	30 17	13 23	23 33	23 35	23 57		n.a.
T 4	22 3	24 50	1 24	17 50	4 7	18 18	0 38	24 12	0 56	9 28	1 10	21 54	0 48	13 46	0 46	5 37	2 1	30 18	13 23	23 33	23 35	23 57		n.a.
W 5	22 12	24 32	2 25	17 36	4 15	18 38	0 36	24 16	0 56	9 27	1 10	21 55	0 48	13 46	0 46	5 36	2 1	30 18	13 23	23 33	23 34	23 56		n.a.
T 6	22 20	23 7	3 20	17 24	4 21	18 58	0 33	24 19	0 56	9 26	1 9	21 56	0 48	13 46	0 46	5 36	2 1	30 19	13 24	23 33	23 34	23 56		n.a.
F 7	22 28	20 42	4 6	17 14	4 26	19 17	0 31	24 22	0 57	9 25	1 9	21 57	0 48	13 46	0 46	5 36	2 1	30 19	13 24	23 33	23 34	23 55		n.a.
S 8	22 36	17 24	4 42	17 6	4 29	19 36	0 29	24 25	0 57	9 24	1 9	21 58	0 48	13 46	0 46	5 36	2 0	30 20	13 24	23 33	23 34	23 55		n.a.
S 9	22 43	13 21	5 6	17 0	4 31	19 55	0 26	24 27	0 57	9 23	1 9	21 59	0 48	13 46	0 46	5 35	2 0	30 20	13 24	23 33	23 34	23 54		n.a.
M10	22 50	8 42	5 17	16 55	4 31	20 13	0 24	24 30	0 58	9 22	1 8	22 0	0 48	13 47	0 46	5 35	2 0	30 21	13 25	23 33	23 34	23 53		n.a.
T 11	22 56	3 35	5 13	16 53	4 30	20 30	0 21	24 32	0 58	9 21	1 8	22 1	0 48	13 47	0 47	5 35	2 0	30 21	13 25	23 33	23 33	23 53		n.a.
W12	23 2	1n50	4 53	16 53	4 27	20 47	0 19	24 34	0 58	9 20	1 8	22 2	0 48	13 47	0 47	5 35	2 0	30 22	13 25	23 33	23 33	23 52		n.a.
T 13	23 7	7 20	4 17	16 55	4 23	21 3	0 17	24 36	0 58	9 20	1 7	22 3	0 47	13 47	0 47	5 35	2 0	30 22	13 26	23 33	23 33	23 52		n.a.
F 14	23 13	12 41	3 25	17 0	4 18	21 19	0 14	24 37	0 59	9 19	1 7	22 4	0 47	13 47	0 47	5 34	2 0	30 22	13 26	23 33	23 33	23 51		n.a.
S 15	23 17	17 31	2 20	17 6	4 11	21 34	0 12	24 39	0 59	9 19	1 7	22 5	0 47	13 47	0 47	5 34	2 0	30 23	13 26	23 33	23 33	23 51		n.a.
S 16	23 22	21 25	1 3	17 15	4 3	21 48	0 9	24 40	0 59	9 18	1 7	22 6	0 47	13 48	0 47	5 34	2 0	30 23	13 27	23 33	23 33	23 50		n.a.
M17	23 26	23 59	0n18	17 25	3 55	22 2	0 7	24 41	1 0	9 18	1 6	22 7	0 47	13 48	0 47	5 34	2 0	30 24	13 27	23 33	23 32	23 49		n.a.
T 18	23 29	24 52	1 40	17 38	3 45	22 15	0 4	24 42	1 0	9 17	1 6	22 8	0 47	13 48	0 47	5 34	2 0	30 24	13 27	23 33	23 32	23 49		n.a.
W19	23 33	23 57	2 54	17 52	3 35	22 28	0 2	24 43	1 0	9 17	1 6	22 9	0 47	13 48	0 47	5 34	2 0	30 25	13 28	23 33	23 32	23 48		n.a.
T 20	23 35	21 22	3 56	18 8	3 23	22 40	0n 1	24 43	1 0	9 17	1 6	22 10	0 47	13 49	0 47	5 34	2 0	30 25	13 28	23 33	23 32	23 48		n.a.
F 21	23 38	17 26	4 42	18 25	3 12	22 51	0 3	24 44	1 1	9 17	1 5	22 11	0 47	13 49	0 47	5 33	2 0	30 26	13 28	23 33	23 32	23 47		n.a.
S 22	23 40	12 35	5 9	18 44	2 59	23 2	0 5	24 44	1 1	9 17	1 5	22 12	0 47	13 49	0 47	5 33	2 0	30 26	13 28	23 33	23 32	23 46		n.a.
S 23	23 41	7 12	5 17	19 4	2 46	23 12	0 8	24 44	1 1	9 17	1 5	22 12	0 47	13 50	0 47	5 33	2 0	30 27	13 29	23 33	23 31	23 46		n.a.
M24	23 42	1 36	5 7	19 25	2 33	23 21	0 10	24 43	1 1	9 17	1 4	22 13	0 47	13 50	0 47	5 33	1 59	30 27	13 29	23 33	23 31	23 45		n.a.
T 25	23 43	3s56	4 41	19 47	2 19	23 30	0 13	24 43	1 2	9 17	1 4	22 14	0 47	13 50	0 47	5 33	1 59	30 28	13 29	23 33	23 31	23 44		n.a.
W26	23 43	9 11	4 1	20 10	2 5	23 38	0 15	24 42	1 2	9 17	1 4	22 15	0 47	13 51	0 47	5 33	1 59	30 28	13 29	23 33	23 31	23 44		n.a.
T 27	23 43	13 57	3 10	20 33	1 51	23 45	0 17	24 41	1 2	9 17	1 4	22 16	0 46	13 51	0 47	5 33	1 59	30 29	13 30	23 33	23 31	23 43		n.a.
F 28	23 42	18 2	2 11	20 57	1 37	23 52	0 20	24 40	1 2	9 17	1 3	22 17	0 46	13 52	0 47	5 33	1 59	30 29	13 30	23 33	23 31	23 42		n.a.
S 29	23 41	21 17	1 7	21 21	1 23	23 58	0 22	24 39	1 3	9 18	1 3	22 18	0 46	13 52	0 47	5 33	1 59	30 30	13 30	23 33	23 30	23 42		n.a.
S 30	23n40	23s33	0n 0	21n44	1s 9	24n 3	0n24	24n38	1n 3	9s18	1n 3	22n18	0s46	13s52	0s47	5s33	1n59	30s31	13s30	23n33	23n30	23s41		n.a.

Julian Day Number = 1656925.5, Delta T = 03h27m53s
Ecliptic obliquity = 23°43'00, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'21, Lahiri = - 6°23'21 Julian Calendar 1 June 177 BCE == Greg. Calendar 29 May 177 BCE

The year -176 astronomical counting style corresponds to year 177 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 177 BCE
geocentric

JULY 177 BCE (-176) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 22 48	4♋42'45	5♉18	16♊30	26♊45	6♋36	26♎20	17♊ 8	25°R35	18°R38	11°R17	23°R20	22♊30	28♉27	n.a.	M 1
T 2	18 26 44	5°40'05	17°10	18° 0	27°59	7°14	26°21	17°15	25♒34	18♎38	11♒16	23♊19	22°26	28°33	n.a.	T 2
W 3	18 30 41	6°37'27	29° 0	19°35	29°13	7°53	26°22	17°23	25°32	18°38	11°15	23°18	22°23	28°40	n.a.	W 3
T 4	18 34 37	7°34'50	10♒50	21°14	0♋27	8°31	26°24	17°30	25°31	18°D38	11°14	23°16	22°20	28°47	n.a.	T 4
F 5	18 38 34	8°32'14	22°41	22°57	1°41	9° 9	26°25	17°38	25°30	18°38	11°13	23°13	22°17	28°53	n.a.	F 5
S 6	18 42 30	9°29'40	4♓37	24°43	2°55	9°47	26°27	17°45	25°28	18°38	11°12	23°11	22°14	29° 0	n.a.	S 6
S 7	18 46 27	10°27'07	16°42	26°32	4° 9	10°26	26°28	17°53	25°27	18°38	11°11	23° 9	22°11	29° 7	n.a.	S 7
M 8	18 50 24	11°24'35	28°58	28°25	5°23	11° 4	26°30	18° 0	25°25	18°38	11°10	23° 8	22° 7	29°13	n.a.	M 8
T 9	18 54 20	12°22'04	11♈31	0♋20	6°37	11°42	26°32	18° 8	25°24	18°38	11° 9	23°D 7	22° 4	29°20	n.a.	T 9
W10	18 58 17	13°19'35	24°23	2°17	7°51	12°20	26°35	18°15	25°22	18°38	11° 8	23° 8	22° 1	29°27	n.a.	W10
T 11	19 2 13	14°17'08	7♉39	4°16	9° 5	12°59	26°37	18°22	25°20	18°39	11° 6	23° 9	21°58	29°33	n.a.	T 11
F 12	19 6 10	15°14'42	21°21	6°16	10°19	13°37	26°40	18°30	25°19	18°39	11° 5	23°10	21°55	29°40	n.a.	F 12
S 13	19 10 6	16°12'18	5♊29	8°17	11°33	14°15	26°43	18°37	25°17	18°39	11° 4	23°11	21°52	29°47	n.a.	S 13
S 14	19 14 3	17° 9'56	20° 2	10°19	12°47	14°53	26°46	18°44	25°15	18°39	11° 3	23°R12	21°48	29°53	n.a.	S 14
M15	19 17 59	18° 7'35	4♋57	12°21	14° 1	15°32	26°49	18°52	25°14	18°40	11° 2	23°12	21°45	29°59	n.a.	M15
T 16	19 21 56	19° 5'15	20° 5	14°24	15°16	16°10	26°52	18°59	25°12	18°40	11° 1	23°10	21°42	0♒ 7	n.a.	T 16
W17	19 25 53	20° 2'57	5♌18	16°26	16°30	16°48	26°56	19° 6	25°10	18°40	11° 0	23° 7	21°39	0°13	n.a.	W17
T 18	19 29 49	21° 0'40	20°25	18°28	17°44	17°26	26°59	19°13	25° 8	18°41	10°58	23° 4	21°36	0°20	n.a.	T 18
F 19	19 33 46	21°58'25	5♍18	20°30	18°58	18° 4	27° 3	19°20	25° 6	18°41	10°57	23° 0	21°32	0°27	n.a.	F 19
S 20	19 37 42	22°56'11	19°49	22°30	20°13	18°43	27° 7	19°27	25° 4	18°42	10°56	22°56	21°29	0°33	n.a.	S 20
S 21	19 41 39	23°53'57	3♎55	24°30	21°27	19°21	27°12	19°34	25° 2	18°42	10°55	22°54	21°26	0°40	n.a.	S 21
M22	19 45 35	24°51'46	17°33	26°29	22°41	19°59	27°16	19°41	25° 0	18°43	10°54	22°52	21°23	0°47	n.a.	M22
T 23	19 49 32	25°49'35	0♏45	28°27	23°56	20°37	27°20	19°48	24°59	18°44	10°53	22°D52	21°20	0°53	n.a.	T 23
W24	19 53 28	26°47'26	13°35	0♌24	25°10	21°16	27°25	19°55	24°56	18°44	10°51	22°53	21°17	1° 0	n.a.	W24
T 25	19 57 25	27°45'18	26° 5	2°19	26°24	21°54	27°30	20° 1	24°54	18°45	10°50	22°55	21°13	1° 7	n.a.	T 25
F 26	20 1 22	28°43'11	8♐19	4°13	27°39	22°32	27°35	20° 8	24°52	18°46	10°49	22°56	21°10	1°13	n.a.	F 26
S 27	20 5 18	29°41'07	20°23	6° 6	28°53	23°10	27°40	20°15	24°50	18°46	10°48	22°R57	21° 7	1°20	n.a.	S 27
S 28	20 9 15	0♌39'03	2♉19	7°58	0♌ 7	23°48	27°46	20°21	24°48	18°47	10°46	22°57	21° 4	1°27	n.a.	S 28
M29	20 13 11	1°37'01	14°10	9°48	1°22	24°27	27°51	20°28	24°46	18°48	10°45	22°54	21° 1	1°33	n.a.	M29
T 30	20 17 8	2°35'01	26° 0	11°37	2°36	25° 5	27°57	20°35	24°44	18°49	10°44	22°50	20°58	1°40	n.a.	T 30
W31	20 21 4	3♌33'03	7♒50	13♌25	3♌51	25♋43	28♎ 2	20♊41	24♒42	18♎49	10♒43	22♊45	20♊54	1♒47	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	23n38	24s42	1s 6	22n 7	0s55	24n 7	0n27	24n36	1n 3	9s19	1n 2	22n19	0s46	13s53	0s47	5s33	1n59	30s31	13s31	23n33	23n30	23s40		n.a.
T 2	23 36	24 43	2 8	22 29	0 41	24 11	0 29	24 34	1 3	9 19	1 2	22 20	0 46	13 53	0 47	5 33	1 59	30 32	13 31	23 33	23 30	23 40		n.a.
W 3	23 33	23 36	3 5	22 51	0 27	24 14	0 31	24 32	1 3	9 20	1 2	22 21	0 46	13 54	0 47	5 33	1 59	30 32	13 31	23 33	23 30	23 39		n.a.
T 4	23 30	21 27	3 53	23 11	0 14	24 16	0 33	24 30	1 4	9 21	1 2	22 22	0 46	13 54	0 47	5 33	1 59	30 33	13 31	23 33	23 30	23 38		n.a.
F 5	23 26	18 23	4 32	23 30	0 2	24 18	0 35	24 28	1 4	9 21	1 1	22 22	0 46	13 55	0 47	5 33	1 59	30 33	13 32	23 32	23 29	23 38		n.a.
S 6	23 22	14 33	4 59	23 47	0n11	24 19	0 38	24 25	1 4	9 22	1 1	22 23	0 46	13 55	0 47	5 33	1 59	30 34	13 32	23 32	23 29	23 37		n.a.
S 7	23 18	10 7	5 14	24 3	0 22	24 19	0 40	24 22	1 4	9 23	1 1	22 24	0 46	13 56	0 47	5 33	1 59	30 34	13 32	23 32	23 29	23 36		n.a.
M 8	23 13	5 12	5 14	24 16	0 33	24 18	0 42	24 19	1 5	9 24	1 0	22 25	0 46	13 56	0 47	5 34	1 59	30 35	13 32	23 32	23 29	23 35		n.a.
T 9	23 8	0n 1	5 0	24 27	0 44	24 17	0 44	24 16	1 5	9 25	1 0	22 25	0 46	13 57	0 47	5 34	1 59	30 35	13 32	23 32	23 29	23 35		n.a.
W10	23 2	5 23	4 30	24 35	0 53	24 15	0 46	24 13	1 5	9 26	1 0	22 26	0 46	13 58	0 48	5 34	1 58	30 36	13 33	23 32	23 28	23 34		n.a.
T 11	22 56	10 40	3 45	24 41	1 2	24 12	0 48	24 9	1 5	9 27	1 0	22 27	0 46	13 58	0 48	5 34	1 58	30 36	13 33	23 32	23 28	23 33		n.a.
F 12	22 50	15 38	2 47	24 44	1 10	24 8	0 50	24 6	1 5	9 29	0 59	22 27	0 46	13 59	0 48	5 34	1 58	30 37	13 33	23 32	23 28	23 32		n.a.
S 13	22 43	19 53	1 36	24 44	1 17	24 4	0 52	24 2	1 6	9 30	0 59	22 28	0 45	13 59	0 48	5 34	1 58	30 37	13 33	23 32	23 28	23 32		n.a.
S 14	22 36	23 3	0 17	24 42	1 24	23 59	0 53	23 58	1 6	9 31	0 59	22 29	0 45	14 0	0 48	5 34	1 58	30 38	13 33	23 32	23 28	23 31		n.a.
M15	22 28	24 42	1n 4	24 37	1 29	23 53	0 55	23 54	1 6	9 33	0 59	22 29	0 45	14 1	0 48	5 35	1 58	30 38	13 33	23 32	23 27	23 30		n.a.
T 16	22 20	24 33	2 22	24 29	1 34	23 47	0 57	23 49	1 6	9 34	0 58	22 30	0 45	14 1	0 48	5 35	1 58	30 39	13 34	23 32	23 27	23 29		n.a.
W17	22 12	22 34	3 31	24 19	1 38	23 39	0 59	23 45	1 6	9 36	0 58	22 31	0 45	14 2	0 48	5 35	1 58	30 39	13 34	23 32	23 27	23 28		n.a.
T 18	22 3	19 1	4 24	24 6	1 41	23 31	1 0	23 40	1 7	9 37	0 58	22 31	0 45	14 2	0 48	5 35	1 58	30 40	13 34	23 32	23 27	23 28		n.a.
F 19	21 54	14 17	4 58	23 51	1 44	23 23	1 2	23 35	1 7	9 39	0 57	22 32	0 45	14 3	0 48	5 35	1 58	30 40	13 34	23 32	23 27	23 27		n.a.
S 20	21 44	8 51	5 13	23 33	1 46	23 13	1 4	23 30	1 7	9 41	0 57	22 33	0 45	14 4	0 48	5 36	1 58	30 41	13 34	23 32	23 26	23 26		n.a.
S 21	21 35	3 7	5 7	23 13	1 47	23 3	1 5	23 25	1 7	9 42	0 57	22 33	0 45	14 4	0 48	5 36	1 58	30 41	13 34	23 31	23 26	23 25		n.a.
M22	21 24	2s35	4 45	22 51	1 47	22 53	1 7	23 19	1 7	9 44	0 57	22 34	0 45	14 5	0 48	5 36	1 58	30 42	13 35	23 31	23 26	23 24		n.a.
T 23	21 14	8 1	4 7	22 27	1 47	22 41	1 8	23 13	1 7	9 46	0 56	22 34	0 45	14 6	0 48	5 37	1 58	30 42	13 35	23 31	23 26	23 24		n.a.
W24	21 2	12 56	3 19	22 2	1 46	22 29	1 9	23 8	1 8	9 48	0 56	22 35	0 45	14 7	0 48	5 37	1 58	30 43	13 35	23 31	23 26	23 23		n.a.
T 25	20 51	17 12	2 22	21 34	1 45	22 16	1 11	23 2	1 8	9 50	0 56	22 35	0 45	14 7	0 48	5 37	1 57	30 43	13 35	23 31	23 25	23 22		n.a.
F 26	20 39	20 39	1 19	21 5	1 43	22 3	1 12	22 55	1 8	9 52	0 56	22 36	0 45	14 8	0 48	5 37	1 57	30 44	13 35	23 32	23 25	23 21		n.a.
S 27	20 27	23 8	0 14	20 35	1 41	21 49	1 13	22 49	1 8	9 54	0 55	22 36	0 45	14 9	0 48	5 38	1 57	30 44	13 35	23 32	23 25	23 20		n.a.
S 28	20 15	24 33	0s51	20 4	1 38	21 34	1 14	22 43	1 8	9 56	0 55	22 37	0 45	14 9	0 48	5 38	1 57	30 44	13 35	23 32	23 25	23 19		n.a.
M29	20 2	24 49	1 53	19 31	1 34	21 19	1 15	22 36	1 8	9 59	0 55	22 38	0 45	14 10	0 48	5 39	1 57	30 45	13 35	23 31	23 24	23 18		n.a.
T 30	19 49	23 58	2 50	18 57	1 31	21 3	1 16	22 29	1 9	10 1	0 55	22 38	0 45	14 11	0 48	5 39	1 57	30 45	13 35	23 31	23 24	23 18		n.a.
W31	19n35	22s 3	3s39	18n22	1n26	20n46	1n17	22n22	1n 9	10s 3	0n54	22n39	0s45	14s12	0s48	5s39	1n57	30s46	13s35	23n31	23n24	23s17		n.a.

Julian Day Number = 1656955.5, Delta T = 03h27m52s
Ecliptic obliquity = 23°43'00, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'17, Lahiri = - 6°23'16 Julian Calendar 1 July 177 BCE == Greg. Calendar 28 June 177 BCE

The year -176 astronomical counting style corresponds to year 177 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 177 BCE
geocentric

AUGUST 177 BCE (-176) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 25 1	4♌31'06	19♒42	15♌12	5♌ 5	26♋21	28♎ 8	20♊47	24°R39	18♎50	10°R41	22°R37	20♊51	1♒54	n.a.	T 1
F 2	20 28 57	5°29'11	1♓38	16°57	6°20	26°59	28°15	20°54	24♒37	18°51	10♒40	22♊29	20°48	2° 0	n.a.	F 2
S 3	20 32 54	6°27'18	13°39	18°41	7°34	27°38	28°21	21° 0	24°35	18°52	10°39	22°21	20°45	2° 7	n.a.	S 3
S 4	20 36 51	7°25'27	25°49	20°24	8°49	28°16	28°27	21° 6	24°33	18°53	10°38	22°14	20°42	2°14	n.a.	S 4
M 5	20 40 47	8°23'38	8♈ 9	22° 6	10° 4	28°54	28°34	21°13	24°30	18°54	10°36	22° 9	20°38	2°20	n.a.	M 5
T 6	20 44 44	9°21'51	20°42	23°46	11°18	29°32	28°40	21°19	24°28	18°55	10°35	22° 5	20°35	2°27	n.a.	T 6
W 7	20 48 40	10°20'06	3♉31	25°25	12°33	0♌11	28°47	21°25	24°26	18°56	10°34	22° 3	20°32	2°34	n.a.	W 7
T 8	20 52 37	11°18'23	16°41	27° 3	13°47	0°49	28°54	21°31	24°24	18°57	10°33	22°D 3	20°29	2°40	n.a.	T 8
F 9	20 56 33	12°16'43	0♊13	28°40	15° 2	1°27	29° 1	21°37	24°21	18°58	10°31	22° 4	20°26	2°47	n.a.	F 9
S 10	21 0 30	13°15'05	14°10	0♍16	16°17	2° 5	29° 9	21°43	24°19	19° 0	10°30	22° 5	20°23	2°54	n.a.	S 10
S 11	21 4 26	14°13'29	28°33	1°51	17°31	2°43	29°16	21°48	24°16	19° 1	10°29	22°R 5	20°19	3° 0	n.a.	S 11
M12	21 8 23	15°11'56	13♋19	3°24	18°46	3°22	29°23	21°54	24°14	19° 2	10°28	22° 3	20°16	3° 7	n.a.	M12
T 13	21 12 20	16°10'24	28°23	4°56	20° 1	4° 0	29°31	22° 0	24°12	19° 3	10°26	21°59	20°13	3°14	n.a.	T 13
W14	21 16 16	17° 8'55	13♌36	6°28	21°16	4°38	29°39	22° 5	24° 9	19° 4	10°25	21°53	20°10	3°20	n.a.	W14
T 15	21 20 13	18° 7'28	28°49	7°58	22°30	5°16	29°47	22°11	24° 7	19° 6	10°24	21°45	20° 7	3°27	n.a.	T 15
F 16	21 24 9	19° 6'02	13♍51	9°27	23°45	5°55	29°55	22°16	24° 5	19° 7	10°23	21°36	20° 4	3°34	n.a.	F 16
S 17	21 28 6	20° 4'39	28°33	10°54	25° 0	6°33	0♏ 3	22°22	24° 2	19° 8	10°21	21°27	20° 0	3°40	n.a.	S 17
S 18	21 32 2	21° 3'17	12♎48	12°21	26°15	7°11	0°11	22°27	24° 0	19°10	10°20	21°20	19°57	3°47	n.a.	S 18
M19	21 35 59	22° 1'57	26°33	13°47	27°29	7°49	0°20	22°32	23°57	19°11	10°19	21°15	19°54	3°54	n.a.	M19
T 20	21 39 55	23° 0'39	9♏50	15°11	28°44	8°28	0°28	22°37	23°55	19°13	10°18	21°12	19°51	4° 0	n.a.	T 20
W21	21 43 52	23°59'22	22°40	16°34	29°59	9° 6	0°37	22°43	23°53	19°14	10°16	21°D12	19°48	4° 7	n.a.	W21
T 22	21 47 48	24°58'08	5♐ 8	17°56	1♍14	9°44	0°46	22°48	23°50	19°16	10°15	21°12	19°44	4°14	n.a.	T 22
F 23	21 51 45	25°56'55	17°19	19°17	2°29	10°23	0°55	22°52	23°48	19°17	10°14	21°R12	19°41	4°21	n.a.	F 23
S 24	21 55 42	26°55'44	29°17	20°36	3°44	11° 1	1° 4	22°57	23°45	19°19	10°13	21°12	19°38	4°27	n.a.	S 24
S 25	21 59 38	27°54'35	11♑ 9	21°54	4°58	11°39	1°13	23° 2	23°43	19°20	10°11	21°10	19°35	4°34	n.a.	S 25
M26	22 3 35	28°53'28	22°58	23°10	6°13	12°17	1°22	23° 7	23°40	19°22	10°10	21° 6	19°32	4°41	n.a.	M26
T 27	22 7 31	29°52'23	4♒47	24°25	7°28	12°56	1°32	23°11	23°38	19°23	10° 9	20°59	19°29	4°47	n.a.	T 27
W28	22 11 28	0♍51'20	16°39	25°38	8°43	13°34	1°41	23°16	23°36	19°25	10° 8	20°49	19°25	4°54	n.a.	W28
T 29	22 15 24	1°50'19	28°37	26°50	9°58	14°12	1°51	23°20	23°33	19°27	10° 7	20°37	19°22	5° 1	n.a.	T 29
F 30	22 19 21	2°49'20	10♓42	28° 0	11°13	14°51	2° 0	23°25	23°31	19°28	10° 6	20°24	19°19	5° 7	n.a.	F 30
S 31	22 23 17	3♍48'23	22♓54	29♍ 8	12♍28	15♌29	2♏10	23♊29	23♒29	19♎30	10♒ 5	20♊11	19♊16	5♒14	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	19n21	19s10	4s19	17n46	1n22	20n29	1n18	22n15	1n 9	10s 6	0n54	22n39	0s45	14s12	0s48	5s40	1n57	30s46	13s36	23n31	23n24	23s16			n.a.
F 2	19 7	15 30	4 48	17 9	1 17	20 11	1 19	22 8	1 9	10 8	0 54	22 39	0 45	14 13	0 48	5 40	1 57	30 47	13 36	23 30	23 24	23 15			n.a.
S 3	18 53	11 10	5 5	16 32	1 12	19 53	1 20	22 0	1 9	10 11	0 54	22 40	0 45	14 14	0 48	5 41	1 57	30 47	13 36	23 30	23 23	23 14			n.a.
S 4	18 38	6 23	5 8	15 54	1 6	19 34	1 21	21 53	1 9	10 13	0 53	22 40	0 45	14 15	0 48	5 41	1 57	30 48	13 36	23 29	23 23	23 13			n.a.
M 5	18 23	1 16	4 56	15 16	1 1	19 14	1 21	21 45	1 9	10 16	0 53	22 41	0 45	14 16	0 48	5 41	1 57	30 48	13 36	23 29	23 23	23 12			n.a.
T 6	18 7	4n 0	4 31	14 37	0 55	18 54	1 22	21 37	1 10	10 18	0 53	22 41	0 44	14 16	0 48	5 42	1 57	30 48	13 36	23 29	23 23	23 11			n.a.
W 7	17 51	9 13	3 51	13 57	0 48	18 33	1 23	21 29	1 10	10 21	0 53	22 42	0 44	14 17	0 48	5 42	1 57	30 49	13 36	23 29	23 22	23 10			n.a.
T 8	17 35	14 10	2 59	13 17	0 42	18 12	1 23	21 21	1 10	10 24	0 52	22 42	0 44	14 18	0 48	5 43	1 57	30 49	13 36	23 29	23 22	23 9			n.a.
F 9	17 19	18 34	1 55	12 37	0 35	17 51	1 24	21 12	1 10	10 26	0 52	22 43	0 44	14 19	0 48	5 43	1 57	30 50	13 36	23 29	23 22	23 8			n.a.
S 10	17 2	22 4	0 42	11 57	0 28	17 28	1 24	21 4	1 10	10 29	0 52	22 43	0 44	14 20	0 48	5 44	1 56	30 50	13 36	23 29	23 22	23 7			n.a.
S 11	16 45	24 17	0n35	11 16	0 21	17 6	1 24	20 55	1 10	10 32	0 52	22 43	0 44	14 20	0 48	5 44	1 56	30 50	13 36	23 29	23 22	23 6			n.a.
M12	16 28	24 54	1 52	10 36	0 14	16 43	1 24	20 46	1 10	10 35	0 51	22 44	0 44	14 21	0 48	5 45	1 56	30 51	13 36	23 29	23 21	23 6			n.a.
T 13	16 10	23 42	3 2	9 55	0 7	16 19	1 25	20 37	1 10	10 38	0 51	22 44	0 44	14 22	0 48	5 45	1 56	30 51	13 36	23 28	23 21	23 5			n.a.
W14	15 53	20 46	4 0	9 14	0s 1	15 55	1 25	20 28	1 11	10 41	0 51	22 44	0 44	14 23	0 48	5 46	1 56	30 52	13 36	23 28	23 21	23 4			n.a.
T 15	15 34	16 24	4 41	8 33	0 8	15 30	1 25	20 19	1 11	10 44	0 51	22 45	0 44	14 24	0 48	5 46	1 56	30 52	13 36	23 27	23 21	23 3			n.a.
F 16	15 16	11 3	5 2	7 52	0 16	15 5	1 25	20 9	1 11	10 47	0 51	22 45	0 44	14 24	0 48	5 47	1 56	30 52	13 36	23 27	23 20	23 2			n.a.
S 17	14 58	5 12	5 3	7 12	0 24	14 40	1 25	20 0	1 11	10 50	0 50	22 46	0 44	14 25	0 48	5 47	1 56	30 53	13 36	23 26	23 20	23 1			n.a.
S 18	14 39	0s45	4 44	6 31	0 32	14 14	1 24	19 50	1 11	10 53	0 50	22 46	0 44	14 26	0 48	5 48	1 56	30 53	13 36	23 26	23 20	23 0			n.a.
M19	14 20	6 29	4 9	5 51	0 40	13 48	1 24	19 40	1 11	10 57	0 50	22 46	0 44	14 27	0 48	5 49	1 56	30 53	13 36	23 25	23 20	22 59			n.a.
T 20	14 0	11 44	3 22	5 11	0 47	13 21	1 24	19 30	1 11	11 0	0 50	22 47	0 44	14 28	0 48	5 49	1 56	30 54	13 36	23 25	23 19	22 58			n.a.
W21	13 41	16 18	2 26	4 31	0 55	12 55	1 24	19 20	1 11	11 3	0 49	22 47	0 44	14 28	0 48	5 50	1 56	30 54	13 36	23 25	23 19	22 57			n.a.
T 22	13 21	20 1	1 25	3 51	1 3	12 27	1 23	19 10	1 11	11 6	0 49	22 47	0 44	14 29	0 48	5 50	1 56	30 54	13 36	23 25	23 19	22 56			n.a.
F 23	13 1	22 45	0 21	3 12	1 11	12 0	1 23	18 59	1 11	11 10	0 49	22 47	0 44	14 30	0 48	5 51	1 56	30 55	13 36	23 25	23 19	22 55			n.a.
S 24	12 41	24 26	0s43	2 33	1 19	11 32	1 22	18 49	1 12	11 13	0 49	22 48	0 44	14 31	0 48	5 52	1 56	30 55	13 36	23 25	23 18	22 54			n.a.
S 25	12 20	24 58	1 44	1 55	1 27	11 4	1 22	18 38	1 12	11 16	0 49	22 48	0 44	14 32	0 48	5 52	1 56	30 55	13 36	23 25	23 18	22 52			n.a.
M26	12 0	24 22	2 40	1 17	1 35	10 35	1 21	18 27	1 12	11 20	0 48	22 48	0 44	14 32	0 48	5 53	1 56	30 55	13 36	23 25	23 18	22 51			n.a.
T 27	11 39	22 41	3 30	0 40	1 43	10 6	1 20	18 16	1 12	11 23	0 48	22 48	0 44	14 33	0 48	5 54	1 56	30 56	13 35	23 24	23 18	22 50			n.a.
W28	11 18	19 59	4 10	0 4	1 51	9 37	1 19	18 5	1 12	11 27	0 48	22 49	0 44	14 34	0 48	5 54	1 56	30 56	13 35	23 24	23 17	22 49			n.a.
T 29	10 57	16 27	4 39	0s32	1 59	9 8	1 19	17 54	1 12	11 30	0 48	22 49	0 44	14 35	0 48	5 55	1 55	30 56	13 35	23 23	23 17	22 48			n.a.
F 30	10 35	12 12	4 57	1 7	2 6	8 38	1 18	17 43	1 12	11 34	0 48	22 49	0 44	14 36	0 48	5 56	1 55	30 56	13 35	23 22	23 17	22 47			n.a.
S 31	10n14	7s26	5s 1	1s41	2s14	8n 8	1n17	17n32	1n12	11s38	0n47	22n49	0s44	14s36	0s48	5s56	1n55	30s57	13s35	23n21	23n17	22s46			n.a.

Julian Day Number = 1656986.5, Delta T = 03h27m51s
Ecliptic obliquity = 23°43'01, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'13, Lahiri = - 6°23'12 Julian Calendar 1 Aug. 177 BCE == Greg. Calendar 29 July 177 BCE

The year -176 astronomical counting style corresponds to year 177 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 177 BCE
geocentric

SEPTEMBER 177 BCE (-176) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 27 14	4♍47'29	5♈14	0♎14	13♍42	16♌ 7	2♏20	23♊33	23°R26	19♎32	10°R 3	19°R58	19♊13	5♒21	n.a.	S 1
M 2	22 31 11	5°46'36	17°45	1°18	14°57	16°46	2°30	23°37	23♒24	19°33	10♒ 2	19♊48	19° 9	5°27	n.a.	M 2
T 3	22 35 7	6°45'46	0♉26	2°19	16°12	17°24	2°40	23°41	23°22	19°35	10° 1	19°41	19° 6	5°34	n.a.	T 3
W 4	22 39 4	7°44'59	13°21	3°18	17°27	18° 2	2°50	23°45	23°19	19°37	10° 0	19°36	19° 3	5°41	n.a.	W 4
T 5	22 43 0	8°44'14	26°30	4°14	18°42	18°41	3° 1	23°49	23°17	19°39	9°59	19°34	19° 0	5°47	n.a.	T 5
F 6	22 46 57	9°43'31	9♊57	5° 7	19°57	19°19	3°11	23°53	23°15	19°40	9°58	19°D34	18°57	5°54	n.a.	F 6
S 7	22 50 53	10°42'51	23°44	5°57	21°12	19°57	3°22	23°56	23°12	19°42	9°57	19°R34	18°54	6° 1	n.a.	S 7
S 8	22 54 50	11°42'14	7♋52	6°44	22°27	20°36	3°32	24° 0	23°10	19°44	9°56	19°33	18°50	6° 8	n.a.	S 8
M 9	22 58 46	12°41'38	22°21	7°26	23°42	21°14	3°43	24° 3	23° 8	19°46	9°55	19°30	18°47	6°14	n.a.	M 9
T 10	23 2 43	13°41'06	7♌ 7	8° 4	24°57	21°53	3°54	24° 6	23° 6	19°48	9°54	19°25	18°44	6°21	n.a.	T 10
W11	23 6 40	14°40'35	22° 5	8°37	26°12	22°31	4° 5	24°10	23° 3	19°50	9°53	19°16	18°41	6°28	n.a.	W11
T 12	23 10 36	15°40'07	7♍ 7	9° 6	27°27	23° 9	4°16	24°13	23° 1	19°52	9°52	19° 6	18°38	6°34	n.a.	T 12
F 13	23 14 33	16°39'41	22° 2	9°28	28°42	23°48	4°27	24°16	22°59	19°54	9°51	18°54	18°35	6°41	n.a.	F 13
S 14	23 18 29	17°39'17	6♎42	9°45	29°56	24°26	4°38	24°19	22°57	19°56	9°50	18°42	18°31	6°48	n.a.	S 14
S 15	23 22 26	18°38'55	20°59	9°55	1♎11	25° 5	4°49	24°22	22°55	19°58	9°49	18°32	18°28	6°54	n.a.	S 15
M16	23 26 22	19°38'35	4♏48	9°R58	2°26	25°43	5° 0	24°24	22°53	20° 0	9°48	18°24	18°25	7° 1	n.a.	M16
T 17	23 30 19	20°38'17	18° 9	9°53	3°41	26°22	5°12	24°27	22°51	20° 2	9°47	18°19	18°22	7° 8	n.a.	T 17
W18	23 34 15	21°38'00	1♐ 3	9°40	4°56	27° 0	5°23	24°29	22°49	20° 4	9°46	18°17	18°19	7°14	n.a.	W18
T 19	23 38 12	22°37'46	13°33	9°19	6°11	27°39	5°35	24°32	22°47	20° 6	9°45	18°16	18°15	7°21	n.a.	T 19
F 20	23 42 8	23°37'34	25°45	8°49	7°26	28°17	5°46	24°34	22°45	20° 8	9°44	18°16	18°12	7°28	n.a.	F 20
S 21	23 46 5	24°37'23	7♑44	8°10	8°41	28°55	5°58	24°36	22°43	20°10	9°44	18°16	18° 9	7°34	n.a.	S 21
S 22	23 50 2	25°37'14	19°36	7°22	9°56	29°34	6°10	24°38	22°41	20°12	9°43	18°14	18° 6	7°41	n.a.	S 22
M23	23 53 58	26°37'07	1♒24	6°26	11°11	0♍12	6°22	24°40	22°39	20°14	9°42	18° 9	18° 3	7°48	n.a.	M23
T 24	23 57 55	27°37'02	13°15	5°23	12°26	0°51	6°34	24°42	22°37	20°16	9°41	18° 2	18° 0	7°55	n.a.	T 24
W25	0 1 51	28°36'58	25°12	4°14	13°41	1°29	6°46	24°44	22°35	20°18	9°40	17°52	17°56	8° 1	n.a.	W25
T 26	0 5 48	29°36'57	7♓17	3° 0	14°56	2° 8	6°58	24°46	22°33	20°20	9°40	17°40	17°53	8° 8	n.a.	T 26
F 27	0 9 44	0♎36'57	19°31	1°44	16°11	2°46	7°10	24°47	22°32	20°23	9°39	17°26	17°50	8°15	n.a.	F 27
S 28	0 13 41	1°36'59	1♈57	0°27	17°26	3°25	7°22	24°49	22°30	20°25	9°38	17°13	17°47	8°21	n.a.	S 28
S 29	0 17 37	2°37'03	14°34	29♍12	18°41	4° 4	7°34	24°50	22°28	20°27	9°38	17° 0	17°44	8°28	n.a.	S 29
M30	0 21 34	3♎37'09	27♈22	28♍ 2	19♎55	4♍42	7♏46	24♊51	22♒27	20♎29	9♒37	16♊49	17♊41	8♒35	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n52	2s20	4s50	2s14	2s21	7n38	1n16	17n20	1n12	11s41	0n47	22n50	0s44	14s37	0s48	5s57	1n55	30s57	13s35	23n20	23n16	22s45		n.a.
M 2	9 30	2n57	4 26	2 47	2 28	7 8	1 14	17 8	1 12	11 45	0 47	22 50	0 44	14 38	0 48	5 58	1 55	30 57	13 35	23 19	23 16	22 44		n.a.
T 3	9 8	8 11	3 49	3 18	2 35	6 38	1 13	16 57	1 12	11 49	0 47	22 50	0 44	14 39	0 48	5 58	1 55	30 57	13 35	23 19	23 16	22 43		n.a.
W 4	8 46	13 11	2 59	3 47	2 41	6 7	1 12	16 45	1 12	11 52	0 47	22 50	0 44	14 40	0 48	5 59	1 55	30 58	13 35	23 18	23 16	22 42		n.a.
T 5	8 23	17 40	1 59	4 16	2 48	5 36	1 11	16 33	1 12	11 56	0 46	22 51	0 44	14 40	0 48	6 0	1 55	30 58	13 35	23 18	23 15	22 41		n.a.
F 6	8 1	21 22	0 51	4 42	2 53	5 5	1 10	16 21	1 13	12 0	0 46	22 51	0 44	14 41	0 48	6 1	1 55	30 58	13 34	23 18	23 15	22 39		n.a.
S 7	7 38	23 56	0n22	5 8	2 59	4 34	1 8	16 9	1 13	12 4	0 46	22 51	0 44	14 42	0 48	6 1	1 55	30 58	13 34	23 18	23 15	22 38		n.a.
S 8	7 15	25 4	1 35	5 31	3 4	4 3	1 7	15 56	1 13	12 7	0 46	22 51	0 44	14 43	0 48	6 2	1 55	30 58	13 34	23 18	23 15	22 37		n.a.
M 9	6 52	24 32	2 44	5 52	3 9	3 32	1 5	15 44	1 13	12 11	0 46	22 51	0 44	14 43	0 48	6 3	1 55	30 59	13 34	23 18	23 14	22 36		n.a.
T 10	6 29	22 18	3 43	6 11	3 13	3 0	1 4	15 31	1 13	12 15	0 45	22 51	0 44	14 44	0 48	6 4	1 55	30 59	13 34	23 17	23 14	22 35		n.a.
W11	6 6	18 31	4 28	6 28	3 17	2 29	1 2	15 19	1 13	12 19	0 45	22 52	0 44	14 45	0 48	6 4	1 55	30 59	13 34	23 17	23 14	22 34		n.a.
T 12	5 43	13 32	4 54	6 41	3 19	1 57	1 0	15 6	1 13	12 23	0 45	22 52	0 44	14 45	0 48	6 5	1 55	30 59	13 34	23 16	23 13	22 33		n.a.
F 13	5 19	7 46	5 0	6 52	3 21	1 25	0 59	14 53	1 13	12 27	0 45	22 52	0 44	14 46	0 48	6 6	1 55	30 59	13 33	23 15	23 13	22 31		n.a.
S 14	4 56	1 41	4 46	7 0	3 22	0 54	0 57	14 40	1 13	12 31	0 45	22 52	0 44	14 47	0 48	6 7	1 55	30 59	13 33	23 14	23 13	22 30		n.a.
S 15	4 32	4s22	4 14	7 4	3 22	0 22	0 55	14 27	1 13	12 35	0 45	22 52	0 44	14 47	0 48	6 7	1 55	30 59	13 33	23 13	23 13	22 29		n.a.
M16	4 9	10 0	3 28	7 4	3 21	0s10	0 53	14 14	1 13	12 39	0 44	22 52	0 44	14 48	0 48	6 8	1 55	30 59	13 33	23 12	23 12	22 28		n.a.
T 17	3 45	15 0	2 32	7 0	3 19	0 42	0 51	14 1	1 13	12 43	0 44	22 52	0 44	14 49	0 48	6 9	1 55	31 0	13 33	23 12	23 12	22 27		n.a.
W18	3 21	19 8	1 30	6 51	3 15	1 14	0 49	13 48	1 13	12 47	0 44	22 53	0 44	14 49	0 48	6 10	1 55	31 0	13 32	23 12	23 12	22 26		n.a.
T 19	2 57	22 17	0 25	6 38	3 10	1 46	0 47	13 34	1 13	12 51	0 44	22 53	0 44	14 50	0 48	6 11	1 55	31 0	13 32	23 12	23 11	22 24		n.a.
F 20	2 34	24 18	0s40	6 20	3 3	2 17	0 45	13 21	1 13	12 55	0 44	22 53	0 44	14 51	0 48	6 11	1 55	31 0	13 32	23 12	23 11	22 23		n.a.
S 21	2 10	25 10	1 41	5 56	2 54	2 49	0 43	13 7	1 13	12 59	0 44	22 53	0 44	14 51	0 48	6 12	1 55	31 0	13 32	23 12	23 11	22 22		n.a.
S 22	1 46	24 52	2 38	5 27	2 43	3 21	0 41	12 54	1 13	13 3	0 43	22 53	0 43	14 52	0 48	6 13	1 55	31 0	13 32	23 11	23 11	22 21		n.a.
M23	1 22	23 26	3 27	4 53	2 31	3 53	0 39	12 40	1 13	13 7	0 43	22 53	0 43	14 53	0 48	6 14	1 55	31 0	13 31	23 11	23 10	22 19		n.a.
T 24	0 57	20 59	4 8	4 15	2 17	4 24	0 37	12 26	1 13	13 11	0 43	22 53	0 43	14 53	0 48	6 15	1 55	31 0	13 31	23 10	23 10	22 18		n.a.
W25	0 33	17 37	4 38	3 32	2 0	4 56	0 35	12 12	1 13	13 15	0 43	22 53	0 43	14 54	0 48	6 15	1 54	31 0	13 31	23 9	23 10	22 17		n.a.
T 26	0 9	13 30	4 55	2 46	1 43	5 27	0 32	11 58	1 13	13 19	0 43	22 53	0 43	14 54	0 48	6 16	1 54	31 0	13 31	23 8	23 9	22 16		n.a.
F 27	0s15	8 47	5 0	1 58	1 23	5 58	0 30	11 44	1 13	13 23	0 43	22 53	0 43	14 55	0 48	6 17	1 54	31 0	13 31	23 7	23 9	22 15		n.a.
S 28	0 39	3 39	4 51	1 9	1 3	6 29	0 28	11 30	1 13	13 28	0 43	22 53	0 43	14 55	0 48	6 18	1 54	31 0	13 30	23 6	23 9	22 13		n.a.
S 29	1 3	1n43	4 27	0 20	0 43	7 0	0 26	11 16	1 13	13 32	0 42	22 54	0 43	14 56	0 48	6 19	1 54	31 0	13 30	23 4	23 9	22 12		n.a.
M30	1s27	7n 6	3s49	0n27	0s22	7s31	0n23	11n 2	1n13	13s36	0n42	22n54	0s43	14s56	0s48	6s20	1n54	31s 0	13s30	23n 3	23n 8	22s11		n.a.

Julian Day Number = 1657017.5, Delta T = 03h27m50s
Ecliptic obliquity = 23°43'02, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'08, Lahiri = - 6°23'08 Julian Calendar 1 Sept. 177 BCE == Greg. Calendar 29 Aug. 177 BCE

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ASTRODIENST EPHEMERIS for the year 177 BCE
geocentric

OCTOBER 177 BCE (-176) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 25 31	4♎37'18	10♉21	26°R58	21♎10	5♍21	7♏59	24♊52	22°R25	20♎31	9°R36	16°R42	17♊37	8♒41	n.a.	T 1
W 2	0 29 27	5°37'28	23°31	26♍ 3	22°25	5°59	8°11	24°53	22♒24	20°33	9♒36	16♊37	17°34	8°48	n.a.	W 2
T 3	0 33 24	6°37'41	6♊52	25°18	23°40	6°38	8°24	24°54	22°22	20°36	9°35	16°35	17°31	8°55	n.a.	T 3
F 4	0 37 20	7°37'56	20°25	24°43	24°55	7°16	8°36	24°55	22°20	20°38	9°35	16°D34	17°28	9° 1	n.a.	F 4
S 5	0 41 17	8°38'13	4♋10	24°20	26°10	7°55	8°49	24°55	22°19	20°40	9°34	16°R35	17°25	9° 8	n.a.	S 5
S 6	0 45 13	9°38'32	18°10	24°D 9	27°25	8°34	9° 2	24°56	22°18	20°42	9°33	16°35	17°21	9°15	n.a.	S 6
M 7	0 49 10	10°38'53	2♌23	24° 9	28°40	9°12	9°14	24°56	22°16	20°44	9°33	16°33	17°18	9°22	n.a.	M 7
T 8	0 53 6	11°39'17	16°48	24°20	29°55	9°51	9°27	24°57	22°15	20°47	9°32	16°28	17°15	9°28	n.a.	T 8
W 9	0 57 3	12°39'42	1♍21	24°42	1♏ 9	10°29	9°40	24°57	22°14	20°49	9°32	16°21	17°12	9°35	n.a.	W 9
T 10	1 1 0	13°40'10	15°58	25°13	2°24	11° 8	9°53	24°R57	22°12	20°51	9°32	16°12	17° 9	9°42	n.a.	T 10
F 11	1 4 56	14°40'39	0♎31	25°53	3°39	11°47	10° 6	24°57	22°11	20°53	9°31	16° 2	17° 6	9°48	n.a.	F 11
S 12	1 8 53	15°41'10	14°53	26°40	4°54	12°25	10°18	24°57	22°10	20°56	9°31	15°52	17° 2	9°55	n.a.	S 12
S 13	1 12 49	16°41'43	28°58	27°34	6° 9	13° 4	10°31	24°56	22° 9	20°58	9°30	15°43	16°59	10° 2	n.a.	S 13
M14	1 16 46	17°42'17	12♏41	28°35	7°24	13°43	10°45	24°56	22° 8	21° 0	9°30	15°36	16°56	10° 8	n.a.	M14
T 15	1 20 42	18°42'53	25°59	29°40	8°39	14°21	10°58	24°56	22° 7	21° 2	9°30	15°32	16°53	10°15	n.a.	T 15
W16	1 24 39	19°43'31	8♐54	0♎50	9°54	15° 0	11°11	24°55	22° 6	21° 5	9°29	15°30	16°50	10°22	n.a.	W16
T 17	1 28 35	20°44'10	21°27	2° 4	11° 8	15°39	11°24	24°54	22° 5	21° 7	9°29	15°D30	16°46	10°28	n.a.	T 17
F 18	1 32 32	21°44'50	3♑41	3°22	12°23	16°18	11°37	24°53	22° 4	21° 9	9°29	15°31	16°43	10°35	n.a.	F 18
S 19	1 36 28	22°45'31	15°43	4°42	13°38	16°56	11°50	24°52	22° 3	21°11	9°29	15°32	16°40	10°42	n.a.	S 19
S 20	1 40 25	23°46'14	27°36	6° 4	14°53	17°35	12° 4	24°51	22° 2	21°14	9°29	15°R32	16°37	10°49	n.a.	S 20
M21	1 44 22	24°46'58	9♒26	7°29	16° 8	18°14	12°17	24°50	22° 2	21°16	9°28	15°31	16°34	10°55	n.a.	M21
T 22	1 48 18	25°47'43	21°18	8°55	17°22	18°52	12°30	24°49	22° 1	21°18	9°28	15°27	16°31	11° 2	n.a.	T 22
W23	1 52 15	26°48'30	3♓17	10°23	18°37	19°31	12°43	24°48	22° 0	21°20	9°28	15°22	16°27	11° 9	n.a.	W23
T 24	1 56 11	27°49'17	15°27	11°52	19°52	20°10	12°57	24°46	22° 0	21°23	9°28	15°14	16°24	11°15	n.a.	T 24
F 25	2 0 8	28°50'06	27°50	13°21	21° 7	20°49	13°10	24°44	21°59	21°25	9°28	15° 6	16°21	11°22	n.a.	F 25
S 26	2 4 4	29°50'56	10♈28	14°52	22°22	21°27	13°24	24°43	21°59	21°27	9°28	14°57	16°18	11°29	n.a.	S 26
S 27	2 8 1	0♏51'47	23°22	16°23	23°36	22° 6	13°37	24°41	21°58	21°29	9°D28	14°49	16°15	11°35	n.a.	S 27
M28	2 11 57	1°52'39	6♉30	17°55	24°51	22°45	13°51	24°39	21°58	21°32	9°28	14°42	16°12	11°42	n.a.	M28
T 29	2 15 54	2°53'33	19°53	19°27	26° 6	23°24	14° 4	24°37	21°58	21°34	9°28	14°38	16° 8	11°49	n.a.	T 29
W30	2 19 51	3°54'28	3♊27	21° 0	27°20	24° 3	14°18	24°35	21°57	21°36	9°28	14°35	16° 5	11°56	n.a.	W30
T 31	2 23 47	4♏55'25	17♊11	22♎32	28♏35	24♍41	14♏31	24♊33	21♒57	21♎38	9♒28	14°D34	16♊ 2	12♒ 2	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	1s51	12n16	2s59	1n11	0s 2	8s 2	0n21	10n47	1n13	13s40	0n42	22n54	0s43	14s57	0s48	6s21	1n54	31s 0	13s30	23n 3	23n 8	22s 9		n.a.
W 2	2 16	16 57	1 59	1 52	0n18	8 32	0 18	10 33	1 13	13 44	0 42	22 54	0 43	14 57	0 48	6 21	1 54	31 0	13 29	23 2	23 8	22 8		n.a.
T 3	2 40	20 52	0 51	2 27	0 36	9 3	0 16	10 19	1 13	13 48	0 42	22 54	0 43	14 58	0 48	6 22	1 54	31 0	13 29	23 2	23 7	22 7		n.a.
F 4	3 4	23 42	0n20	2 56	0 53	9 33	0 13	10 4	1 13	13 53	0 42	22 54	0 43	14 58	0 48	6 23	1 54	31 0	13 29	23 2	23 7	22 6		n.a.
S 5	3 28	25 11	1 32	3 20	1 9	10 3	0 11	9 49	1 13	13 57	0 42	22 54	0 43	14 59	0 47	6 24	1 54	31 0	13 29	23 2	23 7	22 4		n.a.
S 6	3 52	25 6	2 40	3 37	1 23	10 32	0 8	9 35	1 13	14 1	0 41	22 54	0 43	14 59	0 47	6 25	1 54	30 59	13 28	23 2	23 7	22 3		n.a.
M 7	4 16	23 24	3 38	3 48	1 35	11 2	0 6	9 20	1 13	14 5	0 41	22 54	0 43	15 0	0 47	6 26	1 54	30 59	13 28	23 2	23 6	22 2		n.a.
T 8	4 40	20 10	4 24	3 53	1 45	11 31	0 3	9 5	1 13	14 10	0 41	22 54	0 43	15 0	0 47	6 26	1 54	30 59	13 28	23 1	23 6	22 0		n.a.
W 9	5 3	15 40	4 53	3 52	1 54	12 0	0 1	8 50	1 13	14 14	0 41	22 54	0 43	15 1	0 47	6 27	1 54	30 59	13 28	23 1	23 6	21 59		n.a.
T 10	5 27	10 15	5 3	3 46	2 1	12 28	0s 2	8 36	1 13	14 18	0 41	22 54	0 43	15 1	0 47	6 28	1 54	30 59	13 27	23 0	23 5	21 58		n.a.
F 11	5 51	4 17	4 54	3 36	2 7	12 57	0 4	8 21	1 13	14 22	0 41	22 54	0 43	15 1	0 47	6 29	1 54	30 59	13 27	22 59	23 5	21 56		n.a.
S 12	6 15	1s51	4 26	3 20	2 11	13 25	0 7	8 6	1 13	14 26	0 41	22 54	0 43	15 2	0 47	6 30	1 54	30 59	13 27	22 57	23 5	21 55		n.a.
S 13	6 38	7 47	3 42	3 1	2 14	13 52	0 9	7 51	1 13	14 31	0 40	22 54	0 43	15 2	0 47	6 31	1 54	30 59	13 27	22 57	23 4	21 54		n.a.
M14	7 2	13 11	2 46	2 38	2 15	14 20	0 12	7 35	1 13	14 35	0 40	22 54	0 43	15 2	0 47	6 32	1 54	30 58	13 26	22 56	23 4	21 52		n.a.
T 15	7 25	17 49	1 43	2 13	2 16	14 47	0 15	7 20	1 12	14 39	0 40	22 54	0 43	15 3	0 47	6 32	1 54	30 58	13 26	22 55	23 4	21 51		n.a.
W16	7 48	21 27	0 35	1 44	2 16	15 13	0 17	7 5	1 12	14 43	0 40	22 54	0 43	15 3	0 47	6 33	1 54	30 58	13 26	22 55	23 3	21 50		n.a.
T 17	8 11	23 58	0s32	1 13	2 15	15 39	0 20	6 50	1 12	14 48	0 40	22 54	0 43	15 3	0 47	6 34	1 54	30 58	13 26	22 55	23 3	21 48		n.a.
F 18	8 34	25 16	1 36	0 40	2 13	16 5	0 22	6 35	1 12	14 52	0 40	22 54	0 43	15 3	0 47	6 35	1 54	30 58	13 25	22 55	23 3	21 47		n.a.
S 19	8 57	25 21	2 35	0 6	2 10	16 31	0 25	6 19	1 12	14 56	0 40	22 54	0 43	15 4	0 47	6 36	1 54	30 57	13 25	22 55	23 2	21 45		n.a.
S 20	9 20	24 15	3 27	0s30	2 7	16 56	0 27	6 4	1 12	15 0	0 40	22 54	0 43	15 4	0 47	6 37	1 54	30 57	13 25	22 55	23 2	21 44		n.a.
M21	9 42	22 6	4 9	1 8	2 3	17 20	0 30	5 49	1 12	15 4	0 39	22 54	0 43	15 4	0 47	6 38	1 54	30 57	13 24	22 55	23 2	21 43		n.a.
T 22	10 5	18 59	4 41	1 46	1 59	17 44	0 33	5 33	1 12	15 9	0 39	22 54	0 43	15 4	0 47	6 38	1 54	30 57	13 24	22 55	23 1	21 41		n.a.
W23	10 27	15 4	5 1	2 25	1 54	18 8	0 35	5 18	1 12	15 13	0 39	22 54	0 43	15 4	0 47	6 39	1 54	30 57	13 24	22 54	23 1	21 40		n.a.
T 24	10 49	10 31	5 7	3 5	1 49	18 31	0 38	5 2	1 12	15 17	0 39	22 54	0 43	15 5	0 47	6 40	1 54	30 56	13 24	22 53	23 1	21 38		n.a.
F 25	11 11	5 27	5 0	3 45	1 43	18 53	0 40	4 47	1 12	15 21	0 39	22 54	0 43	15 5	0 47	6 41	1 54	30 56	13 23	22 52	23 0	21 37		n.a.
S 26	11 33	0 4	4 38	4 25	1 38	19 16	0 43	4 31	1 12	15 25	0 39	22 54	0 43	15 5	0 47	6 42	1 54	30 56	13 23	22 51	23 0	21 36		n.a.
S 27	11 54	5n27	4 1	5 6	1 32	19 37	0 45	4 16	1 11	15 30	0 39	22 54	0 43	15 5	0 47	6 43	1 54	30 56	13 23	22 50	23 0	21 34		n.a.
M28	12 16	10 50	3 11	5 47	1 26	19 58	0 48	4 0	1 11	15 34	0 39	22 54	0 43	15 5	0 47	6 43	1 54	30 55	13 22	22 50	23 0	21 33		n.a.
T 29	12 37	15 50	2 10	6 28	1 20	20 19	0 50	3 44	1 11	15 38	0 39	22 54	0 43	15 5	0 47	6 44	1 54	30 55	13 22	22 49	22 59	21 31		n.a.
W30	12 58	20 6	1 0	7 9	1 13	20 39	0 52	3 29	1 11	15 42	0 39	22 54	0 43	15 5	0 47	6 45	1 54	30 55	13 22	22 49	22 59	21 30		n.a.
T 31	13s19	23n20	0n14	7s50	1n 7	20s58	0s55	3n13	1n11	15s46	0n38	22n54	0s43	15s 5	0s47	6s46	1n54	30s54	13s22	22n49	22n59	21s28		n.a.

Julian Day Number = 1657047.5, Delta T = 03h27m49s
Ecliptic obliquity = 23°43'02, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'04, Lahiri = - 6°23'04 Julian Calendar 1 Oct. 177 BCE == Greg. Calendar 28 Sept. 177 BCE

The year -176 astronomical counting style corresponds to year 177 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 177 BCE
geocentric

NOVEMBER 177 BCE (-176) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 27 44	5♏56'23	1♋ 3	24♎ 5	29♏50	25♍20	14♏45	24°R30	21°R57	21♎40	9♒28	14♊35	15♊59	12♒ 9	n.a.	F 1
S 2	2 31 40	6°57'22	15° 1	25°38	1♐ 4	25°59	14°58	24♊28	21♒57	21°43	9°28	14°37	15°56	12°16	n.a.	S 2
S 3	2 35 37	7°58'23	29° 6	27°12	2°19	26°38	15°12	24°25	21°57	21°45	9°29	14°38	15°52	12°22	n.a.	S 3
M 4	2 39 33	8°59'24	13♌14	28°45	3°34	27°17	15°26	24°23	21°D57	21°47	9°29	14°R38	15°49	12°29	n.a.	M 4
T 5	2 43 30	10° 0'28	27°25	0♏19	4°48	27°56	15°39	24°20	21°57	21°49	9°29	14°37	15°46	12°36	n.a.	T 5
W 6	2 47 27	11° 1'32	11♍36	1°52	6° 3	28°34	15°53	24°17	21°57	21°51	9°29	14°34	15°43	12°42	n.a.	W 6
T 7	2 51 23	12° 2'38	25°45	3°26	7°18	29°13	16° 6	24°14	21°57	21°54	9°29	14°30	15°40	12°49	n.a.	T 7
F 8	2 55 20	13° 3'45	9♎49	4°59	8°32	29°52	16°20	24°11	21°57	21°56	9°30	14°25	15°37	12°56	n.a.	F 8
S 9	2 59 16	14° 4'52	23°43	6°33	9°47	0♎31	16°34	24° 8	21°57	21°58	9°30	14°20	15°33	13° 3	n.a.	S 9
S 10	3 3 13	15° 6'01	7♏23	8° 7	11° 1	1°10	16°47	24° 5	21°57	22° 0	9°30	14°15	15°30	13° 9	n.a.	S 10
M11	3 7 9	16° 7'11	20°47	9°40	12°16	1°49	17° 1	24° 1	21°58	22° 2	9°31	14°12	15°27	13°16	n.a.	M11
T 12	3 11 6	17° 8'21	3♐53	11°14	13°30	2°28	17°15	23°58	21°58	22° 4	9°31	14°10	15°24	13°23	n.a.	T 12
W13	3 15 2	18° 9'32	16°41	12°48	14°45	3° 7	17°28	23°54	21°59	22° 6	9°32	14°D10	15°21	13°29	n.a.	W13
T 14	3 18 59	19°10'44	29°11	14°22	16° 0	3°46	17°42	23°51	21°59	22° 8	9°32	14°11	15°18	13°36	n.a.	T 14
F 15	3 22 56	20°11'56	11♑25	15°56	17°14	4°24	17°56	23°47	22° 0	22°10	9°32	14°12	15°14	13°43	n.a.	F 15
S 16	3 26 52	21°13'09	23°28	17°30	18°29	5° 3	18°10	23°44	22° 0	22°12	9°33	14°14	15°11	13°49	n.a.	S 16
S 17	3 30 49	22°14'22	5♒22	19° 4	19°43	5°42	18°23	23°40	22° 1	22°14	9°34	14°16	15° 8	13°56	n.a.	S 17
M18	3 34 45	23°15'35	17°13	20°39	20°57	6°21	18°37	23°36	22° 1	22°16	9°34	14°17	15° 5	14° 3	n.a.	M18
T 19	3 38 42	24°16'48	29° 5	22°13	22°12	7° 0	18°51	23°32	22° 2	22°18	9°35	14°R17	15° 2	14°10	n.a.	T 19
W20	3 42 38	25°18'02	11♓ 4	23°48	23°26	7°39	19° 4	23°28	22° 3	22°20	9°35	14°16	14°58	14°16	n.a.	W20
T 21	3 46 35	26°19'15	23°14	25°23	24°41	8°18	19°18	23°24	22° 4	22°22	9°36	14°14	14°55	14°23	n.a.	T 21
F 22	3 50 31	27°20'29	5♈39	26°58	25°55	8°57	19°31	23°20	22° 5	22°24	9°36	14°12	14°52	14°30	n.a.	F 22
S 23	3 54 28	28°21'43	18°23	28°33	27° 9	9°36	19°45	23°15	22° 6	22°26	9°37	14° 9	14°49	14°36	n.a.	S 23
S 24	3 58 25	29°22'57	1♉26	0♐ 9	28°24	10°15	19°59	23°11	22° 7	22°28	9°38	14° 7	14°46	14°43	n.a.	S 24
M25	4 2 21	0♐24'11	14°50	1°44	29°38	10°54	20°12	23° 7	22° 8	22°30	9°39	14° 5	14°43	14°50	n.a.	M25
T 26	4 6 18	1°25'25	28°33	3°20	0♑52	11°33	20°26	23° 2	22° 9	22°32	9°39	14° 4	14°39	14°57	n.a.	T 26
W27	4 10 14	2°26'39	12♊34	4°57	2° 6	12°12	20°39	22°58	22°10	22°34	9°40	14°D 3	14°36	15° 3	n.a.	W27
T 28	4 14 11	3°27'54	26°46	6°33	3°20	12°51	20°53	22°54	22°11	22°36	9°41	14° 4	14°33	15°10	n.a.	T 28
F 29	4 18 7	4°29'09	11♋ 8	8°10	4°35	13°30	21° 6	22°49	22°12	22°37	9°42	14° 4	14°30	15°17	n.a.	F 29
S 30	4 22 4	5♐30'24	25♋32	9♐47	5♑49	14♎ 9	21♏20	22♊44	22♒14	22♎39	9♒42	14♊ 5	14♊27	15♒23	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13s39	25n11	1n28	8s31	1n 0	21s17	0s57	2n57	1n11	15s50	0n38	22n54	0s42	15s 5	0s47	6s47	1n54	30s54	13s21	22n49	22n58	21s27		n.a.
S 2	14 0	25 29	2 38	9 12	0 53	21 35	0 59	2 42	1 11	15 54	0 38	22 54	0 42	15 5	0 47	6 48	1 54	30 54	13 21	22 49	22 58	21 25		n.a.
S 3	14 20	24 8	3 39	9 52	0 47	21 52	1 2	2 26	1 11	15 59	0 38	22 54	0 42	15 5	0 46	6 48	1 54	30 53	13 21	22 49	22 57	21 24		n.a.
M 4	14 40	21 17	4 26	10 32	0 40	22 9	1 4	2 10	1 10	16 3	0 38	22 53	0 42	15 5	0 46	6 49	1 54	30 53	13 20	22 49	22 57	21 22		n.a.
T 5	14 59	17 10	4 58	11 12	0 33	22 26	1 6	1 54	1 10	16 7	0 38	22 53	0 42	15 5	0 46	6 50	1 54	30 53	13 20	22 49	22 57	21 21		n.a.
W 6	15 19	12 5	5 11	11 51	0 26	22 41	1 8	1 39	1 10	16 11	0 38	22 53	0 42	15 5	0 46	6 51	1 54	30 52	13 20	22 49	22 56	21 20		n.a.
T 7	15 38	6 22	5 6	12 30	0 19	22 56	1 10	1 23	1 10	16 15	0 38	22 53	0 42	15 5	0 46	6 52	1 54	30 52	13 19	22 48	22 56	21 18		n.a.
F 8	15 56	0 23	4 42	13 8	0 13	23 11	1 13	1 7	1 10	16 19	0 38	22 53	0 42	15 5	0 46	6 52	1 54	30 52	13 19	22 48	22 56	21 17		n.a.
S 9	16 15	5s34	4 2	13 46	0 6	23 24	1 15	0 51	1 10	16 23	0 38	22 53	0 42	15 5	0 46	6 53	1 54	30 51	13 19	22 47	22 55	21 15		n.a.
S 10	16 33	11 11	3 8	14 23	0s 1	23 37	1 17	0 36	1 10	16 27	0 37	22 53	0 42	15 5	0 46	6 54	1 55	30 51	13 19	22 47	22 55	21 13		n.a.
M11	16 51	16 9	2 5	15 0	0 8	23 50	1 19	0 20	1 9	16 31	0 37	22 53	0 42	15 5	0 46	6 55	1 55	30 51	13 18	22 46	22 55	21 12		n.a.
T 12	17 9	20 15	0 56	15 36	0 14	24 1	1 21	0 4	1 9	16 35	0 37	22 53	0 42	15 4	0 46	6 55	1 55	30 50	13 18	22 46	22 54	21 10		n.a.
W13	17 26	23 16	0s14	16 11	0 21	24 12	1 22	0s12	1 9	16 39	0 37	22 53	0 42	15 4	0 46	6 56	1 55	30 50	13 18	22 46	22 54	21 9		n.a.
T 14	17 43	25 5	1 22	16 46	0 27	24 22	1 24	0 28	1 9	16 43	0 37	22 53	0 42	15 4	0 46	6 57	1 55	30 49	13 17	22 46	22 54	21 7		n.a.
F 15	18 0	25 37	2 24	17 20	0 33	24 31	1 26	0 43	1 9	16 47	0 37	22 52	0 42	15 4	0 46	6 58	1 55	30 49	13 17	22 46	22 53	21 6		n.a.
S 16	18 16	24 56	3 20	17 53	0 40	24 40	1 28	0 59	1 8	16 51	0 37	22 52	0 42	15 4	0 46	6 58	1 55	30 49	13 17	22 46	22 53	21 4		n.a.
S 17	18 32	23 7	4 6	18 26	0 46	24 48	1 29	1 15	1 8	16 55	0 37	22 52	0 42	15 3	0 46	6 59	1 55	30 48	13 17	22 47	22 53	21 3		n.a.
M18	18 48	20 19	4 41	18 57	0 52	24 55	1 31	1 31	1 8	16 59	0 37	22 52	0 42	15 3	0 46	7 0	1 55	30 48	13 16	22 47	22 52	21 1		n.a.
T 19	19 4	16 40	5 5	19 28	0 58	25 2	1 33	1 46	1 8	17 2	0 37	22 52	0 42	15 3	0 46	7 1	1 55	30 47	13 16	22 47	22 52	21 0		n.a.
W20	19 19	12 20	5 15	19 58	1 3	25 7	1 34	2 2	1 8	17 6	0 37	22 52	0 41	15 3	0 46	7 1	1 55	30 47	13 16	22 47	22 52	20 58		n.a.
T 21	19 33	7 28	5 12	20 27	1 9	25 12	1 36	2 18	1 7	17 10	0 37	22 52	0 41	15 2	0 46	7 2	1 55	30 46	13 16	22 46	22 51	20 56		n.a.
F 22	19 48	2 13	4 54	20 55	1 14	25 16	1 37	2 34	1 7	17 14	0 36	22 52	0 41	15 2	0 46	7 3	1 55	30 46	13 15	22 46	22 51	20 55		n.a.
S 23	20 2	3n16	4 21	21 21	1 19	25 19	1 38	2 49	1 7	17 18	0 36	22 51	0 41	15 2	0 46	7 3	1 55	30 46	13 15	22 46	22 50	20 53		n.a.
S 24	20 15	8 46	3 34	21 47	1 24	25 22	1 39	3 5	1 7	17 21	0 36	22 51	0 41	15 1	0 46	7 4	1 55	30 45	13 15	22 46	22 50	20 52		n.a.
M25	20 28	14 1	2 35	22 12	1 29	25 24	1 41	3 21	1 7	17 25	0 36	22 51	0 41	15 1	0 46	7 5	1 55	30 45	13 14	22 45	22 50	20 50		n.a.
T 26	20 41	18 41	1 25	22 36	1 34	25 25	1 42	3 36	1 6	17 29	0 36	22 51	0 41	15 0	0 46	7 5	1 55	30 44	13 14	22 45	22 49	20 48		n.a.
W27	20 53	22 26	0 8	22 58	1 38	25 25	1 43	3 52	1 6	17 33	0 36	22 51	0 41	15 0	0 46	7 6	1 55	30 44	13 14	22 45	22 49	20 47		n.a.
T 28	21 5	24 51	1n10	23 20	1 42	25 24	1 44	4 7	1 6	17 36	0 36	22 51	0 41	15 0	0 46	7 7	1 55	30 43	13 14	22 45	22 49	20 45		n.a.
F 29	21 17	25 39	2 24	23 40	1 46	25 23	1 45	4 23	1 5	17 40	0 36	22 50	0 41	14 59	0 45	7 7	1 55	30 43	13 13	22 45	22 48	20 44		n.a.
S 30	21s28	24n43	3n30	23s59	1s50	25s21	1s46	4s38	1n 5	17s44	0n36	22n50	0s41	14s59	0s45	7s 8	1n55	30s42	13s13	22n45	22n48	20s42		n.a.

Julian Day Number = 1657078.5, Delta T = 03h27m48s
Ecliptic obliquity = 23°43'02, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°30'00, Lahiri = - 6°23'00 Julian Calendar 1 Nov. 177 BCE == Greg. Calendar 29 Oct. 177 BCE

The year -176 astronomical counting style corresponds to year 177 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 177 BCE
geocentric

DECEMBER 177 BCE (-176) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 26 0	6♐31'40	9♌56	11♐24	7♉ 3	14♎48	21♏33	22°R40	22♒15	22♎41	9♒43	14♊ 6	14♊24	15♒30	n.a.	S 1
M 2	4 29 57	7°32'55	24°14	13° 2	8°17	15°27	21°47	22♊35	22°16	22°43	9°44	14° 6	14°20	15°37	n.a.	M 2
T 3	4 33 54	8°34'11	8♍25	14°40	9°31	16° 6	22° 0	22°30	22°18	22°44	9°45	14°R 7	14°17	15°43	n.a.	T 3
W 4	4 37 50	9°35'27	22°27	16°18	10°45	16°45	22°14	22°26	22°19	22°46	9°46	14° 6	14°14	15°50	n.a.	W 4
T 5	4 41 47	10°36'43	6♎17	17°57	11°59	17°24	22°27	22°21	22°21	22°48	9°47	14° 6	14°11	15°57	n.a.	T 5
F 6	4 45 43	11°37'59	19°55	19°35	13°13	18° 3	22°41	22°16	22°22	22°49	9°48	14° 6	14° 8	16° 4	n.a.	F 6
S 7	4 49 40	12°39'15	3♏21	21°14	14°27	18°42	22°54	22°11	22°24	22°51	9°49	14° 6	14° 4	16°10	n.a.	S 7
S 8	4 53 36	13°40'31	16°33	22°53	15°41	19°21	23° 7	22° 6	22°26	22°53	9°50	14°D 5	14° 1	16°17	n.a.	S 8
M 9	4 57 33	14°41'48	29°33	24°33	16°54	20° 0	23°20	22° 1	22°27	22°54	9°51	14° 5	13°58	16°24	n.a.	M 9
T 10	5 1 30	15°43'03	12♐19	26°12	18° 8	20°39	23°34	21°56	22°29	22°56	9°52	14°R 6	13°55	16°30	n.a.	T 10
W11	5 5 26	16°44'19	24°52	27°51	19°22	21°18	23°47	21°51	22°31	22°57	9°53	14° 5	13°52	16°37	n.a.	W11
T 12	5 9 23	17°45'34	7♑12	29°31	20°36	21°57	24° 0	21°46	22°33	22°59	9°54	14° 5	13°49	16°44	n.a.	T 12
F 13	5 13 19	18°46'48	19°22	1♑10	21°49	22°36	24°13	21°42	22°35	23° 0	9°55	14° 5	13°45	16°51	n.a.	F 13
S 14	5 17 16	19°48'02	1♒22	2°48	23° 3	23°15	24°26	21°37	22°37	23° 2	9°56	14° 4	13°42	16°57	n.a.	S 14
S 15	5 21 12	20°49'15	13°16	4°27	24°17	23°54	24°39	21°32	22°39	23° 3	9°57	14° 3	13°39	17° 4	n.a.	S 15
M16	5 25 9	21°50'27	25° 7	6° 4	25°30	24°33	24°52	21°27	22°41	23° 4	9°59	14° 2	13°36	17°11	n.a.	M16
T 17	5 29 5	22°51'38	6♓59	7°41	26°44	25°12	25° 5	21°22	22°43	23° 6	10° 0	14° 1	13°33	17°17	n.a.	T 17
W18	5 33 2	23°52'48	18°56	9°16	27°57	25°51	25°18	21°17	22°45	23° 7	10° 1	14°D 1	13°30	17°24	n.a.	W18
T 19	5 36 59	24°53'58	1♈ 3	10°50	29°11	26°30	25°31	21°12	22°47	23° 8	10° 2	14° 1	13°26	17°31	n.a.	T 19
F 20	5 40 55	25°55'06	13°24	12°22	0♒24	27° 9	25°43	21° 7	22°49	23°10	10° 3	14° 2	13°23	17°38	n.a.	F 20
S 21	5 44 52	26°56'13	26° 5	13°52	1°37	27°48	25°56	21° 2	22°51	23°11	10° 5	14° 2	13°20	17°44	n.a.	S 21
S 22	5 48 48	27°57'19	9♉ 8	15°19	2°50	28°27	26° 9	20°57	22°54	23°12	10° 6	14° 4	13°17	17°51	n.a.	S 22
M23	5 52 45	28°58'25	22°35	16°43	4° 4	29° 6	26°22	20°52	22°56	23°13	10° 7	14° 5	13°14	17°58	n.a.	M23
T 24	5 56 41	29°59'29	6♊28	18° 3	5°17	29°45	26°34	20°47	22°58	23°15	10° 8	14° 6	13°10	18° 4	n.a.	T 24
W25	6 0 38	1♑ 0'32	20°45	19°19	6°30	0♏24	26°47	20°42	23° 1	23°16	10°10	14°R 6	13° 7	18°11	n.a.	W25
T 26	6 4 34	2° 1'34	5♋21	20°29	7°43	1° 3	26°59	20°37	23° 3	23°17	10°11	14° 5	13° 4	18°18	n.a.	T 26
F 27	6 8 31	3° 2'35	20°10	21°33	8°56	1°42	27°11	20°33	23° 6	23°18	10°12	14° 3	13° 1	18°25	n.a.	F 27
S 28	6 12 28	4° 3'35	5♌ 5	22°30	10° 8	2°21	27°24	20°28	23° 8	23°19	10°14	14° 0	12°58	18°31	n.a.	S 28
S 29	6 16 24	5° 4'35	19°56	23°19	11°21	3° 0	27°36	20°23	23°11	23°20	10°15	13°58	12°55	18°38	n.a.	S 29
M30	6 20 21	6° 5'33	4♍37	24° 0	12°34	3°39	27°48	20°18	23°13	23°21	10°17	13°55	12°51	18°45	n.a.	M30
T 31	6 24 17	7♑ 6'30	19♍ 2	24♑32	13♒47	4♏18	28♏ 0	20♊14	23♒16	23♎22	10♒18	13♊53	12♊48	18♒51	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	21s39	22n10	4n23	24s16	1s53	25s18	1s46	4s54	1n 5	17s47	0n36	22n50	0s41	14s58	0s45	7s 9	1n55	30s42	13s13	22n45	22n48	20s40			n.a.
M 2	21 49	18 16	4 58	24 32	1 56	25 14	1 47	5 9	1 5	17 51	0 36	22 50	0 41	14 58	0 45	7 9	1 55	30 41	13 13	22 46	22 47	20 39			n.a.
T 3	21 59	13 22	5 16	24 47	1 58	25 10	1 48	5 25	1 4	17 54	0 36	22 50	0 40	14 57	0 45	7 10	1 55	30 41	13 12	22 46	22 47	20 37			n.a.
W 4	22 9	7 49	5 14	25 0	2 1	25 4	1 48	5 40	1 4	17 58	0 36	22 50	0 40	14 57	0 45	7 10	1 55	30 40	13 12	22 46	22 46	20 35			n.a.
T 5	22 18	1 58	4 54	25 12	2 3	24 58	1 49	5 56	1 4	18 1	0 36	22 49	0 40	14 56	0 45	7 11	1 55	30 40	13 12	22 45	22 46	20 34			n.a.
F 6	22 26	3s54	4 17	25 22	2 4	24 52	1 49	6 11	1 4	18 5	0 36	22 49	0 40	14 56	0 45	7 11	1 55	30 39	13 12	22 45	22 46	20 32			n.a.
S 7	22 35	9 32	3 27	25 30	2 5	24 44	1 49	6 26	1 3	18 8	0 35	22 49	0 40	14 55	0 45	7 12	1 56	30 39	13 11	22 45	22 45	20 30			n.a.
S 8	22 42	14 38	2 27	25 37	2 6	24 36	1 49	6 41	1 3	18 12	0 35	22 49	0 40	14 54	0 45	7 13	1 56	30 38	13 11	22 45	22 45	20 29			n.a.
M 9	22 50	18 59	1 20	25 42	2 6	24 27	1 50	6 57	1 3	18 15	0 35	22 49	0 40	14 54	0 45	7 13	1 56	30 38	13 11	22 45	22 45	20 27			n.a.
T 10	22 56	22 22	0 10	25 46	2 6	24 17	1 50	7 12	1 2	18 19	0 35	22 48	0 40	14 53	0 45	7 14	1 56	30 37	13 11	22 45	22 44	20 25			n.a.
W11	23 3	24 36	0s59	25 47	2 5	24 7	1 50	7 27	1 2	18 22	0 35	22 48	0 40	14 53	0 45	7 14	1 56	30 37	13 11	22 45	22 44	20 24			n.a.
T 12	23 9	25 36	2 5	25 47	2 4	23 55	1 50	7 42	1 2	18 25	0 35	22 48	0 40	14 52	0 45	7 15	1 56	30 36	13 10	22 45	22 43	20 22			n.a.
F 13	23 14	25 20	3 3	25 45	2 2	23 43	1 49	7 57	1 1	18 29	0 35	22 48	0 39	14 51	0 45	7 15	1 56	30 36	13 10	22 45	22 43	20 20			n.a.
S 14	23 19	23 52	3 53	25 41	2 0	23 31	1 49	8 12	1 1	18 32	0 35	22 48	0 39	14 51	0 45	7 16	1 56	30 35	13 10	22 45	22 43	20 18			n.a.
S 15	23 24	21 22	4 32	25 35	1 57	23 18	1 49	8 27	1 0	18 35	0 35	22 47	0 39	14 50	0 45	7 16	1 56	30 35	13 10	22 45	22 42	20 17			n.a.
M16	23 28	17 59	5 0	25 27	1 53	23 4	1 48	8 41	1 0	18 38	0 35	22 47	0 39	14 49	0 45	7 17	1 56	30 34	13 9	22 45	22 42	20 15			n.a.
T 17	23 31	13 54	5 14	25 17	1 48	22 49	1 48	8 56	1 0	18 42	0 35	22 47	0 39	14 49	0 45	7 17	1 56	30 33	13 9	22 45	22 41	20 13			n.a.
W18	23 34	9 15	5 16	25 6	1 43	22 34	1 47	9 11	0 59	18 45	0 35	22 47	0 39	14 48	0 45	7 18	1 56	30 33	13 9	22 45	22 41	20 11			n.a.
T 19	23 37	4 12	5 3	24 53	1 37	22 18	1 46	9 25	0 59	18 48	0 35	22 47	0 39	14 47	0 45	7 18	1 56	30 32	13 9	22 45	22 41	20 10			n.a.
F 20	23 39	1n 7	4 36	24 38	1 30	22 1	1 46	9 40	0 59	18 51	0 35	22 46	0 39	14 46	0 45	7 18	1 56	30 32	13 9	22 45	22 40	20 8			n.a.
S 21	23 41	6 32	3 56	24 21	1 22	21 44	1 45	9 55	0 58	18 54	0 35	22 46	0 39	14 46	0 45	7 19	1 56	30 31	13 9	22 45	22 40	20 6			n.a.
S 22	23 42	11 50	3 2	24 2	1 13	21 26	1 44	10 9	0 58	18 57	0 35	22 46	0 38	14 45	0 45	7 19	1 56	30 31	13 8	22 45	22 39	20 4			n.a.
M23	23 43	16 46	1 56	23 43	1 4	21 8	1 43	10 23	0 57	19 0	0 35	22 46	0 38	14 44	0 45	7 20	1 56	30 30	13 8	22 45	22 39	20 3			n.a.
T 24	23 43	20 57	0 42	23 22	0 53	20 49	1 42	10 38	0 57	19 3	0 35	22 45	0 38	14 43	0 45	7 20	1 56	30 30	13 8	22 45	22 39	20 1			n.a.
W25	23 43	24 0	0n37	23 0	0 42	20 29	1 40	10 52	0 56	19 6	0 35	22 45	0 38	14 42	0 45	7 20	1 57	30 29	13 8	22 45	22 38	19 59			n.a.
T 26	23 42	25 31	1 55	22 37	0 29	20 9	1 39	11 6	0 56	19 9	0 35	22 45	0 38	14 42	0 45	7 21	1 57	30 29	13 8	22 45	22 38	19 57			n.a.
F 27	23 41	25 15	3 6	22 13	0 15	19 48	1 38	11 20	0 56	19 12	0 34	22 45	0 38	14 41	0 45	7 21	1 57	30 28	13 7	22 45	22 37	19 56			n.a.
S 28	23 39	23 11	4 5	21 50	0 1	19 27	1 36	11 34	0 55	19 15	0 34	22 45	0 38	14 40	0 45	7 21	1 57	30 27	13 7	22 45	22 37	19 54			n.a.
S 29	23 37	19 33	4 48	21 26	0n14	19 5	1 35	11 48	0 55	19 18	0 34	22 44	0 38	14 39	0 45	7 22	1 57	30 27	13 7	22 44	22 37	19 52			n.a.
M30	23 34	14 44	5 11	21 3	0 31	18 43	1 33	12 2	0 54	19 21	0 34	22 44	0 37	14 38	0 44	7 22	1 57	30 26	13 7	22 44	22 36	19 50			n.a.
T 31	23s31	9n11	5n13	20s41	0n48	18s20	1s31	12s16	0n54	19s23	0n34	22n44	0s37	14s37	0s44	7s22	1n57	30s26	13s 7	22n44	22n36	19s48			n.a.

Julian Day Number = 1657108.5, Delta T = 03h27m47s
Ecliptic obliquity = 23°43'02, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°29'56, Lahiri = - 6°22'56 Julian Calendar 1 Dec. 177 BCE == Greg. Calendar 28 Nov. 177 BCE

The year -176 astronomical counting style corresponds to year 177 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 176 BCE
geocentric

JANUARY 176 BCE (-175) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 28 14	8♉ 7'27	3♎ 7	24♉54	14♒59	4♏57	28♏12	20°R 9	23♒18	23♎23	10♒19	13°D52	12♊45	18♒58	n.a.	W 1
T 2	6 32 10	9° 8'22	16°53	25° 5	16°12	5°36	28°24	20♊ 5	23°21	23°24	10°21	13♊52	12°42	19° 5	n.a.	T 2
F 3	6 36 7	10° 9'17	0♏18	25°R 5	17°24	6°15	28°36	20° 0	23°24	23°24	10°22	13°53	12°39	19°11	n.a.	F 3
S 4	6 40 4	11°10'11	13°26	24°54	18°36	6°54	28°48	19°56	23°26	23°25	10°24	13°55	12°35	19°18	n.a.	S 4
S 5	6 44 0	12°11'04	26°17	24°32	19°49	7°33	29° 0	19°51	23°29	23°26	10°25	13°56	12°32	19°25	n.a.	S 5
M 6	6 47 57	13°11'55	8♐55	24° 0	21° 1	8°12	29°12	19°47	23°32	23°27	10°27	13°R57	12°29	19°32	n.a.	M 6
T 7	6 51 53	14°12'46	21°21	23°17	22°13	8°51	29°23	19°43	23°35	23°27	10°28	13°57	12°26	19°38	n.a.	T 7
W 8	6 55 50	15°13'35	3♉37	22°26	23°25	9°30	29°35	19°38	23°38	23°28	10°30	13°55	12°23	19°45	n.a.	W 8
T 9	6 59 46	16°14'23	15°46	21°27	24°37	10° 9	29°46	19°34	23°41	23°29	10°31	13°52	12°20	19°52	n.a.	T 9
F 10	7 3 43	17°15'09	27°47	20°22	25°49	10°48	29°58	19°30	23°43	23°29	10°33	13°47	12°16	19°58	n.a.	F 10
S 11	7 7 39	18°15'54	9♒43	19°14	27° 0	11°27	0♐ 9	19°26	23°46	23°30	10°34	13°41	12°13	20° 5	n.a.	S 11
S 12	7 11 36	19°16'37	21°36	18° 4	28°12	12° 6	0°20	19°22	23°49	23°31	10°36	13°34	12°10	20°12	n.a.	S 12
M13	7 15 33	20°17'18	3♓27	16°53	29°24	12°45	0°31	19°18	23°52	23°31	10°37	13°27	12° 7	20°19	n.a.	M13
T 14	7 19 29	21°17'58	15°19	15°45	0♓35	13°24	0°42	19°14	23°55	23°32	10°39	13°21	12° 4	20°25	n.a.	T 14
W15	7 23 26	22°18'36	27°15	14°40	1°46	14° 2	0°53	19°10	23°58	23°32	10°40	13°16	12° 1	20°32	n.a.	W15
T 16	7 27 22	23°19'12	9♈19	13°39	2°58	14°41	1° 4	19° 7	24° 1	23°32	10°42	13°13	11°57	20°39	n.a.	T 16
F 17	7 31 19	24°19'46	21°36	12°45	4° 9	15°20	1°15	19° 3	24° 4	23°33	10°43	13°D12	11°54	20°45	n.a.	F 17
S 18	7 35 15	25°20'18	4♉10	11°57	5°20	15°59	1°26	19° 0	24° 7	23°33	10°45	13°12	11°51	20°52	n.a.	S 18
S 19	7 39 12	26°20'48	17° 6	11°16	6°31	16°38	1°36	18°56	24°11	23°33	10°47	13°13	11°48	20°59	n.a.	S 19
M20	7 43 8	27°21'16	0♊27	10°43	7°41	17°17	1°47	18°53	24°14	23°34	10°48	13°15	11°45	21° 6	n.a.	M20
T 21	7 47 5	28°21'43	14°16	10°18	8°52	17°55	1°57	18°50	24°17	23°34	10°50	13°R15	11°41	21°12	n.a.	T 21
W22	7 51 2	29°22'07	28°34	10° 0	10° 3	18°34	2° 7	18°46	24°20	23°34	10°51	13°14	11°38	21°19	n.a.	W22
T 23	7 54 58	0♒22'29	13♋17	9°49	11°13	19°13	2°18	18°43	24°23	23°34	10°53	13°11	11°35	21°26	n.a.	T 23
F 24	7 58 55	1°22'50	28°21	9°D46	12°23	19°52	2°28	18°40	24°26	23°34	10°55	13° 6	11°32	21°33	n.a.	F 24
S 25	8 2 51	2°23'08	13♌35	9°49	13°33	20°31	2°38	18°38	24°30	23°35	10°56	12°59	11°29	21°39	n.a.	S 25
S 26	8 6 48	3°23'25	28°50	9°58	14°43	21° 9	2°47	18°35	24°33	23°35	10°58	12°51	11°26	21°46	n.a.	S 26
M27	8 10 44	4°23'40	13♍54	10°14	15°53	21°48	2°57	18°32	24°36	23°35	10°59	12°43	11°22	21°53	n.a.	M27
T 28	8 14 41	5°23'53	28°39	10°35	17° 3	22°27	3° 7	18°29	24°39	23°R35	11° 1	12°37	11°19	21°59	n.a.	T 28
W29	8 18 37	6°24'05	12♎59	11° 2	18°12	23° 5	3°16	18°27	24°43	23°35	11° 3	12°32	11°16	22° 6	n.a.	W29
T 30	8 22 34	7°24'15	26°52	11°33	19°22	23°44	3°26	18°25	24°46	23°35	11° 4	12°30	11°13	22°13	n.a.	T 30
F 31	8 26 31	8♒24'23	10♏18	12♉ 9	20♓31	24♏23	3♐35	18♊22	24♒49	23♎35	11♒ 6	12°D29	11♊10	22♒20	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	23s28	3n17	4n57	20s20	1n 5	17s57	1s30	12s29	0n53	19s26	0n34	22n44	0s37	14s36	0s44	7s23	1n57	30s25	13s 7	22n44	22n35	19s47			n.a.
T 2	23 24	2s39	4 24	20 0	1 23	17 33	1 28	12 43	0 53	19 29	0 34	22 44	0 37	14 35	0 44	7 23	1 57	30 25	13 7	22 44	22 35	19 45			n.a.
F 3	23 19	8 19	3 37	19 43	1 41	17 9	1 26	12 56	0 52	19 31	0 34	22 43	0 37	14 34	0 44	7 23	1 57	30 24	13 6	22 44	22 35	19 43			n.a.
S 4	23 14	13 31	2 40	19 27	1 59	16 45	1 24	13 10	0 52	19 34	0 34	22 43	0 37	14 34	0 44	7 23	1 57	30 24	13 6	22 44	22 34	19 41			n.a.
S 5	23 9	18 0	1 35	19 14	2 16	16 20	1 21	13 23	0 51	19 37	0 34	22 43	0 37	14 33	0 44	7 24	1 57	30 23	13 6	22 44	22 34	19 39			n.a.
M 6	23 3	21 35	0 28	19 3	2 33	15 54	1 19	13 36	0 51	19 39	0 34	22 43	0 37	14 32	0 44	7 24	1 57	30 23	13 6	22 44	22 33	19 37			n.a.
T 7	22 57	24 6	0s40	18 54	2 49	15 29	1 17	13 50	0 50	19 42	0 34	22 43	0 36	14 31	0 44	7 24	1 57	30 22	13 6	22 44	22 33	19 36			n.a.
W 8	22 50	25 26	1 46	18 49	3 3	15 2	1 14	14 3	0 49	19 44	0 34	22 42	0 36	14 30	0 44	7 24	1 57	30 22	13 6	22 44	22 32	19 34			n.a.
T 9	22 43	25 30	2 45	18 45	3 16	14 36	1 12	14 16	0 49	19 47	0 34	22 42	0 36	14 29	0 44	7 24	1 57	30 21	13 6	22 44	22 32	19 32			n.a.
F 10	22 35	24 23	3 36	18 45	3 27	14 9	1 9	14 28	0 48	19 49	0 34	22 42	0 36	14 28	0 44	7 25	1 58	30 20	13 6	22 43	22 32	19 30			n.a.
S 11	22 27	22 9	4 18	18 46	3 35	13 42	1 7	14 41	0 48	19 52	0 34	22 42	0 36	14 27	0 44	7 25	1 58	30 20	13 6	22 42	22 31	19 28			n.a.
S 12	22 19	19 0	4 48	18 49	3 42	13 14	1 4	14 54	0 47	19 54	0 34	22 42	0 36	14 26	0 44	7 25	1 58	30 19	13 6	22 42	22 31	19 26			n.a.
M13	22 10	15 5	5 5	18 55	3 45	12 46	1 1	15 6	0 46	19 57	0 34	22 41	0 36	14 25	0 44	7 25	1 58	30 19	13 5	22 41	22 30	19 24			n.a.
T 14	22 1	10 36	5 10	19 1	3 47	12 18	0 58	15 19	0 46	19 59	0 34	22 41	0 35	14 24	0 44	7 25	1 58	30 18	13 5	22 40	22 30	19 22			n.a.
W15	21 51	5 42	5 1	19 9	3 46	11 49	0 55	15 31	0 45	20 1	0 34	22 41	0 35	14 23	0 44	7 25	1 58	30 18	13 5	22 39	22 30	19 21			n.a.
T 16	21 41	0 32	4 39	19 18	3 43	11 21	0 52	15 43	0 45	20 4	0 34	22 41	0 35	14 22	0 44	7 25	1 58	30 17	13 5	22 39	22 29	19 19			n.a.
F 17	21 30	4n45	4 3	19 28	3 38	10 52	0 49	15 55	0 44	20 6	0 34	22 41	0 35	14 21	0 44	7 25	1 58	30 17	13 5	22 39	22 29	19 17			n.a.
S 18	21 19	9 59	3 16	19 39	3 32	10 22	0 46	16 7	0 43	20 8	0 34	22 41	0 35	14 20	0 44	7 25	1 58	30 16	13 5	22 39	22 28	19 15			n.a.
S 19	21 8	14 57	2 17	19 51	3 24	9 53	0 42	16 19	0 43	20 10	0 34	22 41	0 35	14 18	0 44	7 25	1 58	30 16	13 5	22 39	22 28	19 13			n.a.
M20	20 56	19 22	1 9	20 2	3 15	9 23	0 39	16 31	0 42	20 12	0 34	22 40	0 34	14 17	0 44	7 25	1 58	30 15	13 5	22 39	22 27	19 11			n.a.
T 21	20 44	22 52	0n 5	20 14	3 5	8 53	0 36	16 43	0 41	20 15	0 34	22 40	0 34	14 16	0 44	7 26	1 58	30 15	13 5	22 39	22 27	19 9			n.a.
W22	20 31	25 4	1 22	20 27	2 54	8 23	0 32	16 54	0 41	20 17	0 34	22 40	0 34	14 15	0 44	7 26	1 58	30 14	13 5	22 39	22 27	19 7			n.a.
T 23	20 18	25 37	2 35	20 39	2 43	7 53	0 29	17 6	0 40	20 19	0 34	22 40	0 34	14 14	0 44	7 26	1 58	30 14	13 5	22 39	22 26	19 5			n.a.
F 24	20 5	24 18	3 39	20 51	2 31	7 22	0 25	17 17	0 39	20 21	0 34	22 40	0 34	14 13	0 44	7 26	1 58	30 13	13 5	22 38	22 26	19 3			n.a.
S 25	19 51	21 12	4 28	21 3	2 19	6 52	0 21	17 28	0 38	20 23	0 34	22 40	0 34	14 12	0 44	7 25	1 59	30 13	13 5	22 37	22 25	19 1			n.a.
S 26	19 37	16 39	4 57	21 14	2 6	6 21	0 18	17 39	0 38	20 25	0 34	22 40	0 34	14 11	0 44	7 25	1 59	30 12	13 5	22 36	22 25	18 59			n.a.
M27	19 23	11 6	5 6	21 26	1 54	5 50	0 14	17 50	0 37	20 27	0 34	22 40	0 33	14 10	0 44	7 25	1 59	30 12	13 5	22 35	22 24	18 57			n.a.
T 28	19 8	5 2	4 55	21 36	1 41	5 19	0 10	18 1	0 36	20 29	0 34	22 40	0 33	14 9	0 44	7 25	1 59	30 11	13 5	22 34	22 24	18 55			n.a.
W29	18 53	1s 8	4 25	21 46	1 29	4 48	0 6	18 12	0 35	20 30	0 34	22 40	0 33	14 7	0 44	7 25	1 59	30 11	13 5	22 34	22 23	18 53			n.a.
T 30	18 38	7 4	3 40	21 56	1 17	4 17	0 2	18 22	0 34	20 32	0 33	22 39	0 33	14 6	0 44	7 25	1 59	30 10	13 5	22 33	22 23	18 52			n.a.
F 31	18s22	12s29	2n44	22s 5	1n 5	3s46	0n 2	18s33	0n34	20s34	0n33	22n39	0s33	14s 5	0s44	7s25	1n59	30s10	13s 5	22n33	22n23	18s50			n.a.

Julian Day Number = 1657139.5, Delta T = 03h27m46s
Ecliptic obliquity = 23°43'02, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°29'52, Lahiri = - 6°22'51 Julian Calendar 1 Jan. 176 BCE == Greg. Calendar 29 Dec. 177 BCE

The year -175 astronomical counting style corresponds to year 176 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 176 BCE
geocentric

FEBRUARY 176 BCE (-175) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 30 27	9♒24'30	23♏20	12♑49	21♓40	25♏ 2	3♐44	18°R20	24♒53	23°R34	11♒ 8	12♊30	11♊ 7	22♒26	n.a.	S 1
S 2	8 34 24	10°24'35	6♐ 1	13°33	22°49	25°40	3°53	18♊18	24°56	23♎34	11° 9	12°R31	11° 3	22°33	n.a.	S 2
M 3	8 38 20	11°24'38	18°27	14°21	23°58	26°19	4° 2	18°16	24°59	23°34	11°11	12°31	11° 0	22°40	n.a.	M 3
T 4	8 42 17	12°24'40	0♑40	15°12	25° 7	26°57	4°11	18°14	25° 3	23°34	11°12	12°29	10°57	22°46	n.a.	T 4
W 5	8 46 13	13°24'39	12°44	16° 6	26°15	27°36	4°20	18°12	25° 6	23°34	11°14	12°24	10°54	22°53	n.a.	W 5
T 6	8 50 10	14°24'37	24°42	17° 4	27°23	28°15	4°28	18°11	25°10	23°33	11°16	12°17	10°51	23° 0	n.a.	T 6
F 7	8 54 6	15°24'33	6♒36	18° 4	28°31	28°53	4°37	18° 9	25°13	23°33	11°17	12° 8	10°47	23° 7	n.a.	F 7
S 8	8 58 3	16°24'27	18°28	19° 6	29°39	29°32	4°45	18° 7	25°16	23°33	11°19	11°56	10°44	23°13	n.a.	S 8
S 9	9 2 0	17°24'19	0♓20	20°11	0♈47	0♐10	4°53	18° 6	25°20	23°32	11°21	11°43	10°41	23°20	n.a.	S 9
M10	9 5 56	18°24'08	12°12	21°18	1°55	0°48	5° 1	18° 5	25°23	23°32	11°22	11°30	10°38	23°27	n.a.	M10
T 11	9 9 53	19°23'55	24° 7	22°28	3° 2	1°27	5° 9	18° 4	25°27	23°31	11°24	11°18	10°35	23°33	n.a.	T 11
W12	9 13 49	20°23'40	6♈ 7	23°39	4° 9	2° 5	5°17	18° 3	25°30	23°31	11°25	11° 8	10°32	23°40	n.a.	W12
T 13	9 17 46	21°23'23	18°13	24°53	5°16	2°44	5°25	18° 2	25°33	23°30	11°27	11° 1	10°28	23°47	n.a.	T 13
F 14	9 21 42	22°23'03	0♉30	26° 8	6°23	3°22	5°32	18° 1	25°37	23°30	11°29	10°56	10°25	23°54	n.a.	F 14
S 15	9 25 39	23°22'42	13° 1	27°25	7°29	4° 0	5°39	18° 0	25°40	23°29	11°30	10°54	10°22	24° 0	n.a.	S 15
S 16	9 29 35	24°22'17	25°51	28°44	8°36	4°38	5°47	18° 0	25°44	23°29	11°32	10°D54	10°19	24° 7	n.a.	S 16
M17	9 33 32	25°21'51	9♊ 3	0♒ 5	9°42	5°17	5°54	17°59	25°47	23°28	11°34	10°R54	10°16	24°14	n.a.	M17
T 18	9 37 28	26°21'22	22°43	1°27	10°47	5°55	6° 1	17°59	25°51	23°27	11°35	10°53	10°13	24°20	n.a.	T 18
W19	9 41 25	27°20'50	6♋50	2°51	11°53	6°33	6° 7	17°59	25°54	23°27	11°37	10°51	10° 9	24°27	n.a.	W19
T 20	9 45 22	28°20'16	21°26	4°16	12°58	7°11	6°14	17°58	25°57	23°26	11°38	10°47	10° 6	24°34	n.a.	T 20
F 21	9 49 18	29°19'40	6♌25	5°43	14° 3	7°49	6°20	17°D58	26° 1	23°25	11°40	10°39	10° 3	24°41	n.a.	F 21
S 22	9 53 15	0♓19'02	21°41	7°11	15° 8	8°27	6°27	17°58	26° 4	23°24	11°41	10°30	10° 0	24°47	n.a.	S 22
S 23	9 57 11	1°18'21	7♍ 3	8°41	16°12	9° 5	6°33	17°59	26° 8	23°23	11°43	10°19	9°57	24°54	n.a.	S 23
M24	10 1 8	2°17'38	22°18	10°12	17°17	9°43	6°39	17°59	26°11	23°23	11°44	10° 8	9°53	25° 1	n.a.	M24
T 25	10 5 4	3°16'53	7♎17	11°44	18°20	10°21	6°45	17°59	26°15	23°22	11°46	9°58	9°50	25° 7	n.a.	T 25
W26	10 9 1	4°16'06	21°50	13°18	19°24	10°59	6°51	18° 0	26°18	23°21	11°48	9°51	9°47	25°14	n.a.	W26
T 27	10 12 57	5°15'17	5♏54	14°54	20°27	11°37	6°56	18° 0	26°21	23°20	11°49	9°46	9°44	25°21	n.a.	T 27
F 28	10 16 54	6♓14'26	19♏28	16♒30	21♈30	12♐15	7♐ 1	18♊ 1	26♒25	23♎19	11♒51	9♊44	9♊41	25♒28	n.a.	F 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s 6	17s12	1n41	22s13	0n53	3s15	0n 6	18s43	0n33	20s36	0n33	22n39	0s33	14s 4	0s44	7s25	1n59	30s 9	13s 5	22n33	22n22	18s48		n.a.
S 2	17 50	21 0	0 35	22 20	0 42	2 43	0 11	18 53	0 32	20 38	0 33	22 39	0 32	14 3	0 44	7 25	1 59	30 9	13 5	22 34	22 22	18 46		n.a.
M 3	17 33	23 44	0s32	22 26	0 30	2 12	0 15	19 3	0 31	20 39	0 33	22 39	0 32	14 2	0 44	7 25	1 59	30 8	13 5	22 34	22 21	18 44		n.a.
T 4	17 17	25 18	1 35	22 31	0 19	1 40	0 19	19 13	0 30	20 41	0 33	22 39	0 32	14 1	0 44	7 25	1 59	30 8	13 5	22 33	22 21	18 42		n.a.
W 5	16 59	25 39	2 34	22 35	0 9	1 9	0 23	19 23	0 29	20 43	0 33	22 39	0 32	13 59	0 44	7 24	1 59	30 8	13 5	22 33	22 20	18 40		n.a.
T 6	16 42	24 48	3 25	22 39	0s 2	0 38	0 28	19 32	0 28	20 44	0 33	22 39	0 32	13 58	0 44	7 24	1 59	30 7	13 5	22 32	22 20	18 38		n.a.
F 7	16 24	22 49	4 7	22 41	0 12	0 6	0 32	19 42	0 28	20 46	0 33	22 39	0 32	13 57	0 44	7 24	1 59	30 7	13 5	22 30	22 19	18 36		n.a.
S 8	16 6	19 51	4 37	22 42	0 21	0n25	0 37	19 51	0 27	20 47	0 33	22 39	0 32	13 56	0 44	7 24	1 59	30 6	13 5	22 29	22 19	18 34		n.a.
S 9	15 48	16 5	4 56	22 41	0 31	0 57	0 41	20 0	0 26	20 49	0 33	22 39	0 31	13 55	0 44	7 24	1 59	30 6	13 5	22 27	22 18	18 31		n.a.
M10	15 29	11 42	5 2	22 40	0 40	1 28	0 46	20 9	0 25	20 50	0 33	22 39	0 31	13 54	0 44	7 23	2 0	30 5	13 5	22 25	22 18	18 29		n.a.
T 11	15 10	6 51	4 54	22 37	0 48	1 59	0 50	20 18	0 24	20 52	0 33	22 40	0 31	13 53	0 44	7 23	2 0	30 5	13 5	22 24	22 18	18 27		n.a.
W12	14 51	1 44	4 34	22 33	0 57	2 30	0 55	20 27	0 23	20 53	0 33	22 40	0 31	13 51	0 44	7 23	2 0	30 5	13 6	22 22	22 17	18 25		n.a.
T 13	14 32	3n31	4 1	22 27	1 4	3 1	0 59	20 36	0 22	20 54	0 33	22 40	0 31	13 50	0 44	7 23	2 0	30 4	13 6	22 21	22 17	18 23		n.a.
F 14	14 13	8 43	3 17	22 21	1 12	3 32	1 4	20 44	0 21	20 56	0 33	22 40	0 31	13 49	0 44	7 22	2 0	30 4	13 6	22 21	22 16	18 21		n.a.
S 15	13 53	13 40	2 22	22 12	1 19	4 3	1 9	20 52	0 20	20 57	0 33	22 40	0 30	13 48	0 44	7 22	2 0	30 3	13 6	22 20	22 16	18 19		n.a.
S 16	13 33	18 10	1 19	22 3	1 26	4 34	1 13	21 0	0 19	20 58	0 33	22 40	0 30	13 47	0 44	7 22	2 0	30 3	13 6	22 20	22 15	18 17		n.a.
M17	13 13	21 54	0 10	21 52	1 32	5 5	1 18	21 8	0 18	21 0	0 33	22 40	0 30	13 45	0 44	7 22	2 0	30 3	13 6	22 20	22 15	18 15		n.a.
T 18	12 53	24 33	1n 2	21 39	1 38	5 35	1 23	21 16	0 17	21 1	0 33	22 40	0 30	13 44	0 44	7 21	2 0	30 2	13 6	22 20	22 14	18 13		n.a.
W19	12 32	25 45	2 13	21 26	1 43	6 6	1 28	21 24	0 15	21 2	0 33	22 40	0 30	13 43	0 44	7 21	2 0	30 2	13 6	22 20	22 14	18 11		n.a.
T 20	12 11	25 14	3 17	21 10	1 48	6 36	1 32	21 32	0 14	21 3	0 33	22 40	0 30	13 42	0 44	7 21	2 0	30 1	13 6	22 19	22 13	18 9		n.a.
F 21	11 50	22 54	4 9	20 53	1 53	7 6	1 37	21 39	0 13	21 4	0 33	22 41	0 30	13 41	0 44	7 20	2 0	30 1	13 6	22 18	22 13	18 7		n.a.
S 22	11 29	18 55	4 45	20 35	1 57	7 36	1 42	21 46	0 12	21 6	0 33	22 41	0 29	13 40	0 44	7 20	2 0	30 1	13 7	22 17	22 12	18 5		n.a.
S 23	11 8	13 39	5 0	20 15	2 1	8 5	1 47	21 53	0 11	21 7	0 33	22 41	0 29	13 38	0 44	7 20	2 0	30 0	13 7	22 15	22 12	18 3		n.a.
M24	10 47	7 34	4 54	19 53	2 5	8 35	1 52	22 0	0 10	21 8	0 33	22 41	0 29	13 37	0 44	7 19	2 0	30 0	13 7	22 14	22 12	18 0		n.a.
T 25	10 25	1 10	4 27	19 30	2 8	9 4	1 57	22 7	0 9	21 9	0 33	22 41	0 29	13 36	0 44	7 19	2 0	30 0	13 7	22 12	22 11	17 58		n.a.
W26	10 3	5s 9	3 44	19 6	2 10	9 33	2 1	22 14	0 7	21 10	0 33	22 41	0 29	13 35	0 44	7 19	2 0	29 59	13 7	22 11	22 11	17 56		n.a.
T 27	9 42	11 0	2 48	18 39	2 12	10 1	2 6	22 20	0 6	21 11	0 33	22 42	0 29	13 34	0 44	7 18	2 1	29 59	13 7	22 10	22 10	17 54		n.a.
F 28	9s20	16s 7	1n45	18s12	2s14	10n30	2n11	22s27	0n 5	21s12	0n33	22n42	0s28	13s33	0s44	7s18	2n 1	29s59	13s 7	22n10	22n10	17s52		n.a.

Julian Day Number = 1657170.5, Delta T = 03h27m45s
Ecliptic obliquity = 23°43'02, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°29'48, Lahiri = - 6°22'47 Julian Calendar 1 Feb. 176 BCE == Greg. Calendar 29 Jan. 176 BCE

The year -175 astronomical counting style corresponds to year 176 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 176 BCE
geocentric

MARCH 176 BCE (-175) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 20 51	7♓13'33	2♐35	18♒ 9	22♈33	12♐53	7♐ 7	18♊ 2	26♒28	23°R18	11♒52	9°R43	9♊38	25♒34	n.a.	S 1
S 2	10 24 47	8°12'39	15°17	19°48	23°35	13°31	7°12	18° 3	26°32	23♎17	11°54	9♊43	9°34	25°41	n.a.	S 2
M 3	10 28 44	9°11'43	27°39	21°29	24°37	14° 8	7°17	18° 4	26°35	23°16	11°55	9°42	9°31	25°48	n.a.	M 3
T 4	10 32 40	10°10'45	9♑48	23°12	25°39	14°46	7°21	18° 5	26°38	23°15	11°57	9°40	9°28	25°55	n.a.	T 4
W 5	10 36 37	11° 9'45	21°47	24°56	26°40	15°23	7°26	18° 7	26°42	23°14	11°58	9°35	9°25	26° 1	n.a.	W 5
T 6	10 40 33	12° 8'43	3♒40	26°41	27°41	16° 1	7°30	18° 8	26°45	23°13	11°59	9°27	9°22	26° 8	n.a.	T 6
F 7	10 44 30	13° 7'39	15°30	28°28	28°42	16°39	7°34	18° 9	26°48	23°12	12° 1	9°16	9°19	26°15	n.a.	F 7
S 8	10 48 26	14° 6'33	27°21	0♓16	29°42	17°16	7°38	18°11	26°52	23°10	12° 2	9° 3	9°15	26°21	n.a.	S 8
S 9	10 52 23	15° 5'25	9♓14	2° 6	0♉42	17°53	7°42	18°13	26°55	23° 9	12° 4	8°49	9°12	26°28	n.a.	S 9
M10	10 56 20	16° 4'15	21°11	3°57	1°41	18°31	7°46	18°15	26°58	23° 8	12° 5	8°35	9° 9	26°35	n.a.	M10
T 11	11 0 16	17° 3'02	3♈12	5°50	2°40	19° 8	7°50	18°17	27° 1	23° 7	12° 7	8°21	9° 6	26°42	n.a.	T 11
W12	11 4 13	18° 1'48	15°19	7°44	3°38	19°45	7°53	18°19	27° 5	23° 6	12° 8	8°10	9° 3	26°48	n.a.	W12
T 13	11 8 9	19° 0'31	27°34	9°39	4°36	20°22	7°56	18°21	27° 8	23° 4	12° 9	8° 2	8°59	26°55	n.a.	T 13
F 14	11 12 6	19°59'12	9♉58	11°36	5°34	20°59	7°59	18°23	27°11	23° 3	12°11	7°56	8°56	27° 2	n.a.	F 14
S 15	11 16 2	20°57'51	22°34	13°35	6°31	21°36	8° 2	18°25	27°14	23° 2	12°12	7°53	8°53	27° 8	n.a.	S 15
S 16	11 19 59	21°56'28	5♊26	15°35	7°27	22°13	8° 4	18°28	27°18	23° 0	12°13	7°D53	8°50	27°15	n.a.	S 16
M17	11 23 55	22°55'02	18°37	17°36	8°23	22°50	8° 7	18°30	27°21	22°59	12°15	7°R53	8°47	27°22	n.a.	M17
T 18	11 27 52	23°53'34	2♋ 9	19°39	9°19	23°27	8° 9	18°33	27°24	22°58	12°16	7°52	8°44	27°29	n.a.	T 18
W19	11 31 48	24°52'04	16° 6	21°42	10°14	24° 3	8°11	18°36	27°27	22°56	12°17	7°51	8°40	27°35	n.a.	W19
T 20	11 35 45	25°50'32	0♌27	23°47	11° 8	24°40	8°13	18°39	27°30	22°55	12°18	7°47	8°37	27°42	n.a.	T 20
F 21	11 39 42	26°48'57	15°11	25°53	12° 2	25°17	8°15	18°42	27°33	22°54	12°20	7°41	8°34	27°49	n.a.	F 21
S 22	11 43 38	27°47'20	0♍12	28° 0	12°55	25°53	8°16	18°45	27°36	22°52	12°21	7°32	8°31	27°55	n.a.	S 22
S 23	11 47 35	28°45'41	15°22	0♈ 7	13°47	26°29	8°18	18°48	27°40	22°51	12°22	7°22	8°28	28° 2	n.a.	S 23
M24	11 51 31	29°43'59	0♎30	2°15	14°39	27° 6	8°19	18°51	27°43	22°49	12°23	7°12	8°24	28° 9	n.a.	M24
T 25	11 55 28	0♈42'16	15°26	4°23	15°30	27°42	8°20	18°54	27°46	22°48	12°24	7° 4	8°21	28°16	n.a.	T 25
W26	11 59 24	1°40'31	0♏ 2	6°32	16°20	28°18	8°20	18°58	27°49	22°46	12°26	6°57	8°18	28°22	n.a.	W26
T 27	12 3 21	2°38'44	14°11	8°39	17°10	28°54	8°21	19° 1	27°52	22°45	12°27	6°52	8°15	28°29	n.a.	T 27
F 28	12 7 17	3°36'56	27°52	10°47	17°58	29°30	8°21	19° 5	27°54	22°43	12°28	6°50	8°12	28°36	n.a.	F 28
S 29	12 11 14	4°35'06	11♐ 4	12°53	18°46	0♑ 6	8°22	19° 9	27°57	22°42	12°29	6°D50	8° 9	28°43	n.a.	S 29
S 30	12 15 11	5°33'15	23°51	14°58	19°34	0°42	8°R22	19°13	28° 0	22°40	12°30	6°51	8° 5	28°49	n.a.	S 30
M31	12 19 7	6♈31'22	6♑18	17♈ 2	20♉20	1♑17	8♐21	19♊17	28♒ 3	22♎39	12♒31	6°R51	8♊ 2	28♒56	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	8s57	20s18	0n38	17s42	2s15	10n58	2n16	22s33	0n 4	21s12	0n33	22n42	0s28	13s31	0s44	7s17	2n 1	29s59	13s 8	22n10	22n 9	17s50		n.a.
S 2	8 35	23 23	0s29	17 11	2 15	11 26	2 21	22 39	0 2	21 13	0 33	22 42	0 28	13 30	0 44	7 17	2 1	29 58	13 8	22 10	22 9	17 48		n.a.
M 3	8 13	25 15	1 33	16 38	2 16	11 54	2 25	22 45	0 1	21 14	0 33	22 43	0 28	13 29	0 44	7 16	2 1	29 58	13 8	22 10	22 8	17 46		n.a.
T 4	7 50	25 52	2 32	16 4	2 15	12 21	2 30	22 50	0s 0	21 15	0 33	22 43	0 28	13 28	0 44	7 16	2 1	29 58	13 8	22 9	22 8	17 43		n.a.
W 5	7 28	25 16	3 22	15 28	2 14	12 48	2 35	22 56	0 2	21 16	0 33	22 43	0 28	13 27	0 44	7 16	2 1	29 57	13 8	22 9	22 7	17 41		n.a.
T 6	7 5	23 30	4 4	14 51	2 13	13 15	2 40	23 1	0 3	21 16	0 33	22 43	0 28	13 26	0 44	7 15	2 1	29 57	13 9	22 8	22 7	17 39		n.a.
F 7	6 42	20 44	4 34	14 12	2 11	13 41	2 44	23 7	0 4	21 17	0 33	22 44	0 27	13 25	0 44	7 15	2 1	29 57	13 9	22 6	22 6	17 37		n.a.
S 8	6 19	17 7	4 53	13 31	2 9	14 7	2 49	23 12	0 6	21 18	0 33	22 44	0 27	13 23	0 44	7 14	2 1	29 57	13 9	22 4	22 6	17 35		n.a.
S 9	5 56	12 48	4 59	12 49	2 6	14 33	2 53	23 17	0 7	21 18	0 33	22 44	0 27	13 22	0 44	7 14	2 1	29 56	13 9	22 2	22 5	17 33		n.a.
M10	5 33	8 0	4 52	12 5	2 3	14 58	2 58	23 21	0 9	21 19	0 33	22 45	0 27	13 21	0 44	7 13	2 1	29 56	13 9	21 59	22 5	17 30		n.a.
T 11	5 10	2 52	4 32	11 19	1 59	15 23	3 3	23 26	0 10	21 20	0 33	22 45	0 27	13 20	0 44	7 13	2 1	29 56	13 10	21 57	22 4	17 28		n.a.
W12	4 47	2n25	4 0	10 32	1 54	15 48	3 7	23 31	0 12	21 20	0 33	22 45	0 27	13 19	0 44	7 12	2 1	29 56	13 10	21 55	22 4	17 26		n.a.
T 13	4 24	7 41	3 16	9 43	1 49	16 12	3 11	23 35	0 13	21 21	0 33	22 46	0 26	13 18	0 44	7 12	2 1	29 56	13 10	21 54	22 3	17 24		n.a.
F 14	4 1	12 44	2 22	8 53	1 44	16 36	3 16	23 39	0 15	21 21	0 33	22 46	0 26	13 17	0 44	7 11	2 1	29 55	13 10	21 53	22 3	17 22		n.a.
S 15	3 37	17 20	1 20	8 2	1 38	16 59	3 20	23 43	0 16	21 22	0 33	22 46	0 26	13 16	0 44	7 11	2 1	29 55	13 10	21 53	22 2	17 20		n.a.
S 16	3 14	21 15	0 13	7 9	1 31	17 22	3 25	23 47	0 18	21 22	0 33	22 47	0 26	13 14	0 44	7 10	2 1	29 55	13 11	21 53	22 2	17 17		n.a.
M17	2 51	24 10	0n57	6 15	1 24	17 45	3 29	23 51	0 19	21 23	0 33	22 47	0 26	13 13	0 44	7 10	2 1	29 55	13 11	21 53	22 1	17 15		n.a.
T 18	2 27	25 47	2 5	5 19	1 17	18 7	3 33	23 54	0 21	21 23	0 33	22 47	0 26	13 12	0 44	7 9	2 1	29 55	13 11	21 53	22 1	17 13		n.a.
W19	2 4	25 50	3 8	4 22	1 8	18 29	3 37	23 57	0 23	21 23	0 33	22 48	0 26	13 11	0 44	7 9	2 1	29 55	13 11	21 52	22 0	17 11		n.a.
T 20	1 40	24 12	4 1	3 25	1 0	18 50	3 41	24 1	0 24	21 24	0 33	22 48	0 25	13 10	0 44	7 8	2 1	29 54	13 12	21 52	22 0	17 8		n.a.
F 21	1 17	20 54	4 39	2 26	0 51	19 11	3 45	24 4	0 26	21 24	0 33	22 49	0 25	13 9	0 44	7 8	2 1	29 54	13 12	21 51	21 59	17 6		n.a.
S 22	0 53	16 11	5 0	1 26	0 41	19 31	3 49	24 7	0 28	21 24	0 33	22 49	0 25	13 8	0 44	7 7	2 1	29 54	13 12	21 49	21 59	17 4		n.a.
S 23	0 30	10 25	4 59	0 26	0 32	19 51	3 52	24 10	0 29	21 24	0 33	22 49	0 25	13 7	0 44	7 6	2 2	29 54	13 12	21 48	21 58	17 2		n.a.
M24	0 6	4 2	4 38	0n35	0 21	20 10	3 56	24 12	0 31	21 25	0 33	22 50	0 25	13 6	0 44	7 6	2 2	29 54	13 13	21 46	21 58	17 0		n.a.
T 25	0n17	2s30	3 58	1 36	0 11	20 29	4 0	24 15	0 33	21 25	0 33	22 50	0 25	13 5	0 44	7 5	2 2	29 54	13 13	21 44	21 57	16 57		n.a.
W26	0 40	8 46	3 2	2 37	0 0	20 47	4 3	24 17	0 35	21 25	0 33	22 51	0 25	13 4	0 44	7 5	2 2	29 54	13 13	21 43	21 57	16 55		n.a.
T 27	1 4	14 25	1 58	3 38	0n10	21 5	4 6	24 19	0 37	21 25	0 33	22 51	0 24	13 3	0 44	7 4	2 2	29 54	13 13	21 43	21 56	16 53		n.a.
F 28	1 27	19 8	0 48	4 38	0 21	21 22	4 10	24 21	0 38	21 25	0 33	22 52	0 24	13 2	0 44	7 4	2 2	29 54	13 14	21 42	21 56	16 51		n.a.
S 29	1 51	22 44	0s23	5 38	0 32	21 39	4 13	24 23	0 40	21 25	0 33	22 52	0 24	13 1	0 44	7 3	2 2	29 53	13 14	21 42	21 55	16 48		n.a.
S 30	2 14	25 4	1 30	6 38	0 43	21 55	4 16	24 25	0 42	21 25	0 32	22 52	0 24	13 0	0 44	7 2	2 2	29 53	13 14	21 42	21 55	16 46		n.a.
M31	2n37	26s 4	2s30	7n36	0n54	22n11	4n19	24s27	0s44	21s25	0n32	22n53	0s24	12s59	0s44	7s 2	2n 2	29s53	13s15	21n42	21n54	16s44		n.a.

Julian Day Number = 1657198.5, Delta T = 03h27m44s
Ecliptic obliquity = 23°43'03, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°29'44, Lahiri = - 6°22'43 Julian Calendar 1 March 176 BCE == Greg. Calendar 26 Feb. 176 BCE

The year -175 astronomical counting style corresponds to year 176 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 176 BCE
geocentric

APRIL 176 BCE (-175) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 23 4	7♈29'27	18♑28	19♈ 4	21♉ 5	1♑53	8°R21	19♊20	28♒ 6	22°R37	12♒32	6°R50	7♊59	29♒ 3	n.a.	T 1
W 2	12 27 0	8°27'31	0♒27	21° 4	21°50	2°28	8♐20	19°25	28° 9	22♎36	12°33	6♊48	7°56	29° 9	n.a.	W 2
T 3	12 30 57	9°25'34	12°20	23° 1	22°33	3° 3	8°20	19°29	28°12	22°34	12°34	6°43	7°53	29°16	n.a.	T 3
F 4	12 34 53	10°23'35	24°10	24°56	23°16	3°39	8°19	19°33	28°14	22°33	12°35	6°36	7°50	29°23	n.a.	F 4
S 5	12 38 50	11°21'34	6♓ 2	26°48	23°57	4°14	8°18	19°37	28°17	22°31	12°36	6°27	7°46	29°30	n.a.	S 5
S 6	12 42 46	12°19'32	17°59	28°38	24°38	4°49	8°16	19°42	28°20	22°29	12°37	6°17	7°43	29°36	n.a.	S 6
M 7	12 46 43	13°17'28	0♈ 1	0♌24	25°17	5°23	8°15	19°46	28°22	22°28	12°38	6° 7	7°40	29°43	n.a.	M 7
T 8	12 50 40	14°15'23	12°11	2° 6	25°55	5°58	8°13	19°51	28°25	22°26	12°39	5°57	7°37	29°50	n.a.	T 8
W 9	12 54 36	15°13'16	24°30	3°46	26°32	6°33	8°11	19°56	28°28	22°25	12°40	5°50	7°34	29°56	n.a.	W 9
T 10	12 58 33	16°11'07	6♌59	5°22	27° 8	7° 7	8° 9	20° 0	28°30	22°23	12°41	5°44	7°30	0♓ 3	n.a.	T 10
F 11	13 2 29	17° 8'57	19°38	6°54	27°43	7°41	8° 7	20° 5	28°33	22°21	12°42	5°40	7°27	0°10	n.a.	F 11
S 12	13 6 26	18° 6'45	2♊29	8°23	28°16	8°15	8° 5	20°10	28°35	22°20	12°42	5°D39	7°24	0°17	n.a.	S 12
S 13	13 10 22	19° 4'31	15°34	9°47	28°48	8°49	8° 2	20°15	28°38	22°18	12°43	5°39	7°21	0°23	n.a.	S 13
M14	13 14 19	20° 2'16	28°53	11° 9	29°18	9°23	7°59	20°20	28°40	22°16	12°44	5°40	7°18	0°30	n.a.	M14
T 15	13 18 15	20°59'59	12♋28	12°26	29°47	9°57	7°56	20°25	28°43	22°15	12°45	5°42	7°15	0°37	n.a.	T 15
W16	13 22 12	21°57'40	26°21	13°39	0♊14	10°30	7°53	20°30	28°45	22°13	12°46	5°R42	7°11	0°44	n.a.	W16
T 17	13 26 9	22°55'19	10♌31	14°49	0°39	11° 3	7°50	20°36	28°47	22°12	12°46	5°40	7° 8	0°50	n.a.	T 17
F 18	13 30 5	23°52'57	24°58	15°54	1° 3	11°37	7°46	20°41	28°50	22°10	12°47	5°37	7° 5	0°57	n.a.	F 18
S 19	13 34 2	24°50'33	9♍38	16°55	1°25	12° 9	7°43	20°46	28°52	22° 8	12°48	5°33	7° 2	1° 4	n.a.	S 19
S 20	13 37 58	25°48'07	24°24	17°52	1°46	12°42	7°39	20°52	28°54	22° 7	12°48	5°27	6°59	1°10	n.a.	S 20
M21	13 41 55	26°45'40	9♎10	18°45	2° 4	13°15	7°35	20°58	28°56	22° 5	12°49	5°21	6°56	1°17	n.a.	M21
T 22	13 45 51	27°43'11	23°48	19°34	2°21	13°47	7°31	21° 3	28°58	22° 3	12°49	5°16	6°52	1°24	n.a.	T 22
W23	13 49 48	28°40'41	8♏11	20°18	2°35	14°19	7°26	21° 9	29° 1	22° 2	12°50	5°12	6°49	1°31	n.a.	W23
T 24	13 53 44	29°38'10	22°13	20°58	2°48	14°52	7°22	21°15	29° 3	22° 0	12°51	5°10	6°46	1°37	n.a.	T 24
F 25	13 57 41	0♌35'38	5♐51	21°33	2°58	15°23	7°17	21°20	29° 5	21°59	12°51	5°D 9	6°43	1°44	n.a.	F 25
S 26	14 1 37	1°33'05	19° 5	22° 4	3° 7	15°55	7°13	21°26	29° 7	21°57	12°52	5°10	6°40	1°51	n.a.	S 26
S 27	14 5 34	2°30'31	1♑55	22°31	3°13	16°26	7° 8	21°32	29° 9	21°55	12°52	5°11	6°36	1°58	n.a.	S 27
M28	14 9 31	3°27'57	14°25	22°52	3°16	16°58	7° 3	21°38	29°11	21°54	12°53	5°13	6°33	2° 4	n.a.	M28
T 29	14 13 27	4°25'21	26°39	23° 9	3°R18	17°29	6°57	21°44	29°12	21°52	12°53	5°14	6°30	2°11	n.a.	T 29
W30	14 17 24	5♌22'44	8♒40	23♌21	3♊17	17♑59	6♐52	21♊51	29♒14	21♎51	12♒54	5°R14	6♊27	2♓18	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n 0	25s47	3s23	8n32	1n 4	22n26	4n21	24s28	0s46	21s25	0n32	22n53	0s24	12s58	0s44	7s 1	2n 2	29s53	13s15	21n42	21n54	16s41		n.a.
W 2	3 24	24 17	4 6	9 28	1 15	22 41	4 24	24 30	0 48	21 25	0 32	22 54	0 24	12 57	0 44	7 1	2 2	29 53	13 15	21 42	21 53	16 39		n.a.
T 3	3 47	21 44	4 38	10 21	1 24	22 54	4 26	24 31	0 50	21 25	0 32	22 54	0 23	12 56	0 44	7 0	2 2	29 53	13 15	21 41	21 53	16 37		n.a.
F 4	4 10	18 17	4 58	11 13	1 34	23 8	4 29	24 32	0 52	21 25	0 32	22 55	0 23	12 55	0 44	6 59	2 2	29 53	13 16	21 40	21 52	16 35		n.a.
S 5	4 33	14 6	5 5	12 3	1 43	23 21	4 31	24 33	0 54	21 25	0 32	22 55	0 23	12 54	0 44	6 59	2 2	29 53	13 16	21 38	21 52	16 32		n.a.
S 6	4 56	9 22	4 58	12 50	1 51	23 33	4 33	24 34	0 56	21 25	0 32	22 56	0 23	12 53	0 44	6 58	2 2	29 53	13 16	21 37	21 51	16 30		n.a.
M 7	5 18	4 15	4 39	13 36	1 59	23 44	4 34	24 35	0 58	21 24	0 32	22 56	0 23	12 52	0 44	6 58	2 2	29 53	13 17	21 35	21 51	16 28		n.a.
T 8	5 41	1n 6	4 7	14 19	2 6	23 55	4 36	24 35	1 0	21 24	0 32	22 57	0 23	12 51	0 45	6 57	2 2	29 53	13 17	21 33	21 50	16 25		n.a.
W 9	6 4	6 28	3 22	15 0	2 13	24 6	4 37	24 36	1 3	21 24	0 32	22 57	0 23	12 50	0 45	6 56	2 2	29 53	13 17	21 32	21 50	16 23		n.a.
T 10	6 26	11 41	2 28	15 38	2 18	24 15	4 38	24 36	1 5	21 24	0 32	22 58	0 23	12 50	0 45	6 56	2 2	29 53	13 18	21 31	21 49	16 21		n.a.
F 11	6 49	16 29	1 25	16 14	2 23	24 24	4 39	24 36	1 7	21 23	0 32	22 58	0 22	12 49	0 45	6 55	2 2	29 53	13 18	21 30	21 48	16 18		n.a.
S 12	7 11	20 37	0 17	16 47	2 27	24 33	4 40	24 37	1 9	21 23	0 32	22 59	0 22	12 48	0 45	6 54	2 2	29 53	13 18	21 30	21 48	16 16		n.a.
S 13	7 33	23 48	0n53	17 18	2 31	24 41	4 40	24 37	1 12	21 23	0 32	22 59	0 22	12 47	0 45	6 54	2 2	29 53	13 19	21 30	21 47	16 14		n.a.
M14	7 55	25 45	2 2	17 46	2 33	24 48	4 41	24 37	1 14	21 22	0 32	23 0	0 22	12 46	0 45	6 53	2 2	29 53	13 19	21 30	21 47	16 11		n.a.
T 15	8 17	26 12	3 6	18 12	2 35	24 54	4 41	24 36	1 16	21 22	0 32	23 0	0 22	12 45	0 45	6 53	2 2	29 54	13 19	21 30	21 46	16 9		n.a.
W16	8 39	25 3	4 0	18 36	2 36	25 0	4 40	24 36	1 19	21 21	0 32	23 1	0 22	12 45	0 45	6 52	2 2	29 54	13 20	21 30	21 46	16 7		n.a.
T 17	9 1	22 17	4 40	18 57	2 36	25 5	4 40	24 36	1 21	21 21	0 32	23 1	0 22	12 44	0 45	6 51	2 2	29 54	13 20	21 30	21 45	16 4		n.a.
F 18	9 22	18 7	5 4	19 15	2 35	25 9	4 39	24 35	1 24	21 20	0 32	23 2	0 22	12 43	0 45	6 51	2 2	29 54	13 20	21 30	21 45	16 2		n.a.
S 19	9 44	12 48	5 8	19 31	2 33	25 12	4 38	24 35	1 26	21 20	0 32	23 2	0 21	12 42	0 45	6 50	2 2	29 54	13 21	21 29	21 44	16 0		n.a.
S 20	10 5	6 43	4 53	19 45	2 30	25 15	4 36	24 34	1 28	21 19	0 32	23 3	0 21	12 41	0 45	6 50	2 2	29 54	13 21	21 28	21 44	15 57		n.a.
M21	10 26	0 16	4 17	19 57	2 26	25 17	4 34	24 34	1 31	21 19	0 31	23 3	0 21	12 41	0 45	6 49	2 2	29 54	13 21	21 27	21 43	15 55		n.a.
T 22	10 47	6s10	3 26	20 6	2 21	25 19	4 32	24 33	1 34	21 18	0 31	23 4	0 21	12 40	0 45	6 48	2 2	29 54	13 22	21 26	21 43	15 52		n.a.
W23	11 8	12 10	2 21	20 12	2 16	25 19	4 29	24 32	1 36	21 17	0 31	23 4	0 21	12 39	0 45	6 48	2 2	29 55	13 22	21 25	21 42	15 50		n.a.
T 24	11 28	17 25	1 10	20 17	2 9	25 19	4 26	24 31	1 39	21 17	0 31	23 5	0 21	12 39	0 45	6 47	2 2	29 55	13 22	21 25	21 41	15 48		n.a.
F 25	11 49	21 36	0s 4	20 19	2 2	25 17	4 23	24 30	1 42	21 16	0 31	23 5	0 21	12 38	0 45	6 47	2 2	29 55	13 23	21 24	21 41	15 45		n.a.
S 26	12 9	24 31	1 15	20 19	1 53	25 15	4 19	24 29	1 44	21 15	0 31	23 6	0 21	12 37	0 45	6 46	2 2	29 55	13 23	21 25	21 40	15 43		n.a.
S 27	12 29	26 3	2 21	20 17	1 43	25 12	4 15	24 28	1 47	21 15	0 31	23 6	0 20	12 37	0 45	6 45	2 2	29 55	13 23	21 25	21 40	15 40		n.a.
M28	12 49	26 12	3 18	20 12	1 33	25 9	4 10	24 27	1 50	21 14	0 31	23 7	0 20	12 36	0 45	6 45	2 2	29 55	13 24	21 25	21 39	15 38		n.a.
T 29	13 9	25 4	4 5	20 6	1 22	25 4	4 5	24 25	1 53	21 13	0 31	23 7	0 20	12 35	0 45	6 44	2 2	29 56	13 24	21 25	21 39	15 36		n.a.
W30	13n28	22s48	4s40	19n57	1n 9	24n58	3n59	24s24	1s55	21s12	0n31	23n 8	0s20	12s35	0s45	6s44	2n 2	29s56	13s24	21n25	21n38	15s33		n.a.

Julian Day Number = 1657229.5, Delta T = 03h27m43s
Ecliptic obliquity = 23°43'03, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°29'40, Lahiri = - 6°22'39 Julian Calendar 1 Apr. 176 BCE == Greg. Calendar 29 March 176 BCE

The year -175 astronomical counting style corresponds to year 176 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 176 BCE
geocentric

MAY 176 BCE (-175) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 21 20	6♉20'07	20♒35	23♉29	3°R14	18♋30	6°R46	21♊57	29♒16	21°R49	12♒54	5°R13	6♊24	2♓24	n.a.	T 1
F 2	14 25 17	7°17'29	2♓28	23°R32	3♊ 9	19° 0	6♐41	22° 3	29°18	21♎48	12°54	5♊11	6°21	2°31	n.a.	F 2
S 3	14 29 13	8°14'50	14°22	23°30	3° 1	19°30	6°35	22° 9	29°19	21°46	12°55	5° 8	6°17	2°38	n.a.	S 3
S 4	14 33 10	9°12'10	26°22	23°25	2°50	20° 0	6°29	22°16	29°21	21°45	12°55	5° 4	6°14	2°45	n.a.	S 4
M 5	14 37 6	10° 9'30	8♈30	23°14	2°38	20°29	6°23	22°22	29°23	21°43	12°55	5° 0	6°11	2°51	n.a.	M 5
T 6	14 41 3	11° 6'49	20°50	23° 0	2°23	20°58	6°17	22°29	29°24	21°41	12°56	4°56	6° 8	2°58	n.a.	T 6
W 7	14 45 0	12° 4'07	3♉22	22°42	2° 5	21°27	6°11	22°35	29°26	21°40	12°56	4°53	6° 5	3° 5	n.a.	W 7
T 8	14 48 56	13° 1'24	16° 7	22°20	1°45	21°55	6° 4	22°42	29°27	21°38	12°56	4°51	6° 1	3°11	n.a.	T 8
F 9	14 52 53	13°58'41	29° 7	21°55	1°24	22°24	5°58	22°48	29°29	21°37	12°56	4°D50	5°58	3°18	n.a.	F 9
S 10	14 56 49	14°55'57	12♊19	21°28	0°59	22°52	5°51	22°55	29°30	21°36	12°56	4°50	5°55	3°25	n.a.	S 10
S 11	15 0 46	15°53'12	25°45	20°58	0°33	23°19	5°44	23° 2	29°32	21°34	12°57	4°51	5°52	3°32	n.a.	S 11
M12	15 4 42	16°50'26	9♋22	20°26	0° 5	23°46	5°38	23° 8	29°33	21°33	12°57	4°52	5°49	3°38	n.a.	M12
T 13	15 8 39	17°47'39	23°12	19°53	29♉35	24°13	5°31	23°15	29°34	21°31	12°57	4°53	5°46	3°45	n.a.	T 13
W14	15 12 36	18°44'52	7♌12	19°19	29° 4	24°40	5°24	23°22	29°35	21°30	12°57	4°54	5°42	3°52	n.a.	W14
T 15	15 16 32	19°42'03	21°21	18°46	28°31	25° 6	5°17	23°29	29°37	21°28	12°57	4°R54	5°39	3°59	n.a.	T 15
F 16	15 20 29	20°39'14	5♍38	18°12	27°56	25°32	5° 9	23°36	29°38	21°27	12°57	4°54	5°36	4° 5	n.a.	F 16
S 17	15 24 25	21°36'23	19°58	17°40	27°21	25°57	5° 2	23°43	29°39	21°26	12°R57	4°53	5°33	4°12	n.a.	S 17
S 18	15 28 22	22°33'32	4♎20	17° 9	26°44	26°23	4°55	23°50	29°40	21°24	12°57	4°51	5°30	4°19	n.a.	S 18
M19	15 32 18	23°30'40	18°39	16°40	26° 7	26°47	4°48	23°57	29°41	21°23	12°57	4°50	5°27	4°25	n.a.	M19
T 20	15 36 15	24°27'47	2♏50	16°14	25°30	27°12	4°40	24° 4	29°42	21°22	12°57	4°49	5°23	4°32	n.a.	T 20
W21	15 40 11	25°24'54	16°49	15°51	24°52	27°36	4°33	24°11	29°43	21°20	12°57	4°48	5°20	4°39	n.a.	W21
T 22	15 44 8	26°22'01	0♐32	15°32	24°14	27°59	4°25	24°19	29°44	21°19	12°57	4°D48	5°17	4°46	n.a.	T 22
F 23	15 48 5	27°19'08	13°57	15°16	23°37	28°22	4°18	24°26	29°44	21°18	12°57	4°48	5°14	4°52	n.a.	F 23
S 24	15 52 1	28°16'14	27° 3	15° 4	23° 0	28°45	4°10	24°33	29°45	21°17	12°57	4°48	5°11	4°59	n.a.	S 24
S 25	15 55 58	29°13'20	9♑50	14°56	22°24	29° 7	4° 3	24°40	29°46	21°16	12°56	4°49	5° 7	5° 6	n.a.	S 25
M26	15 59 54	0♊10'26	22°20	14°D53	21°49	29°29	3°55	24°48	29°46	21°14	12°56	4°49	5° 4	5°13	n.a.	M26
T 27	16 3 51	1° 7'32	4♒34	14°55	21°16	29°50	3°47	24°55	29°47	21°13	12°56	4°50	5° 1	5°19	n.a.	T 27
W28	16 7 47	2° 4'38	16°38	15° 1	20°43	0♒11	3°40	25° 2	29°48	21°12	12°56	4°50	4°58	5°26	n.a.	W28
T 29	16 11 44	3° 1'44	28°34	15°13	20°13	0°31	3°32	25°10	29°48	21°11	12°55	4°R50	4°55	5°33	n.a.	T 29
F 30	16 15 40	3°58'50	10♓27	15°29	19°44	0°51	3°24	25°17	29°49	21°10	12°55	4°50	4°52	5°39	n.a.	F 30
S 31	16 19 37	4♊55'57	22♓23	15♉49	19♉17	1♒10	3♐17	25♊25	29♒49	21♎ 9	12♒55	4°D50	4♊48	5♓46	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	13n47	19s34	5s 3	19n46	0n56	24n52	3n53	24s23	1s58	21s11	0n31	23n 8	0s20	12s34	0s45	6s43	2n 2	29s56	13s25	21n25	21n38	15s31			n.a.
F 2	14 6	15 34	5 12	19 33	0 42	24 44	3 47	24 21	2 1	21 10	0 31	23 9	0 20	12 33	0 45	6 43	2 2	29 56	13 25	21 25	21 37	15 28			n.a.
S 3	14 25	10 58	5 9	19 19	0 28	24 36	3 40	24 20	2 4	21 10	0 31	23 9	0 20	12 33	0 45	6 42	2 2	29 56	13 25	21 24	21 37	15 26			n.a.
S 4	14 44	5 55	4 52	19 3	0 13	24 26	3 32	24 18	2 7	21 9	0 30	23 10	0 20	12 32	0 45	6 41	2 2	29 57	13 26	21 23	21 36	15 24			n.a.
M 5	15 2	0 35	4 21	18 45	0s 3	24 16	3 24	24 17	2 10	21 8	0 30	23 10	0 20	12 32	0 45	6 41	2 2	29 57	13 26	21 23	21 35	15 21			n.a.
T 6	15 20	4n51	3 38	18 25	0 20	24 4	3 16	24 15	2 13	21 7	0 30	23 11	0 19	12 31	0 45	6 40	2 2	29 57	13 27	21 22	21 35	15 19			n.a.
W 7	15 38	10 12	2 44	18 4	0 36	23 52	3 6	24 14	2 16	21 6	0 30	23 11	0 19	12 31	0 45	6 40	2 2	29 57	13 27	21 21	21 34	15 16			n.a.
T 8	15 56	15 15	1 41	17 43	0 53	23 38	2 57	24 12	2 19	21 5	0 30	23 12	0 19	12 30	0 45	6 39	2 2	29 58	13 27	21 21	21 34	15 14			n.a.
F 9	16 13	19 41	0 31	17 20	1 10	23 24	2 47	24 11	2 23	21 4	0 30	23 12	0 19	12 30	0 46	6 39	2 2	29 58	13 28	21 21	21 33	15 11			n.a.
S 10	16 30	23 13	0n41	16 56	1 27	23 8	2 36	24 9	2 26	21 3	0 30	23 13	0 19	12 29	0 46	6 38	2 2	29 58	13 28	21 21	21 33	15 9			n.a.
S 11	16 47	25 32	1 53	16 32	1 44	22 52	2 25	24 7	2 29	21 1	0 30	23 13	0 19	12 29	0 46	6 38	2 2	29 59	13 28	21 21	21 32	15 6			n.a.
M12	17 4	26 21	2 59	16 8	2 1	22 35	2 13	24 6	2 32	21 0	0 30	23 14	0 19	12 28	0 46	6 37	2 1	29 59	13 29	21 21	21 32	15 4			n.a.
T 13	17 20	25 34	3 56	15 43	2 17	22 16	2 1	24 4	2 36	20 59	0 30	23 14	0 19	12 28	0 46	6 37	2 1	29 59	13 29	21 22	21 31	15 1			n.a.
W14	17 36	23 11	4 40	15 19	2 32	21 57	1 49	24 3	2 39	20 58	0 29	23 14	0 19	12 28	0 46	6 36	2 1	30 0	13 29	21 22	21 30	14 59			n.a.
T 15	17 52	19 23	5 7	14 56	2 47	21 37	1 36	24 1	2 42	20 57	0 29	23 15	0 18	12 27	0 46	6 36	2 1	30 0	13 30	21 22	21 30	14 57			n.a.
F 16	18 7	14 26	5 16	14 34	3 0	21 17	1 23	24 0	2 46	20 56	0 29	23 15	0 18	12 27	0 46	6 35	2 1	30 0	13 30	21 22	21 29	14 54			n.a.
S 17	18 23	8 40	5 5	14 13	3 13	20 56	1 10	23 58	2 49	20 55	0 29	23 16	0 18	12 26	0 46	6 35	2 1	30 0	13 31	21 21	21 29	14 52			n.a.
S 18	18 37	2 27	4 35	13 53	3 25	20 34	0 56	23 57	2 53	20 53	0 29	23 16	0 18	12 26	0 46	6 34	2 1	30 1	13 31	21 21	21 28	14 49			n.a.
M19	18 52	3s53	3 48	13 35	3 35	20 12	0 42	23 56	2 56	20 52	0 29	23 17	0 18	12 26	0 46	6 34	2 1	30 1	13 31	21 21	21 28	14 47			n.a.
T 20	19 6	9 58	2 48	13 19	3 44	19 49	0 29	23 54	3 0	20 51	0 29	23 17	0 18	12 26	0 46	6 33	2 1	30 2	13 32	21 21	21 27	14 44			n.a.
W21	19 20	15 30	1 38	13 5	3 52	19 26	0 14	23 53	3 4	20 50	0 29	23 18	0 18	12 25	0 46	6 33	2 1	30 2	13 32	21 21	21 26	14 42			n.a.
T 22	19 34	20 7	0 24	12 53	3 58	19 3	0 0	23 52	3 7	20 48	0 28	23 18	0 18	12 25	0 46	6 32	2 1	30 2	13 32	21 21	21 26	14 39			n.a.
F 23	19 47	23 35	0s51	12 43	4 3	18 41	0s14	23 50	3 11	20 47	0 28	23 18	0 18	12 25	0 46	6 32	2 1	30 3	13 33	21 21	21 25	14 37			n.a.
S 24	20 0	25 41	2 0	12 36	4 7	18 18	0 27	23 49	3 15	20 46	0 28	23 19	0 17	12 25	0 46	6 32	2 1	30 3	13 33	21 21	21 25	14 34			n.a.
S 25	20 13	26 22	3 2	12 32	4 10	17 55	0 41	23 48	3 19	20 45	0 28	23 19	0 17	12 24	0 46	6 31	2 1	30 3	13 33	21 21	21 24	14 31			n.a.
M26	20 25	25 41	3 54	12 30	4 11	17 33	0 55	23 47	3 22	20 43	0 28	23 20	0 17	12 24	0 46	6 31	2 1	30 4	13 34	21 21	21 24	14 29			n.a.
T 27	20 37	23 46	4 34	12 30	4 11	17 11	1 8	23 47	3 26	20 42	0 28	23 20	0 17	12 24	0 46	6 30	2 1	30 4	13 34	21 21	21 23	14 26			n.a.
W28	20 49	20 48	5 1	12 34	4 9	16 50	1 21	23 46	3 30	20 41	0 28	23 20	0 17	12 24	0 46	6 30	2 1	30 5	13 34	21 21	21 22	14 24			n.a.
T 29	21 0	17 1	5 15	12 39	4 7	16 30	1 34	23 45	3 34	20 39	0 27	23 21	0 17	12 24	0 46	6 30	2 1	30 5	13 35	21 21	21 22	14 21			n.a.
F 30	21 11	12 35	5 15	12 47	4 3	16 10	1 46	23 45	3 38	20 38	0 27	23 21	0 17	12 23	0 46	6 29	2 1	30 5	13 35	21 21	21 21	14 19			n.a.
S 31	21n22	7s40	5s 2	12n58	3s59	15n51	1s58	23s44	3s42	20s37	0n27	23n21	0s17	12s23	0s46	6s29	2n 1	30s 6	13s35	21n21	21n21	14s16			n.a.

Julian Day Number = 1657259.5, Delta T = 03h27m42s
Ecliptic obliquity = 23°43'03, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°29'35, Lahiri = - 6°22'35 Julian Calendar 1 May 176 BCE == Greg. Calendar 28 Apr. 176 BCE

The year -175 astronomical counting style corresponds to year 176 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 176 BCE
geocentric

JUNE 176 BCE (-175) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 23 34	5♊53'03	4♈24	16♉15	18°R52	1♒29	3°R 9	25♊32	29♒49	21°R 8	12°R55	4♊50	4♊45	5♓53	n.a.	S 1
M 2	16 27 30	6°50'10	16°37	16°46	18♉29	1°47	3♐ 1	25°40	29°50	21♎ 7	12♒54	4°50	4°42	6° 0	n.a.	M 2
T 3	16 31 27	7°47'17	29° 2	17°21	18° 8	2° 5	2°54	25°47	29°50	21° 6	12°54	4°50	4°39	6° 6	n.a.	T 3
W 4	16 35 23	8°44'25	11♉45	18° 1	17°49	2°22	2°46	25°55	29°50	21° 5	12°53	4°51	4°36	6°13	n.a.	W 4
T 5	16 39 20	9°41'33	24°45	18°46	17°33	2°38	2°38	26° 2	29°50	21° 4	12°53	4°51	4°33	6°20	n.a.	T 5
F 6	16 43 16	10°38'41	8♊ 4	19°35	17°19	2°54	2°31	26°10	29°51	21° 3	12°52	4°R51	4°29	6°26	n.a.	F 6
S 7	16 47 13	11°35'49	21°41	20°30	17° 8	3° 9	2°23	26°17	29°51	21° 2	12°52	4°51	4°26	6°33	n.a.	S 7
S 8	16 51 10	12°32'57	5♋33	21°28	16°59	3°24	2°16	26°25	29°R51	21° 1	12°52	4°50	4°23	6°40	n.a.	S 8
M 9	16 55 6	13°30'06	19°37	22°31	16°52	3°37	2° 8	26°33	29°51	21° 0	12°51	4°49	4°20	6°47	n.a.	M 9
T 10	16 59 3	14°27'14	3♌49	23°39	16°48	3°51	2° 1	26°40	29°51	20°59	12°50	4°48	4°17	6°53	n.a.	T 10
W11	17 2 59	15°24'23	18° 7	24°50	16°D46	4° 3	1°54	26°48	29°50	20°59	12°50	4°47	4°13	7° 0	n.a.	W11
T 12	17 6 56	16°21'32	2♍25	26° 6	16°47	4°15	1°46	26°56	29°50	20°58	12°49	4°47	4°10	7° 7	n.a.	T 12
F 13	17 10 52	17°18'40	16°41	27°27	16°49	4°26	1°39	27° 3	29°50	20°57	12°49	4°D46	4° 7	7°14	n.a.	F 13
S 14	17 14 49	18°15'49	0♎52	28°51	16°54	4°37	1°32	27°11	29°50	20°56	12°48	4°46	4° 4	7°20	n.a.	S 14
S 15	17 18 45	19°12'58	14°56	0♏20	17° 1	4°47	1°25	27°19	29°50	20°56	12°48	4°47	4° 1	7°27	n.a.	S 15
M16	17 22 42	20°10'07	28°50	1°52	17°10	4°56	1°18	27°27	29°49	20°55	12°47	4°48	3°58	7°34	n.a.	M16
T 17	17 26 39	21° 7'16	12♏34	3°28	17°22	5° 4	1°11	27°34	29°49	20°54	12°46	4°49	3°54	7°40	n.a.	T 17
W18	17 30 35	22° 4'26	26° 6	5° 8	17°35	5°12	1° 5	27°42	29°48	20°54	12°45	4°50	3°51	7°47	n.a.	W18
T 19	17 34 32	23° 1'36	9♐25	6°52	17°50	5°19	0°58	27°50	29°48	20°53	12°45	4°R50	3°48	7°54	n.a.	T 19
F 20	17 38 28	23°58'47	22°31	8°39	18° 7	5°25	0°51	27°58	29°47	20°53	12°44	4°50	3°45	8° 1	n.a.	F 20
S 21	17 42 25	24°55'59	5♑22	10°29	18°27	5°31	0°45	28° 5	29°47	20°52	12°43	4°48	3°42	8° 7	n.a.	S 21
S 22	17 46 21	25°53'11	17°59	12°22	18°47	5°35	0°39	28°13	29°46	20°52	12°43	4°45	3°39	8°14	n.a.	S 22
M23	17 50 18	26°50'24	0♒23	14°18	19°10	5°39	0°32	28°21	29°45	20°51	12°42	4°42	3°35	8°21	n.a.	M23
T 24	17 54 14	27°47'38	12°34	16°16	19°34	5°42	0°26	28°29	29°45	20°51	12°41	4°38	3°32	8°28	n.a.	T 24
W25	17 58 11	28°44'53	24°36	18°16	20° 0	5°45	0°20	28°37	29°44	20°51	12°40	4°35	3°29	8°34	n.a.	W25
T 26	18 2 8	29°42'08	6♓32	20°18	20°28	5°46	0°15	28°44	29°43	20°50	12°39	4°32	3°26	8°41	n.a.	T 26
F 27	18 6 4	0♋39'25	18°25	22°21	20°57	5°R47	0° 9	28°52	29°42	20°50	12°38	4°30	3°23	8°48	n.a.	F 27
S 28	18 10 1	1°36'43	0♈19	24°26	21°28	5°47	0° 3	29° 0	29°41	20°50	12°37	4°D30	3°19	8°54	n.a.	S 28
S 29	18 13 57	2°34'02	12°20	26°31	22° 0	5°46	29♏58	29° 8	29°40	20°49	12°37	4°30	3°16	9° 1	n.a.	S 29
M30	18 17 54	3♋31'22	24♈32	28♊37	22♉33	5♒44	29♏53	29♊15	29♒39	20♎49	12♒36	4♊31	3♊13	9♓ 8	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n32	2s26	4s36	13n10	3s53	15n33	2s10	23s44	3s46	20s35	0n27	23n22	0s17	12s23	0s46	6s28	2n 1	30s 6	13s36	21n21	21n20	14s14		n.a.
M 2	21 42	2n58	3 57	13 25	3 47	15 16	2 21	23 43	3 50	20 34	0 27	23 22	0 17	12 23	0 46	6 28	2 1	30 7	13 36	21 21	21 19	14 11		n.a.
T 3	21 52	8 22	3 6	13 42	3 40	15 0	2 31	23 43	3 54	20 33	0 27	23 23	0 16	12 23	0 46	6 28	2 1	30 7	13 36	21 21	21 19	14 9		n.a.
W 4	22 1	13 34	2 5	14 1	3 32	14 45	2 42	23 43	3 58	20 31	0 27	23 23	0 16	12 23	0 47	6 27	2 1	30 8	13 37	21 21	21 18	14 6		n.a.
T 5	22 10	18 17	0 56	14 22	3 23	14 32	2 51	23 44	4 2	20 30	0 26	23 23	0 16	12 23	0 47	6 27	2 0	30 8	13 37	21 21	21 18	14 3		n.a.
F 6	22 18	22 12	0n18	14 44	3 13	14 19	3 0	23 44	4 6	20 29	0 26	23 23	0 16	12 23	0 47	6 27	2 0	30 8	13 37	21 21	21 17	14 1		n.a.
S 7	22 26	24 59	1 32	15 8	3 3	14 7	3 9	23 44	4 11	20 27	0 26	23 24	0 16	12 23	0 47	6 27	2 0	30 9	13 38	21 21	21 17	13 58		n.a.
S 8	22 34	26 18	2 42	15 34	2 53	13 57	3 17	23 45	4 15	20 26	0 26	23 24	0 16	12 23	0 47	6 26	2 0	30 9	13 38	21 21	21 16	13 56		n.a.
M 9	22 41	25 56	3 43	16 1	2 42	13 48	3 25	23 46	4 19	20 25	0 26	23 24	0 16	12 23	0 47	6 26	2 0	30 10	13 38	21 21	21 15	13 53		n.a.
T 10	22 48	23 54	4 31	16 29	2 30	13 40	3 32	23 47	4 23	20 23	0 26	23 25	0 16	12 23	0 47	6 26	2 0	30 10	13 39	21 21	21 15	13 51		n.a.
W11	22 54	20 22	5 3	16 58	2 18	13 33	3 39	23 48	4 28	20 22	0 25	23 25	0 16	12 23	0 47	6 26	2 0	30 11	13 39	21 20	21 14	13 48		n.a.
T 12	23 1	15 38	5 16	17 28	2 6	13 27	3 45	23 49	4 32	20 21	0 25	23 25	0 16	12 23	0 47	6 25	2 0	30 11	13 39	21 20	21 14	13 45		n.a.
F 13	23 6	10 3	5 9	17 58	1 54	13 22	3 51	23 50	4 36	20 19	0 25	23 26	0 16	12 23	0 47	6 25	2 0	30 12	13 40	21 20	21 13	13 43		n.a.
S 14	23 12	3 59	4 44	18 30	1 41	13 18	3 57	23 52	4 41	20 18	0 25	23 26	0 15	12 24	0 47	6 25	2 0	30 12	13 40	21 20	21 12	13 40		n.a.
S 15	23 16	2s14	4 2	19 1	1 28	13 15	4 2	23 54	4 45	20 17	0 25	23 26	0 15	12 24	0 47	6 25	2 0	30 13	13 40	21 20	21 12	13 38		n.a.
M16	23 21	8 18	3 6	19 33	1 15	13 13	4 6	23 56	4 49	20 16	0 25	23 26	0 15	12 24	0 47	6 24	2 0	30 13	13 41	21 21	21 11	13 35		n.a.
T 17	23 25	13 53	2 0	20 4	1 2	13 12	4 10	23 58	4 54	20 14	0 24	23 27	0 15	12 24	0 47	6 24	2 0	30 14	13 41	21 21	21 11	13 32		n.a.
W18	23 29	18 44	0 48	20 36	0 50	13 13	4 14	24 0	4 58	20 13	0 24	23 27	0 15	12 24	0 47	6 24	2 0	30 14	13 41	21 21	21 10	13 30		n.a.
T 19	23 32	22 32	0s25	21 6	0 37	13 14	4 18	24 2	5 2	20 12	0 24	23 27	0 15	12 24	0 47	6 24	2 0	30 15	13 42	21 21	21 9	13 27		n.a.
F 20	23 35	25 6	1 36	21 36	0 24	13 15	4 21	24 5	5 7	20 11	0 24	23 27	0 15	12 25	0 47	6 24	2 0	30 15	13 42	21 21	21 9	13 24		n.a.
S 21	23 37	26 16	2 40	22 5	0 12	13 18	4 23	24 8	5 11	20 10	0 24	23 27	0 15	12 25	0 47	6 24	2 0	30 16	13 42	21 21	21 8	13 22		n.a.
S 22	23 39	26 3	3 35	22 32	0 0	13 22	4 26	24 11	5 15	20 8	0 23	23 28	0 15	12 25	0 47	6 24	1 59	30 16	13 42	21 20	21 8	13 19		n.a.
M23	23 41	24 31	4 19	22 58	0n12	13 26	4 27	24 14	5 20	20 7	0 23	23 28	0 15	12 25	0 47	6 23	1 59	30 17	13 43	21 19	21 7	13 17		n.a.
T 24	23 42	21 52	4 51	23 22	0 23	13 31	4 29	24 17	5 24	20 6	0 23	23 28	0 15	12 26	0 47	6 23	1 59	30 17	13 43	21 19	21 6	13 14		n.a.
W25	23 43	18 19	5 9	23 45	0 33	13 36	4 31	24 21	5 28	20 5	0 23	23 28	0 14	12 26	0 47	6 23	1 59	30 18	13 43	21 18	21 6	13 11		n.a.
T 26	23 43	14 3	5 13	24 5	0 43	13 43	4 32	24 24	5 32	20 4	0 23	23 28	0 14	12 26	0 47	6 23	1 59	30 18	13 43	21 18	21 5	13 9		n.a.
F 27	23 43	9 17	5 4	24 22	0 53	13 49	4 32	24 28	5 37	20 3	0 23	23 29	0 14	12 27	0 47	6 23	1 59	30 19	13 44	21 17	21 4	13 6		n.a.
S 28	23 42	4 11	4 42	24 37	1 1	13 57	4 33	24 32	5 41	20 2	0 22	23 29	0 14	12 27	0 47	6 23	1 59	30 19	13 44	21 17	21 4	13 3		n.a.
S 29	23 42	1n 8	4 8	24 49	1 9	14 5	4 33	24 36	5 45	20 1	0 22	23 29	0 14	12 27	0 47	6 23	1 59	30 20	13 44	21 17	21 3	13 1		n.a.
M30	23n40	6n29	3s22	24n59	1n16	14n13	4s33	24s41	5s49	20s 0	0n22	23n29	0s14	12s28	0s48	6s23	1n59	30s20	13s45	21n17	21n 3	12s58		n.a.

Julian Day Number = 1657290.5, Delta T = 03h27m41s
Ecliptic obliquity = 23°43'03, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°29'31, Lahiri = - 6°22'31 Julian Calendar 1 June 176 BCE == Greg. Calendar 29 May 176 BCE

The year -175 astronomical counting style corresponds to year 176 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 176 BCE
geocentric

JULY 176 BCE (-175) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 21 50	4♋28'44	6♉59	0♋43	23♉ 8	5°R42	29°R47	29♊23	29°R38	20°R49	12°R35	4♊33	3♊10	9♓15	n.a.	T 1
W 2	18 25 47	5°26'06	19°46	2°49	23°43	5♒38	29♏42	29°31	29♒37	20♎49	12♒34	4°34	3° 7	9°21	n.a.	W 2
T 3	18 29 43	6°23'30	2♊55	4°54	24°21	5°34	29°38	29°39	29°36	20°49	12°33	4°R35	3° 4	9°28	n.a.	T 3
F 4	18 33 40	7°20'56	16°28	6°59	24°59	5°29	29°33	29°47	29°35	20°49	12°32	4°35	3° 0	9°35	n.a.	F 4
S 5	18 37 37	8°18'22	0♋24	9° 4	25°38	5°24	29°28	29°54	29°34	20°49	12°31	4°32	2°57	9°42	n.a.	S 5
S 6	18 41 33	9°15'50	14°40	11° 7	26°19	5°17	29°24	0♋ 2	29°32	20°D49	12°30	4°29	2°54	9°48	n.a.	S 6
M 7	18 45 30	10°13'19	29°12	13° 9	27° 0	5°10	29°20	0°10	29°31	20°49	12°29	4°24	2°51	9°55	n.a.	M 7
T 8	18 49 26	11°10'48	13♌52	15°10	27°43	5° 2	29°16	0°17	29°30	20°49	12°28	4°19	2°48	10° 2	n.a.	T 8
W 9	18 53 23	12° 8'19	28°34	17°10	28°26	4°53	29°12	0°25	29°28	20°49	12°27	4°14	2°45	10° 8	n.a.	W 9
T 10	18 57 19	13° 5'51	13♍10	19° 8	29°10	4°44	29° 8	0°33	29°27	20°49	12°26	4° 9	2°41	10°15	n.a.	T 10
F 11	19 1 16	14° 3'23	27°35	21° 6	29°56	4°34	29° 5	0°40	29°26	20°49	12°25	4° 6	2°38	10°22	n.a.	F 11
S 12	19 5 13	15° 0'57	11♎47	23° 1	0♊42	4°23	29° 1	0°48	29°24	20°49	12°24	4°D 5	2°35	10°29	n.a.	S 12
S 13	19 9 9	15°58'31	25°42	24°56	1°29	4°12	28°58	0°56	29°23	20°49	12°22	4° 6	2°32	10°35	n.a.	S 13
M14	19 13 6	16°56'07	9♏21	26°48	2°16	4° 0	28°55	1° 3	29°21	20°49	12°21	4° 7	2°29	10°42	n.a.	M14
T 15	19 17 2	17°53'44	22°45	28°40	3° 5	3°48	28°52	1°11	29°19	20°50	12°20	4° 8	2°25	10°49	n.a.	T 15
W16	19 20 59	18°51'21	5♐54	0♌30	3°54	3°35	28°50	1°18	29°18	20°50	12°19	4°R 9	2°22	10°55	n.a.	W16
T 17	19 24 55	19°49'01	18°51	2°18	4°44	3°21	28°47	1°26	29°16	20°50	12°18	4° 7	2°19	11° 2	n.a.	T 17
F 18	19 28 52	20°46'41	1♑36	4° 5	5°34	3° 7	28°45	1°33	29°14	20°51	12°17	4° 4	2°16	11° 9	n.a.	F 18
S 19	19 32 48	21°44'23	14°10	5°51	6°26	2°53	28°43	1°41	29°13	20°51	12°16	3°59	2°13	11°16	n.a.	S 19
S 20	19 36 45	22°42'06	26°34	7°35	7°18	2°38	28°41	1°48	29°11	20°51	12°15	3°52	2°10	11°22	n.a.	S 20
M21	19 40 42	23°39'51	8♒48	9°18	8°10	2°23	28°39	1°56	29° 9	20°52	12°13	3°43	2° 6	11°29	n.a.	M21
T 22	19 44 38	24°37'37	20°53	10°59	9° 4	2° 8	28°38	2° 3	29° 7	20°52	12°12	3°34	2° 3	11°36	n.a.	T 22
W23	19 48 35	25°35'25	2♓51	12°39	9°57	1°53	28°36	2°11	29° 5	20°53	12°11	3°24	2° 0	11°43	n.a.	W23
T 24	19 52 31	26°33'15	14°45	14°17	10°52	1°37	28°35	2°18	29° 4	20°53	12°10	3°16	1°57	11°49	n.a.	T 24
F 25	19 56 28	27°31'06	26°36	15°55	11°47	1°21	28°34	2°25	29° 2	20°54	12° 9	3°10	1°54	11°56	n.a.	F 25
S 26	20 0 24	28°29'00	8♈29	17°30	12°42	1° 5	28°33	2°33	29° 0	20°55	12° 7	3° 5	1°51	12° 3	n.a.	S 26
S 27	20 4 21	29°26'55	20°27	19° 5	13°38	0°49	28°33	2°40	28°58	20°55	12° 6	3° 3	1°47	12° 9	n.a.	S 27
M28	20 8 17	0♌24'52	2♉36	20°38	14°35	0°33	28°32	2°47	28°56	20°56	12° 5	3°D 2	1°44	12°16	n.a.	M28
T 29	20 12 14	1°22'51	15° 1	22°10	15°32	0°16	28°32	2°54	28°54	20°57	12° 4	3° 3	1°41	12°23	n.a.	T 29
W30	20 16 11	2°20'52	27°45	23°40	16°29	0° 0	28°D32	3° 1	28°52	20°57	12° 2	3°R 4	1°38	12°30	n.a.	W30
T 31	20 20 7	3♌18'56	10♊55	25♌ 9	17♊27	29♑44	28♏32	3♋ 9	28♒49	20♎58	12♒ 1	3♊ 4	1♊35	12♓36	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23n38	11n43	2s25	25n 6	1n23	14n22	4s33	24s45	5s53	19s59	0n22	23n29	0s14	12s28	0s48	6s23	1n59	30s21	13s45	21n18	21n 2	12s55			n.a.
W 2	23 36	16 36	1 20	25 10	1 29	14 31	4 33	24 50	5 57	19 58	0 22	23 29	0 14	12 29	0 48	6 23	1 59	30 21	13 45	21 18	21 1	12 53			n.a.
T 3	23 34	20 50	0 9	25 11	1 34	14 41	4 32	24 55	6 0	19 57	0 21	23 29	0 14	12 29	0 48	6 23	1 59	30 22	13 45	21 18	21 1	12 50			n.a.
F 4	23 31	24 5	1n 4	25 10	1 38	14 51	4 31	25 0	6 4	19 57	0 21	23 29	0 14	12 30	0 48	6 23	1 59	30 22	13 45	21 18	21 0	12 47			n.a.
S 5	23 27	25 59	2 16	25 5	1 41	15 1	4 30	25 5	6 8	19 56	0 21	23 30	0 14	12 30	0 48	6 23	1 59	30 23	13 46	21 18	21 0	12 45			n.a.
S 6	23 23	26 14	3 21	24 58	1 44	15 12	4 29	25 10	6 11	19 55	0 21	23 30	0 13	12 31	0 48	6 23	1 59	30 23	13 46	21 17	20 59	12 42			n.a.
M 7	23 19	24 41	4 14	24 49	1 46	15 23	4 27	25 15	6 15	19 54	0 21	23 30	0 13	12 31	0 48	6 23	1 59	30 24	13 46	21 16	20 58	12 39			n.a.
T 8	23 14	21 29	4 51	24 37	1 47	15 34	4 26	25 20	6 18	19 54	0 20	23 30	0 13	12 31	0 48	6 23	1 58	30 24	13 46	21 15	20 58	12 37			n.a.
W 9	23 9	16 55	5 9	24 23	1 48	15 45	4 24	25 25	6 21	19 53	0 20	23 30	0 13	12 32	0 48	6 23	1 58	30 25	13 47	21 14	20 57	12 34			n.a.
T 10	23 4	11 23	5 6	24 7	1 48	15 57	4 22	25 31	6 25	19 52	0 20	23 30	0 13	12 33	0 48	6 23	1 58	30 26	13 47	21 13	20 56	12 31			n.a.
F 11	22 58	5 19	4 45	23 49	1 48	16 8	4 20	25 36	6 28	19 52	0 20	23 30	0 13	12 33	0 48	6 24	1 58	30 26	13 47	21 13	20 56	12 28			n.a.
S 12	22 52	0s57	4 6	23 28	1 46	16 20	4 18	25 42	6 30	19 51	0 20	23 30	0 13	12 34	0 48	6 24	1 58	30 27	13 47	21 13	20 55	12 26			n.a.
S 13	22 45	7 3	3 13	23 6	1 45	16 32	4 15	25 47	6 33	19 51	0 19	23 30	0 13	12 34	0 48	6 24	1 58	30 27	13 47	21 13	20 55	12 23			n.a.
M14	22 38	12 43	2 10	22 43	1 42	16 44	4 13	25 52	6 36	19 50	0 19	23 30	0 13	12 35	0 48	6 24	1 58	30 28	13 48	21 13	20 54	12 20			n.a.
T 15	22 30	17 41	1 1	22 18	1 40	16 56	4 10	25 58	6 38	19 50	0 19	23 30	0 13	12 35	0 48	6 24	1 58	30 28	13 48	21 13	20 53	12 18			n.a.
W16	22 22	21 42	0s10	21 51	1 36	17 7	4 7	26 3	6 40	19 49	0 19	23 30	0 13	12 36	0 48	6 24	1 58	30 29	13 48	21 13	20 53	12 15			n.a.
T 17	22 14	24 33	1 19	21 23	1 33	17 19	4 4	26 8	6 42	19 49	0 19	23 30	0 13	12 37	0 48	6 25	1 58	30 29	13 48	21 13	20 52	12 12			n.a.
F 18	22 5	26 5	2 23	20 54	1 29	17 31	4 1	26 14	6 44	19 49	0 19	23 30	0 12	12 37	0 48	6 25	1 58	30 30	13 48	21 12	20 51	12 9			n.a.
S 19	21 56	26 14	3 18	20 23	1 24	17 43	3 58	26 19	6 46	19 48	0 18	23 30	0 12	12 38	0 48	6 25	1 58	30 30	13 48	21 11	20 51	12 7			n.a.
S 20	21 47	25 4	4 4	19 52	1 19	17 55	3 55	26 24	6 47	19 48	0 18	23 30	0 12	12 39	0 48	6 25	1 58	30 31	13 49	21 10	20 50	12 4			n.a.
M21	21 37	22 44	4 38	19 19	1 14	18 7	3 52	26 29	6 49	19 48	0 18	23 30	0 12	12 39	0 48	6 25	1 58	30 31	13 49	21 8	20 49	12 1			n.a.
T 22	21 27	19 24	4 58	18 46	1 8	18 18	3 48	26 33	6 50	19 48	0 18	23 30	0 12	12 40	0 48	6 26	1 58	30 32	13 49	21 7	20 49	11 58			n.a.
W23	21 16	15 19	5 6	18 12	1 3	18 30	3 45	26 38	6 51	19 48	0 18	23 30	0 12	12 41	0 48	6 26	1 57	30 32	13 49	21 5	20 48	11 56			n.a.
T 24	21 5	10 40	5 0	17 38	0 56	18 41	3 41	26 42	6 52	19 48	0 17	23 30	0 12	12 41	0 48	6 26	1 57	30 33	13 49	21 3	20 48	11 53			n.a.
F 25	20 54	5 39	4 41	17 3	0 50	18 52	3 37	26 47	6 52	19 48	0 17	23 30	0 12	12 42	0 48	6 26	1 57	30 33	13 49	21 2	20 47	11 50			n.a.
S 26	20 42	0 25	4 10	16 27	0 43	19 3	3 34	26 51	6 53	19 48	0 17	23 30	0 12	12 43	0 48	6 27	1 57	30 34	13 49	21 1	20 46	11 47			n.a.
S 27	20 30	4n53	3 28	15 51	0 36	19 14	3 30	26 55	6 53	19 48	0 17	23 30	0 12	12 43	0 48	6 27	1 57	30 34	13 49	21 1	20 46	11 45			n.a.
M28	20 18	10 5	2 35	15 14	0 29	19 25	3 26	26 58	6 53	19 48	0 17	23 30	0 12	12 44	0 48	6 27	1 57	30 34	13 50	21 1	20 45	11 42			n.a.
T 29	20 5	15 1	1 35	14 37	0 22	19 35	3 22	27 2	6 52	19 48	0 16	23 30	0 12	12 45	0 48	6 28	1 57	30 35	13 50	21 1	20 44	11 39			n.a.
W30	19 52	19 26	0 28	14 0	0 14	19 45	3 18	27 5	6 52	19 48	0 16	23 29	0 11	12 46	0 48	6 28	1 57	30 35	13 50	21 1	20 44	11 36			n.a.
T 31	19n38	23n 2	0n42	13n23	0n 6	19n54	3s13	27s 8	6s51	19s48	0n16	23n29	0s11	12s46	0s48	6s28	1n57	30s36	13s50	21n 1	20n43	11s34			n.a.

Julian Day Number = 1657320.5, Delta T = 03h27m40s
Ecliptic obliquity = 23°43'03, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°29'27, Lahiri = - 6°22'27 Julian Calendar 1 July 176 BCE == Greg. Calendar 28 June 176 BCE

The year -175 astronomical counting style corresponds to year 176 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 176 BCE
geocentric

AUGUST 176 BCE (-175) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 24 4	4♌17'01	24♊32	26♌37	18♊25	29°R28	28♏32	3♋16	28°R47	20♎59	12°R 0	3°R 2	1♊31	12♓43	n.a.	F 1
S 2	20 28 0	5°15'08	8♋37	28° 3	19°24	29♑13	28°33	3°23	28♒45	21° 0	11♒59	2♊57	1°28	12°50	n.a.	S 2
S 3	20 31 57	6°13'18	23° 8	29°28	20°23	28°57	28°34	3°30	28°43	21° 1	11°57	2°51	1°25	12°57	n.a.	S 3
M 4	20 35 53	7°11'29	7♌59	0♍52	21°23	28°42	28°35	3°37	28°41	21° 2	11°56	2°42	1°22	13° 3	n.a.	M 4
T 5	20 39 50	8° 9'42	23° 3	2°14	22°23	28°27	28°36	3°44	28°39	21° 3	11°55	2°32	1°19	13°10	n.a.	T 5
W 6	20 43 46	9° 7'56	8♍ 8	3°35	23°23	28°13	28°37	3°50	28°36	21° 3	11°54	2°23	1°16	13°17	n.a.	W 6
T 7	20 47 43	10° 6'13	23° 6	4°54	24°24	27°59	28°38	3°57	28°34	21° 4	11°52	2°14	1°12	13°23	n.a.	T 7
F 8	20 51 40	11° 4'30	7♎48	6°11	25°25	27°46	28°40	4° 4	28°32	21° 5	11°51	2° 8	1° 9	13°30	n.a.	F 8
S 9	20 55 36	12° 2'50	22°10	7°27	26°26	27°33	28°42	4°11	28°30	21° 7	11°50	2° 5	1° 6	13°37	n.a.	S 9
S 10	20 59 33	13° 1'11	6♏ 7	8°41	27°28	27°20	28°44	4°17	28°27	21° 8	11°49	2° 3	1° 3	13°44	n.a.	S 10
M11	21 3 29	13°59'34	19°42	9°53	28°30	27° 9	28°46	4°24	28°25	21° 9	11°47	2°D 3	1° 0	13°50	n.a.	M11
T 12	21 7 26	14°57'59	2♐56	11° 4	29°33	26°57	28°49	4°31	28°23	21°10	11°46	2°R 3	0°57	13°57	n.a.	T 12
W13	21 11 22	15°56'25	15°52	12°12	0♋35	26°47	28°51	4°37	28°20	21°11	11°45	2° 3	0°53	14° 4	n.a.	W13
T 14	21 15 19	16°54'53	28°33	13°19	1°38	26°37	28°54	4°44	28°18	21°12	11°44	2° 0	0°50	14°10	n.a.	T 14
F 15	21 19 15	17°53'23	11♑ 1	14°23	2°42	26°28	28°57	4°50	28°16	21°13	11°42	1°55	0°47	14°17	n.a.	F 15
S 16	21 23 12	18°51'55	23°20	15°25	3°45	26°19	29° 0	4°56	28°13	21°15	11°41	1°46	0°44	14°24	n.a.	S 16
S 17	21 27 9	19°50'28	5♒31	16°25	4°49	26°11	29° 3	5° 3	28°11	21°16	11°40	1°35	0°41	14°31	n.a.	S 17
M18	21 31 5	20°49'04	17°35	17°21	5°53	26° 4	29° 7	5° 9	28° 9	21°17	11°39	1°23	0°37	14°37	n.a.	M18
T 19	21 35 2	21°47'41	29°34	18°16	6°58	25°58	29°11	5°15	28° 6	21°19	11°37	1° 9	0°34	14°44	n.a.	T 19
W20	21 38 58	22°46'21	11♓29	19° 7	8° 2	25°52	29°14	5°21	28° 4	21°20	11°36	0°55	0°31	14°51	n.a.	W20
T 21	21 42 55	23°45'03	23°20	19°54	9° 7	25°47	29°19	5°27	28° 1	21°21	11°35	0°42	0°28	14°57	n.a.	T 21
F 22	21 46 51	24°43'47	5♈11	20°38	10°13	25°43	29°23	5°33	27°59	21°23	11°34	0°32	0°25	15° 4	n.a.	F 22
S 23	21 50 48	25°42'33	17° 4	21°19	11°18	25°40	29°27	5°39	27°57	21°24	11°33	0°24	0°22	15°11	n.a.	S 23
S 24	21 54 44	26°41'21	29° 1	21°55	12°24	25°37	29°32	5°45	27°54	21°26	11°31	0°19	0°18	15°18	n.a.	S 24
M25	21 58 41	27°40'12	11♉ 8	22°27	13°30	25°36	29°36	5°51	27°52	21°27	11°30	0°17	0°15	15°24	n.a.	M25
T 26	22 2 37	28°39'05	23°30	22°54	14°36	25°35	29°41	5°57	27°49	21°29	11°29	0°16	0°12	15°31	n.a.	T 26
W27	22 6 34	29°38'01	6♊10	23°16	15°42	25°D35	29°46	6° 2	27°47	21°30	11°28	0°16	0° 9	15°38	n.a.	W27
T 28	22 10 31	0♍36'59	19°14	23°32	16°49	25°35	29°52	6° 8	27°44	21°32	11°27	0°16	0° 6	15°45	n.a.	T 28
F 29	22 14 27	1°36'00	2♋45	23°42	17°56	25°37	29°57	6°13	27°42	21°33	11°25	0°13	0° 2	15°51	n.a.	F 29
S 30	22 18 24	2°35'03	16°47	23°R46	19° 3	25°39	0♐ 2	6°19	27°40	21°35	11°24	0° 9	29♉59	15°58	n.a.	S 30
S 31	22 22 20	3♍34'08	1♌18	23♍43	20♋10	25♑42	0♐ 8	6♋24	27♒37	21♎37	11♒23	0♊ 1	29♉56	16♓ 5	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	19n25	25n28	1n52	12n45	0s 2	20n 4	3s 9	27s11	6s50	19s48	0n16	23n29	0s11	12s47	0s48	6s29	1n57	30s36	13s50	21n 0	20n42	11s31		n.a.
S 2	19 11	26 23	2 57	12 8	0 10	20 13	3 5	27 13	6 49	19 49	0 16	23 29	0 11	12 48	0 48	6 29	1 57	30 37	13 50	21 0	20 42	11 28		n.a.
S 3	18 56	25 33	3 54	11 30	0 18	20 22	3 1	27 15	6 48	19 49	0 16	23 29	0 11	12 49	0 48	6 29	1 57	30 37	13 50	20 58	20 41	11 25		n.a.
M 4	18 41	22 54	4 35	10 53	0 27	20 30	2 56	27 17	6 47	19 49	0 15	23 29	0 11	12 49	0 48	6 30	1 57	30 38	13 50	20 57	20 40	11 22		n.a.
T 5	18 26	18 41	4 58	10 15	0 35	20 38	2 52	27 19	6 45	19 50	0 15	23 29	0 11	12 50	0 48	6 30	1 57	30 38	13 50	20 55	20 40	11 20		n.a.
W 6	18 11	13 15	5 1	9 38	0 44	20 46	2 48	27 20	6 43	19 50	0 15	23 29	0 11	12 51	0 48	6 31	1 57	30 39	13 50	20 53	20 39	11 17		n.a.
T 7	17 55	7 5	4 43	9 1	0 52	20 53	2 43	27 21	6 41	19 51	0 15	23 29	0 11	12 52	0 48	6 31	1 56	30 39	13 50	20 51	20 38	11 14		n.a.
F 8	17 39	0 38	4 6	8 24	1 1	21 0	2 39	27 22	6 39	19 51	0 15	23 29	0 11	12 53	0 48	6 32	1 56	30 39	13 50	20 50	20 38	11 11		n.a.
S 9	17 23	5s43	3 15	7 48	1 10	21 6	2 34	27 22	6 37	19 52	0 14	23 28	0 11	12 53	0 49	6 32	1 56	30 40	13 50	20 49	20 37	11 8		n.a.
S 10	17 6	11 38	2 13	7 12	1 19	21 12	2 29	27 22	6 34	19 53	0 14	23 28	0 11	12 54	0 49	6 32	1 56	30 40	13 50	20 49	20 36	11 6		n.a.
M11	16 49	16 49	1 5	6 36	1 27	21 18	2 25	27 22	6 32	19 53	0 14	23 28	0 10	12 55	0 49	6 33	1 56	30 41	13 50	20 49	20 36	11 3		n.a.
T 12	16 32	21 4	0s 5	6 1	1 36	21 23	2 20	27 22	6 29	19 54	0 14	23 28	0 10	12 56	0 49	6 33	1 56	30 41	13 50	20 49	20 35	11 0		n.a.
W13	16 15	24 10	1 13	5 27	1 45	21 27	2 16	27 21	6 26	19 55	0 14	23 28	0 10	12 57	0 49	6 34	1 56	30 41	13 50	20 49	20 34	10 57		n.a.
T 14	15 57	25 58	2 15	4 53	1 54	21 31	2 11	27 20	6 23	19 56	0 14	23 28	0 10	12 58	0 49	6 34	1 56	30 42	13 50	20 48	20 34	10 54		n.a.
F 15	15 39	26 25	3 10	4 20	2 3	21 35	2 6	27 19	6 20	19 56	0 13	23 28	0 10	12 58	0 49	6 35	1 56	30 42	13 50	20 47	20 33	10 51		n.a.
S 16	15 21	25 33	3 56	3 48	2 11	21 38	2 2	27 17	6 17	19 57	0 13	23 27	0 10	12 59	0 49	6 35	1 56	30 43	13 50	20 45	20 32	10 49		n.a.
S 17	15 2	23 28	4 30	3 17	2 20	21 41	1 57	27 16	6 13	19 58	0 13	23 27	0 10	13 0	0 49	6 36	1 56	30 43	13 50	20 43	20 32	10 46		n.a.
M18	14 43	20 21	4 51	2 47	2 28	21 43	1 52	27 14	6 10	19 59	0 13	23 27	0 10	13 1	0 49	6 37	1 56	30 43	13 50	20 41	20 31	10 43		n.a.
T 19	14 24	16 25	4 59	2 18	2 36	21 45	1 48	27 11	6 6	20 0	0 13	23 27	0 10	13 2	0 49	6 37	1 56	30 44	13 50	20 38	20 30	10 40		n.a.
W20	14 5	11 52	4 55	1 51	2 44	21 46	1 43	27 9	6 3	20 1	0 13	23 27	0 10	13 3	0 49	6 38	1 56	30 44	13 50	20 35	20 30	10 37		n.a.
T 21	13 46	6 54	4 37	1 25	2 52	21 46	1 38	27 6	5 59	20 2	0 12	23 27	0 10	13 3	0 49	6 38	1 56	30 44	13 50	20 32	20 29	10 34		n.a.
F 22	13 26	1 42	4 7	1 0	3 0	21 46	1 34	27 3	5 55	20 3	0 12	23 26	0 10	13 4	0 49	6 39	1 56	30 45	13 50	20 30	20 28	10 32		n.a.
S 23	13 6	3n36	3 27	0 38	3 7	21 45	1 29	27 0	5 51	20 4	0 12	23 26	0 10	13 5	0 49	6 39	1 56	30 45	13 50	20 28	20 28	10 29		n.a.
S 24	12 46	8 49	2 37	0 17	3 14	21 44	1 24	26 57	5 47	20 5	0 12	23 26	0 9	13 6	0 49	6 40	1 56	30 45	13 50	20 27	20 27	10 26		n.a.
M25	12 25	13 46	1 39	0s 1	3 20	21 42	1 20	26 53	5 43	20 7	0 12	23 26	0 9	13 7	0 49	6 41	1 55	30 46	13 50	20 27	20 26	10 23		n.a.
T 26	12 5	18 17	0 36	0 18	3 26	21 40	1 15	26 49	5 39	20 8	0 12	23 26	0 9	13 8	0 49	6 41	1 55	30 46	13 50	20 27	20 26	10 20		n.a.
W27	11 44	22 6	0n31	0 31	3 31	21 37	1 10	26 45	5 35	20 9	0 11	23 25	0 9	13 9	0 49	6 42	1 55	30 46	13 50	20 27	20 25	10 17		n.a.
T 28	11 23	24 55	1 38	0 42	3 35	21 34	1 6	26 41	5 31	20 10	0 11	23 25	0 9	13 9	0 49	6 43	1 55	30 46	13 50	20 27	20 24	10 14		n.a.
F 29	11 2	26 24	2 42	0 49	3 39	21 30	1 1	26 37	5 27	20 12	0 11	23 25	0 9	13 10	0 49	6 43	1 55	30 47	13 50	20 26	20 24	10 12		n.a.
S 30	10 40	26 16	3 39	0 53	3 42	21 25	0 57	26 32	5 23	20 13	0 11	23 25	0 9	13 11	0 49	6 44	1 55	30 47	13 50	20 25	20 23	10 9		n.a.
S 31	10n19	24n23	4n24	0s53	3s43	21n20	0s52	26s28	5s18	20s14	0n11	23n25	0s 9	13s12	0s49	6s44	1n55	30s47	13s50	20n23	20n22	10s 6		n.a.

Julian Day Number = 1657351.5, Delta T = 03h27m39s
Ecliptic obliquity = 23°43'03, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°29'23, Lahiri = - 6°22'22 Julian Calendar 1 Aug. 176 BCE == Greg. Calendar 29 July 176 BCE

The year -175 astronomical counting style corresponds to year 176 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 176 BCE
geocentric

SEPTEMBER 176 BCE (-175) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 26 17	4♍33'16	16♌14	23°R33	21♋18	25♉45	0♐14	6♋30	27°R35	21♎38	11°R22	29°R51	29♉53	16♓11	n.a.	M 1
T 2	22 30 13	5°32'25	1♍27	23♍16	22°25	25°50	0°20	6°35	27♒32	21°40	11♒21	29♉40	29°50	16°18	n.a.	T 2
W 3	22 34 10	6°31'37	16°47	22°50	23°33	25°55	0°26	6°40	27°30	21°42	11°20	29°29	29°47	16°25	n.a.	W 3
T 4	22 38 6	7°30'51	2♎ 1	22°17	24°41	26° 1	0°33	6°45	27°28	21°43	11°19	29°19	29°43	16°32	n.a.	T 4
F 5	22 42 3	8°30'07	17° 0	21°36	25°50	26° 8	0°39	6°50	27°25	21°45	11°17	29°11	29°40	16°38	n.a.	F 5
S 6	22 46 0	9°29'25	1♏36	20°48	26°58	26°16	0°46	6°55	27°23	21°47	11°16	29° 7	29°37	16°45	n.a.	S 6
S 7	22 49 56	10°28'45	15°44	19°53	28° 7	26°24	0°53	7° 0	27°21	21°49	11°15	29° 4	29°34	16°52	n.a.	S 7
M 8	22 53 53	11°28'07	29°25	18°51	29°15	26°33	1° 0	7° 5	27°18	21°50	11°14	29°D 4	29°31	16°58	n.a.	M 8
T 9	22 57 49	12°27'31	12♐39	17°45	0♌24	26°43	1° 7	7° 9	27°16	21°52	11°13	29°R 4	29°28	17° 5	n.a.	T 9
W10	23 1 46	13°26'56	25°32	16°35	1°33	26°54	1°14	7°14	27°14	21°54	11°12	29° 4	29°24	17°12	n.a.	W10
T 11	23 5 42	14°26'24	8♑ 6	15°23	2°43	27° 5	1°21	7°18	27°11	21°56	11°11	29° 1	29°21	17°19	n.a.	T 11
F 12	23 9 39	15°25'53	20°25	14°12	3°52	27°17	1°29	7°23	27° 9	21°58	11°10	28°56	29°18	17°25	n.a.	F 12
S 13	23 13 35	16°25'24	2♒35	13° 2	5° 2	27°29	1°37	7°27	27° 7	22° 0	11° 9	28°49	29°15	17°32	n.a.	S 13
S 14	23 17 32	17°24'57	14°36	11°57	6°11	27°43	1°45	7°31	27° 5	22° 2	11° 8	28°39	29°12	17°39	n.a.	S 14
M15	23 21 29	18°24'32	26°33	10°57	7°21	27°56	1°53	7°36	27° 2	22° 4	11° 7	28°26	29° 8	17°45	n.a.	M15
T 16	23 25 25	19°24'10	8♓27	10° 6	8°31	28°11	2° 1	7°40	27° 0	22° 6	11° 6	28°13	29° 5	17°52	n.a.	T 16
W17	23 29 22	20°23'49	20°20	9°23	9°41	28°26	2° 9	7°44	26°58	22° 8	11° 5	28° 0	29° 2	17°59	n.a.	W17
T 18	23 33 18	21°23'30	2♈12	8°51	10°52	28°42	2°17	7°47	26°56	22°10	11° 4	27°48	28°59	18° 6	n.a.	T 18
F 19	23 37 15	22°23'13	14° 5	8°30	12° 2	28°58	2°26	7°51	26°54	22°12	11° 3	27°38	28°56	18°12	n.a.	F 19
S 20	23 41 11	23°22'59	26° 2	8°D20	13°13	29°15	2°34	7°55	26°52	22°14	11° 3	27°31	28°53	18°19	n.a.	S 20
S 21	23 45 8	24°22'46	8♉ 4	8°21	14°24	29°32	2°43	7°59	26°50	22°16	11° 2	27°26	28°49	18°26	n.a.	S 21
M22	23 49 4	25°22'37	20°15	8°34	15°34	29°50	2°52	8° 2	26°48	22°18	11° 1	27°24	28°46	18°32	n.a.	M22
T 23	23 53 1	26°22'29	2♊38	8°56	16°45	0♒ 9	3° 1	8° 6	26°46	22°20	11° 0	27°D24	28°43	18°39	n.a.	T 23
W24	23 56 57	27°22'24	15°17	9°29	17°57	0°28	3°10	8° 9	26°44	22°22	10°59	27°25	28°40	18°46	n.a.	W24
T 25	0 0 54	28°22'21	28°17	10°10	19° 8	0°47	3°20	8°12	26°42	22°24	10°58	27°R26	28°37	18°53	n.a.	T 25
F 26	0 4 51	29°22'20	11♋41	11° 0	20°19	1° 7	3°29	8°15	26°40	22°26	10°58	27°25	28°34	18°59	n.a.	F 26
S 27	0 8 47	0♎22'22	25°32	11°57	21°31	1°28	3°38	8°18	26°38	22°28	10°57	27°22	28°30	19° 6	n.a.	S 27
S 28	0 12 44	1°22'26	9♌51	13° 0	22°42	1°49	3°48	8°21	26°36	22°30	10°56	27°17	28°27	19°13	n.a.	S 28
M29	0 16 40	2°22'32	24°35	14° 9	23°54	2°11	3°58	8°24	26°34	22°32	10°56	27°10	28°24	19°19	n.a.	M29
T 30	0 20 37	3♎22'41	9♍40	15♍23	25♌ 6	2♒33	4♐ 8	8♋27	26♒32	22♎34	10♒55	27♉ 2	28♉21	19♓26	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
M 1	9n57	20n47	4n52	0s50	3s44	21n14	0s48	26s23	5s14	20s16	0n11	23n25	0s 9	13s13	0s49	6s45	1n55	30s48	13s50	20n21	20n22	10s 3		n.a.	M 1
T 2	9 35	15 44	5 0	0 42	3 43	21 7	0 43	26 18	5 10	20 17	0 10	23 24	0 9	13 14	0 49	6 46	1 55	30 48	13 49	20 19	20 21	10 0		n.a.	T 2
W 3	9 13	9 40	4 47	0 30	3 41	21 0	0 39	26 12	5 6	20 19	0 10	23 24	0 9	13 14	0 49	6 46	1 55	30 48	13 49	20 16	20 20	9 57		n.a.	W 3
T 4	8 51	3 3	4 13	0 13	3 37	20 52	0 34	26 7	5 1	20 20	0 10	23 24	0 9	13 15	0 49	6 47	1 55	30 48	13 49	20 14	20 20	9 54		n.a.	T 4
F 5	8 29	3s38	3 23	0n 8	3 31	20 44	0 30	26 2	4 57	20 22	0 10	23 24	0 8	13 16	0 49	6 48	1 55	30 48	13 49	20 13	20 19	9 51		n.a.	F 5
S 6	8 6	9 59	2 20	0 34	3 24	20 35	0 26	25 56	4 53	20 23	0 10	23 24	0 8	13 17	0 49	6 49	1 55	30 49	13 49	20 12	20 18	9 48		n.a.	S 6
S 7	7 43	15 38	1 10	1 5	3 14	20 26	0 21	25 50	4 49	20 25	0 10	23 24	0 8	13 18	0 49	6 49	1 55	30 49	13 49	20 11	20 18	9 46		n.a.	S 7
M 8	7 21	20 17	0s 2	1 40	3 3	20 16	0 17	25 44	4 44	20 26	0 10	23 23	0 8	13 18	0 49	6 50	1 55	30 49	13 49	20 11	20 17	9 43		n.a.	M 8
T 9	6 58	23 45	1 11	2 18	2 49	20 5	0 13	25 38	4 40	20 28	0 9	23 23	0 8	13 19	0 49	6 51	1 55	30 49	13 49	20 11	20 16	9 40		n.a.	T 9
W10	6 35	25 54	2 15	2 59	2 34	19 54	0 9	25 32	4 36	20 30	0 9	23 23	0 8	13 20	0 49	6 51	1 55	30 49	13 48	20 11	20 15	9 37		n.a.	W10
T 11	6 12	26 39	3 11	3 43	2 17	19 42	0 5	25 25	4 32	20 31	0 9	23 23	0 8	13 21	0 49	6 52	1 55	30 50	13 48	20 10	20 15	9 34		n.a.	T 11
F 12	5 48	26 2	3 57	4 28	1 59	19 30	0 1	25 19	4 28	20 33	0 9	23 23	0 8	13 22	0 48	6 53	1 55	30 50	13 48	20 9	20 14	9 31		n.a.	F 12
S 13	5 25	24 12	4 31	5 13	1 40	19 17	0n 3	25 12	4 23	20 35	0 9	23 23	0 8	13 22	0 48	6 54	1 55	30 50	13 48	20 8	20 13	9 28		n.a.	S 13
S 14	5 2	21 17	4 52	5 56	1 20	19 4	0 7	25 5	4 19	20 37	0 9	23 22	0 8	13 23	0 48	6 54	1 55	30 50	13 48	20 5	20 13	9 25		n.a.	S 14
M15	4 38	17 31	5 1	6 38	0 59	18 50	0 11	24 59	4 15	20 38	0 9	23 22	0 8	13 24	0 48	6 55	1 55	30 50	13 48	20 3	20 12	9 22		n.a.	M15
T 16	4 15	13 4	4 56	7 17	0 39	18 35	0 15	24 52	4 11	20 40	0 8	23 22	0 8	13 25	0 48	6 56	1 55	30 50	13 47	20 0	20 11	9 19		n.a.	T 16
W17	3 51	8 8	4 39	7 51	0 19	18 20	0 19	24 44	4 7	20 42	0 8	23 22	0 7	13 25	0 48	6 57	1 54	30 50	13 47	19 57	20 11	9 16		n.a.	W17
T 18	3 27	2 55	4 9	8 21	0n 1	18 4	0 22	24 37	4 3	20 44	0 8	23 22	0 7	13 26	0 48	6 58	1 54	30 50	13 47	19 54	20 10	9 13		n.a.	T 18
F 19	3 3	2n25	3 29	8 46	0 19	17 48	0 26	24 30	3 59	20 46	0 8	23 22	0 7	13 27	0 48	6 58	1 54	30 51	13 47	19 52	20 9	9 11		n.a.	F 19
S 20	2 39	7 42	2 39	9 5	0 36	17 31	0 30	24 22	3 55	20 47	0 8	23 21	0 7	13 27	0 48	6 59	1 54	30 51	13 47	19 50	20 8	9 8		n.a.	S 20
S 21	2 15	12 46	1 41	9 19	0 51	17 14	0 33	24 15	3 51	20 49	0 8	23 21	0 7	13 28	0 48	7 0	1 54	30 51	13 47	19 49	20 8	9 5		n.a.	S 21
M22	1 51	17 24	0 38	9 28	1 5	16 56	0 36	24 7	3 47	20 51	0 8	23 21	0 7	13 29	0 48	7 1	1 54	30 51	13 46	19 49	20 7	9 2		n.a.	M22
T 23	1 27	21 23	0n28	9 31	1 18	16 38	0 40	23 59	3 43	20 53	0 7	23 21	0 7	13 30	0 48	7 1	1 54	30 51	13 46	19 49	20 6	8 59		n.a.	T 23
W24	1 3	24 27	1 34	9 28	1 29	16 19	0 43	23 51	3 39	20 55	0 7	23 21	0 7	13 30	0 48	7 2	1 54	30 51	13 46	19 49	20 6	8 56		n.a.	W24
T 25	0 39	26 20	2 37	9 21	1 38	16 0	0 46	23 43	3 36	20 57	0 7	23 21	0 7	13 31	0 48	7 3	1 54	30 51	13 46	19 49	20 5	8 53		n.a.	T 25
F 26	0 15	26 45	3 34	9 9	1 46	15 40	0 49	23 35	3 32	20 59	0 7	23 21	0 7	13 32	0 48	7 4	1 54	30 51	13 45	19 49	20 4	8 50		n.a.	F 26
S 27	0s 9	25 32	4 20	8 53	1 52	15 19	0 52	23 27	3 28	21 1	0 7	23 21	0 7	13 32	0 48	7 5	1 54	30 51	13 45	19 48	20 4	8 47		n.a.	S 27
S 28	0 33	22 40	4 52	8 33	1 58	14 59	0 55	23 18	3 25	21 3	0 7	23 21	0 7	13 33	0 48	7 6	1 54	30 51	13 45	19 47	20 3	8 44		n.a.	S 28
M29	0 57	18 16	5 5	8 10	2 1	14 38	0 58	23 10	3 21	21 5	0 7	23 20	0 6	13 33	0 48	7 6	1 54	30 51	13 45	19 45	20 2	8 41		n.a.	M29
T 30	1s21	12n38	4n58	7n44	2n 4	14n16	1n 1	23s 1	3s17	21s 7	0n 6	23n20	0s 6	13s34	0s48	7s 7	1n54	30s51	13s45	19n43	20n 1	8s38		n.a.	T 30

Julian Day Number = 1657382.5, Delta T = 03h27m38s
Ecliptic obliquity = 23°43'04, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°29'19, Lahiri = - 6°22'18 Julian Calendar 1 Sept. 176 BCE == Greg. Calendar 29 Aug. 176 BCE

The year -175 astronomical counting style corresponds to year 176 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 176 BCE
geocentric

OCTOBER 176 BCE (-175) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 24 33	4♎22'51	24♍55	16♍42	26♌18	2♒55	4♐18	8♋29	26°R31	22♎37	10°R54	26°R53	28♉18	19♓33	n.a.	W 1
T 2	0 28 30	5°23'03	10♎11	18° 3	27°30	3°18	4°28	8°32	26♒29	22°39	10♒54	26♉46	28°14	19°40	n.a.	T 2
F 3	0 32 26	6°23'18	25°16	19°28	28°42	3°41	4°38	8°34	26°27	22°41	10°53	26°40	28°11	19°46	n.a.	F 3
S 4	0 36 23	7°23'34	10♏ 1	20°56	29°54	4° 5	4°48	8°37	26°26	22°43	10°52	26°37	28° 8	19°53	n.a.	S 4
S 5	0 40 20	8°23'51	24°20	22°25	1♍ 7	4°29	4°59	8°39	26°24	22°45	10°52	26°D36	28° 5	20° 0	n.a.	S 5
M 6	0 44 16	9°24'11	8♐11	23°56	2°19	4°54	5° 9	8°41	26°22	22°48	10°51	26°36	28° 2	20° 6	n.a.	M 6
T 7	0 48 13	10°24'32	21°33	25°29	3°32	5°19	5°20	8°43	26°21	22°50	10°51	26°37	27°59	20°13	n.a.	T 7
W 8	0 52 9	11°24'55	4♑31	27° 3	4°44	5°44	5°31	8°45	26°19	22°52	10°50	26°38	27°55	20°20	n.a.	W 8
T 9	0 56 6	12°25'19	17° 6	28°37	5°57	6°10	5°41	8°46	26°18	22°54	10°50	26°R39	27°52	20°27	n.a.	T 9
F 10	1 0 2	13°25'45	29°25	0♎13	7°10	6°36	5°52	8°48	26°16	22°56	10°49	26°37	27°49	20°33	n.a.	F 10
S 11	1 3 59	14°26'12	11♒31	1°48	8°23	7° 2	6° 3	8°50	26°15	22°59	10°49	26°34	27°46	20°40	n.a.	S 11
S 12	1 7 55	15°26'40	23°29	3°25	9°35	7°29	6°14	8°51	26°14	23° 1	10°48	26°28	27°43	20°47	n.a.	S 12
M13	1 11 52	16°27'10	5♓22	5° 1	10°48	7°56	6°26	8°52	26°12	23° 3	10°48	26°21	27°39	20°53	n.a.	M13
T 14	1 15 49	17°27'42	17°14	6°37	12° 2	8°24	6°37	8°54	26°11	23° 5	10°47	26°14	27°36	21° 0	n.a.	T 14
W15	1 19 45	18°28'15	29° 6	8°14	13°15	8°51	6°48	8°55	26°10	23° 8	10°47	26° 6	27°33	21° 7	n.a.	W15
T 16	1 23 42	19°28'50	11♈ 1	9°51	14°28	9°19	7° 0	8°56	26° 9	23°10	10°47	26° 0	27°30	21°14	n.a.	T 16
F 17	1 27 38	20°29'26	23° 1	11°27	15°41	9°48	7°11	8°57	26° 8	23°12	10°47	25°54	27°27	21°20	n.a.	F 17
S 18	1 31 35	21°30'04	5♉ 7	13° 4	16°55	10°16	7°23	8°57	26° 7	23°14	10°46	25°50	27°24	21°27	n.a.	S 18
S 19	1 35 31	22°30'43	17°21	14°40	18° 8	10°45	7°35	8°58	26° 6	23°17	10°46	25°48	27°20	21°34	n.a.	S 19
M20	1 39 28	23°31'24	29°43	16°16	19°22	11°14	7°47	8°59	26° 5	23°19	10°46	25°D48	27°17	21°40	n.a.	M20
T 21	1 43 24	24°32'07	12♊17	17°52	20°35	11°44	7°58	8°59	26° 4	23°21	10°46	25°49	27°14	21°47	n.a.	T 21
W22	1 47 21	25°32'52	25° 5	19°28	21°49	12°14	8°10	8°59	26° 3	23°23	10°45	25°51	27°11	21°54	n.a.	W22
T 23	1 51 17	26°33'38	8♋ 9	21° 4	23° 3	12°44	8°23	8°59	26° 2	23°26	10°45	25°52	27° 8	22° 1	n.a.	T 23
F 24	1 55 14	27°34'26	21°31	22°39	24°17	13°14	8°35	9°R 0	26° 1	23°28	10°45	25°R53	27° 5	22° 7	n.a.	F 24
S 25	1 59 11	28°35'16	5♌15	24°15	25°31	13°44	8°47	9° 0	26° 0	23°30	10°45	25°53	27° 1	22°14	n.a.	S 25
S 26	2 3 7	29°36'07	19°20	25°50	26°44	14°15	8°59	8°59	26° 0	23°32	10°45	25°52	26°58	22°21	n.a.	S 26
M27	2 7 4	0♏37'00	3♍45	27°25	27°58	14°46	9°11	8°59	25°59	23°35	10°45	25°49	26°55	22°27	n.a.	M27
T 28	2 11 0	1°37'54	18°28	29° 0	29°13	15°17	9°24	8°59	25°58	23°37	10°45	25°46	26°52	22°34	n.a.	T 28
W29	2 14 57	2°38'50	3♎22	0♏35	0♎27	15°48	9°36	8°58	25°58	23°39	10°D45	25°43	26°49	22°41	n.a.	W29
T 30	2 18 53	3°39'47	18°20	2°10	1°41	16°20	9°49	8°58	25°57	23°41	10°45	25°40	26°45	22°48	n.a.	T 30
F 31	2 22 50	4♏40'46	3♏13	3♏44	2♎55	16♒52	10♐ 2	8♋57	25♒57	23♎44	10♒45	25♉38	26♉42	22♓54	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	1s46	6n10	4n30	7n15	2n 6	13n54	1n 4	22s52	3s14	21s 9	0n 6	23n20	0s 6	13s35	0s48	7s 8	1n54	30s51	13s44	19n41	20n 1	8s35		n.a.
T 2	2 10	0s40	3 43	6 43	2 7	13 31	1 7	22 44	3 10	21 11	0 6	23 20	0 6	13 35	0 48	7 9	1 54	30 51	13 44	19 40	20 0	8 32		n.a.
F 3	2 34	7 24	2 40	6 9	2 7	13 8	1 9	22 35	3 7	21 13	0 6	23 20	0 6	13 36	0 48	7 10	1 54	30 51	13 44	19 38	19 59	8 29		n.a.
S 4	2 58	13 36	1 28	5 34	2 6	12 45	1 12	22 25	3 3	21 15	0 6	23 20	0 6	13 36	0 48	7 10	1 54	30 51	13 44	19 37	19 59	8 26		n.a.
S 5	3 22	18 53	0 12	4 56	2 4	12 22	1 14	22 16	3 0	21 17	0 6	23 20	0 6	13 37	0 48	7 11	1 54	30 51	13 43	19 37	19 58	8 23		n.a.
M 6	3 46	22 57	1s 2	4 18	2 2	11 57	1 16	22 7	2 57	21 19	0 6	23 20	0 6	13 37	0 48	7 12	1 54	30 51	13 43	19 37	19 57	8 20		n.a.
T 7	4 10	25 37	2 11	3 38	1 59	11 33	1 19	21 57	2 53	21 21	0 6	23 20	0 6	13 38	0 48	7 13	1 54	30 51	13 43	19 38	19 56	8 17		n.a.
W 8	4 34	26 49	3 10	2 57	1 56	11 8	1 21	21 48	2 50	21 23	0 5	23 20	0 6	13 38	0 48	7 14	1 54	30 50	13 43	19 38	19 56	8 14		n.a.
T 9	4 58	26 33	3 59	2 16	1 52	10 43	1 23	21 38	2 47	21 25	0 5	23 20	0 6	13 39	0 48	7 15	1 54	30 50	13 42	19 38	19 55	8 11		n.a.
F 10	5 22	24 59	4 35	1 34	1 48	10 18	1 25	21 28	2 43	21 27	0 5	23 20	0 6	13 39	0 48	7 16	1 54	30 50	13 42	19 38	19 54	8 8		n.a.
S 11	5 45	22 18	4 59	0 51	1 43	9 52	1 27	21 19	2 40	21 29	0 5	23 20	0 5	13 40	0 48	7 16	1 54	30 50	13 42	19 37	19 53	8 5		n.a.
S 12	6 9	18 42	5 9	0 8	1 38	9 26	1 29	21 9	2 37	21 31	0 5	23 20	0 5	13 40	0 48	7 17	1 54	30 50	13 42	19 35	19 53	8 2		n.a.
M13	6 33	14 22	5 5	0s36	1 33	8 59	1 31	20 58	2 34	21 33	0 5	23 20	0 5	13 41	0 48	7 18	1 54	30 50	13 41	19 34	19 52	7 59		n.a.
T 14	6 56	9 32	4 49	1 19	1 28	8 33	1 32	20 48	2 31	21 35	0 5	23 20	0 5	13 41	0 48	7 19	1 54	30 50	13 41	19 32	19 51	7 56		n.a.
W15	7 19	4 20	4 20	2 3	1 22	8 6	1 34	20 38	2 28	21 37	0 5	23 20	0 5	13 41	0 48	7 20	1 54	30 50	13 41	19 30	19 51	7 53		n.a.
T 16	7 43	1n 3	3 40	2 47	1 16	7 39	1 35	20 27	2 25	21 40	0 4	23 20	0 5	13 42	0 48	7 21	1 54	30 49	13 40	19 29	19 50	7 50		n.a.
F 17	8 6	6 26	2 49	3 31	1 10	7 11	1 37	20 17	2 22	21 42	0 4	23 20	0 5	13 42	0 48	7 21	1 54	30 49	13 40	19 27	19 49	7 47		n.a.
S 18	8 29	11 39	1 50	4 14	1 4	6 44	1 38	20 6	2 19	21 44	0 4	23 20	0 5	13 42	0 48	7 22	1 54	30 49	13 40	19 26	19 48	7 44		n.a.
S 19	8 52	16 28	0 46	4 58	0 57	6 16	1 39	19 55	2 16	21 46	0 4	23 20	0 5	13 43	0 48	7 23	1 54	30 49	13 40	19 26	19 48	7 41		n.a.
M20	9 14	20 41	0n21	5 41	0 51	5 48	1 40	19 44	2 13	21 48	0 4	23 20	0 5	13 43	0 48	7 24	1 54	30 49	13 39	19 26	19 47	7 38		n.a.
T 21	9 37	24 0	1 29	6 24	0 45	5 19	1 41	19 33	2 11	21 50	0 4	23 20	0 4	13 43	0 47	7 25	1 54	30 48	13 39	19 26	19 46	7 35		n.a.
W22	9 59	26 11	2 34	7 7	0 38	4 51	1 42	19 22	2 8	21 52	0 4	23 20	0 4	13 44	0 47	7 26	1 54	30 48	13 39	19 26	19 45	7 32		n.a.
T 23	10 22	26 59	3 31	7 50	0 31	4 22	1 43	19 11	2 5	21 54	0 4	23 20	0 4	13 44	0 47	7 26	1 54	30 48	13 38	19 27	19 45	7 29		n.a.
F 24	10 44	26 14	4 19	8 32	0 25	3 53	1 44	19 0	2 2	21 56	0 3	23 20	0 4	13 44	0 47	7 27	1 54	30 48	13 38	19 27	19 44	7 26		n.a.
S 25	11 6	23 55	4 54	9 14	0 18	3 24	1 45	18 48	2 0	21 58	0 3	23 20	0 4	13 44	0 47	7 28	1 54	30 47	13 38	19 27	19 43	7 23		n.a.
S 26	11 28	20 7	5 12	9 55	0 12	2 55	1 45	18 37	1 57	22 0	0 3	23 21	0 4	13 44	0 47	7 29	1 54	30 47	13 38	19 27	19 42	7 20		n.a.
M27	11 49	15 4	5 11	10 36	0 5	2 26	1 46	18 25	1 55	22 2	0 3	23 21	0 4	13 45	0 47	7 30	1 54	30 47	13 37	19 26	19 42	7 17		n.a.
T 28	12 11	9 3	4 50	11 16	0s 2	1 56	1 46	18 13	1 52	22 4	0 3	23 21	0 4	13 45	0 47	7 31	1 54	30 47	13 37	19 25	19 41	7 14		n.a.
W29	12 32	2 27	4 9	11 56	0 8	1 27	1 47	18 1	1 49	22 6	0 3	23 21	0 4	13 45	0 47	7 31	1 54	30 46	13 37	19 25	19 40	7 11		n.a.
T 30	12 53	4s20	3 11	12 36	0 15	0 57	1 47	17 49	1 47	22 8	0 3	23 21	0 4	13 45	0 47	7 32	1 54	30 46	13 36	19 24	19 40	7 8		n.a.
F 31	13s14	10s51	2n 0	13s14	0s21	0n28	1n47	17s37	1s44	22s10	0n 3	23n21	0s 4	13s45	0s47	7s33	1n54	30s46	13s36	19n23	19n39	7s 5		n.a.

Julian Day Number = 1657412.5, Delta T = 03h27m37s
Ecliptic obliquity = 23°43'05, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°29'15, Lahiri = - 6°22'14 Julian Calendar 1 Oct. 176 BCE == Greg. Calendar 28 Sept. 176 BCE

The year -175 astronomical counting style corresponds to year 176 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 176 BCE
geocentric

NOVEMBER 176 BCE (-175) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 26 46	5♏41'45	17♏53	5♏19	4♎ 9	17♒24	10♐14	8°R56	25°R56	23♎46	10♒45	25°R37	26♉39	23♓ 1	n.a.	S 1
S 2	2 30 43	6°42'46	2♐13	6°53	5°23	17°56	10°27	8♋55	25♒56	23°48	10°45	25°D36	26°36	23° 8	n.a.	S 2
M 3	2 34 40	7°43'48	16° 8	8°27	6°38	18°28	10°40	8°54	25°56	23°50	10°45	25♉37	26°33	23°14	n.a.	M 3
T 4	2 38 36	8°44'51	29°38	10° 2	7°52	19° 1	10°53	8°53	25°56	23°53	10°45	25°39	26°30	23°21	n.a.	T 4
W 5	2 42 33	9°45'55	12♑43	11°36	9° 7	19°34	11° 6	8°52	25°55	23°55	10°46	25°40	26°26	23°28	n.a.	W 5
T 6	2 46 29	10°46'59	25°25	13°10	10°21	20° 7	11°19	8°50	25°55	23°57	10°46	25°41	26°23	23°34	n.a.	T 6
F 7	2 50 26	11°48'04	7♒48	14°45	11°35	20°40	11°32	8°49	25°55	23°59	10°46	25°R42	26°20	23°41	n.a.	F 7
S 8	2 54 22	12°49'09	19°55	16°19	12°50	21°13	11°45	8°47	25°D55	24° 1	10°46	25°42	26°17	23°48	n.a.	S 8
S 9	2 58 19	13°50'16	1♓53	17°53	14° 4	21°46	11°58	8°46	25°55	24° 3	10°46	25°41	26°14	23°55	n.a.	S 9
M10	3 2 16	14°51'22	13°46	19°27	15°19	22°20	12°11	8°44	25°55	24° 6	10°47	25°40	26°11	24° 1	n.a.	M10
T 11	3 6 12	15°52'29	25°37	21° 2	16°34	22°54	12°24	8°42	25°55	24° 8	10°47	25°38	26° 7	24° 8	n.a.	T 11
W12	3 10 9	16°53'37	7♈30	22°36	17°48	23°28	12°38	8°40	25°55	24°10	10°47	25°37	26° 4	24°15	n.a.	W12
T 13	3 14 5	17°54'45	19°30	24°11	19° 3	24° 2	12°51	8°38	25°56	24°12	10°48	25°36	26° 1	24°21	n.a.	T 13
F 14	3 18 2	18°55'54	1♉37	25°45	20°18	24°36	13° 4	8°35	25°56	24°14	10°48	25°35	25°58	24°28	n.a.	F 14
S 15	3 21 58	19°57'04	13°55	27°20	21°32	25°10	13°18	8°33	25°56	24°16	10°49	25°34	25°55	24°35	n.a.	S 15
S 16	3 25 55	20°58'14	26°24	28°55	22°47	25°45	13°31	8°31	25°57	24°18	10°49	25°D34	25°51	24°42	n.a.	S 16
M17	3 29 51	21°59'25	9♊ 6	0♐30	24° 2	26°19	13°45	8°28	25°57	24°20	10°50	25°34	25°48	24°48	n.a.	M17
T 18	3 33 48	23° 0'36	22° 0	2° 5	25°17	26°54	13°58	8°25	25°57	24°22	10°50	25°35	25°45	24°55	n.a.	T 18
W19	3 37 45	24° 1'49	5♋ 8	3°40	26°31	27°29	14°12	8°23	25°58	24°24	10°51	25°35	25°42	25° 2	n.a.	W19
T 20	3 41 41	25° 3'01	18°29	5°15	27°46	28° 4	14°26	8°20	25°59	24°26	10°51	25°35	25°39	25° 8	n.a.	T 20
F 21	3 45 38	26° 4'15	2♌ 3	6°50	29° 1	28°39	14°39	8°17	25°59	24°28	10°52	25°R35	25°36	25°15	n.a.	F 21
S 22	3 49 34	27° 5'29	15°50	8°25	0♏16	29°14	14°53	8°14	26° 0	24°30	10°52	25°35	25°32	25°22	n.a.	S 22
S 23	3 53 31	28° 6'44	29°49	10° 0	1°31	29°49	15° 7	8°11	26° 1	24°32	10°53	25°D35	25°29	25°28	n.a.	S 23
M24	3 57 27	29° 7'59	14♍ 0	11°35	2°46	0♓24	15°20	8° 8	26° 1	24°34	10°54	25°35	25°26	25°35	n.a.	M24
T 25	4 1 24	0♐ 9'15	28°21	13° 9	4° 1	1° 0	15°34	8° 4	26° 2	24°36	10°54	25°35	25°23	25°42	n.a.	T 25
W26	4 5 20	1°10'31	12♎47	14°44	5°16	1°35	15°48	8° 1	26° 3	24°38	10°55	25°36	25°20	25°49	n.a.	W26
T 27	4 9 17	2°11'47	27°16	16°18	6°31	2°11	16° 2	7°58	26° 4	24°40	10°56	25°36	25°17	25°55	n.a.	T 27
F 28	4 13 14	3°13'05	11♏43	17°51	7°46	2°47	16°16	7°54	26° 5	24°42	10°56	25°37	25°13	26° 2	n.a.	F 28
S 29	4 17 10	4°14'22	26° 1	19°24	9° 1	3°23	16°30	7°50	26° 6	24°44	10°57	25°R37	25°10	26° 9	n.a.	S 29
S 30	4 21 7	5♐15'39	10♐ 6	20♐57	10♏16	3♓59	16♐43	7♋47	26♒ 7	24♎46	10♒58	25♉37	25♉ 7	26♓15	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s34	16s41	0n43	13s53	0s28	0s 2	1n47	17s25	1s42	22s12	0n 3	23n21	0s 3	13s45	0s47	7s34	1n54	30s45	13s36	19n23	19n38	7s 2		n.a.
S 2	13 55	21 26	0s36	14 30	0 34	0 32	1 47	17 13	1 40	22 14	0 2	23 22	0 3	13 45	0 47	7 35	1 54	30 45	13 36	19 23	19 37	6 59		n.a.
M 3	14 15	24 50	1 51	15 7	0 40	1 1	1 47	17 0	1 37	22 16	0 2	23 22	0 3	13 46	0 47	7 36	1 54	30 45	13 35	19 23	19 37	6 56		n.a.
T 4	14 35	26 40	2 57	15 44	0 46	1 31	1 47	16 48	1 35	22 18	0 2	23 22	0 3	13 46	0 47	7 36	1 54	30 45	13 35	19 24	19 36	6 53		n.a.
W 5	14 55	26 57	3 52	16 19	0 52	2 1	1 47	16 35	1 33	22 20	0 2	23 22	0 3	13 46	0 47	7 37	1 54	30 44	13 35	19 24	19 35	6 50		n.a.
T 6	15 14	25 47	4 33	16 54	0 58	2 31	1 46	16 23	1 30	22 22	0 2	23 22	0 3	13 46	0 47	7 38	1 54	30 44	13 34	19 24	19 34	6 46		n.a.
F 7	15 33	23 22	5 1	17 28	1 4	3 1	1 46	16 10	1 28	22 24	0 2	23 22	0 3	13 46	0 47	7 39	1 54	30 43	13 34	19 24	19 34	6 43		n.a.
S 8	15 52	19 58	5 15	18 1	1 10	3 30	1 46	15 57	1 26	22 26	0 2	23 23	0 3	13 46	0 47	7 40	1 54	30 43	13 34	19 24	19 33	6 40		n.a.
S 9	16 11	15 48	5 15	18 34	1 15	4 0	1 45	15 44	1 24	22 28	0 2	23 23	0 3	13 46	0 47	7 40	1 54	30 43	13 33	19 24	19 32	6 37		n.a.
M10	16 29	11 4	5 1	19 5	1 21	4 30	1 44	15 31	1 22	22 29	0 2	23 23	0 3	13 45	0 47	7 41	1 54	30 42	13 33	19 24	19 31	6 34		n.a.
T 11	16 47	5 57	4 34	19 36	1 26	4 59	1 44	15 18	1 19	22 31	0 1	23 23	0 2	13 45	0 47	7 42	1 54	30 42	13 33	19 24	19 31	6 31		n.a.
W12	17 5	0 36	3 56	20 6	1 31	5 29	1 43	15 4	1 17	22 33	0 1	23 24	0 2	13 45	0 47	7 43	1 54	30 42	13 33	19 23	19 30	6 28		n.a.
T 13	17 22	4n50	3 7	20 34	1 35	5 58	1 42	14 51	1 15	22 35	0 1	23 24	0 2	13 45	0 47	7 43	1 54	30 41	13 32	19 23	19 29	6 25		n.a.
F 14	17 39	10 10	2 9	21 2	1 40	6 27	1 41	14 37	1 13	22 37	0 1	23 24	0 2	13 45	0 47	7 44	1 54	30 41	13 32	19 23	19 28	6 22		n.a.
S 15	17 56	15 11	1 4	21 29	1 44	6 57	1 40	14 24	1 11	22 39	0 1	23 24	0 2	13 45	0 47	7 45	1 54	30 40	13 32	19 23	19 27	6 19		n.a.
S 16	18 12	19 39	0n 5	21 54	1 48	7 26	1 39	14 10	1 9	22 40	0 1	23 25	0 2	13 45	0 47	7 46	1 54	30 40	13 31	19 23	19 27	6 16		n.a.
M17	18 29	23 18	1 14	22 19	1 52	7 55	1 38	13 56	1 7	22 42	0 1	23 25	0 2	13 45	0 46	7 46	1 54	30 40	13 31	19 23	19 26	6 13		n.a.
T 18	18 44	25 50	2 21	22 42	1 55	8 23	1 37	13 43	1 5	22 44	0 1	23 25	0 2	13 44	0 46	7 47	1 54	30 39	13 31	19 23	19 25	6 10		n.a.
W19	19 0	26 59	3 22	23 4	1 59	8 52	1 36	13 29	1 3	22 46	0 1	23 25	0 2	13 44	0 46	7 48	1 54	30 39	13 31	19 23	19 24	6 7		n.a.
T 20	19 15	26 36	4 13	23 25	2 2	9 20	1 34	13 15	1 1	22 47	0 0	23 26	0 1	13 44	0 46	7 49	1 54	30 38	13 30	19 23	19 24	6 3		n.a.
F 21	19 30	24 39	4 51	23 44	2 4	9 48	1 33	13 1	1 0	22 49	0 0	23 26	0 1	13 44	0 46	7 49	1 54	30 38	13 30	19 23	19 23	6 0		n.a.
S 22	19 44	21 14	5 13	24 2	2 6	10 16	1 32	12 47	0 58	22 51	0 0	23 26	0 1	13 43	0 46	7 50	1 54	30 37	13 30	19 23	19 22	5 57		n.a.
S 23	19 58	16 35	5 16	24 19	2 8	10 44	1 30	12 32	0 56	22 52	0 0	23 27	0 1	13 43	0 46	7 51	1 54	30 37	13 29	19 23	19 21	5 54		n.a.
M24	20 12	10 59	5 1	24 34	2 9	11 11	1 28	12 18	0 54	22 54	0 0	23 27	0 1	13 43	0 46	7 51	1 55	30 37	13 29	19 23	19 21	5 51		n.a.
T 25	20 25	4 44	4 27	24 48	2 10	11 38	1 27	12 4	0 52	22 56	0s 0	23 27	0 1	13 43	0 46	7 52	1 55	30 36	13 29	19 23	19 20	5 48		n.a.
W26	20 38	1s48	3 36	25 0	2 11	12 5	1 25	11 49	0 51	22 57	0 0	23 27	0 1	13 42	0 46	7 53	1 55	30 36	13 29	19 23	19 19	5 45		n.a.
T 27	20 51	8 17	2 31	25 10	2 11	12 32	1 23	11 35	0 49	22 59	0 0	23 28	0 1	13 42	0 46	7 53	1 55	30 35	13 28	19 23	19 18	5 42		n.a.
F 28	21 3	14 19	1 16	25 19	2 10	12 58	1 22	11 20	0 47	23 0	0 0	23 28	0 1	13 41	0 46	7 54	1 55	30 35	13 28	19 23	19 18	5 39		n.a.
S 29	21 14	19 31	0s 2	25 26	2 9	13 24	1 20	11 5	0 45	23 2	0 0	23 28	0 1	13 41	0 46	7 55	1 55	30 34	13 28	19 23	19 17	5 35		n.a.
S 30	21s26	23s32	1s19	25s32	2s 8	13s50	1n18	10s51	0s44	23s 3	0s 1	23n29	0s 0	13s41	0s46	7s55	1n55	30s34	13s28	19n23	19n16	5s32		n.a.

Julian Day Number = 1657443.5, Delta T = 03h27m36s
Ecliptic obliquity = 23°43'04, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°29'10, Lahiri = - 6°22'10 Julian Calendar 1 Nov. 176 BCE == Greg. Calendar 29 Oct. 176 BCE

The year -175 astronomical counting style corresponds to year 176 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 176 BCE
geocentric

DECEMBER 176 BCE (-175) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 25 3	6♐16'57	23♐54	22♐28	11♏31	4♓35	16♐57	7°R43	26♒ 8	24♎47	10♒59	25°R36	25♉ 4	26♓22	n.a.	M 1
T 2	4 29 0	7°18'14	7♑21	23°58	12°46	5°11	17°11	7♋39	26° 9	24°49	11° 0	25♉34	25° 1	26°29	n.a.	T 2
W 3	4 32 56	8°19'32	20°27	25°27	14° 1	5°47	17°25	7°35	26°11	24°51	11° 1	25°33	24°57	26°36	n.a.	W 3
T 4	4 36 53	9°20'49	3♒13	26°54	15°16	6°23	17°39	7°31	26°12	24°53	11° 1	25°31	24°54	26°42	n.a.	T 4
F 5	4 40 50	10°22'05	15°39	28°19	16°31	7° 0	17°53	7°27	26°13	24°54	11° 2	25°29	24°51	26°49	n.a.	F 5
S 6	4 44 46	11°23'21	27°50	29°41	17°46	7°36	18° 7	7°23	26°15	24°56	11° 3	25°28	24°48	26°56	n.a.	S 6
S 7	4 48 43	12°24'37	9♓50	1♑ 0	19° 1	8°13	18°21	7°19	26°16	24°58	11° 4	25°D27	24°45	27° 2	n.a.	S 7
M 8	4 52 39	13°25'52	21°43	2°16	20°16	8°49	18°35	7°15	26°18	24°59	11° 5	25°27	24°42	27° 9	n.a.	M 8
T 9	4 56 36	14°27'06	3♈34	3°27	21°31	9°26	18°50	7°10	26°19	25° 1	11° 6	25°28	24°38	27°16	n.a.	T 9
W10	5 0 32	15°28'20	15°28	4°34	22°46	10° 3	19° 4	7° 6	26°21	25° 3	11° 7	25°30	24°35	27°22	n.a.	W10
T 11	5 4 29	16°29'33	27°29	5°34	24° 1	10°39	19°18	7° 1	26°22	25° 4	11° 8	25°31	24°32	27°29	n.a.	T 11
F 12	5 8 25	17°30'45	9♉42	6°29	25°16	11°16	19°32	6°57	26°24	25° 6	11° 9	25°33	24°29	27°36	n.a.	F 12
S 13	5 12 22	18°31'57	22° 9	7°16	26°31	11°53	19°46	6°53	26°26	25° 7	11°10	25°R34	24°26	27°43	n.a.	S 13
S 14	5 16 19	19°33'09	4♊53	7°55	27°46	12°30	20° 0	6°48	26°27	25° 9	11°11	25°33	24°23	27°49	n.a.	S 14
M15	5 20 15	20°34'20	17°55	8°25	29° 1	13° 7	20°14	6°43	26°29	25°10	11°12	25°32	24°19	27°56	n.a.	M15
T 16	5 24 12	21°35'30	1♋14	8°44	0♐16	13°44	20°28	6°39	26°31	25°12	11°14	25°29	24°16	28° 3	n.a.	T 16
W17	5 28 8	22°36'40	14°49	8°R54	1°31	14°21	20°42	6°34	26°33	25°13	11°15	25°25	24°13	28° 9	n.a.	W17
T 18	5 32 5	23°37'49	28°37	8°51	2°46	14°58	20°56	6°29	26°35	25°15	11°16	25°21	24°10	28°16	n.a.	T 18
F 19	5 36 1	24°38'57	12♌35	8°38	4° 1	15°36	21°10	6°25	26°37	25°16	11°17	25°16	24° 7	28°23	n.a.	F 19
S 20	5 39 58	25°40'05	26°40	8°12	5°16	16°13	21°24	6°20	26°39	25°17	11°18	25°12	24° 3	28°29	n.a.	S 20
S 21	5 43 55	26°41'13	10♍49	7°35	6°31	16°50	21°38	6°15	26°41	25°19	11°19	25°10	24° 0	28°36	n.a.	S 21
M22	5 47 51	27°42'20	24°58	6°48	7°46	17°27	21°53	6°10	26°43	25°20	11°21	25°D 9	23°57	28°43	n.a.	M22
T 23	5 51 48	28°43'26	9♎ 7	5°51	9° 1	18° 5	22° 7	6° 5	26°45	25°21	11°22	25° 9	23°54	28°50	n.a.	T 23
W24	5 55 44	29°44'32	23°14	4°46	10°17	18°42	22°21	6° 0	26°47	25°22	11°23	25°11	23°51	28°56	n.a.	W24
T 25	5 59 41	0♑45'37	7♏16	3°35	11°32	19°20	22°35	5°55	26°50	25°24	11°25	25°12	23°48	29° 3	n.a.	T 25
F 26	6 3 37	1°46'42	21°13	2°21	12°47	19°57	22°49	5°51	26°52	25°25	11°26	25°R13	23°44	29°10	n.a.	F 26
S 27	6 7 34	2°47'46	5♐ 2	1° 5	14° 2	20°35	23° 3	5°46	26°54	25°26	11°27	25°13	23°41	29°16	n.a.	S 27
S 28	6 11 30	3°48'49	18°42	29♐50	15°17	21°12	23°17	5°41	26°56	25°27	11°28	25°10	23°38	29°23	n.a.	S 28
M29	6 15 27	4°49'51	2♑ 9	28°37	16°32	21°50	23°31	5°36	26°59	25°28	11°30	25° 6	23°35	29°30	n.a.	M29
T 30	6 19 24	5°50'52	15°22	27°29	17°47	22°28	23°45	5°31	27° 1	25°29	11°31	25° 0	23°32	29°36	n.a.	T 30
W31	6 23 20	6♑51'52	28♑20	26♐28	19♐ 2	23♓ 5	23♐59	5♋26	27♒ 4	25♎30	11♒33	24♉52	23♉29	29♓43	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	21s36	26s 5	2s30	25s35	2s 5	14s15	1n16	10s36	0s42	23s 5	0s 1	23n29	0s 0	13s40	0s46	7s56	1n55	30s33	13s27	19n23	19n15	5s29			n.a.
T 2	21 47	27 1	3 31	25 37	2 2	14 40	1 14	10 21	0 41	23 6	0 1	23 29	0 0	13 40	0 46	7 57	1 55	30 33	13 27	19 23	19 14	5 26			n.a.
W 3	21 57	26 24	4 19	25 37	1 58	15 5	1 12	10 6	0 39	23 8	0 1	23 30	0 0	13 39	0 46	7 57	1 55	30 32	13 27	19 22	19 14	5 23			n.a.
T 4	22 7	24 24	4 53	25 35	1 54	15 29	1 10	9 51	0 37	23 9	0 1	23 30	0n 0	13 39	0 46	7 58	1 55	30 32	13 26	19 22	19 13	5 20			n.a.
F 5	22 16	21 16	5 11	25 31	1 48	15 53	1 8	9 36	0 36	23 11	0 1	23 30	0 0	13 38	0 46	7 58	1 55	30 31	13 26	19 21	19 12	5 17			n.a.
S 6	22 24	17 17	5 16	25 25	1 42	16 16	1 6	9 21	0 34	23 12	0 1	23 31	0 0	13 38	0 46	7 59	1 55	30 31	13 26	19 21	19 11	5 14			n.a.
S 7	22 33	12 41	5 6	25 18	1 35	16 39	1 4	9 6	0 33	23 13	0 1	23 31	0 0	13 37	0 46	7 59	1 55	30 30	13 26	19 21	19 11	5 11			n.a.
M 8	22 41	7 39	4 44	25 9	1 27	17 2	1 1	8 50	0 31	23 15	0 1	23 31	0 0	13 37	0 46	8 0	1 55	30 30	13 26	19 21	19 10	5 7			n.a.
T 9	22 48	2 22	4 9	24 58	1 18	17 24	0 59	8 35	0 30	23 16	0 2	23 32	0 1	13 36	0 46	8 1	1 55	30 29	13 25	19 21	19 9	5 4			n.a.
W10	22 55	3n 2	3 23	24 46	1 7	17 46	0 57	8 20	0 28	23 17	0 2	23 32	0 1	13 36	0 46	8 1	1 55	30 29	13 25	19 21	19 8	5 1			n.a.
T 11	23 1	8 23	2 29	24 32	0 56	18 7	0 54	8 4	0 27	23 19	0 2	23 33	0 1	13 35	0 46	8 2	1 55	30 28	13 25	19 22	19 7	4 58			n.a.
F 12	23 7	13 31	1 26	24 17	0 43	18 28	0 52	7 49	0 25	23 20	0 2	23 33	0 1	13 34	0 46	8 2	1 55	30 28	13 25	19 22	19 7	4 55			n.a.
S 13	23 13	18 13	0 19	24 1	0 30	18 48	0 50	7 33	0 24	23 21	0 2	23 33	0 1	13 34	0 45	8 3	1 55	30 27	13 24	19 22	19 6	4 52			n.a.
S 14	23 18	22 12	0n51	23 44	0 15	19 7	0 47	7 18	0 23	23 22	0 2	23 34	0 1	13 33	0 45	8 3	1 55	30 26	13 24	19 22	19 5	4 49			n.a.
M15	23 23	25 9	2 0	23 26	0n 1	19 27	0 45	7 2	0 21	23 23	0 2	23 34	0 1	13 33	0 45	8 4	1 55	30 26	13 24	19 22	19 4	4 45			n.a.
T 16	23 27	26 46	3 3	23 8	0 18	19 45	0 42	6 47	0 20	23 25	0 2	23 34	0 1	13 32	0 45	8 4	1 56	30 25	13 24	19 21	19 3	4 42			n.a.
W17	23 31	26 49	3 58	22 49	0 36	20 3	0 40	6 31	0 19	23 26	0 2	23 35	0 1	13 31	0 45	8 5	1 56	30 25	13 23	19 20	19 3	4 39			n.a.
T 18	23 34	25 14	4 39	22 31	0 54	20 21	0 38	6 15	0 17	23 27	0 2	23 35	0 2	13 30	0 45	8 5	1 56	30 24	13 23	19 19	19 2	4 36			n.a.
F 19	23 36	22 6	5 5	22 13	1 13	20 37	0 35	5 59	0 16	23 28	0 3	23 35	0 2	13 30	0 45	8 6	1 56	30 24	13 23	19 18	19 1	4 33			n.a.
S 20	23 39	17 39	5 12	21 56	1 32	20 54	0 32	5 44	0 15	23 29	0 3	23 36	0 2	13 29	0 45	8 6	1 56	30 23	13 23	19 17	19 0	4 30			n.a.
S 21	23 41	12 14	5 1	21 39	1 51	21 9	0 30	5 28	0 13	23 30	0 3	23 36	0 2	13 28	0 45	8 6	1 56	30 23	13 23	19 17	19 0	4 27			n.a.
M22	23 42	6 10	4 31	21 23	2 9	21 25	0 27	5 12	0 12	23 31	0 3	23 36	0 2	13 28	0 45	8 7	1 56	30 22	13 22	19 16	18 59	4 23			n.a.
T 23	23 43	0s13	3 45	21 8	2 27	21 39	0 25	4 56	0 11	23 32	0 3	23 37	0 2	13 27	0 45	8 7	1 56	30 22	13 22	19 17	18 58	4 20			n.a.
W24	23 43	6 34	2 46	20 55	2 43	21 53	0 22	4 40	0 10	23 33	0 3	23 37	0 2	13 26	0 45	8 8	1 56	30 21	13 22	19 17	18 57	4 17			n.a.
T 25	23 43	12 35	1 36	20 43	2 58	22 6	0 20	4 24	0 9	23 34	0 3	23 37	0 2	13 25	0 45	8 8	1 56	30 20	13 22	19 17	18 56	4 14			n.a.
F 26	23 42	17 55	0 22	20 32	3 10	22 19	0 17	4 8	0 7	23 35	0 3	23 38	0 2	13 24	0 45	8 8	1 56	30 20	13 22	19 17	18 56	4 11			n.a.
S 27	23 41	22 15	0s53	20 23	3 20	22 30	0 15	3 52	0 6	23 35	0 3	23 38	0 3	13 24	0 45	8 9	1 56	30 19	13 22	19 17	18 55	4 8			n.a.
S 28	23 40	25 17	2 4	20 15	3 28	22 42	0 12	3 36	0 5	23 36	0 4	23 38	0 3	13 23	0 45	8 9	1 56	30 19	13 21	19 17	18 54	4 4			n.a.
M29	23 38	26 49	3 7	20 9	3 33	22 52	0 10	3 20	0 4	23 37	0 4	23 39	0 3	13 22	0 45	8 10	1 56	30 18	13 21	19 16	18 53	4 1			n.a.
T 30	23 35	26 46	3 58	20 6	3 36	23 2	0 7	3 4	0 3	23 38	0 4	23 39	0 3	13 21	0 45	8 10	1 56	30 18	13 21	19 14	18 52	3 58			n.a.
W31	23s32	25s14	4s36	20s 4	3n37	23s11	0n 4	2s48	0s 2	23s39	0s 4	23n39	0n 3	13s20	0s45	8s10	1n56	30s17	13s21	19n12	18n52	3s55			n.a.

Julian Day Number = 1657473.5, Delta T = 03h27m35s
Ecliptic obliquity = 23°43'04, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°29'06, Lahiri = - 6°22'06 Julian Calendar 1 Dec. 176 BCE == Greg. Calendar 28 Nov. 176 BCE

The year -175 astronomical counting style corresponds to year 176 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 175 BCE
geocentric

JANUARY 175 BCE (-174) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 27 17	7♑52'50	11♒ 1	25°R34	20♐17	23♓43	24♐12	5°R21	27♒ 6	25♎31	11♒34	24°R44	23♉25	29♓50	n.a.	T 1
F 2	6 31 13	8°53'47	23°26	24♐47	21°32	24°21	24°26	5♋16	27° 9	25°32	11°35	24♉36	23°22	29°57	n.a.	F 2
S 3	6 35 10	9°54'43	5♓37	24° 9	22°47	24°58	24°40	5°11	27°11	25°33	11°37	24°30	23°19	0♈ 3	n.a.	S 3
S 4	6 39 6	10°55'37	17°37	23°40	24° 2	25°36	24°54	5° 6	27°14	25°34	11°38	24°25	23°16	0°10	n.a.	S 4
M 5	6 43 3	11°56'29	29°30	23°19	25°17	26°14	25° 8	5° 1	27°16	25°35	11°40	24°22	23°13	0°17	n.a.	M 5
T 6	6 46 59	12°57'20	11♈20	23° 7	26°32	26°52	25°22	4°56	27°19	25°36	11°41	24°D21	23° 9	0°23	n.a.	T 6
W 7	6 50 56	13°58'10	23°12	23°D 2	27°47	27°30	25°35	4°52	27°22	25°36	11°42	24°21	23° 6	0°30	n.a.	W 7
T 8	6 54 53	14°58'57	5♉12	23° 5	29° 2	28° 8	25°49	4°47	27°24	25°37	11°44	24°22	23° 3	0°37	n.a.	T 8
F 9	6 58 49	15°59'43	17°26	23°15	0♑17	28°46	26° 3	4°42	27°27	25°38	11°45	24°23	23° 0	0°43	n.a.	F 9
S 10	7 2 46	17° 0'28	29°57	23°32	1°32	29°24	26°17	4°37	27°30	25°39	11°47	24°R23	22°57	0°50	n.a.	S 10
S 11	7 6 42	18° 1'11	12♊48	23°54	2°47	0♈ 2	26°30	4°32	27°33	25°39	11°48	24°22	22°54	0°57	n.a.	S 11
M12	7 10 39	19° 1'52	26° 4	24°22	4° 2	0°40	26°44	4°28	27°36	25°40	11°50	24°18	22°50	1° 4	n.a.	M12
T 13	7 14 35	20° 2'31	9♋42	24°55	5°16	1°18	26°57	4°23	27°38	25°41	11°51	24°11	22°47	1°10	n.a.	T 13
W14	7 18 32	21° 3'09	23°42	25°33	6°31	1°56	27°11	4°18	27°41	25°41	11°53	24° 3	22°44	1°17	n.a.	W14
T 15	7 22 28	22° 3'45	7♌59	26°15	7°46	2°34	27°24	4°14	27°44	25°42	11°55	23°53	22°41	1°24	n.a.	T 15
F 16	7 26 25	23° 4'20	22°27	27° 2	9° 1	3°12	27°38	4° 9	27°47	25°42	11°56	23°43	22°38	1°30	n.a.	F 16
S 17	7 30 22	24° 4'53	7♍ 0	27°51	10°16	3°50	27°51	4° 5	27°50	25°43	11°58	23°35	22°35	1°37	n.a.	S 17
S 18	7 34 18	25° 5'25	21°30	28°45	11°31	4°28	28° 4	4° 0	27°53	25°43	11°59	23°28	22°31	1°44	n.a.	S 18
M19	7 38 15	26° 5'55	5♎53	29°41	12°46	5° 6	28°18	3°56	27°56	25°43	12° 1	23°24	22°28	1°50	n.a.	M19
T 20	7 42 11	27° 6'24	20° 6	0♑40	14° 1	5°44	28°31	3°52	27°59	25°44	12° 2	23°22	22°25	1°57	n.a.	T 20
W21	7 46 8	28° 6'51	4♏ 6	1°42	15°15	6°22	28°44	3°47	28° 2	25°44	12° 4	23°D22	22°22	2° 4	n.a.	W21
T 22	7 50 4	29° 7'17	17°55	2°46	16°30	7° 0	28°57	3°43	28° 5	25°44	12° 5	23°R23	22°19	2°10	n.a.	T 22
F 23	7 54 1	0♒ 7'42	1♐31	3°53	17°45	7°38	29°11	3°39	28° 8	25°45	12° 7	23°22	22°15	2°17	n.a.	F 23
S 24	7 57 57	1° 8'05	14°56	5° 1	19° 0	8°16	29°24	3°35	28°12	25°45	12° 9	23°20	22°12	2°24	n.a.	S 24
S 25	8 1 54	2° 8'27	28°10	6°12	20°15	8°54	29°37	3°31	28°15	25°45	12°10	23°16	22° 9	2°31	n.a.	S 25
M26	8 5 51	3° 8'46	11♑13	7°25	21°30	9°33	29°50	3°27	28°18	25°45	12°12	23° 8	22° 6	2°37	n.a.	M26
T 27	8 9 47	4° 9'05	24° 6	8°39	22°44	10°11	0♑ 2	3°23	28°21	25°45	12°13	22°58	22° 3	2°44	n.a.	T 27
W28	8 13 44	5° 9'21	6♒47	9°55	23°59	10°49	0°15	3°19	28°24	25°45	12°15	22°45	22° 0	2°51	n.a.	W28
T 29	8 17 40	6° 9'35	19°16	11°13	25°14	11°27	0°28	3°15	28°28	25°45	12°17	22°32	21°56	2°57	n.a.	T 29
F 30	8 21 37	7° 9'47	1♓33	12°32	26°29	12° 5	0°41	3°12	28°31	25°R45	12°18	22°19	21°53	3° 4	n.a.	F 30
S 31	8 25 33	8♒ 9'57	13♓40	13♑53	27♑44	12♈43	0♑53	3♋ 8	28♒34	25♎45	12♒20	22♉ 7	21♉50	3♈11	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	23 s29	22 s28	5 s 0	20 s 3	3n35	23 s20	0n 2	2 s32	0 s 1	23 s39	0 s 4	23n40	0n 3	13 s19	0 s45	8 s10	1n56	30 s17	13 s21	19n10	18n51	3 s52			n.a.
F 2	23 25	18 42	5 8	20 5	3 32	23 27	0 s 1	2 16	0n 0	23 40	0 4	23 40	0 3	13 18	0 45	8 11	1 56	30 16	13 21	19 8	18 50	3 49			n.a.
S 3	23 21	14 14	5 3	20 9	3 27	23 34	0 3	2 0	0 2	23 41	0 4	23 40	0 3	13 17	0 45	8 11	1 57	30 15	13 21	19 7	18 49	3 45			n.a.
S 4	23 16	9 17	4 44	20 14	3 20	23 41	0 6	1 44	0 3	23 41	0 4	23 41	0 3	13 17	0 45	8 11	1 57	30 15	13 20	19 6	18 48	3 42			n.a.
M 5	23 10	4 4	4 13	20 20	3 13	23 46	0 8	1 28	0 4	23 42	0 4	23 41	0 4	13 16	0 45	8 12	1 57	30 14	13 20	19 5	18 47	3 39			n.a.
T 6	23 5	1n18	3 31	20 28	3 4	23 51	0 11	1 11	0 5	23 43	0 5	23 41	0 4	13 15	0 45	8 12	1 57	30 14	13 20	19 5	18 47	3 36			n.a.
W 7	22 59	6 39	2 40	20 37	2 55	23 55	0 13	0 55	0 6	23 43	0 5	23 41	0 4	13 14	0 45	8 12	1 57	30 13	13 20	19 5	18 46	3 33			n.a.
T 8	22 52	11 49	1 41	20 47	2 45	23 58	0 16	0 39	0 7	23 44	0 5	23 42	0 4	13 13	0 45	8 12	1 57	30 13	13 20	19 5	18 45	3 29			n.a.
F 9	22 45	16 38	0 37	20 58	2 35	24 1	0 18	0 23	0 8	23 44	0 5	23 42	0 4	13 12	0 45	8 12	1 57	30 12	13 20	19 5	18 44	3 26			n.a.
S 10	22 37	20 52	0n30	21 9	2 24	24 3	0 20	0 7	0 9	23 45	0 5	23 42	0 4	13 11	0 45	8 13	1 57	30 12	13 20	19 5	18 43	3 23			n.a.
S 11	22 29	24 12	1 37	21 21	2 13	24 4	0 23	0n 9	0 10	23 45	0 5	23 43	0 4	13 10	0 45	8 13	1 57	30 11	13 20	19 5	18 43	3 20			n.a.
M12	22 21	26 21	2 41	21 34	2 2	24 5	0 25	0 26	0 11	23 46	0 5	23 43	0 4	13 9	0 45	8 13	1 57	30 11	13 20	19 4	18 42	3 17			n.a.
T 13	22 12	26 59	3 38	21 46	1 51	24 4	0 28	0 42	0 11	23 46	0 5	23 43	0 4	13 8	0 45	8 13	1 57	30 10	13 19	19 2	18 41	3 14			n.a.
W14	22 3	25 56	4 23	21 58	1 40	24 3	0 30	0 58	0 12	23 47	0 5	23 43	0 5	13 7	0 45	8 13	1 57	30 9	13 19	19 0	18 40	3 10			n.a.
T 15	21 53	23 11	4 53	22 11	1 29	24 1	0 32	1 14	0 13	23 47	0 6	23 44	0 5	13 6	0 45	8 13	1 57	30 9	13 19	18 58	18 39	3 7			n.a.
F 16	21 43	18 58	5 4	22 23	1 18	23 59	0 34	1 30	0 14	23 47	0 6	23 44	0 5	13 5	0 45	8 14	1 57	30 8	13 19	18 55	18 39	3 4			n.a.
S 17	21 33	13 37	4 56	22 35	1 7	23 55	0 37	1 46	0 15	23 48	0 6	23 44	0 5	13 4	0 44	8 14	1 57	30 8	13 19	18 53	18 38	3 1			n.a.
S 18	21 22	7 31	4 29	22 46	0 57	23 51	0 39	2 2	0 16	23 48	0 6	23 44	0 5	13 2	0 44	8 14	1 58	30 7	13 19	18 51	18 37	2 58			n.a.
M19	21 10	1 4	3 45	22 57	0 46	23 46	0 41	2 18	0 17	23 48	0 6	23 45	0 5	13 1	0 44	8 14	1 58	30 7	13 19	18 50	18 36	2 54			n.a.
T 20	20 59	5 s22	2 48	23 7	0 36	23 41	0 43	2 34	0 18	23 49	0 6	23 45	0 5	13 0	0 44	8 14	1 58	30 6	13 19	18 50	18 35	2 51			n.a.
W21	20 47	11 27	1 41	23 16	0 26	23 35	0 45	2 50	0 19	23 49	0 6	23 45	0 5	12 59	0 44	8 14	1 58	30 6	13 19	18 50	18 34	2 48			n.a.
T 22	20 34	16 54	0 29	23 25	0 16	23 28	0 47	3 6	0 19	23 49	0 6	23 45	0 5	12 58	0 44	8 14	1 58	30 5	13 19	18 50	18 34	2 45			n.a.
F 23	20 22	21 24	0 s43	23 33	0 7	23 20	0 49	3 22	0 20	23 49	0 6	23 46	0 6	12 57	0 44	8 14	1 58	30 5	13 19	18 50	18 33	2 42			n.a.
S 24	20 8	24 42	1 52	23 40	0 s 3	23 12	0 51	3 38	0 21	23 50	0 7	23 46	0 6	12 56	0 44	8 14	1 58	30 4	13 19	18 49	18 32	2 38			n.a.
S 25	19 55	26 36	2 54	23 46	0 12	23 3	0 53	3 54	0 22	23 50	0 7	23 46	0 6	12 55	0 44	8 14	1 58	30 4	13 19	18 48	18 31	2 35			n.a.
M26	19 41	26 58	3 45	23 51	0 20	22 53	0 55	4 10	0 23	23 50	0 7	23 46	0 6	12 54	0 44	8 14	1 58	30 3	13 19	18 46	18 30	2 32			n.a.
T 27	19 27	25 52	4 24	23 55	0 29	22 42	0 57	4 26	0 23	23 50	0 7	23 46	0 6	12 53	0 44	8 14	1 58	30 3	13 19	18 44	18 29	2 29			n.a.
W28	19 12	23 27	4 49	23 58	0 37	22 31	0 58	4 42	0 24	23 50	0 7	23 47	0 6	12 51	0 44	8 14	1 58	30 2	13 19	18 41	18 29	2 25			n.a.
T 29	18 57	19 57	5 0	23 59	0 45	22 19	1 0	4 58	0 25	23 50	0 7	23 47	0 6	12 50	0 44	8 14	1 58	30 2	13 19	18 37	18 28	2 22			n.a.
F 30	18 42	15 39	4 57	23 59	0 53	22 7	1 2	5 13	0 26	23 50	0 7	23 47	0 6	12 49	0 44	8 14	1 58	30 1	13 19	18 34	18 27	2 19			n.a.
S 31	18 s26	10 s48	4 s40	23 s59	1 s 0	21 s53	1 s 3	5n29	0n26	23 s50	0 s 7	23n47	0n 6	12 s48	0 s44	8 s14	1n58	30 s 1	13 s19	18n31	18n26	2 s16			n.a.

Julian Day Number = 1657504.5, Delta T = 03h27m34s
Ecliptic obliquity = 23°43'04, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°29'02, Lahiri = - 6°22'02 Julian Calendar 1 Jan. 175 BCE == Greg. Calendar 29 Dec. 176 BCE

The year -174 astronomical counting style corresponds to year 175 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 175 BCE
geocentric

FEBRUARY 175 BCE (-174) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 29 30	9♒10'05	25♓37	15♉15	28♉58	13♈22	1♉ 6	3°R 5	28♒37	25°R45	12♒22	21°R57	21♌47	3♈17	n.a.	S 1
M 2	8 33 26	10°10'11	7♈28	16°38	0♒13	14° 0	1°19	3♋ 1	28°41	25♎45	12°23	21♌50	21°44	3°24	n.a.	M 2
T 3	8 37 23	11°10'14	19°16	18° 3	1°28	14°38	1°31	2°58	28°44	25°45	12°25	21°46	21°41	3°31	n.a.	T 3
W 4	8 41 20	12°10'16	1♌ 7	19°29	2°42	15°16	1°43	2°55	28°47	25°45	12°26	21°44	21°37	3°37	n.a.	W 4
T 5	8 45 16	13°10'15	13° 5	20°57	3°57	15°54	1°56	2°51	28°51	25°45	12°28	21°D43	21°34	3°44	n.a.	T 5
F 6	8 49 13	14°10'12	25°15	22°25	5°12	16°33	2° 8	2°48	28°54	25°45	12°30	21°R43	21°31	3°51	n.a.	F 6
S 7	8 53 9	15°10'06	7♊44	23°55	6°26	17°11	2°20	2°45	28°57	25°44	12°31	21°43	21°28	3°58	n.a.	S 7
S 8	8 57 6	16° 9'59	20°36	25°26	7°41	17°49	2°32	2°43	29° 1	25°44	12°33	21°40	21°25	4° 4	n.a.	S 8
M 9	9 1 2	17° 9'49	3♋54	26°59	8°56	18°27	2°44	2°40	29° 4	25°44	12°35	21°35	21°21	4°11	n.a.	M 9
T 10	9 4 59	18° 9'36	17°41	28°32	10°10	19° 6	2°56	2°37	29° 7	25°43	12°36	21°27	21°18	4°18	n.a.	T 10
W11	9 8 55	19° 9'22	1♌55	0♒ 7	11°25	19°44	3° 8	2°34	29°11	25°43	12°38	21°17	21°15	4°24	n.a.	W11
T 12	9 12 52	20° 9'05	16°31	1°43	12°40	20°22	3°20	2°32	29°14	25°43	12°39	21° 6	21°12	4°31	n.a.	T 12
F 13	9 16 49	21° 8'46	1♍23	3°20	13°54	21° 0	3°31	2°29	29°18	25°42	12°41	20°54	21° 9	4°38	n.a.	F 13
S 14	9 20 45	22° 8'25	16°22	4°58	15° 9	21°38	3°43	2°27	29°21	25°42	12°43	20°43	21° 6	4°44	n.a.	S 14
S 15	9 24 42	23° 8'02	1♎18	6°38	16°23	22°17	3°55	2°25	29°24	25°41	12°44	20°35	21° 2	4°51	n.a.	S 15
M16	9 28 38	24° 7'37	16° 3	8°19	17°38	22°55	4° 6	2°23	29°28	25°41	12°46	20°29	20°59	4°58	n.a.	M16
T 17	9 32 35	25° 7'10	0♏31	10° 1	18°52	23°33	4°17	2°21	29°31	25°40	12°47	20°26	20°56	5° 4	n.a.	T 17
W18	9 36 31	26° 6'42	14°39	11°44	20° 7	24°11	4°29	2°19	29°35	25°40	12°49	20°25	20°53	5°11	n.a.	W18
T 19	9 40 28	27° 6'11	28°27	13°28	21°21	24°49	4°40	2°17	29°38	25°39	12°51	20°25	20°50	5°18	n.a.	T 19
F 20	9 44 24	28° 5'39	11♐57	15°14	22°36	25°27	4°51	2°15	29°41	25°38	12°52	20°25	20°46	5°24	n.a.	F 20
S 21	9 48 21	29° 5'05	25° 9	17° 1	23°50	26° 6	5° 2	2°14	29°45	25°38	12°54	20°23	20°43	5°31	n.a.	S 21
S 22	9 52 18	0♓ 4'29	8♉ 7	18°50	25° 5	26°44	5°13	2°12	29°48	25°37	12°55	20°18	20°40	5°38	n.a.	S 22
M23	9 56 14	1° 3'51	20°52	20°39	26°19	27°22	5°24	2°11	29°52	25°36	12°57	20°10	20°37	5°44	n.a.	M23
T 24	10 0 11	2° 3'12	3♒25	22°30	27°34	28° 0	5°34	2° 9	29°55	25°35	12°58	20° 0	20°34	5°51	n.a.	T 24
W25	10 4 7	3° 2'30	15°49	24°23	28°48	28°38	5°45	2° 8	29°59	25°35	13° 0	19°47	20°31	5°58	n.a.	W25
T 26	10 8 4	4° 1'46	28° 4	26°16	0♓ 3	29°17	5°56	2° 7	0♓ 2	25°34	13° 1	19°34	20°27	6° 5	n.a.	T 26
F 27	10 12 0	5° 0'59	10♓10	28°11	1°17	29°55	6° 6	2° 6	0° 5	25°33	13° 3	19°20	20°24	6°11	n.a.	F 27
S 28	10 15 57	6♓ 0'11	22♓ 9	0♓ 7	2♓32	0♌33	6♉16	2♋ 5	0♓ 9	25♎32	13♒ 4	19♌ 8	20♌21	6♈18	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	
S 1	18s10	5s36	4s11	23s56	1s 7	21s40	1s 5	5n45	0n27	23s50	0s 8	23n47	0n 6	12s47	0s44	8s14	1n58	30s 0	13s19	18n28	18n25	2s13			n.a.	S 1
M 2	17 54	0 14	3 31	23 53	1 13	21 25	1 6	6 1	0 28	23 50	0 8	23 48	0 7	12 46	0 44	8 14	1 58	30 0	13 19	18 26	18 24	2 9			n.a.	M 2
T 3	17 37	5n 7	2 43	23 48	1 20	21 10	1 8	6 16	0 29	23 50	0 8	23 48	0 7	12 44	0 44	8 14	1 59	29 59	13 19	18 25	18 24	2 6			n.a.	T 3
W 4	17 21	10 20	1 47	23 42	1 26	20 54	1 9	6 32	0 29	23 50	0 8	23 48	0 7	12 43	0 44	8 14	1 59	29 59	13 19	18 25	18 23	2 3			n.a.	W 4
T 5	17 4	15 13	0 46	23 34	1 31	20 38	1 11	6 47	0 30	23 50	0 8	23 48	0 7	12 42	0 44	8 13	1 59	29 58	13 19	18 24	18 22	2 0			n.a.	T 5
F 6	16 46	19 36	0n19	23 25	1 36	20 21	1 12	7 3	0 31	23 50	0 8	23 48	0 7	12 41	0 44	8 13	1 59	29 58	13 19	18 24	18 21	1 57			n.a.	F 6
S 7	16 28	23 14	1 24	23 14	1 41	20 4	1 13	7 18	0 31	23 50	0 8	23 48	0 7	12 40	0 44	8 13	1 59	29 57	13 19	18 24	18 20	1 53			n.a.	S 7
S 8	16 10	25 49	2 26	23 2	1 46	19 45	1 14	7 34	0 32	23 50	0 8	23 49	0 7	12 39	0 44	8 13	1 59	29 57	13 19	18 24	18 19	1 50			n.a.	S 8
M 9	15 52	27 3	3 23	22 48	1 50	19 27	1 15	7 49	0 33	23 50	0 9	23 49	0 7	12 37	0 44	8 13	1 59	29 56	13 19	18 22	18 19	1 47			n.a.	M 9
T 10	15 34	26 40	4 10	22 33	1 54	19 8	1 17	8 4	0 33	23 50	0 9	23 49	0 7	12 36	0 44	8 13	1 59	29 56	13 19	18 20	18 18	1 44			n.a.	T 10
W11	15 15	24 34	4 43	22 16	1 57	18 48	1 18	8 20	0 34	23 50	0 9	23 49	0 7	12 35	0 44	8 12	1 59	29 56	13 19	18 17	18 17	1 40			n.a.	W11
T 12	14 56	20 49	4 59	21 58	2 0	18 28	1 19	8 35	0 35	23 49	0 9	23 49	0 8	12 34	0 44	8 12	1 59	29 55	13 19	18 14	18 16	1 37			n.a.	T 12
F 13	14 37	15 41	4 55	21 38	2 3	18 7	1 19	8 50	0 35	23 49	0 9	23 49	0 8	12 32	0 44	8 12	1 59	29 55	13 19	18 11	18 15	1 34			n.a.	F 13
S 14	14 18	9 35	4 31	21 16	2 5	17 45	1 20	9 5	0 36	23 49	0 9	23 49	0 8	12 31	0 44	8 12	1 59	29 54	13 19	18 8	18 14	1 31			n.a.	S 14
S 15	13 58	2 58	3 48	20 52	2 7	17 24	1 21	9 20	0 37	23 49	0 9	23 50	0 8	12 30	0 44	8 11	1 59	29 54	13 19	18 6	18 14	1 27			n.a.	S 15
M16	13 38	3s46	2 51	20 27	2 8	17 1	1 22	9 35	0 37	23 49	0 9	23 50	0 8	12 29	0 44	8 11	1 59	29 54	13 20	18 5	18 13	1 24			n.a.	M16
T 17	13 18	10 11	1 43	20 1	2 9	16 39	1 22	9 50	0 38	23 48	0 10	23 50	0 8	12 28	0 44	8 11	1 59	29 53	13 20	18 4	18 12	1 21			n.a.	T 17
W18	12 58	15 56	0 30	19 32	2 9	16 15	1 23	10 5	0 38	23 48	0 10	23 50	0 8	12 26	0 44	8 11	1 59	29 53	13 20	18 4	18 11	1 18			n.a.	W18
T 19	12 37	20 44	0s42	19 2	2 9	15 52	1 24	10 19	0 39	23 48	0 10	23 50	0 8	12 25	0 44	8 10	2 0	29 52	13 20	18 4	18 10	1 14			n.a.	T 19
F 20	12 16	24 19	1 51	18 30	2 9	15 28	1 24	10 34	0 39	23 48	0 10	23 50	0 8	12 24	0 44	8 10	2 0	29 52	13 20	18 3	18 9	1 11			n.a.	F 20
S 21	11 56	26 30	2 52	17 57	2 8	15 3	1 24	10 49	0 40	23 47	0 10	23 50	0 8	12 23	0 44	8 10	2 0	29 52	13 20	18 3	18 8	1 8			n.a.	S 21
S 22	11 35	27 11	3 44	17 21	2 6	14 38	1 25	11 3	0 41	23 47	0 10	23 50	0 8	12 22	0 44	8 9	2 0	29 51	13 20	18 2	18 8	1 5			n.a.	S 22
M23	11 13	26 24	4 23	16 44	2 4	14 13	1 25	11 18	0 41	23 47	0 10	23 51	0 9	12 20	0 44	8 9	2 0	29 51	13 20	18 0	18 7	1 2			n.a.	M23
T 24	10 52	24 17	4 48	16 5	2 2	13 47	1 25	11 32	0 42	23 47	0 11	23 51	0 9	12 19	0 44	8 9	2 0	29 51	13 20	17 57	18 6	0 58			n.a.	T 24
W25	10 30	21 2	5 0	15 25	1 59	13 21	1 25	11 46	0 42	23 46	0 11	23 51	0 9	12 18	0 44	8 8	2 0	29 50	13 21	17 53	18 5	0 55			n.a.	W25
T 26	10 9	16 55	4 57	14 43	1 55	12 55	1 25	12 1	0 43	23 46	0 11	23 51	0 9	12 17	0 44	8 8	2 0	29 50	13 21	17 50	18 4	0 52			n.a.	T 26
F 27	9 47	12 10	4 41	13 59	1 51	12 28	1 25	12 15	0 43	23 46	0 11	23 51	0 9	12 15	0 44	8 8	2 0	29 50	13 21	17 46	18 3	0 49			n.a.	F 27
S 28	9s25	7s 1	4s13	13s13	1s47	12s 1	1s25	12n29	0n44	23s45	0s11	23n51	0n 9	12s14	0s44	8s 7	2n 0	29s49	13s21	17n42	18n 3	0s45			n.a.	S 28

Julian Day Number = 1657535.5, Delta T = 03h27m33s
Ecliptic obliquity = 23°43'05, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'58, Lahiri = - 6°21'57 Julian Calendar 1 Feb. 175 BCE == Greg. Calendar 29 Jan. 175 BCE

The year -174 astronomical counting style corresponds to year 175 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 175 BCE
geocentric

MARCH 175 BCE (-174) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 19 53	6♓59'20	4♈ 2	2♓ 5	3♓46	1♉11	6♊26	2°R 5	0♓12	25°R31	13♒ 6	18°R58	20♉18	6♈25	n.a.	S 1
M 2	10 23 50	7°58'27	15°51	4° 3	5° 0	1°49	6°36	2♋ 4	0°16	25♎30	13° 8	18♉50	20°15	6°31	n.a.	M 2
T 3	10 27 46	8°57'32	27°38	6° 3	6°15	2°27	6°46	2° 3	0°19	25°29	13° 9	18°45	20°12	6°38	n.a.	T 3
W 4	10 31 43	9°56'35	9♉28	8° 4	7°29	3° 6	6°56	2° 3	0°22	25°28	13°10	18°43	20° 8	6°45	n.a.	W 4
T 5	10 35 40	10°55'35	21°25	10° 6	8°43	3°44	7° 6	2° 3	0°26	25°27	13°12	18°D43	20° 5	6°51	n.a.	T 5
F 6	10 39 36	11°54'33	3♊34	12° 9	9°58	4°22	7°16	2° 2	0°29	25°26	13°13	18°43	20° 2	6°58	n.a.	F 6
S 7	10 43 33	12°53'28	16° 0	14°13	11°12	5° 0	7°25	2°D 2	0°33	25°25	13°15	18°R44	19°59	7° 5	n.a.	S 7
S 8	10 47 29	13°52'21	28°48	16°18	12°26	5°38	7°35	2° 2	0°36	25°24	13°16	18°42	19°56	7°11	n.a.	S 8
M 9	10 51 26	14°51'12	12♋ 2	18°23	13°41	6°16	7°44	2° 2	0°39	25°23	13°18	18°39	19°52	7°18	n.a.	M 9
T 10	10 55 22	15°50'00	25°46	20°28	14°55	6°54	7°53	2° 3	0°43	25°22	13°19	18°34	19°49	7°25	n.a.	T 10
W11	10 59 19	16°48'46	9♌59	22°33	16° 9	7°32	8° 2	2° 3	0°46	25°21	13°21	18°27	19°46	7°31	n.a.	W11
T 12	11 3 15	17°47'30	24°40	24°38	17°23	8°10	8°11	2° 3	0°49	25°19	13°22	18°18	19°43	7°38	n.a.	T 12
F 13	11 7 12	18°46'11	9♍41	26°42	18°37	8°49	8°20	2° 4	0°53	25°18	13°23	18° 8	19°40	7°45	n.a.	F 13
S 14	11 11 9	19°44'50	24°53	28°46	19°52	9°27	8°28	2° 5	0°56	25°17	13°25	18° 0	19°37	7°51	n.a.	S 14
S 15	11 15 5	20°43'27	10♎ 6	0♈49	21° 6	10° 5	8°37	2° 5	0°59	25°16	13°26	17°53	19°33	7°58	n.a.	S 15
M16	11 19 2	21°42'03	25°10	2°50	22°20	10°43	8°45	2° 6	1° 2	25°14	13°27	17°49	19°30	8° 5	n.a.	M16
T 17	11 22 58	22°40'36	9♏57	4°49	23°34	11°21	8°54	2° 7	1° 6	25°13	13°29	17°47	19°27	8°11	n.a.	T 17
W18	11 26 55	23°39'08	24°20	6°46	24°48	11°59	9° 2	2° 8	1° 9	25°12	13°30	17°D47	19°24	8°18	n.a.	W18
T 19	11 30 51	24°37'38	8♐19	8°40	26° 2	12°37	9°10	2°10	1°12	25°10	13°31	17°48	19°21	8°25	n.a.	T 19
F 20	11 34 48	25°36'06	21°53	10°32	27°16	13°15	9°18	2°11	1°15	25° 9	13°33	17°R49	19°18	8°32	n.a.	F 20
S 21	11 38 44	26°34'33	5♑ 5	12°20	28°31	13°53	9°25	2°12	1°19	25° 8	13°34	17°48	19°14	8°38	n.a.	S 21
S 22	11 42 41	27°32'58	17°57	14° 6	29°45	14°31	9°33	2°14	1°22	25° 6	13°35	17°46	19°11	8°45	n.a.	S 22
M23	11 46 38	28°31'21	0♒32	15°47	0♈59	15° 9	9°40	2°16	1°25	25° 5	13°36	17°42	19° 8	8°52	n.a.	M23
T 24	11 50 34	29°29'43	12°54	17°25	2°13	15°47	9°48	2°17	1°28	25° 4	13°37	17°36	19° 5	8°58	n.a.	T 24
W25	11 54 31	0♈28'02	25° 6	18°59	3°27	16°25	9°55	2°19	1°31	25° 2	13°39	17°28	19° 2	9° 5	n.a.	W25
T 26	11 58 27	1°26'20	7♓ 9	20°28	4°41	17° 3	10° 2	2°21	1°34	25° 1	13°40	17°19	18°58	9°12	n.a.	T 26
F 27	12 2 24	2°24'36	19° 6	21°54	5°55	17°41	10° 9	2°23	1°37	24°59	13°41	17°11	18°55	9°18	n.a.	F 27
S 28	12 6 20	3°22'51	0♈58	23°14	7° 9	18°19	10°15	2°25	1°40	24°58	13°42	17° 3	18°52	9°25	n.a.	S 28
S 29	12 10 17	4°21'03	12°48	24°31	8°23	18°57	10°22	2°27	1°43	24°56	13°43	16°57	18°49	9°32	n.a.	S 29
M30	12 14 13	5°19'14	24°36	25°42	9°37	19°35	10°28	2°30	1°46	24°55	13°44	16°52	18°46	9°38	n.a.	M30
T 31	12 18 10	6♈17'22	6♉25	26♈49	10♈51	20♉13	10♊35	2♋32	1♓49	24♎53	13♒45	16♉50	18♉43	9♈45	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9s 3	1s38	3s34	12s26	1s41	11s34	1s25	12n43	0n44	23s45	0s11	23n51	0n 9	12s13	0s44	8s 7	2n 0	29s49	13s21	17n40	18n 2	0s42		n.a.
M 2	8 41	3n46	2 45	11 37	1 36	11 6	1 25	12 57	0 45	23 44	0 11	23 51	0 9	12 12	0 44	8 7	2 0	29 49	13 21	17 38	18 1	0 39		n.a.
T 3	8 18	9 3	1 50	10 47	1 29	10 38	1 25	13 10	0 45	23 44	0 12	23 51	0 9	12 11	0 44	8 6	2 0	29 48	13 21	17 36	18 0	0 36		n.a.
W 4	7 56	14 3	0 49	9 55	1 23	10 10	1 25	13 24	0 46	23 44	0 12	23 51	0 9	12 9	0 44	8 6	2 0	29 48	13 22	17 36	17 59	0 32		n.a.
T 5	7 33	18 34	0n14	9 2	1 15	9 42	1 24	13 38	0 46	23 43	0 12	23 52	0 9	12 8	0 44	8 5	2 0	29 48	13 22	17 36	17 58	0 29		n.a.
F 6	7 11	22 24	1 18	8 7	1 7	9 13	1 24	13 51	0 47	23 43	0 12	23 52	0 10	12 7	0 44	8 5	2 0	29 47	13 22	17 36	17 57	0 26		n.a.
S 7	6 48	25 18	2 20	7 11	0 59	8 44	1 23	14 5	0 47	23 43	0 12	23 52	0 10	12 6	0 44	8 5	2 0	29 47	13 22	17 36	17 56	0 22		n.a.
S 8	6 25	26 59	3 17	6 14	0 50	8 15	1 23	14 18	0 48	23 42	0 12	23 52	0 10	12 5	0 44	8 4	2 0	29 47	13 22	17 35	17 56	0 19		n.a.
M 9	6 2	27 14	4 5	5 16	0 41	7 45	1 22	14 31	0 48	23 42	0 12	23 52	0 10	12 3	0 44	8 4	2 0	29 47	13 23	17 35	17 55	0 16		n.a.
T 10	5 39	25 50	4 41	4 17	0 31	7 16	1 22	14 44	0 49	23 41	0 13	23 52	0 10	12 2	0 44	8 3	2 1	29 46	13 23	17 33	17 54	0 13		n.a.
W11	5 16	22 46	5 1	3 18	0 20	6 46	1 21	14 57	0 49	23 41	0 13	23 52	0 10	12 1	0 44	8 3	2 1	29 46	13 23	17 31	17 53	0 9		n.a.
T 12	4 53	18 11	5 2	2 18	0 10	6 16	1 20	15 10	0 49	23 41	0 13	23 52	0 10	12 0	0 44	8 2	2 1	29 46	13 23	17 29	17 52	0 6		n.a.
F 13	4 30	12 23	4 43	1 18	0n 1	5 46	1 19	15 23	0 50	23 40	0 13	23 52	0 10	11 59	0 44	8 2	2 1	29 46	13 23	17 26	17 51	0 3		n.a.
S 14	4 6	5 47	4 4	0 19	0 12	5 15	1 18	15 36	0 50	23 40	0 13	23 52	0 10	11 57	0 44	8 1	2 1	29 45	13 24	17 24	17 50	0n 0		n.a.
S 15	3 43	1s11	3 7	0n41	0 23	4 45	1 17	15 49	0 51	23 39	0 13	23 52	0 10	11 56	0 44	8 1	2 1	29 45	13 24	17 22	17 50	0 4		n.a.
M16	3 20	8 1	1 58	1 40	0 35	4 15	1 16	16 1	0 51	23 39	0 14	23 52	0 10	11 55	0 44	8 0	2 1	29 45	13 24	17 21	17 49	0 7		n.a.
T 17	2 56	14 18	0 42	2 38	0 46	3 44	1 15	16 14	0 52	23 39	0 14	23 52	0 10	11 54	0 44	8 0	2 1	29 45	13 24	17 20	17 48	0 10		n.a.
W18	2 33	19 39	0s35	3 36	0 58	3 13	1 14	16 26	0 52	23 38	0 14	23 53	0 11	11 53	0 44	7 59	2 1	29 45	13 25	17 20	17 47	0 13		n.a.
T 19	2 10	23 44	1 48	4 32	1 9	2 42	1 13	16 38	0 52	23 38	0 14	23 53	0 11	11 52	0 44	7 59	2 1	29 44	13 25	17 20	17 46	0 17		n.a.
F 20	1 46	26 20	2 53	5 26	1 20	2 11	1 12	16 50	0 53	23 37	0 14	23 53	0 11	11 51	0 44	7 58	2 1	29 44	13 25	17 20	17 45	0 20		n.a.
S 21	1 23	27 23	3 46	6 19	1 30	1 40	1 10	17 2	0 53	23 37	0 14	23 53	0 11	11 49	0 44	7 58	2 1	29 44	13 25	17 20	17 44	0 23		n.a.
S 22	0 59	26 54	4 27	7 10	1 41	1 9	1 9	17 14	0 53	23 37	0 15	23 53	0 11	11 48	0 44	7 57	2 1	29 44	13 25	17 20	17 43	0 26		n.a.
M23	0 36	25 3	4 54	7 59	1 50	0 38	1 8	17 26	0 54	23 36	0 15	23 53	0 11	11 47	0 44	7 57	2 1	29 44	13 26	17 19	17 43	0 30		n.a.
T 24	0 12	22 1	5 6	8 45	2 0	0 7	1 6	17 37	0 54	23 36	0 15	23 53	0 11	11 46	0 44	7 56	2 1	29 44	13 26	17 17	17 42	0 33		n.a.
W25	0n11	18 4	5 5	9 30	2 9	0n24	1 5	17 49	0 55	23 36	0 15	23 53	0 11	11 45	0 44	7 55	2 1	29 44	13 26	17 15	17 41	0 36		n.a.
T 26	0 35	13 27	4 49	10 11	2 17	0 55	1 3	18 0	0 55	23 35	0 15	23 53	0 11	11 44	0 44	7 55	2 1	29 43	13 27	17 12	17 40	0 40		n.a.
F 27	0 58	8 22	4 21	10 51	2 24	1 26	1 2	18 11	0 55	23 35	0 15	23 53	0 11	11 43	0 44	7 54	2 1	29 43	13 27	17 10	17 39	0 43		n.a.
S 28	1 22	3 0	3 42	11 27	2 31	1 57	1 0	18 22	0 56	23 35	0 16	23 53	0 11	11 42	0 44	7 54	2 1	29 43	13 27	17 7	17 38	0 46		n.a.
S 29	1 45	2n27	2 54	12 2	2 36	2 28	0 58	18 33	0 56	23 34	0 16	23 53	0 11	11 41	0 44	7 53	2 1	29 43	13 27	17 5	17 37	0 49		n.a.
M30	2 8	7 49	1 58	12 33	2 41	2 59	0 56	18 44	0 56	23 34	0 16	23 53	0 11	11 40	0 44	7 53	2 1	29 43	13 28	17 4	17 36	0 53		n.a.
T 31	2n32	12n56	0s56	13n 1	2n46	3n30	0s55	18n55	0n57	23s34	0s16	23n53	0n12	11s38	0s44	7s52	2n 1	29s43	13s28	17n 4	17n35	0n56		n.a.

Julian Day Number = 1657563.5, Delta T = 03h27m33s
Ecliptic obliquity = 23°43'05, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'54, Lahiri = - 6°21'54 Julian Calendar 1 March 175 BCE == Greg. Calendar 26 Feb. 175 BCE

The year -174 astronomical counting style corresponds to year 175 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 175 BCE
geocentric

APRIL 175 BCE (-174) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 22 6	7♈15'29	18♉19	27♈51	12♈ 5	20♉51	10♊41	2♋35	1♓52	24°R52	13♒47	16°D49	18♉39	9♈52	n.a.	W 1
T 2	12 26 3	8°13'34	0♊19	28°48	13°19	21°29	10°47	2°38	1°55	24♎50	13°48	16♉50	18°36	9°58	n.a.	T 2
F 3	12 30 0	9°11'37	12°31	29°41	14°32	22° 7	10°52	2°40	1°58	24°49	13°49	16°51	18°33	10° 5	n.a.	F 3
S 4	12 33 56	10° 9'38	24°58	0♉28	15°46	22°45	10°58	2°43	2° 1	24°47	13°50	16°53	18°30	10°12	n.a.	S 4
S 5	12 37 53	11° 7'37	7♋44	1°10	17° 0	23°23	11° 3	2°46	2° 4	24°46	13°51	16°R54	18°27	10°18	n.a.	S 5
M 6	12 41 49	12° 5'34	20°54	1°47	18°14	24° 1	11° 9	2°49	2° 7	24°44	13°52	16°53	18°23	10°25	n.a.	M 6
T 7	12 45 46	13° 3'29	4♌30	2°19	19°28	24°38	11°14	2°52	2° 9	24°42	13°53	16°52	18°20	10°32	n.a.	T 7
W 8	12 49 42	14° 1'22	18°35	2°46	20°42	25°16	11°19	2°56	2°12	24°41	13°54	16°49	18°17	10°38	n.a.	W 8
T 9	12 53 39	14°59'13	3♍ 6	3° 7	21°56	25°54	11°24	2°59	2°15	24°39	13°54	16°45	18°14	10°45	n.a.	T 9
F 10	12 57 35	15°57'02	17°59	3°23	23° 9	26°32	11°28	3° 2	2°18	24°38	13°55	16°40	18°11	10°52	n.a.	F 10
S 11	13 1 32	16°54'50	3♎ 8	3°34	24°23	27°10	11°33	3° 6	2°20	24°36	13°56	16°36	18° 8	10°58	n.a.	S 11
S 12	13 5 29	17°52'36	18°23	3°40	25°37	27°48	11°37	3° 9	2°23	24°34	13°57	16°33	18° 4	11° 5	n.a.	S 12
M13	13 9 25	18°50'20	3♏34	3°R41	26°51	28°26	11°41	3°13	2°26	24°33	13°58	16°31	18° 1	11°12	n.a.	M13
T 14	13 13 22	19°48'03	18°31	3°37	28° 4	29° 4	11°45	3°17	2°28	24°31	13°59	16°D31	17°58	11°18	n.a.	T 14
W15	13 17 18	20°45'45	3♐ 7	3°29	29°18	29°41	11°49	3°21	2°31	24°30	14° 0	16°31	17°55	11°25	n.a.	W15
T 16	13 21 15	21°43'25	17°18	3°16	0♉32	0♊19	11°52	3°25	2°33	24°28	14° 0	16°33	17°52	11°32	n.a.	T 16
F 17	13 25 11	22°41'04	1♑ 2	2°59	1°46	0°57	11°56	3°29	2°36	24°26	14° 1	16°34	17°49	11°38	n.a.	F 17
S 18	13 29 8	23°38'43	14°20	2°38	2°59	1°35	11°59	3°33	2°38	24°25	14° 2	16°35	17°45	11°45	n.a.	S 18
S 19	13 33 4	24°36'20	27°15	2°13	4°13	2°13	12° 2	3°37	2°41	24°23	14° 2	16°R35	17°42	11°52	n.a.	S 19
M20	13 37 1	25°33'56	9♒49	1°46	5°27	2°51	12° 5	3°41	2°43	24°21	14° 3	16°35	17°39	11°58	n.a.	M20
T 21	13 40 58	26°31'31	22° 7	1°16	6°40	3°29	12° 7	3°46	2°45	24°20	14° 4	16°33	17°36	12° 5	n.a.	T 21
W22	13 44 54	27°29'04	4♓13	0°44	7°54	4° 6	12°10	3°50	2°48	24°18	14° 4	16°31	17°33	12°12	n.a.	W22
T 23	13 48 51	28°26'37	16°10	0°11	9° 7	4°44	12°12	3°55	2°50	24°17	14° 5	16°28	17°29	12°18	n.a.	T 23
F 24	13 52 47	29°24'09	28° 1	29♈37	10°21	5°22	12°14	3°59	2°52	24°15	14° 6	16°25	17°26	12°25	n.a.	F 24
S 25	13 56 44	0♉21'39	9♈50	29° 3	11°35	6° 0	12°16	4° 4	2°54	24°13	14° 6	16°23	17°23	12°32	n.a.	S 25
S 26	14 0 40	1°19'08	21°38	28°29	12°48	6°38	12°18	4° 9	2°56	24°12	14° 7	16°21	17°20	12°38	n.a.	S 26
M27	14 4 37	2°16'37	3♉29	27°56	14° 2	7°15	12°20	4°14	2°59	24°10	14° 7	16°20	17°17	12°45	n.a.	M27
T 28	14 8 33	3°14'04	15°24	27°24	15°15	7°53	12°21	4°19	3° 1	24° 9	14° 8	16°D19	17°14	12°52	n.a.	T 28
W29	14 12 30	4°11'30	27°26	26°55	16°29	8°31	12°22	4°24	3° 3	24° 7	14° 8	16°20	17°10	12°58	n.a.	W29
T 30	14 16 27	5♉ 8'55	9♊36	26♈28	17♉42	9♊ 9	12♑23	4♋29	3♓ 5	24♎ 5	14♒ 9	16♉20	17♉ 7	13♈ 5	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	2n55	17n37	0n 8	13n27	2n49	4n 1	0s53	19n 5	0n57	23s33	0s16	23n53	0n12	11s37	0s45	7s52	2n 1	29s43	13s28	17n 3	17n35	0n59		n.a.
T 2	3 18	21 39	1 13	13 50	2 51	4 32	0 51	19 16	0 57	23 33	0 16	23 53	0 12	11 36	0 45	7 51	2 1	29 43	13 28	17 4	17 34	1 2		n.a.
F 3	3 41	24 48	2 15	14 10	2 52	5 3	0 49	19 26	0 58	23 33	0 17	23 53	0 12	11 35	0 45	7 50	2 1	29 43	13 29	17 4	17 33	1 6		n.a.
S 4	4 4	26 50	3 13	14 27	2 52	5 33	0 47	19 36	0 58	23 32	0 17	23 53	0 12	11 34	0 45	7 50	2 1	29 43	13 29	17 4	17 32	1 9		n.a.
S 5	4 27	27 31	4 3	14 41	2 52	6 4	0 45	19 46	0 58	23 32	0 17	23 53	0 12	11 33	0 45	7 49	2 1	29 43	13 29	17 5	17 31	1 12		n.a.
M 6	4 50	26 42	4 41	14 53	2 50	6 34	0 43	19 56	0 59	23 32	0 17	23 53	0 12	11 32	0 45	7 49	2 1	29 43	13 30	17 5	17 30	1 16		n.a.
T 7	5 13	24 17	5 5	15 1	2 47	7 4	0 41	20 6	0 59	23 31	0 17	23 53	0 12	11 31	0 45	7 48	2 1	29 43	13 30	17 4	17 29	1 19		n.a.
W 8	5 36	20 22	5 12	15 7	2 42	7 34	0 39	20 16	0 59	23 31	0 18	23 53	0 12	11 30	0 45	7 47	2 1	29 43	13 30	17 3	17 28	1 22		n.a.
T 9	5 58	15 8	5 0	15 9	2 37	8 4	0 37	20 25	0 59	23 31	0 18	23 53	0 12	11 29	0 45	7 47	2 1	29 43	13 31	17 2	17 27	1 25		n.a.
F 10	6 21	8 53	4 27	15 9	2 31	8 34	0 35	20 34	1 0	23 31	0 18	23 53	0 12	11 28	0 45	7 46	2 1	29 43	13 31	17 1	17 27	1 29		n.a.
S 11	6 43	2 2	3 36	15 5	2 23	9 3	0 32	20 44	1 0	23 31	0 18	23 53	0 12	11 27	0 45	7 46	2 1	29 43	13 31	17 0	17 26	1 32		n.a.
S 12	7 6	5s 1	2 28	14 59	2 14	9 33	0 30	20 53	1 0	23 30	0 18	23 53	0 12	11 27	0 45	7 45	2 1	29 43	13 32	16 59	17 25	1 35		n.a.
M13	7 28	11 45	1 10	14 50	2 5	10 2	0 28	21 2	1 1	23 30	0 18	23 53	0 13	11 26	0 45	7 44	2 1	29 43	13 32	16 58	17 24	1 38		n.a.
T 14	7 50	17 43	0s11	14 39	1 54	10 31	0 26	21 10	1 1	23 30	0 19	23 53	0 13	11 25	0 45	7 44	2 1	29 43	13 32	16 58	17 23	1 42		n.a.
W15	8 12	22 30	1 30	14 25	1 42	10 59	0 23	21 19	1 1	23 30	0 19	23 53	0 13	11 24	0 45	7 43	2 1	29 43	13 33	16 58	17 22	1 45		n.a.
T 16	8 34	25 47	2 41	14 8	1 29	11 28	0 21	21 27	1 1	23 30	0 19	23 53	0 13	11 23	0 45	7 43	2 1	29 43	13 33	16 59	17 21	1 48		n.a.
F 17	8 55	27 24	3 41	13 49	1 15	11 56	0 19	21 36	1 2	23 30	0 19	23 53	0 13	11 22	0 45	7 42	2 1	29 43	13 33	16 59	17 20	1 52		n.a.
S 18	9 17	27 21	4 27	13 28	1 0	12 24	0 17	21 44	1 2	23 30	0 19	23 53	0 13	11 21	0 45	7 41	2 1	29 43	13 34	16 59	17 19	1 55		n.a.
S 19	9 38	25 49	4 57	13 5	0 44	12 51	0 14	21 52	1 2	23 30	0 20	23 53	0 13	11 20	0 45	7 41	2 1	29 43	13 34	16 59	17 19	1 58		n.a.
M20	10 0	23 1	5 13	12 40	0 28	13 18	0 12	21 59	1 2	23 29	0 20	23 53	0 13	11 19	0 45	7 40	2 1	29 43	13 34	16 59	17 18	2 1		n.a.
T 21	10 21	19 14	5 14	12 14	0 11	13 45	0 9	22 7	1 3	23 29	0 20	23 53	0 13	11 19	0 45	7 40	2 1	29 44	13 35	16 59	17 17	2 5		n.a.
W22	10 42	14 44	5 0	11 47	0s 6	14 12	0 7	22 15	1 3	23 29	0 20	23 53	0 13	11 18	0 45	7 39	2 1	29 44	13 35	16 58	17 16	2 8		n.a.
T 23	11 3	9 43	4 34	11 19	0 23	14 38	0 5	22 22	1 3	23 29	0 20	23 53	0 13	11 17	0 45	7 38	2 1	29 44	13 35	16 57	17 15	2 11		n.a.
F 24	11 23	4 24	3 56	10 51	0 40	15 4	0 2	22 29	1 3	23 29	0 21	23 53	0 13	11 16	0 45	7 38	2 1	29 44	13 36	16 56	17 14	2 15		n.a.
S 25	11 44	1n 3	3 8	10 22	0 57	15 29	0n 0	22 36	1 3	23 29	0 21	23 53	0 13	11 15	0 45	7 37	2 1	29 44	13 36	16 56	17 13	2 18		n.a.
S 26	12 4	6 29	2 12	9 54	1 14	15 54	0 3	22 43	1 4	23 29	0 21	23 53	0 13	11 15	0 45	7 37	2 1	29 44	13 36	16 55	17 12	2 21		n.a.
M27	12 24	11 43	1 10	9 27	1 30	16 19	0 5	22 50	1 4	23 29	0 21	23 53	0 14	11 14	0 45	7 36	2 1	29 44	13 37	16 55	17 11	2 24		n.a.
T 28	12 44	16 34	0 5	9 1	1 46	16 43	0 8	22 56	1 4	23 30	0 21	23 52	0 14	11 13	0 45	7 35	2 1	29 45	13 37	16 55	17 10	2 28		n.a.
W29	13 4	20 48	1n 1	8 36	2 1	17 7	0 10	23 2	1 4	23 30	0 22	23 52	0 14	11 12	0 45	7 35	2 1	29 45	13 37	16 55	17 9	2 31		n.a.
T 30	13n23	24n13	2n 5	8n13	2s16	17n31	0n13	23n 9	1n 5	23s30	0s22	23n52	0n14	11s12	0s45	7s34	2n 1	29s45	13s38	16n55	17n 9	2n34		n.a.

Julian Day Number = 1657594.5, Delta T = 03h27m32s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'50, Lahiri = - 6°21'49 Julian Calendar 1 Apr. 175 BCE == Greg. Calendar 29 March 175 BCE

The year -174 astronomical counting style corresponds to year 175 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 175 BCE
geocentric

MAY 175 BCE (-174) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 20 23	6♉ 6'19	21♊57	26°R 4	18♉56	9♊47	12♑24	4♋34	3♓ 7	24°R 4	14♒ 9	16♉21	17♉ 4	13♈12	n.a.	F 1
S 2	14 24 20	7° 3'41	4♋33	25♈43	20°10	10°24	12°24	4°39	3° 9	24♎ 2	14°10	16°22	17° 1	13°19	n.a.	S 2
S 3	14 28 16	8° 1'03	17°24	25°26	21°23	11° 2	12°25	4°45	3°11	24° 1	14°10	16°23	16°58	13°25	n.a.	S 3
M 4	14 32 13	8°58'23	0♌35	25°13	22°37	11°40	12°25	4°50	3°12	23°59	14°10	16°23	16°55	13°32	n.a.	M 4
T 5	14 36 9	9°55'42	14° 7	25° 4	23°50	12°18	12°R25	4°55	3°14	23°58	14°11	16°R23	16°51	13°39	n.a.	T 5
W 6	14 40 6	10°53'00	28° 2	24°59	25° 3	12°56	12°25	5° 1	3°16	23°56	14°11	16°23	16°48	13°45	n.a.	W 6
T 7	14 44 2	11°50'16	12♍19	24°D58	26°17	13°33	12°25	5° 6	3°18	23°54	14°11	16°23	16°45	13°52	n.a.	T 7
F 8	14 47 59	12°47'31	26°56	25° 2	27°30	14°11	12°24	5°12	3°19	23°53	14°12	16°22	16°42	13°59	n.a.	F 8
S 9	14 51 56	13°44'46	11♎49	25°11	28°44	14°49	12°23	5°18	3°21	23°51	14°12	16°22	16°39	14° 5	n.a.	S 9
S 10	14 55 52	14°41'59	26°49	25°24	29°57	15°27	12°22	5°24	3°23	23°50	14°12	16°22	16°35	14°12	n.a.	S 10
M11	14 59 49	15°39'12	11♏51	25°42	1♊10	16° 4	12°21	5°29	3°24	23°48	14°12	16°D22	16°32	14°19	n.a.	M11
T 12	15 3 45	16°36'24	26°44	26° 4	2°24	16°42	12°20	5°35	3°26	23°47	14°12	16°R22	16°29	14°25	n.a.	T 12
W13	15 7 42	17°33'35	11♐21	26°30	3°37	17°20	12°19	5°41	3°27	23°46	14°13	16°22	16°26	14°32	n.a.	W13
T 14	15 11 38	18°30'46	25°37	27° 1	4°50	17°58	12°17	5°47	3°29	23°44	14°13	16°22	16°23	14°39	n.a.	T 14
F 15	15 15 35	19°27'56	9♑28	27°36	6° 4	18°35	12°15	5°53	3°30	23°43	14°13	16°21	16°20	14°45	n.a.	F 15
S 16	15 19 31	20°25'07	22°53	28°15	7°17	19°13	12°13	6° 0	3°31	23°41	14°13	16°21	16°16	14°52	n.a.	S 16
S 17	15 23 28	21°22'17	5♒53	28°59	8°30	19°51	12°11	6° 6	3°33	23°40	14°13	16°21	16°13	14°59	n.a.	S 17
M18	15 27 25	22°19'26	18°30	29°46	9°44	20°29	12° 8	6°12	3°34	23°38	14°13	16°D21	16°10	15° 5	n.a.	M18
T 19	15 31 21	23°16'35	0♓49	0♉38	10°57	21° 6	12° 6	6°18	3°35	23°37	14°R13	16°21	16° 7	15°12	n.a.	T 19
W20	15 35 18	24°13'45	12°54	1°33	12°10	21°44	12° 3	6°25	3°36	23°36	14°13	16°21	16° 4	15°19	n.a.	W20
T 21	15 39 14	25°10'53	24°49	2°32	13°23	22°22	12° 0	6°31	3°37	23°34	14°13	16°22	16° 1	15°25	n.a.	T 21
F 22	15 43 11	26° 8'02	6♈39	3°35	14°37	23° 0	11°57	6°38	3°38	23°33	14°13	16°23	15°57	15°32	n.a.	F 22
S 23	15 47 7	27° 5'11	18°27	4°42	15°50	23°37	11°54	6°44	3°39	23°32	14°13	16°24	15°54	15°39	n.a.	S 23
S 24	15 51 4	28° 2'19	0♉18	5°52	17° 3	24°15	11°50	6°51	3°40	23°31	14°13	16°24	15°51	15°45	n.a.	S 24
M25	15 55 0	28°59'28	12°14	7° 6	18°16	24°53	11°46	6°57	3°41	23°29	14°12	16°R25	15°48	15°52	n.a.	M25
T 26	15 58 57	29°56'36	24°18	8°24	19°30	25°31	11°42	7° 4	3°42	23°28	14°12	16°25	15°45	15°59	n.a.	T 26
W27	16 2 54	0♊53'44	6♊31	9°45	20°43	26° 9	11°38	7°11	3°43	23°27	14°12	16°24	15°41	16° 5	n.a.	W27
T 28	16 6 50	1°50'52	18°57	11°10	21°56	26°46	11°34	7°17	3°44	23°26	14°12	16°22	15°38	16°12	n.a.	T 28
F 29	16 10 47	2°48'00	1♋35	12°37	23° 9	27°24	11°30	7°24	3°44	23°24	14°12	16°20	15°35	16°19	n.a.	F 29
S 30	16 14 43	3°45'08	14°26	14° 9	24°22	28° 2	11°25	7°31	3°45	23°23	14°11	16°18	15°32	16°25	n.a.	S 30
S 31	16 18 40	4♊42'15	27♋32	15♉44	25♊35	28♊40	11♑21	7♋38	3♓46	23♎22	14♒11	16♉16	15♉29	16♈32	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13n43	26n33	3n 5	7n52	2s29	17n54	0n15	23n15	1n 5	23s30	0s22	23n52	0n14	11s11	0s45	7s34	2n 1	29s45	13s38	16n55	17n 8	2n38		n.a.
S 2	14 2	27 35	3 57	7 33	2 42	18 16	0 17	23 20	1 5	23 30	0 22	23 52	0 14	11 10	0 45	7 33	2 1	29 45	13 38	16 56	17 7	2 41		n.a.
S 3	14 21	27 10	4 38	7 16	2 53	18 38	0 20	23 26	1 5	23 30	0 22	23 52	0 14	11 10	0 45	7 33	2 1	29 46	13 39	16 56	17 6	2 44		n.a.
M 4	14 39	25 13	5 5	7 2	3 3	19 0	0 22	23 32	1 5	23 30	0 23	23 52	0 14	11 9	0 45	7 32	2 1	29 46	13 39	16 56	17 5	2 47		n.a.
T 5	14 58	21 50	5 17	6 50	3 13	19 21	0 25	23 37	1 6	23 31	0 23	23 52	0 14	11 8	0 45	7 31	2 1	29 46	13 39	16 56	17 4	2 51		n.a.
W 6	15 16	17 8	5 11	6 40	3 21	19 41	0 27	23 42	1 6	23 31	0 23	23 52	0 14	11 8	0 46	7 31	2 1	29 46	13 40	16 56	17 3	2 54		n.a.
T 7	15 34	11 24	4 45	6 34	3 27	20 2	0 30	23 47	1 6	23 31	0 23	23 51	0 14	11 7	0 46	7 30	2 1	29 47	13 40	16 56	17 2	2 57		n.a.
F 8	15 51	4 55	4 1	6 30	3 33	20 21	0 32	23 52	1 6	23 31	0 23	23 51	0 14	11 7	0 46	7 30	2 1	29 47	13 41	16 56	17 1	3 1		n.a.
S 9	16 9	1s58	3 0	6 29	3 38	20 40	0 34	23 56	1 6	23 32	0 24	23 51	0 14	11 6	0 46	7 29	2 1	29 47	13 41	16 56	17 0	3 4		n.a.
S 10	16 26	8 48	1 46	6 30	3 41	20 58	0 37	24 1	1 6	23 32	0 24	23 51	0 14	11 6	0 46	7 29	2 1	29 47	13 41	16 56	16 59	3 7		n.a.
M11	16 43	15 10	0 25	6 34	3 44	21 16	0 39	24 5	1 7	23 32	0 24	23 51	0 15	11 5	0 46	7 28	2 1	29 48	13 42	16 56	16 59	3 10		n.a.
T 12	17 0	20 35	0s57	6 41	3 45	21 33	0 41	24 9	1 7	23 33	0 24	23 51	0 15	11 5	0 46	7 28	2 1	29 48	13 42	16 56	16 58	3 14		n.a.
W13	17 16	24 37	2 14	6 50	3 46	21 50	0 44	24 13	1 7	23 33	0 25	23 50	0 15	11 4	0 46	7 27	2 1	29 48	13 42	16 55	16 57	3 17		n.a.
T 14	17 32	27 0	3 21	7 2	3 45	22 6	0 46	24 17	1 7	23 33	0 25	23 50	0 15	11 4	0 46	7 27	2 1	29 49	13 43	16 55	16 56	3 20		n.a.
F 15	17 48	27 36	4 14	7 16	3 44	22 22	0 48	24 20	1 7	23 34	0 25	23 50	0 15	11 3	0 46	7 26	2 1	29 49	13 43	16 55	16 55	3 24		n.a.
S 16	18 4	26 32	4 51	7 32	3 41	22 36	0 50	24 24	1 7	23 34	0 25	23 50	0 15	11 3	0 46	7 26	2 1	29 49	13 43	16 55	16 54	3 27		n.a.
S 17	18 19	24 3	5 12	7 51	3 38	22 51	0 52	24 27	1 7	23 34	0 25	23 50	0 15	11 2	0 46	7 25	2 1	29 50	13 44	16 55	16 53	3 30		n.a.
M18	18 34	20 28	5 17	8 11	3 34	23 4	0 55	24 30	1 8	23 35	0 26	23 49	0 15	11 2	0 46	7 25	2 1	29 50	13 44	16 55	16 52	3 34		n.a.
T 19	18 48	16 5	5 7	8 34	3 29	23 17	0 57	24 32	1 8	23 35	0 26	23 49	0 15	11 1	0 46	7 24	2 1	29 50	13 45	16 55	16 51	3 37		n.a.
W20	19 3	11 9	4 44	8 58	3 24	23 29	0 59	24 35	1 8	23 36	0 26	23 49	0 15	11 1	0 46	7 24	2 1	29 51	13 45	16 55	16 50	3 40		n.a.
T 21	19 17	5 53	4 9	9 25	3 17	23 41	1 1	24 38	1 8	23 36	0 26	23 49	0 15	11 1	0 46	7 23	2 1	29 51	13 45	16 55	16 49	3 43		n.a.
F 22	19 31	0 26	3 23	9 53	3 10	23 52	1 3	24 40	1 8	23 37	0 26	23 48	0 15	11 0	0 46	7 23	2 1	29 51	13 46	16 56	16 48	3 47		n.a.
S 23	19 44	5n 1	2 29	10 22	3 3	24 2	1 5	24 42	1 8	23 37	0 27	23 48	0 15	11 0	0 46	7 22	2 1	29 52	13 46	16 56	16 47	3 50		n.a.
S 24	19 57	10 20	1 28	10 53	2 55	24 11	1 7	24 44	1 8	23 38	0 27	23 48	0 16	11 0	0 46	7 22	2 1	29 52	13 46	16 56	16 46	3 53		n.a.
M25	20 10	15 19	0 23	11 26	2 46	24 20	1 9	24 45	1 8	23 38	0 27	23 48	0 16	10 59	0 46	7 22	2 1	29 52	13 47	16 56	16 46	3 57		n.a.
T 26	20 22	19 46	0n43	12 0	2 37	24 28	1 11	24 47	1 9	23 39	0 27	23 47	0 16	10 59	0 46	7 21	2 1	29 53	13 47	16 56	16 45	4 0		n.a.
W27	20 35	23 26	1 49	12 35	2 27	24 35	1 12	24 48	1 9	23 40	0 28	23 47	0 16	10 59	0 46	7 21	2 1	29 53	13 47	16 56	16 44	4 3		n.a.
T 28	20 46	26 5	2 50	13 11	2 17	24 42	1 14	24 49	1 9	23 40	0 28	23 47	0 16	10 58	0 46	7 20	2 1	29 54	13 48	16 56	16 43	4 6		n.a.
F 29	20 58	27 27	3 44	13 48	2 6	24 48	1 16	24 50	1 9	23 41	0 28	23 46	0 16	10 58	0 46	7 20	2 0	29 54	13 48	16 55	16 42	4 10		n.a.
S 30	21 9	27 22	4 28	14 26	1 55	24 53	1 17	24 51	1 9	23 41	0 28	23 46	0 16	10 58	0 46	7 20	2 0	29 54	13 48	16 54	16 41	4 13		n.a.
S 31	21n20	25n46	4n59	15n 5	1s44	24n58	1n19	24n52	1n 9	23s42	0s28	23n46	0n16	10s58	0s46	7s19	2n 0	29s55	13s49	16n54	16n40	4n16		n.a.

Julian Day Number = 1657624.5, Delta T = 03h27m31s
Ecliptic obliquity = 23°43'05, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'46, Lahiri = - 6°21'45 Julian Calendar 1 May 175 BCE == Greg. Calendar 28 Apr. 175 BCE

The year -174 astronomical counting style corresponds to year 175 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 175 BCE
geocentric

JUNE 175 BCE (-174) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 22 36	5♊39'22	10♌53	17♉22	26♊48	29♊17	11°R16	7♋45	3♓46	23°R21	14°R11	16°R14	15♉26	16♈39	n.a.	M 1
T 2	16 26 33	6°36'29	24°30	19° 3	28° 2	29°55	11♂11	7°52	3°47	23♎20	14♒11	16♉12	15°22	16°45	n.a.	T 2
W 3	16 30 30	7°33'35	8♍21	20°47	29°15	0♋33	11° 6	7°59	3°47	23°19	14°10	16°D12	15°19	16°52	n.a.	W 3
T 4	16 34 26	8°30'41	22°28	22°35	0♋28	1°11	11° 0	8° 6	3°48	23°18	14°10	16°12	15°16	16°59	n.a.	T 4
F 5	16 38 23	9°27'47	6♎48	24°25	1°41	1°49	10°55	8°13	3°48	23°17	14° 9	16°13	15°13	17° 5	n.a.	F 5
S 6	16 42 19	10°24'53	21°18	26°18	2°54	2°26	10°49	8°20	3°48	23°16	14° 9	16°15	15°10	17°12	n.a.	S 6
S 7	16 46 16	11°21'59	5♏56	28°14	4° 7	3° 4	10°44	8°27	3°49	23°15	14° 9	16°16	15° 6	17°18	n.a.	S 7
M 8	16 50 12	12°19'04	20°36	0♊12	5°20	3°42	10°38	8°34	3°49	23°14	14° 8	16°R16	15° 3	17°25	n.a.	M 8
T 9	16 54 9	13°16'10	5♐12	2°13	6°33	4°20	10°32	8°41	3°49	23°13	14° 8	16°15	15° 0	17°32	n.a.	T 9
W10	16 58 5	14°13'17	19°37	4°15	7°46	4°58	10°26	8°49	3°49	23°12	14° 7	16°13	14°57	17°38	n.a.	W10
T 11	17 2 2	15°10'23	3♑46	6°20	8°59	5°35	10°19	8°56	3°49	23°11	14° 7	16° 9	14°54	17°45	n.a.	T 11
F 12	17 5 59	16° 7'30	17°35	8°25	10°11	6°13	10°13	9° 3	3°49	23°11	14° 6	16° 5	14°51	17°52	n.a.	F 12
S 13	17 9 55	17° 4'38	1♒ 0	10°32	11°24	6°51	10° 7	9°11	3°R49	23°10	14° 6	16° 0	14°47	17°58	n.a.	S 13
S 14	17 13 52	18° 1'46	14° 2	12°40	12°37	7°29	10° 0	9°18	3°49	23° 9	14° 5	15°56	14°44	18° 5	n.a.	S 14
M15	17 17 48	18°58'54	26°42	14°49	13°50	8° 7	9°53	9°25	3°49	23° 8	14° 4	15°53	14°41	18°12	n.a.	M15
T 16	17 21 45	19°56'04	9♓ 3	16°57	15° 3	8°45	9°46	9°33	3°49	23° 8	14° 4	15°51	14°38	18°18	n.a.	T 16
W17	17 25 41	20°53'14	21° 8	19° 6	16°16	9°22	9°40	9°40	3°49	23° 7	14° 3	15°D50	14°35	18°25	n.a.	W17
T 18	17 29 38	21°50'25	3♈ 3	21°14	17°29	10° 0	9°33	9°48	3°49	23° 6	14° 2	15°51	14°32	18°32	n.a.	T 18
F 19	17 33 35	22°47'36	14°53	23°22	18°41	10°38	9°25	9°55	3°48	23° 6	14° 2	15°52	14°28	18°38	n.a.	F 19
S 20	17 37 31	23°44'49	26°42	25°29	19°54	11°16	9°18	10° 3	3°48	23° 5	14° 1	15°54	14°25	18°45	n.a.	S 20
S 21	17 41 28	24°42'02	8♉36	27°35	21° 7	11°54	9°11	10°10	3°48	23° 4	14° 0	15°55	14°22	18°52	n.a.	S 21
M22	17 45 24	25°39'17	20°38	29°40	22°20	12°32	9° 4	10°18	3°47	23° 4	14° 0	15°R55	14°19	18°58	n.a.	M22
T 23	17 49 21	26°36'32	2♊51	1♋44	23°32	13°10	8°56	10°25	3°47	23° 3	13°59	15°54	14°16	19° 5	n.a.	T 23
W24	17 53 17	27°33'48	15°19	3°47	24°45	13°48	8°49	10°33	3°46	23° 3	13°58	15°50	14°12	19°12	n.a.	W24
T 25	17 57 14	28°31'05	28° 2	5°48	25°58	14°26	8°41	10°40	3°46	23° 2	13°57	15°45	14° 9	19°18	n.a.	T 25
F 26	18 1 10	29°28'23	11♋ 1	7°47	27°10	15° 4	8°34	10°48	3°45	23° 2	13°56	15°39	14° 6	19°25	n.a.	F 26
S 27	18 5 7	0♋25'41	24°15	9°45	28°23	15°41	8°26	10°56	3°44	23° 2	13°56	15°31	14° 3	19°32	n.a.	S 27
S 28	18 9 4	1°23'01	7♌43	11°42	29°36	16°19	8°18	11° 3	3°44	23° 1	13°55	15°24	14° 0	19°38	n.a.	S 28
M29	18 13 0	2°20'21	21°23	13°37	0♌48	16°57	8°11	11°11	3°43	23° 1	13°54	15°17	13°57	19°45	n.a.	M29
T 30	18 16 57	3♋17'41	5♍14	15♋30	2♌ 1	17♋35	8♂ 3	11♋19	3♓42	23♎ 1	13♒53	15♉12	13♉53	19♈52	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21n30	22n43	5n14	15n44	1s33	25n 1	1n21	24n52	1n 9	23s43	0s29	23n45	0n16	10s58	0s46	7s19	2n 0	29s55	13s49	16n53	16n39	4n20		n.a.
T 2	21 40	18 24	5 12	16 23	1 21	25 4	1 22	24 52	1 9	23 43	0 29	23 45	0 16	10 57	0 47	7 18	2 0	29 56	13 50	16 53	16 38	4 23		n.a.
W 3	21 50	13 2	4 52	17 3	1 9	25 7	1 24	24 52	1 9	23 44	0 29	23 45	0 16	10 57	0 47	7 18	2 0	29 56	13 50	16 53	16 37	4 26		n.a.
T 4	21 59	6 55	4 14	17 42	0 57	25 8	1 25	24 52	1 9	23 44	0 29	23 44	0 16	10 57	0 47	7 18	2 0	29 57	13 50	16 53	16 36	4 29		n.a.
F 5	22 8	0 20	3 20	18 22	0 45	25 9	1 26	24 52	1 9	23 45	0 29	23 44	0 16	10 57	0 47	7 17	2 0	29 57	13 51	16 53	16 35	4 33		n.a.
S 6	22 16	6s21	2 13	19 1	0 34	25 9	1 28	24 51	1 10	23 46	0 30	23 44	0 16	10 57	0 47	7 17	2 0	29 57	13 51	16 53	16 34	4 36		n.a.
S 7	22 24	12 46	0 57	19 39	0 22	25 8	1 29	24 51	1 10	23 46	0 30	23 43	0 17	10 57	0 47	7 17	2 0	29 58	13 51	16 54	16 33	4 39		n.a.
M 8	22 32	18 29	0s24	20 16	0 10	25 6	1 30	24 50	1 10	23 47	0 30	23 43	0 17	10 57	0 47	7 16	2 0	29 58	13 52	16 54	16 32	4 43		n.a.
T 9	22 39	23 5	1 42	20 52	0n 1	25 4	1 31	24 49	1 10	23 48	0 30	23 42	0 17	10 57	0 47	7 16	2 0	29 59	13 52	16 54	16 32	4 46		n.a.
W10	22 46	26 11	2 53	21 27	0 12	25 1	1 32	24 47	1 10	23 49	0 30	23 42	0 17	10 57	0 47	7 16	2 0	29 59	13 52	16 53	16 31	4 49		n.a.
T 11	22 53	27 31	3 51	22 0	0 23	24 57	1 33	24 46	1 10	23 49	0 31	23 42	0 17	10 57	0 47	7 16	2 0	30 0	13 53	16 52	16 30	4 52		n.a.
F 12	22 59	27 5	4 35	22 31	0 33	24 53	1 34	24 44	1 10	23 50	0 31	23 41	0 17	10 57	0 47	7 15	2 0	30 0	13 53	16 51	16 29	4 56		n.a.
S 13	23 5	25 4	5 2	23 0	0 43	24 48	1 35	24 42	1 10	23 51	0 31	23 41	0 17	10 57	0 47	7 15	2 0	30 1	13 53	16 49	16 28	4 59		n.a.
S 14	23 10	21 47	5 12	23 27	0 53	24 42	1 36	24 40	1 10	23 51	0 31	23 40	0 17	10 57	0 47	7 15	2 0	30 1	13 53	16 48	16 27	5 2		n.a.
M15	23 15	17 33	5 7	23 51	1 1	24 35	1 36	24 38	1 10	23 52	0 31	23 40	0 17	10 57	0 47	7 15	2 0	30 2	13 54	16 47	16 26	5 6		n.a.
T 16	23 20	12 42	4 47	24 13	1 9	24 28	1 37	24 36	1 10	23 53	0 32	23 39	0 17	10 57	0 47	7 14	2 0	30 2	13 54	16 46	16 25	5 9		n.a.
W17	23 24	7 27	4 15	24 32	1 16	24 20	1 37	24 33	1 10	23 53	0 32	23 39	0 17	10 57	0 47	7 14	1 59	30 3	13 54	16 46	16 24	5 12		n.a.
T 18	23 28	2 1	3 33	24 48	1 23	24 11	1 38	24 30	1 10	23 54	0 32	23 38	0 17	10 57	0 47	7 14	1 59	30 3	13 55	16 46	16 23	5 15		n.a.
F 19	23 31	3n28	2 41	25 2	1 29	24 1	1 38	24 27	1 10	23 55	0 32	23 38	0 17	10 57	0 47	7 14	1 59	30 4	13 55	16 47	16 22	5 19		n.a.
S 20	23 34	8 49	1 43	25 13	1 34	23 51	1 39	24 24	1 10	23 56	0 32	23 38	0 18	10 58	0 47	7 14	1 59	30 4	13 55	16 47	16 21	5 22		n.a.
S 21	23 37	13 54	0 40	25 20	1 39	23 40	1 39	24 21	1 10	23 56	0 33	23 37	0 18	10 58	0 47	7 14	1 59	30 5	13 56	16 48	16 20	5 25		n.a.
M22	23 39	18 32	0n26	25 25	1 42	23 28	1 39	24 17	1 10	23 57	0 33	23 36	0 18	10 58	0 47	7 13	1 59	30 5	13 56	16 48	16 19	5 29		n.a.
T 23	23 40	22 27	1 31	25 28	1 45	23 16	1 39	24 14	1 10	23 58	0 33	23 36	0 18	10 58	0 47	7 13	1 59	30 6	13 56	16 47	16 18	5 32		n.a.
W24	23 42	25 26	2 33	25 27	1 48	23 3	1 39	24 10	1 10	23 58	0 33	23 35	0 18	10 58	0 47	7 13	1 59	30 6	13 56	16 46	16 17	5 35		n.a.
T 25	23 43	27 10	3 28	25 24	1 49	22 50	1 39	24 6	1 10	23 59	0 33	23 35	0 18	10 59	0 47	7 13	1 59	30 7	13 57	16 45	16 16	5 38		n.a.
F 26	23 43	27 28	4 14	25 19	1 50	22 35	1 39	24 1	1 10	24 0	0 33	23 34	0 18	10 59	0 47	7 13	1 59	30 7	13 57	16 43	16 15	5 42		n.a.
S 27	23 43	26 13	4 47	25 11	1 50	22 20	1 39	23 57	1 10	24 0	0 34	23 34	0 18	10 59	0 47	7 13	1 59	30 8	13 57	16 41	16 14	5 45		n.a.
S 28	23 43	23 27	5 5	25 1	1 50	22 5	1 39	23 52	1 10	24 1	0 34	23 33	0 18	11 0	0 48	7 13	1 59	30 8	13 58	16 38	16 13	5 48		n.a.
M29	23 42	19 21	5 6	24 49	1 49	21 49	1 38	23 48	1 10	24 2	0 34	23 33	0 18	11 0	0 48	7 13	1 59	30 9	13 58	16 37	16 13	5 52		n.a.
T 30	23n41	14n11	4n49	24n35	1n48	21n32	1n38	23n43	1n10	24s 2	0s34	23n32	0n18	11s 0	0s48	7s13	1n59	30s 9	13s58	16n35	16n12	5n55		n.a.

Julian Day Number = 1657655.5, Delta T = 03h27m30s
Ecliptic obliquity = 23°43'05, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'41, Lahiri = - 6°21'41 Julian Calendar 1 June 175 BCE == Greg. Calendar 29 May 175 BCE

The year -174 astronomical counting style corresponds to year 175 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 175 BCE
geocentric

JULY 175 BCE (-174) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 20 53	4♋15'02	19♍12	17♋22	3♌13	18♋13	7°R55	11♋26	3°R41	23°R 0	13°R52	15°R 9	13♉50	19♈58	n.a.	W 1
T 2	18 24 50	5°12'24	3♎16	19°12	4°26	18°51	7♏47	11°34	3♓40	23♎ 0	13♒51	15°D 8	13°47	20° 5	n.a.	T 2
F 3	18 28 46	6° 9'47	17°26	21° 0	5°38	19°29	7°40	11°42	3°39	23° 0	13°50	15♉ 9	13°44	20°12	n.a.	F 3
S 4	18 32 43	7° 7'10	1♏39	22°47	6°51	20° 7	7°32	11°49	3°39	23° 0	13°49	15°10	13°41	20°18	n.a.	S 4
S 5	18 36 39	8° 4'34	15°54	24°32	8° 3	20°45	7°24	11°57	3°37	22°59	13°48	15°R10	13°38	20°25	n.a.	S 5
M 6	18 40 36	9° 1'59	0♐ 9	26°16	9°15	21°23	7°16	12° 5	3°36	22°59	13°47	15° 9	13°34	20°32	n.a.	M 6
T 7	18 44 33	9°59'25	14°19	27°57	10°28	22° 1	7° 9	12°12	3°35	22°59	13°46	15° 6	13°31	20°38	n.a.	T 7
W 8	18 48 29	10°56'52	28°22	29°38	11°40	22°39	7° 1	12°20	3°34	22°59	13°45	15° 1	13°28	20°45	n.a.	W 8
T 9	18 52 26	11°54'20	12♑13	1♌16	12°52	23°18	6°53	12°28	3°33	22°D59	13°44	14°53	13°25	20°52	n.a.	T 9
F 10	18 56 22	12°51'50	25°49	2°54	14° 5	23°56	6°45	12°35	3°32	22°59	13°43	14°44	13°22	20°58	n.a.	F 10
S 11	19 0 19	13°49'20	9♒ 6	4°29	15°17	24°34	6°38	12°43	3°30	22°59	13°42	14°34	13°18	21° 5	n.a.	S 11
S 12	19 4 15	14°46'52	22° 3	6° 3	16°29	25°12	6°30	12°51	3°29	22°59	13°41	14°25	13°15	21°12	n.a.	S 12
M13	19 8 12	15°44'26	4♓40	7°35	17°41	25°50	6°22	12°59	3°28	23° 0	13°40	14°16	13°12	21°18	n.a.	M13
T 14	19 12 9	16°42'00	17° 0	9° 6	18°53	26°28	6°15	13° 6	3°26	23° 0	13°39	14°10	13° 9	21°25	n.a.	T 14
W15	19 16 5	17°39'37	29° 5	10°35	20° 5	27° 6	6° 7	13°14	3°25	23° 0	13°38	14° 6	13° 6	21°32	n.a.	W15
T 16	19 20 2	18°37'15	11♈ 0	12° 3	21°17	27°44	6° 0	13°22	3°23	23° 0	13°37	14° 4	13° 3	21°38	n.a.	T 16
F 17	19 23 58	19°34'55	22°50	13°29	22°29	28°23	5°52	13°29	3°22	23° 0	13°36	14°D 4	12°59	21°45	n.a.	F 17
S 18	19 27 55	20°32'36	4♉39	14°53	23°41	29° 1	5°45	13°37	3°20	23° 1	13°35	14° 5	12°56	21°52	n.a.	S 18
S 19	19 31 51	21°30'19	16°34	16°16	24°53	29°39	5°38	13°45	3°19	23° 1	13°33	14°R 5	12°53	21°58	n.a.	S 19
M20	19 35 48	22°28'04	28°40	17°37	26° 5	0♌17	5°31	13°52	3°17	23° 1	13°32	14° 4	12°50	22° 5	n.a.	M20
T 21	19 39 44	23°25'51	11♊ 0	18°56	27°17	0°55	5°24	14° 0	3°16	23° 2	13°31	14° 1	12°47	22°12	n.a.	T 21
W22	19 43 41	24°23'40	23°39	20°13	28°29	1°34	5°17	14° 8	3°14	23° 2	13°30	13°55	12°44	22°18	n.a.	W22
T 23	19 47 38	25°21'30	6♋37	21°29	29°41	2°12	5°10	14°15	3°12	23° 2	13°29	13°47	12°40	22°25	n.a.	T 23
F 24	19 51 34	26°19'22	19°57	22°43	0♍53	2°50	5° 3	14°23	3°10	23° 3	13°28	13°37	12°37	22°31	n.a.	F 24
S 25	19 55 31	27°17'15	3♌35	23°54	2° 5	3°29	4°56	14°30	3° 9	23° 3	13°26	13°26	12°34	22°38	n.a.	S 25
S 26	19 59 27	28°15'10	17°29	25° 4	3°16	4° 7	4°50	14°38	3° 7	23° 4	13°25	13°14	12°31	22°45	n.a.	S 26
M27	20 3 24	29°13'07	1♍35	26°11	4°28	4°45	4°43	14°46	3° 5	23° 4	13°24	13° 4	12°28	22°51	n.a.	M27
T 28	20 7 20	0♌11'05	15°47	27°17	5°40	5°24	4°37	14°53	3° 3	23° 5	13°23	12°56	12°24	22°58	n.a.	T 28
W29	20 11 17	1° 9'04	0♎ 2	28°19	6°51	6° 2	4°30	15° 1	3° 1	23° 6	13°22	12°50	12°21	23° 5	n.a.	W29
T 30	20 15 13	2° 7'05	14°16	29°20	8° 3	6°40	4°24	15° 8	2°59	23° 6	13°20	12°47	12°18	23°11	n.a.	T 30
F 31	20 19 10	3♌ 5'07	28♎26	0♍17	9♍14	7♌19	4♏18	15♋16	2♓57	23♎ 7	13♒19	12♉47	12♉15	23♈18	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	23n39	8n14	4n16	24n19	1n46	21n15	1n37	23n38	1n10	24s 3	0s34	23n32	0n18	11s 1	0s48	7s13	1n59	30s10	13s58	16n34	16n11	5n58			n.a.
T 2	23 37	1 50	3 26	24 1	1 43	20 57	1 37	23 32	1 10	24 4	0 34	23 31	0 19	11 1	0 48	7 13	1 59	30 10	13 59	16 34	16 10	6 1			n.a.
F 3	23 34	4s43	2 24	23 42	1 40	20 38	1 36	23 27	1 10	24 4	0 35	23 30	0 19	11 1	0 48	7 13	1 58	30 11	13 59	16 34	16 9	6 5			n.a.
S 4	23 31	11 3	1 12	23 21	1 36	20 19	1 36	23 21	1 10	24 5	0 35	23 30	0 19	11 2	0 48	7 13	1 58	30 11	13 59	16 34	16 8	6 8			n.a.
S 5	23 28	16 51	0s 4	22 58	1 32	19 59	1 35	23 15	1 10	24 5	0 35	23 29	0 19	11 2	0 48	7 13	1 58	30 12	13 59	16 35	16 7	6 11			n.a.
M 6	23 24	21 43	1 20	22 35	1 28	19 39	1 34	23 9	1 10	24 6	0 35	23 29	0 19	11 2	0 48	7 13	1 58	30 12	14 0	16 34	16 6	6 14			n.a.
T 7	23 20	25 16	2 30	22 10	1 23	19 18	1 33	23 3	1 10	24 7	0 35	23 28	0 19	11 3	0 48	7 13	1 58	30 13	14 0	16 33	16 5	6 18			n.a.
W 8	23 16	27 13	3 30	21 43	1 17	18 57	1 32	22 57	1 10	24 7	0 35	23 27	0 19	11 3	0 48	7 13	1 58	30 13	14 0	16 32	16 4	6 21			n.a.
T 9	23 11	27 25	4 17	21 16	1 11	18 36	1 31	22 50	1 10	24 8	0 36	23 27	0 19	11 4	0 48	7 13	1 58	30 14	14 0	16 29	16 3	6 24			n.a.
F 10	23 5	25 57	4 48	20 48	1 5	18 13	1 29	22 44	1 10	24 8	0 36	23 26	0 19	11 4	0 48	7 13	1 58	30 14	14 0	16 27	16 2	6 28			n.a.
S 11	22 59	23 3	5 3	20 19	0 59	17 51	1 28	22 37	1 10	24 9	0 36	23 25	0 19	11 5	0 48	7 13	1 58	30 15	14 1	16 24	16 1	6 31			n.a.
S 12	22 53	19 4	5 2	19 49	0 52	17 27	1 27	22 30	1 10	24 9	0 36	23 25	0 19	11 5	0 48	7 13	1 58	30 16	14 1	16 21	16 0	6 34			n.a.
M13	22 47	14 20	4 46	19 19	0 45	17 4	1 25	22 23	1 10	24 10	0 36	23 24	0 20	11 6	0 48	7 13	1 58	30 16	14 1	16 18	15 59	6 37			n.a.
T 14	22 40	9 7	4 16	18 48	0 38	16 40	1 24	22 15	1 10	24 10	0 36	23 23	0 20	11 6	0 48	7 13	1 58	30 17	14 1	16 17	15 58	6 41			n.a.
W15	22 32	3 40	3 36	18 16	0 30	16 15	1 22	22 8	1 10	24 11	0 36	23 23	0 20	11 7	0 48	7 13	1 58	30 17	14 1	16 15	15 57	6 44			n.a.
T 16	22 24	1n51	2 47	17 44	0 22	15 50	1 21	22 0	1 10	24 11	0 36	23 22	0 20	11 8	0 48	7 13	1 58	30 18	14 2	16 15	15 56	6 47			n.a.
F 17	22 16	7 16	1 51	17 11	0 14	15 25	1 19	21 52	1 10	24 12	0 37	23 21	0 20	11 8	0 48	7 14	1 58	30 18	14 2	16 15	15 55	6 50			n.a.
S 18	22 8	12 26	0 50	16 39	0 6	14 59	1 17	21 44	1 10	24 12	0 37	23 21	0 20	11 9	0 48	7 14	1 57	30 19	14 2	16 15	15 54	6 54			n.a.
S 19	21 59	17 12	0n13	16 6	0s 3	14 33	1 15	21 36	1 10	24 13	0 37	23 20	0 20	11 9	0 48	7 14	1 57	30 19	14 2	16 15	15 53	6 57			n.a.
M20	21 49	21 21	1 17	15 33	0 12	14 7	1 13	21 28	1 10	24 13	0 37	23 19	0 20	11 10	0 48	7 14	1 57	30 20	14 2	16 15	15 52	7 0			n.a.
T 21	21 39	24 38	2 18	14 59	0 21	13 40	1 11	21 19	1 10	24 13	0 37	23 18	0 20	11 11	0 48	7 14	1 57	30 20	14 2	16 14	15 51	7 3			n.a.
W22	21 29	26 47	3 14	14 26	0 30	13 13	1 9	21 11	1 10	24 14	0 37	23 18	0 20	11 11	0 48	7 15	1 57	30 21	14 3	16 12	15 50	7 7			n.a.
T 23	21 19	27 34	4 1	13 53	0 39	12 45	1 7	21 2	1 10	24 14	0 37	23 17	0 20	11 12	0 48	7 15	1 57	30 21	14 3	16 10	15 49	7 10			n.a.
F 24	21 8	26 46	4 36	13 20	0 49	12 17	1 4	20 53	1 10	24 14	0 37	23 16	0 21	11 13	0 48	7 15	1 57	30 22	14 3	16 7	15 48	7 13			n.a.
S 25	20 57	24 23	4 57	12 47	0 58	11 49	1 2	20 44	1 10	24 15	0 37	23 16	0 21	11 13	0 48	7 15	1 57	30 22	14 3	16 3	15 47	7 17			n.a.
S 26	20 45	20 32	5 0	12 15	1 8	11 21	1 0	20 35	1 10	24 15	0 37	23 15	0 21	11 14	0 48	7 16	1 57	30 23	14 3	16 0	15 46	7 20			n.a.
M27	20 33	15 29	4 46	11 43	1 18	10 52	0 57	20 25	1 10	24 16	0 38	23 14	0 21	11 15	0 48	7 16	1 57	30 23	14 3	15 56	15 45	7 23			n.a.
T 28	20 21	9 33	4 14	11 11	1 28	10 23	0 55	20 16	1 10	24 16	0 38	23 13	0 21	11 15	0 48	7 16	1 57	30 24	14 3	15 54	15 44	7 26			n.a.
W29	20 8	3 7	3 26	10 40	1 38	9 54	0 52	20 6	1 9	24 16	0 38	23 13	0 21	11 16	0 48	7 16	1 57	30 24	14 3	15 52	15 43	7 30			n.a.
T 30	19 55	3s28	2 25	10 10	1 48	9 25	0 49	19 56	1 9	24 16	0 38	23 12	0 21	11 17	0 48	7 17	1 57	30 25	14 4	15 51	15 42	7 33			n.a.
F 31	19n42	9s52	1n15	9n40	1s58	8n55	0n46	19n46	1n 9	24s17	0s38	23n11	0n21	11s18	0s48	7s17	1n57	30s25	14s 4	15n51	15n41	7n36			n.a.

Julian Day Number = 1657685.5, Delta T = 03h27m29s
Ecliptic obliquity = 23°43'05, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'37, Lahiri = - 6°21'37 Julian Calendar 1 July 175 BCE == Greg. Calendar 28 June 175 BCE

The year -174 astronomical counting style corresponds to year 175 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 175 BCE
geocentric

AUGUST 175 BCE (-174) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 23 6	4♌ 3'11	12♏31	1♍12	10♍26	7♌57	4°R13	15♋23	2°R55	23♎ 8	13°R18	12°R47	12♉12	23♈25	n.a.	S 1
S 2	20 27 3	5° 1'16	26°31	2° 4	11°37	8°36	4♂ 7	15°31	2♓53	23° 9	13♒17	12♉46	12° 9	23°31	n.a.	S 2
M 3	20 31 0	5°59'23	10♐24	2°53	12°48	9°14	4° 1	15°38	2°51	23° 9	13°15	12°44	12° 5	23°38	n.a.	M 3
T 4	20 34 56	6°57'32	24°11	3°39	14° 0	9°52	3°56	15°45	2°49	23°10	13°14	12°39	12° 2	23°45	n.a.	T 4
W 5	20 38 53	7°55'42	7♑49	4°20	15°11	10°31	3°51	15°53	2°47	23°11	13°13	12°32	11°59	23°51	n.a.	W 5
T 6	20 42 49	8°53'53	21°16	4°59	16°22	11° 9	3°46	16° 0	2°45	23°12	13°12	12°22	11°56	23°58	n.a.	T 6
F 7	20 46 46	9°52'07	4♒31	5°33	17°33	11°48	3°41	16° 7	2°43	23°13	13°10	12°10	11°53	24° 5	n.a.	F 7
S 8	20 50 42	10°50'22	17°32	6° 2	18°44	12°26	3°36	16°15	2°40	23°14	13° 9	11°57	11°50	24°11	n.a.	S 8
S 9	20 54 39	11°48'39	0♓17	6°27	19°55	13° 5	3°31	16°22	2°38	23°15	13° 8	11°44	11°46	24°18	n.a.	S 9
M10	20 58 36	12°46'59	12°46	6°47	21° 6	13°44	3°27	16°29	2°36	23°16	13° 7	11°33	11°43	24°25	n.a.	M10
T 11	21 2 32	13°45'20	25° 0	7° 2	22°17	14°22	3°23	16°36	2°34	23°17	13° 5	11°24	11°40	24°31	n.a.	T 11
W12	21 6 29	14°43'43	7♈ 2	7°11	23°28	15° 1	3°18	16°43	2°31	23°18	13° 4	11°17	11°37	24°38	n.a.	W12
T 13	21 10 25	15°42'09	18°55	7°R15	24°39	15°39	3°14	16°50	2°29	23°19	13° 3	11°14	11°34	24°45	n.a.	T 13
F 14	21 14 22	16°40'36	0♉44	7°12	25°50	16°18	3°11	16°57	2°27	23°20	13° 2	11°12	11°30	24°51	n.a.	F 14
S 15	21 18 18	17°39'06	12°32	7° 2	27° 0	16°57	3° 7	17° 5	2°25	23°21	13° 0	11°12	11°27	24°58	n.a.	S 15
S 16	21 22 15	18°37'39	24°26	6°46	28°11	17°36	3° 4	17°11	2°22	23°22	12°59	11°12	11°24	25° 5	n.a.	S 16
M17	21 26 11	19°36'13	6♊32	6°23	29°21	18°14	3° 0	17°18	2°20	23°24	12°58	11°11	11°21	25°11	n.a.	M17
T 18	21 30 8	20°34'50	18°54	5°53	0♎32	18°53	2°57	17°25	2°18	23°25	12°57	11° 8	11°18	25°18	n.a.	T 18
W19	21 34 4	21°33'30	1♋37	5°17	1°42	19°32	2°55	17°32	2°15	23°26	12°55	11° 3	11°15	25°24	n.a.	W19
T 20	21 38 1	22°32'11	14°44	4°34	2°53	20°11	2°52	17°39	2°13	23°27	12°54	10°55	11°11	25°31	n.a.	T 20
F 21	21 41 58	23°30'55	28°16	3°44	4° 3	20°49	2°49	17°46	2°10	23°29	12°53	10°45	11° 8	25°38	n.a.	F 21
S 22	21 45 54	24°29'41	12♌12	2°49	5°13	21°28	2°47	17°53	2° 8	23°30	12°52	10°34	11° 5	25°44	n.a.	S 22
S 23	21 49 51	25°28'29	26°29	1°50	6°23	22° 7	2°45	17°59	2° 6	23°31	12°51	10°22	11° 2	25°51	n.a.	S 23
M24	21 53 47	26°27'19	11♍ 0	0°47	7°34	22°46	2°43	18° 6	2° 3	23°33	12°49	10°12	10°59	25°58	n.a.	M24
T 25	21 57 44	27°26'11	25°39	29♌42	8°44	23°25	2°41	18°12	2° 1	23°34	12°48	10° 3	10°56	26° 4	n.a.	T 25
W26	22 1 40	28°25'05	10♎17	28°36	9°54	24° 4	2°40	18°19	1°58	23°36	12°47	9°58	10°52	26°11	n.a.	W26
T 27	22 5 37	29°24'01	24°50	27°31	11° 3	24°43	2°39	18°25	1°56	23°37	12°46	9°55	10°49	26°18	n.a.	T 27
F 28	22 9 33	0♍22'59	9♏13	26°28	12°13	25°22	2°37	18°32	1°54	23°39	12°45	9°D54	10°46	26°24	n.a.	F 28
S 29	22 13 30	1°21'58	23°22	25°30	13°23	26° 1	2°37	18°38	1°51	23°40	12°43	9°54	10°43	26°31	n.a.	S 29
S 30	22 17 27	2°21'00	7♐18	24°37	14°33	26°40	2°36	18°44	1°49	23°42	12°42	9°R54	10°40	26°38	n.a.	S 30
M31	22 21 23	3♍20'03	21♐ 1	23♌52	15♎42	27♌19	2♑35	18♋51	1♓46	23♎43	12♒41	9♉53	10♉36	26♈44	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	19n28	15s45	0n 1	9n11	2s 8	8n25	0n44	19n36	1n 9	24s17	0s38	23n10	0n21	11s18	0s49	7s17	1n57	30s26	14s 4	15n51	15n40	7n39		n.a.
S 2	19 14	20 46	1s12	8 43	2 17	7 55	0 41	19 26	1 9	24 17	0 38	23 10	0 21	11 19	0 49	7 18	1 57	30 26	14 4	15 51	15 39	7 43		n.a.
M 3	19 0	24 35	2 21	8 17	2 27	7 25	0 38	19 16	1 9	24 17	0 38	23 9	0 21	11 20	0 49	7 18	1 56	30 26	14 4	15 50	15 39	7 46		n.a.
T 4	18 45	26 55	3 20	7 51	2 37	6 54	0 35	19 5	1 9	24 18	0 38	23 8	0 22	11 21	0 49	7 18	1 56	30 27	14 4	15 49	15 38	7 49		n.a.
W 5	18 30	27 36	4 7	7 27	2 46	6 23	0 32	18 55	1 9	24 18	0 38	23 7	0 22	11 21	0 49	7 19	1 56	30 27	14 4	15 47	15 37	7 52		n.a.
T 6	18 15	26 38	4 40	7 4	2 56	5 53	0 29	18 44	1 9	24 18	0 38	23 6	0 22	11 22	0 49	7 19	1 56	30 28	14 4	15 44	15 36	7 56		n.a.
F 7	17 59	24 10	4 57	6 43	3 5	5 22	0 25	18 33	1 9	24 18	0 38	23 6	0 22	11 23	0 49	7 20	1 56	30 28	14 4	15 40	15 35	7 59		n.a.
S 8	17 43	20 29	4 59	6 24	3 14	4 51	0 22	18 22	1 9	24 19	0 38	23 5	0 22	11 24	0 49	7 20	1 56	30 29	14 4	15 36	15 34	8 2		n.a.
S 9	17 27	15 56	4 45	6 7	3 22	4 19	0 19	18 11	1 8	24 19	0 39	23 4	0 22	11 25	0 49	7 20	1 56	30 29	14 4	15 32	15 33	8 5		n.a.
M10	17 10	10 48	4 17	5 52	3 30	3 48	0 15	17 59	1 8	24 19	0 39	23 3	0 22	11 25	0 49	7 21	1 56	30 30	14 4	15 28	15 32	8 9		n.a.
T 11	16 53	5 20	3 38	5 40	3 38	3 17	0 12	17 48	1 8	24 19	0 39	23 3	0 22	11 26	0 49	7 21	1 56	30 30	14 4	15 26	15 31	8 12		n.a.
W12	16 36	0n13	2 50	5 30	3 44	2 45	0 9	17 36	1 8	24 19	0 39	23 2	0 22	11 27	0 49	7 22	1 56	30 30	14 4	15 24	15 30	8 15		n.a.
T 13	16 19	5 43	1 55	5 23	3 51	2 14	0 5	17 25	1 8	24 19	0 39	23 1	0 23	11 28	0 49	7 22	1 56	30 31	14 4	15 22	15 29	8 18		n.a.
F 14	16 1	11 0	0 55	5 20	3 56	1 42	0 2	17 13	1 8	24 20	0 39	23 0	0 23	11 29	0 49	7 23	1 56	30 31	14 4	15 22	15 28	8 22		n.a.
S 15	15 43	15 53	0n 7	5 19	4 0	1 10	0s 2	17 1	1 8	24 20	0 39	22 59	0 23	11 30	0 49	7 23	1 56	30 32	14 4	15 22	15 27	8 25		n.a.
S 16	15 25	20 13	1 10	5 22	4 3	0 39	0 6	16 49	1 8	24 20	0 39	22 59	0 23	11 30	0 49	7 24	1 56	30 32	14 4	15 22	15 26	8 28		n.a.
M17	15 7	23 47	2 10	5 29	4 5	0 7	0 9	16 36	1 7	24 20	0 39	22 58	0 23	11 31	0 49	7 24	1 56	30 32	14 4	15 22	15 25	8 31		n.a.
T 18	14 48	26 20	3 6	5 39	4 6	0s25	0 13	16 24	1 7	24 20	0 39	22 57	0 23	11 32	0 49	7 25	1 56	30 33	14 4	15 21	15 24	8 35		n.a.
W19	14 29	27 36	3 54	5 54	4 4	0 57	0 17	16 12	1 7	24 20	0 39	22 56	0 23	11 33	0 49	7 25	1 55	30 33	14 4	15 19	15 23	8 38		n.a.
T 20	14 10	27 23	4 31	6 12	4 2	1 28	0 21	15 59	1 7	24 20	0 39	22 55	0 23	11 34	0 49	7 26	1 55	30 33	14 4	15 17	15 22	8 41		n.a.
F 21	13 50	25 33	4 54	6 34	3 57	2 0	0 24	15 47	1 7	24 20	0 39	22 55	0 23	11 35	0 49	7 26	1 55	30 34	14 4	15 13	15 21	8 44		n.a.
S 22	13 31	22 9	5 1	7 0	3 50	2 32	0 28	15 34	1 7	24 20	0 39	22 54	0 24	11 36	0 49	7 27	1 55	30 34	14 4	15 10	15 20	8 47		n.a.
S 23	13 11	17 22	4 50	7 30	3 42	3 3	0 32	15 21	1 7	24 20	0 39	22 53	0 24	11 37	0 49	7 27	1 55	30 34	14 4	15 6	15 19	8 51		n.a.
M24	12 51	11 31	4 19	8 2	3 31	3 35	0 36	15 8	1 6	24 20	0 39	22 52	0 24	11 37	0 49	7 28	1 55	30 35	14 4	15 3	15 18	8 54		n.a.
T 25	12 30	4 59	3 32	8 37	3 19	4 7	0 40	14 55	1 6	24 21	0 39	22 51	0 24	11 38	0 49	7 29	1 55	30 35	14 4	15 0	15 17	8 57		n.a.
W26	12 10	1s49	2 30	9 13	3 4	4 38	0 44	14 42	1 6	24 21	0 39	22 51	0 24	11 39	0 49	7 29	1 55	30 35	14 4	14 58	15 16	9 0		n.a.
T 27	11 49	8 30	1 19	9 51	2 48	5 10	0 48	14 28	1 6	24 21	0 39	22 50	0 24	11 40	0 49	7 30	1 55	30 36	14 4	14 57	15 15	9 4		n.a.
F 28	11 28	14 40	0 4	10 29	2 31	5 41	0 52	14 15	1 6	24 21	0 39	22 49	0 24	11 41	0 49	7 30	1 55	30 36	14 4	14 57	15 14	9 7		n.a.
S 29	11 7	19 59	1s11	11 6	2 12	6 12	0 56	14 1	1 6	24 21	0 39	22 48	0 24	11 42	0 49	7 31	1 55	30 36	14 4	14 57	15 13	9 10		n.a.
S 30	10 45	24 5	2 20	11 42	1 53	6 43	1 0	13 48	1 6	24 21	0 39	22 48	0 24	11 43	0 49	7 32	1 55	30 37	14 4	14 57	15 12	9 13		n.a.
M31	10n24	26s44	3s20	12n16	1s33	7s14	1s 4	13n34	1n 5	24s21	0s39	22n47	0n25	11s44	0s49	7s32	1n55	30s37	14s 4	14n57	15n11	9n16		n.a.

Julian Day Number = 1657716.5, Delta T = 03h27m28s
Ecliptic obliquity = 23°43'05, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'33, Lahiri = - 6°21'33 Julian Calendar 1 Aug. 175 BCE == Greg. Calendar 29 July 175 BCE

The year -174 astronomical counting style corresponds to year 175 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 175 BCE
geocentric

SEPTEMBER 175 BCE (-174) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 25 20	4♍19'09	4♑30	23°R15	16♎52	27♌58	2°R35	18♋57	1°R44	23♎45	12°R40	9°R50	10♉33	26♈51	n.a.	T 1
W 2	22 29 16	5°18'16	17°47	22♌48	18° 1	28°37	2°D35	19° 3	1♓42	23°46	12♒39	9♉43	10°30	26°58	n.a.	W 2
T 3	22 33 13	6°17'25	0♒52	22°30	19°10	29°16	2♑35	19° 9	1°39	23°48	12°38	9°35	10°27	27° 4	n.a.	T 3
F 4	22 37 9	7°16'36	13°45	22°D23	20°19	29°55	2°35	19°15	1°37	23°50	12°36	9°24	10°24	27°11	n.a.	F 4
S 5	22 41 6	8°15'49	26°26	22°27	21°28	0♍34	2°36	19°21	1°34	23°52	12°35	9°13	10°21	27°18	n.a.	S 5
S 6	22 45 2	9°15'04	8♓55	22°41	22°37	1°14	2°36	19°27	1°32	23°53	12°34	9° 2	10°17	27°24	n.a.	S 6
M 7	22 48 59	10°14'21	21°12	23° 5	23°46	1°53	2°37	19°33	1°30	23°55	12°33	8°52	10°14	27°31	n.a.	M 7
T 8	22 52 56	11°13'40	3♈18	23°39	24°55	2°32	2°38	19°39	1°27	23°57	12°32	8°44	10°11	27°37	n.a.	T 8
W 9	22 56 52	12°13'02	15°15	24°22	26° 4	3°11	2°39	19°44	1°25	23°58	12°31	8°39	10° 8	27°44	n.a.	W 9
T 10	23 0 49	13°12'25	27° 4	25°13	27°12	3°51	2°41	19°50	1°22	24° 0	12°30	8°36	10° 5	27°51	n.a.	T 10
F 11	23 4 45	14°11'52	8♉51	26°12	28°21	4°30	2°43	19°55	1°20	24° 2	12°29	8°D35	10° 2	27°57	n.a.	F 11
S 12	23 8 42	15°11'20	20°38	27°18	29°29	5° 9	2°44	20° 1	1°18	24° 4	12°28	8°36	9°58	28° 4	n.a.	S 12
S 13	23 12 38	16°10'51	2♊31	28°30	0♏37	5°49	2°46	20° 6	1°15	24° 6	12°27	8°37	9°55	28°11	n.a.	S 13
M14	23 16 35	17°10'25	14°35	29°47	1°45	6°28	2°49	20°12	1°13	24° 8	12°26	8°R38	9°52	28°17	n.a.	M14
T 15	23 20 31	18°10'00	26°54	1♍ 9	2°53	7° 7	2°51	20°17	1°11	24°10	12°25	8°38	9°49	28°24	n.a.	T 15
W16	23 24 28	19° 9'39	9♋35	2°34	4° 1	7°47	2°54	20°22	1° 9	24°11	12°24	8°35	9°46	28°31	n.a.	W16
T 17	23 28 24	20° 9'19	22°41	4° 4	5° 9	8°26	2°56	20°27	1° 6	24°13	12°23	8°31	9°42	28°37	n.a.	T 17
F 18	23 32 21	21° 9'02	6♌15	5°36	6°16	9° 6	2°59	20°32	1° 4	24°15	12°22	8°25	9°39	28°44	n.a.	F 18
S 19	23 36 18	22° 8'47	20°16	7°10	7°23	9°45	3° 3	20°37	1° 2	24°17	12°21	8°18	9°36	28°51	n.a.	S 19
S 20	23 40 14	23° 8'35	4♍43	8°46	8°31	10°25	3° 6	20°42	1° 0	24°19	12°20	8°10	9°33	28°57	n.a.	S 20
M21	23 44 11	24° 8'24	19°30	10°23	9°38	11° 5	3°10	20°47	0°57	24°21	12°19	8° 4	9°30	29° 4	n.a.	M21
T 22	23 48 7	25° 8'16	4♎29	12° 2	10°45	11°44	3°13	20°52	0°55	24°23	12°18	7°58	9°27	29°11	n.a.	T 22
W23	23 52 4	26° 8'10	19°31	13°42	11°52	12°24	3°17	20°56	0°53	24°25	12°18	7°55	9°23	29°17	n.a.	W23
T 24	23 56 0	27° 8'05	4♏27	15°22	12°58	13° 3	3°21	21° 1	0°51	24°27	12°17	7°D54	9°20	29°24	n.a.	T 24
F 25	23 59 57	28° 8'03	19°10	17° 3	14° 5	13°43	3°26	21° 5	0°49	24°29	12°16	7°54	9°17	29°30	n.a.	F 25
S 26	0 3 53	29° 8'02	3♐35	18°44	15°11	14°23	3°30	21°10	0°47	24°32	12°15	7°55	9°14	29°37	n.a.	S 26
S 27	0 7 50	0♎ 8'03	17°39	20°25	16°17	15° 3	3°35	21°14	0°45	24°34	12°14	7°57	9°11	29°44	n.a.	S 27
M28	0 11 47	1° 8'06	1♑23	22° 6	17°23	15°42	3°40	21°18	0°43	24°36	12°14	7°R57	9° 7	29°50	n.a.	M28
T 29	0 15 43	2° 8'11	14°47	23°47	18°29	16°22	3°45	21°22	0°41	24°38	12°13	7°56	9° 4	29°57	n.a.	T 29
W30	0 19 40	3♎ 8'17	27♑52	25♍27	19♏34	17♍ 2	3♑50	21♋26	0♓39	24♎40	12♒12	7♉54	9♉ 1	0♉ 4	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	10n 2	27s47	4s 8	12n47	1s13	7s45	1s 8	13n20	1n 5	24s21	0s39	22n46	0n25	11s44	0s49	7s33	1n55	30s37	14s 4	14n56	15n10	9n20		n.a.
W 2	9 40	27 10	4 42	13 14	0 53	8 15	1 12	13 6	1 5	24 21	0 39	22 45	0 25	11 45	0 49	7 33	1 55	30 37	14 3	14 54	15 9	9 23		n.a.
T 3	9 18	25 4	5 0	13 39	0 34	8 46	1 16	12 52	1 5	24 21	0 39	22 45	0 25	11 46	0 49	7 34	1 55	30 38	14 3	14 51	15 8	9 26		n.a.
F 4	8 56	21 43	5 3	13 58	0 15	9 16	1 20	12 38	1 5	24 21	0 39	22 44	0 25	11 47	0 49	7 35	1 55	30 38	14 3	14 48	15 7	9 29		n.a.
S 5	8 34	17 23	4 50	14 14	0n 3	9 46	1 24	12 24	1 4	24 21	0 39	22 43	0 25	11 48	0 49	7 35	1 55	30 38	14 3	14 44	15 6	9 33		n.a.
S 6	8 12	12 23	4 24	14 25	0 19	10 16	1 28	12 10	1 4	24 21	0 39	22 42	0 25	11 49	0 49	7 36	1 55	30 38	14 3	14 40	15 5	9 36		n.a.
M 7	7 49	6 59	3 46	14 32	0 35	10 46	1 32	11 55	1 4	24 21	0 39	22 42	0 25	11 50	0 49	7 37	1 54	30 39	14 3	14 37	15 4	9 39		n.a.
T 8	7 26	1 23	2 57	14 34	0 49	11 15	1 37	11 41	1 4	24 21	0 39	22 41	0 26	11 50	0 49	7 38	1 54	30 39	14 3	14 35	15 3	9 42		n.a.
W 9	7 3	4n12	2 2	14 31	1 1	11 44	1 41	11 26	1 4	24 21	0 39	22 40	0 26	11 51	0 49	7 38	1 54	30 39	14 3	14 33	15 2	9 45		n.a.
T 10	6 40	9 36	1 2	14 24	1 13	12 13	1 45	11 12	1 3	24 21	0 39	22 40	0 26	11 52	0 49	7 39	1 54	30 39	14 3	14 32	15 1	9 49		n.a.
F 11	6 17	14 38	0n 1	14 14	1 23	12 42	1 49	10 57	1 3	24 21	0 39	22 39	0 26	11 53	0 49	7 40	1 54	30 39	14 2	14 32	15 0	9 52		n.a.
S 12	5 54	19 9	1 4	13 59	1 32	13 10	1 53	10 42	1 3	24 21	0 39	22 38	0 26	11 54	0 49	7 40	1 54	30 40	14 2	14 32	14 59	9 55		n.a.
S 13	5 31	22 57	2 5	13 41	1 39	13 38	1 57	10 28	1 3	24 21	0 39	22 37	0 26	11 55	0 49	7 41	1 54	30 40	14 2	14 32	14 58	9 58		n.a.
M14	5 7	25 49	3 2	13 19	1 45	14 6	2 0	10 13	1 3	24 21	0 39	22 37	0 26	11 55	0 49	7 42	1 54	30 40	14 2	14 33	14 56	10 1		n.a.
T 15	4 44	27 32	3 51	12 54	1 50	14 33	2 4	9 58	1 2	24 21	0 39	22 36	0 26	11 56	0 49	7 43	1 54	30 40	14 2	14 33	14 55	10 5		n.a.
W16	4 20	27 51	4 30	12 27	1 54	15 1	2 8	9 43	1 2	24 20	0 39	22 35	0 27	11 57	0 49	7 43	1 54	30 40	14 2	14 32	14 54	10 8		n.a.
T 17	3 57	26 40	4 57	11 56	1 57	15 27	2 12	9 27	1 2	24 20	0 39	22 35	0 27	11 58	0 49	7 44	1 54	30 40	14 1	14 30	14 53	10 11		n.a.
F 18	3 33	23 54	5 8	11 24	1 59	15 54	2 16	9 12	1 2	24 20	0 39	22 34	0 27	11 59	0 49	7 45	1 54	30 40	14 1	14 29	14 52	10 14		n.a.
S 19	3 9	19 39	5 2	10 50	1 59	16 20	2 20	8 57	1 2	24 20	0 39	22 34	0 27	11 59	0 49	7 46	1 54	30 40	14 1	14 26	14 51	10 17		n.a.
S 20	2 45	14 10	4 36	10 13	2 0	16 46	2 23	8 42	1 1	24 20	0 39	22 33	0 27	12 0	0 49	7 46	1 54	30 41	14 1	14 24	14 50	10 21		n.a.
M21	2 21	7 45	3 52	9 35	1 59	17 11	2 27	8 26	1 1	24 20	0 39	22 32	0 27	12 1	0 49	7 47	1 54	30 41	14 1	14 21	14 49	10 24		n.a.
T 22	1 57	0 49	2 51	8 56	1 58	17 36	2 31	8 11	1 1	24 20	0 39	22 32	0 27	12 2	0 49	7 48	1 54	30 41	14 0	14 20	14 48	10 27		n.a.
W23	1 33	6s12	1 38	8 16	1 56	18 1	2 34	7 55	1 1	24 20	0 39	22 31	0 27	12 2	0 49	7 49	1 54	30 41	14 0	14 19	14 47	10 30		n.a.
T 24	1 9	12 51	0 19	7 34	1 53	18 25	2 38	7 39	1 0	24 20	0 39	22 31	0 28	12 3	0 49	7 49	1 54	30 41	14 0	14 18	14 46	10 33		n.a.
F 25	0 45	18 42	1s 1	6 52	1 50	18 49	2 41	7 24	1 0	24 20	0 39	22 30	0 28	12 4	0 49	7 50	1 54	30 41	14 0	14 18	14 45	10 37		n.a.
S 26	0 21	23 20	2 15	6 9	1 47	19 12	2 45	7 8	1 0	24 20	0 39	22 29	0 28	12 5	0 49	7 51	1 54	30 41	14 0	14 19	14 44	10 40		n.a.
S 27	0s 3	26 27	3 20	5 25	1 43	19 35	2 48	6 52	1 0	24 19	0 39	22 29	0 28	12 5	0 48	7 52	1 54	30 41	13 59	14 19	14 43	10 43		n.a.
M28	0 27	27 53	4 11	4 41	1 39	19 57	2 51	6 36	0 59	24 19	0 39	22 28	0 28	12 6	0 48	7 53	1 54	30 41	13 59	14 19	14 42	10 46		n.a.
T 29	0 52	27 38	4 47	3 56	1 34	20 19	2 55	6 21	0 59	24 19	0 39	22 28	0 28	12 7	0 48	7 53	1 54	30 41	13 59	14 19	14 41	10 49		n.a.
W30	1s16	25s50	5s 7	3n12	1n30	20s41	2s58	6n 5	0n59	24s19	0s39	22n27	0n28	12s 7	0s48	7s54	1n54	30s41	13s59	14n18	14n40	10n52		n.a.

Julian Day Number = 1657747.5, Delta T = 03h27m27s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'29, Lahiri = - 6°21'28 Julian Calendar 1 Sept. 175 BCE == Greg. Calendar 29 Aug. 175 BCE

The year -174 astronomical counting style corresponds to year 175 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 175 BCE
geocentric

OCTOBER 175 BCE (-174) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 23 36	4♎ 8'24	10♒42	27♍ 8	20♏40	17♍42	3♑55	21♋30	0°R37	24♎42	12°R12	7°R50	8♉58	0♉10	n.a.	T 1
F 2	0 27 33	5° 8'34	23°18	28°48	21°45	18°22	4° 1	21°34	0♓35	24°44	12♒11	7♉45	8°55	0°17	n.a.	F 2
S 3	0 31 29	6° 8'45	5♓41	0♎28	22°50	19° 2	4° 7	21°38	0°33	24°46	12°10	7°39	8°52	0°24	n.a.	S 3
S 4	0 35 26	7° 8'58	17°54	2° 7	23°54	19°42	4°12	21°42	0°32	24°49	12°10	7°33	8°48	0°30	n.a.	S 4
M 5	0 39 22	8° 9'12	29°59	3°47	24°59	20°22	4°18	21°45	0°30	24°51	12° 9	7°29	8°45	0°37	n.a.	M 5
T 6	0 43 19	9° 9'29	11♈55	5°25	26° 3	21° 2	4°25	21°49	0°28	24°53	12° 8	7°25	8°42	0°44	n.a.	T 6
W 7	0 47 15	10° 9'47	23°47	7° 4	27° 7	21°42	4°31	21°52	0°26	24°55	12° 8	7°22	8°39	0°50	n.a.	W 7
T 8	0 51 12	11°10'07	5♉35	8°42	28°10	22°22	4°38	21°55	0°25	24°57	12° 7	7°D22	8°36	0°57	n.a.	T 8
F 9	0 55 9	12°10'30	17°21	10°19	29°14	23° 2	4°44	21°59	0°23	24°59	12° 7	7°22	8°33	1° 4	n.a.	F 9
S 10	0 59 5	13°10'54	29°10	11°57	0♐17	23°42	4°51	22° 2	0°22	25° 2	12° 6	7°23	8°29	1°10	n.a.	S 10
S 11	1 3 2	14°11'20	11♊ 4	13°34	1°20	24°22	4°58	22° 5	0°20	25° 4	12° 6	7°25	8°26	1°17	n.a.	S 11
M12	1 6 58	15°11'48	23° 8	15°10	2°22	25° 2	5° 5	22° 7	0°18	25° 6	12° 5	7°27	8°23	1°23	n.a.	M12
T 13	1 10 55	16°12'18	5♋26	16°46	3°24	25°42	5°13	22°10	0°17	25° 8	12° 5	7°28	8°20	1°30	n.a.	T 13
W14	1 14 51	17°12'50	18° 2	18°22	4°26	26°23	5°20	22°13	0°16	25°11	12° 4	7°R28	8°17	1°37	n.a.	W14
T 15	1 18 48	18°13'24	1♌ 2	19°58	5°28	27° 3	5°28	22°16	0°14	25°13	12° 4	7°28	8°13	1°43	n.a.	T 15
F 16	1 22 44	19°14'00	14°27	21°33	6°29	27°43	5°36	22°18	0°13	25°15	12° 4	7°26	8°10	1°50	n.a.	F 16
S 17	1 26 41	20°14'38	28°21	23° 8	7°30	28°24	5°44	22°20	0°11	25°17	12° 3	7°24	8° 7	1°57	n.a.	S 17
S 18	1 30 38	21°15'18	12♍42	24°43	8°30	29° 4	5°52	22°23	0°10	25°20	12° 3	7°22	8° 4	2° 3	n.a.	S 18
M19	1 34 34	22°15'59	27°28	26°17	9°30	29°44	6° 0	22°25	0° 9	25°22	12° 3	7°20	8° 1	2°10	n.a.	M19
T 20	1 38 31	23°16'42	12♎31	27°51	10°30	0♎25	6° 8	22°27	0° 8	25°24	12° 2	7°19	7°58	2°17	n.a.	T 20
W21	1 42 27	24°17'26	27°43	29°25	11°29	1° 5	6°17	22°29	0° 7	25°26	12° 2	7°18	7°54	2°23	n.a.	W21
T 22	1 46 24	25°18'12	12♏56	0♏59	12°28	1°46	6°25	22°31	0° 6	25°29	12° 2	7°D18	7°51	2°30	n.a.	T 22
F 23	1 50 20	26°19'00	27°58	2°33	13°26	2°26	6°34	22°32	0° 5	25°31	12° 2	7°18	7°48	2°37	n.a.	F 23
S 24	1 54 17	27°19'49	12♐42	4° 6	14°24	3° 7	6°43	22°34	0° 4	25°33	12° 2	7°19	7°45	2°43	n.a.	S 24
S 25	1 58 13	28°20'39	27° 3	5°40	15°22	3°47	6°52	22°35	0° 3	25°35	12° 1	7°20	7°42	2°50	n.a.	S 25
M26	2 2 10	29°21'30	10♑58	7°13	16°19	4°28	7° 1	22°37	0° 2	25°38	12° 1	7°21	7°39	2°56	n.a.	M26
T 27	2 6 7	0♏22'22	24°28	8°46	17°15	5° 8	7°11	22°38	0° 1	25°40	12° 1	7°R21	7°35	3° 3	n.a.	T 27
W28	2 10 3	1°23'15	7♒33	10°18	18°11	5°49	7°20	22°39	0° 0	25°42	12° 1	7°21	7°32	3°10	n.a.	W28
T 29	2 14 0	2°24'09	20°17	11°51	19° 6	6°30	7°30	22°40	29♒59	25°44	12° 1	7°21	7°29	3°16	n.a.	T 29
F 30	2 17 56	3°25'04	2♓44	13°24	20° 1	7°10	7°39	22°41	29°59	25°47	12°D 1	7°20	7°26	3°23	n.a.	F 30
S 31	2 21 53	4♏26'00	14♓57	14♏56	20♐55	7♎51	7♑49	22♋42	29♒58	25♎49	12♒ 1	7♉20	7♉23	3♉30	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	1s40	22s44	5s11	2n26	1n24	21s 2	3s 1	5n49	0n58	24s19	0s39	22n27	0n29	12s 8	0s48	7s55	1n54	30s41	13s58	14n17	14n39	10n56			n.a.
F 2	2 4	18 38	5 1	1 41	1 19	21 22	3 4	5 33	0 58	24 19	0 39	22 26	0 29	12 9	0 48	7 56	1 54	30 41	13 58	14 15	14 38	10 59			n.a.
S 3	2 28	13 48	4 36	0 56	1 13	21 42	3 7	5 17	0 58	24 18	0 39	22 26	0 29	12 9	0 48	7 57	1 54	30 41	13 58	14 13	14 37	11 2			n.a.
S 4	2 52	8 29	3 58	0 11	1 8	22 1	3 9	5 0	0 58	24 18	0 39	22 25	0 29	12 10	0 48	7 57	1 54	30 41	13 58	14 12	14 36	11 5			n.a.
M 5	3 16	2 55	3 11	0s35	1 2	22 20	3 12	4 44	0 57	24 18	0 39	22 25	0 29	12 11	0 48	7 58	1 54	30 41	13 57	14 10	14 35	11 8			n.a.
T 6	3 40	2n42	2 15	1 20	0 56	22 38	3 15	4 28	0 57	24 18	0 39	22 25	0 29	12 11	0 48	7 59	1 54	30 41	13 57	14 9	14 34	11 11			n.a.
W 7	4 4	8 11	1 14	2 5	0 49	22 56	3 17	4 12	0 57	24 18	0 39	22 24	0 29	12 12	0 48	8 0	1 54	30 41	13 57	14 8	14 33	11 15			n.a.
T 8	4 28	13 23	0 10	2 50	0 43	23 13	3 20	3 56	0 56	24 17	0 39	22 24	0 30	12 12	0 48	8 1	1 54	30 41	13 57	14 8	14 32	11 18			n.a.
F 9	4 52	18 5	0n55	3 34	0 37	23 30	3 22	3 39	0 56	24 17	0 39	22 23	0 30	12 13	0 48	8 2	1 54	30 41	13 56	14 8	14 31	11 21			n.a.
S 10	5 16	22 7	1 57	4 19	0 30	23 46	3 24	3 23	0 56	24 17	0 39	22 23	0 30	12 13	0 48	8 2	1 54	30 40	13 56	14 8	14 30	11 24			n.a.
S 11	5 40	25 15	2 55	5 3	0 24	24 2	3 26	3 7	0 56	24 17	0 39	22 23	0 30	12 14	0 48	8 3	1 53	30 40	13 56	14 9	14 29	11 27			n.a.
M12	6 3	27 18	3 47	5 47	0 17	24 17	3 28	2 50	0 55	24 16	0 39	22 22	0 30	12 14	0 48	8 4	1 53	30 40	13 56	14 9	14 28	11 30			n.a.
T 13	6 27	28 4	4 28	6 30	0 11	24 31	3 30	2 34	0 55	24 16	0 39	22 22	0 30	12 15	0 48	8 5	1 53	30 40	13 55	14 10	14 27	11 34			n.a.
W14	6 50	27 25	4 58	7 13	0 4	24 45	3 32	2 17	0 55	24 16	0 39	22 22	0 30	12 15	0 48	8 6	1 53	30 40	13 55	14 10	14 26	11 37			n.a.
T 15	7 14	25 16	5 14	7 56	0s 3	24 58	3 34	2 1	0 54	24 15	0 39	22 22	0 31	12 16	0 48	8 7	1 53	30 40	13 55	14 10	14 25	11 40			n.a.
F 16	7 37	21 41	5 14	8 38	0 9	25 10	3 35	1 44	0 54	24 15	0 39	22 21	0 31	12 16	0 48	8 7	1 53	30 40	13 55	14 9	14 24	11 43			n.a.
S 17	8 0	16 47	4 56	9 20	0 16	25 22	3 36	1 28	0 54	24 15	0 39	22 21	0 31	12 17	0 48	8 8	1 53	30 40	13 54	14 9	14 23	11 46			n.a.
S 18	8 23	10 50	4 18	10 1	0 22	25 33	3 38	1 11	0 53	24 14	0 39	22 21	0 31	12 17	0 48	8 9	1 53	30 39	13 54	14 8	14 22	11 49			n.a.
M19	8 46	4 7	3 23	10 42	0 29	25 44	3 39	0 55	0 53	24 14	0 39	22 21	0 31	12 18	0 48	8 10	1 53	30 39	13 54	14 7	14 21	11 52			n.a.
T 20	9 9	2s58	2 13	11 23	0 35	25 54	3 40	0 38	0 53	24 14	0 39	22 20	0 31	12 18	0 48	8 11	1 53	30 39	13 53	14 7	14 19	11 56			n.a.
W21	9 31	9 58	0 53	12 2	0 41	26 3	3 40	0 22	0 52	24 13	0 39	22 20	0 32	12 18	0 48	8 12	1 53	30 39	13 53	14 6	14 18	11 59			n.a.
T 22	9 54	16 24	0s31	12 42	0 48	26 12	3 41	0 5	0 52	24 13	0 39	22 20	0 32	12 19	0 48	8 12	1 53	30 39	13 53	14 6	14 17	12 2			n.a.
F 23	10 16	21 45	1 52	13 20	0 54	26 20	3 41	0s12	0 52	24 12	0 39	22 20	0 32	12 19	0 48	8 13	1 53	30 38	13 53	14 7	14 16	12 5			n.a.
S 24	10 39	25 38	3 4	13 58	1 0	26 28	3 42	0 28	0 51	24 12	0 39	22 20	0 32	12 19	0 48	8 14	1 53	30 38	13 52	14 7	14 15	12 8			n.a.
S 25	11 1	27 44	4 3	14 36	1 6	26 35	3 42	0 45	0 51	24 11	0 39	22 20	0 32	12 20	0 48	8 15	1 53	30 38	13 52	14 7	14 14	12 11			n.a.
M26	11 22	27 59	4 45	15 12	1 11	26 41	3 42	1 1	0 50	24 11	0 39	22 20	0 32	12 20	0 48	8 16	1 53	30 38	13 52	14 7	14 13	12 14			n.a.
T 27	11 44	26 33	5 10	15 48	1 17	26 46	3 41	1 18	0 50	24 10	0 39	22 20	0 32	12 20	0 48	8 16	1 53	30 37	13 51	14 7	14 12	12 17			n.a.
W28	12 6	23 42	5 18	16 23	1 23	26 51	3 41	1 35	0 50	24 10	0 39	22 20	0 33	12 21	0 48	8 17	1 53	30 37	13 51	14 7	14 11	12 21			n.a.
T 29	12 27	19 46	5 10	16 58	1 28	26 56	3 40	1 51	0 49	24 9	0 39	22 20	0 33	12 21	0 48	8 18	1 53	30 37	13 51	14 7	14 10	12 24			n.a.
F 30	12 48	15 4	4 47	17 31	1 33	26 59	3 40	2 8	0 49	24 9	0 39	22 20	0 33	12 21	0 47	8 19	1 53	30 37	13 50	14 7	14 9	12 27			n.a.
S 31	13s 9	9s52	4s12	18s 4	1s38	27s 2	3s39	2s25	0n49	24s 8	0s39	22n20	0n33	12s21	0s47	8s20	1n53	30s36	13s50	14n 7	14n 8	12n30			n.a.

Julian Day Number = 1657777.5, Delta T = 03h27m26s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'25, Lahiri = - 6°21'24 Julian Calendar 1 Oct. 175 BCE == Greg. Calendar 28 Sept. 175 BCE

The year -174 astronomical counting style corresponds to year 175 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 175 BCE
geocentric

NOVEMBER 175 BCE (-174) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 25 49	5♏26'56	26♓59	16♏28	21♐48	8♎32	7♑59	22♋43	29°R57	25♎51	12♒ 1	7°R19	7♉19	3♉36	n.a.	S 1
M 2	2 29 46	6°27'54	8♈53	18° 0	22°41	9°13	8° 9	22°43	29♒57	25°53	12° 1	7♉19	7°16	3°43	n.a.	M 2
T 3	2 33 42	7°28'53	20°43	19°32	23°33	9°54	8°19	22°44	29°56	25°56	12° 1	7°D19	7°13	3°50	n.a.	T 3
W 4	2 37 39	8°29'53	2♉31	21° 4	24°24	10°34	8°30	22°44	29°56	25°58	12° 1	7°R19	7°10	3°56	n.a.	W 4
T 5	2 41 36	9°30'53	14°19	22°36	25°15	11°15	8°40	22°45	29°55	26° 0	12° 2	7°19	7° 7	4° 3	n.a.	T 5
F 6	2 45 32	10°31'55	26° 9	24° 7	26° 5	11°56	8°51	22°45	29°55	26° 2	12° 2	7°19	7° 4	4°10	n.a.	F 6
S 7	2 49 29	11°32'58	8♊ 4	25°38	26°53	12°37	9° 1	22°R45	29°55	26° 4	12° 2	7°19	7° 0	4°16	n.a.	S 7
S 8	2 53 25	12°34'02	20° 5	27° 9	27°42	13°18	9°12	22°45	29°54	26° 7	12° 2	7°18	6°57	4°23	n.a.	S 8
M 9	2 57 22	13°35'07	2♋15	28°39	28°29	13°59	9°23	22°45	29°54	26° 9	12° 2	7°17	6°54	4°30	n.a.	M 9
T 10	3 1 18	14°36'13	14°38	0♐ 9	29°15	14°40	9°34	22°44	29°54	26°11	12° 3	7°16	6°51	4°36	n.a.	T 10
W11	3 5 15	15°37'21	27°16	1°39	0♑ 0	15°21	9°45	22°44	29°54	26°13	12° 3	7°16	6°48	4°43	n.a.	W11
T 12	3 9 12	16°38'29	10♌11	3° 8	0°45	16° 2	9°56	22°43	29°54	26°15	12° 3	7°15	6°44	4°49	n.a.	T 12
F 13	3 13 8	17°39'38	23°29	4°36	1°28	16°44	10° 7	22°43	29°D54	26°17	12° 4	7°D15	6°41	4°56	n.a.	F 13
S 14	3 17 5	18°40'48	7♍ 9	6° 3	2°10	17°25	10°19	22°42	29°54	26°20	12° 4	7°16	6°38	5° 3	n.a.	S 14
S 15	3 21 1	19°41'59	21°15	7°29	2°51	18° 6	10°30	22°41	29°54	26°22	12° 4	7°16	6°35	5° 9	n.a.	S 15
M16	3 24 58	20°43'11	5♎44	8°54	3°31	18°47	10°42	22°40	29°54	26°24	12° 5	7°18	6°32	5°16	n.a.	M16
T 17	3 28 54	21°44'24	20°33	10°17	4° 9	19°28	10°53	22°39	29°54	26°26	12° 5	7°18	6°29	5°23	n.a.	T 17
W18	3 32 51	22°45'37	5♏37	11°39	4°47	20°10	11° 5	22°38	29°55	26°28	12° 6	7°R19	6°25	5°29	n.a.	W18
T 19	3 36 47	23°46'52	20°48	12°58	5°23	20°51	11°17	22°37	29°55	26°30	12° 6	7°19	6°22	5°36	n.a.	T 19
F 20	3 40 44	24°48'06	5♐55	14°15	5°58	21°32	11°29	22°35	29°55	26°32	12° 7	7°17	6°19	5°43	n.a.	F 20
S 21	3 44 41	25°49'22	20°50	15°29	6°31	22°14	11°41	22°34	29°56	26°34	12° 7	7°15	6°16	5°49	n.a.	S 21
S 22	3 48 37	26°50'37	5♑24	16°40	7° 2	22°55	11°53	22°32	29°56	26°36	12° 8	7°12	6°13	5°56	n.a.	S 22
M23	3 52 34	27°51'53	19°33	17°47	7°33	23°37	12° 5	22°30	29°57	26°38	12° 8	7°10	6°10	6° 3	n.a.	M23
T 24	3 56 30	28°53'09	3♒13	18°49	8° 1	24°18	12°17	22°29	29°57	26°40	12° 9	7° 7	6° 6	6° 9	n.a.	T 24
W25	4 0 27	29°54'24	16°26	19°46	8°28	25° 0	12°30	22°27	29°58	26°42	12°10	7° 5	6° 3	6°16	n.a.	W25
T 26	4 4 23	0♐55'40	29°14	20°37	8°53	25°41	12°42	22°25	29°59	26°44	12°10	7°D 5	6° 0	6°23	n.a.	T 26
F 27	4 8 20	1°56'55	11♓40	21°21	9°16	26°23	12°55	22°23	29°59	26°46	12°11	7° 5	5°57	6°29	n.a.	F 27
S 28	4 12 16	2°58'10	23°49	21°57	9°38	27° 4	13° 7	22°20	0♓ 0	26°48	12°12	7° 6	5°54	6°36	n.a.	S 28
S 29	4 16 13	3°59'25	5♈46	22°25	9°57	27°46	13°20	22°18	0° 1	26°50	12°12	7° 8	5°50	6°42	n.a.	S 29
M30	4 20 10	5♐ 0'40	17♈36	22♐43	10♑14	28♎28	13♑32	22♋15	0♓ 2	26♎52	12♒13	7♉10	5♉47	6♉49	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s29	4s22	3s26	18s36	1s43	27s 5	3s37	2s41	0n48	24s 8	0s39	22n20	0n33	12s21	0s47	8s21	1n53	30s36	13s50	14n 7	14n 7	12n33		n.a.
M 2	13 50	1n15	2 32	19 7	1 48	27 6	3 36	2 58	0 48	24 7	0 39	22 20	0 33	12 22	0 47	8 21	1 53	30 36	13 50	14 7	14 6	12 36		n.a.
T 3	14 10	6 47	1 31	19 37	1 52	27 8	3 34	3 14	0 47	24 6	0 39	22 20	0 34	12 22	0 47	8 22	1 53	30 35	13 49	14 7	14 5	12 39		n.a.
W 4	14 30	12 4	0 27	20 6	1 56	27 8	3 32	3 31	0 47	24 6	0 39	22 20	0 34	12 22	0 47	8 23	1 53	30 35	13 49	14 7	14 4	12 42		n.a.
T 5	14 50	16 56	0n39	20 34	2 0	27 8	3 30	3 47	0 47	24 5	0 39	22 20	0 34	12 22	0 47	8 24	1 54	30 35	13 49	14 7	14 3	12 45		n.a.
F 6	15 9	21 11	1 43	21 0	2 3	27 8	3 28	4 4	0 46	24 4	0 39	22 20	0 34	12 22	0 47	8 25	1 54	30 34	13 48	14 7	14 2	12 48		n.a.
S 7	15 28	24 35	2 43	21 26	2 6	27 6	3 25	4 20	0 46	24 4	0 39	22 20	0 34	12 22	0 47	8 25	1 54	30 34	13 48	14 7	14 1	12 52		n.a.
S 8	15 47	26 56	3 36	21 51	2 9	27 5	3 23	4 37	0 45	24 3	0 39	22 20	0 34	12 22	0 47	8 26	1 54	30 34	13 48	14 6	14 0	12 55		n.a.
M 9	16 6	28 2	4 20	22 14	2 12	27 2	3 20	4 53	0 45	24 2	0 39	22 21	0 35	12 22	0 47	8 27	1 54	30 33	13 47	14 6	13 59	12 58		n.a.
T 10	16 24	27 46	4 53	22 36	2 14	26 59	3 16	5 10	0 44	24 1	0 39	22 21	0 35	12 22	0 47	8 28	1 54	30 33	13 47	14 6	13 58	13 1		n.a.
W11	16 42	26 3	5 13	22 56	2 16	26 56	3 13	5 26	0 44	24 0	0 39	22 21	0 35	12 22	0 47	8 28	1 54	30 33	13 47	14 6	13 56	13 4		n.a.
T 12	17 0	22 58	5 17	23 16	2 17	26 52	3 9	5 43	0 44	24 0	0 39	22 21	0 35	12 22	0 47	8 29	1 54	30 32	13 47	14 6	13 55	13 7		n.a.
F 13	17 18	18 38	5 5	23 33	2 18	26 47	3 5	5 59	0 43	23 59	0 39	22 22	0 35	12 22	0 47	8 30	1 54	30 32	13 46	14 6	13 54	13 10		n.a.
S 14	17 35	13 14	4 35	23 50	2 18	26 42	3 0	6 15	0 43	23 58	0 39	22 22	0 35	12 22	0 47	8 31	1 54	30 31	13 46	14 6	13 53	13 13		n.a.
S 15	17 52	7 0	3 49	24 4	2 17	26 37	2 55	6 32	0 42	23 57	0 39	22 22	0 36	12 22	0 47	8 32	1 54	30 31	13 46	14 6	13 52	13 16		n.a.
M16	18 8	0 14	2 46	24 17	2 17	26 31	2 50	6 48	0 42	23 56	0 39	22 22	0 36	12 22	0 47	8 32	1 54	30 31	13 45	14 6	13 51	13 19		n.a.
T 17	18 25	6s42	1 32	24 29	2 15	26 24	2 45	7 4	0 41	23 55	0 39	22 23	0 36	12 22	0 47	8 33	1 54	30 30	13 45	14 7	13 50	13 22		n.a.
W18	18 41	13 24	0 9	24 38	2 13	26 17	2 39	7 20	0 41	23 54	0 39	22 23	0 36	12 22	0 47	8 34	1 54	30 30	13 45	14 7	13 49	13 26		n.a.
T 19	18 56	19 21	1s14	24 46	2 10	26 10	2 33	7 37	0 40	23 53	0 39	22 23	0 36	12 22	0 47	8 34	1 54	30 29	13 45	14 7	13 48	13 29		n.a.
F 20	19 11	24 2	2 32	24 52	2 6	26 2	2 27	7 53	0 40	23 52	0 39	22 24	0 36	12 21	0 47	8 35	1 54	30 29	13 44	14 6	13 47	13 32		n.a.
S 21	19 26	27 1	3 38	24 56	2 1	25 53	2 20	8 9	0 39	23 51	0 39	22 24	0 36	12 21	0 47	8 36	1 54	30 28	13 44	14 6	13 46	13 35		n.a.
S 22	19 41	28 5	4 29	24 58	1 56	25 45	2 13	8 25	0 39	23 50	0 39	22 25	0 37	12 21	0 47	8 37	1 54	30 28	13 44	14 5	13 45	13 38		n.a.
M23	19 55	27 14	5 1	24 58	1 49	25 36	2 6	8 41	0 38	23 49	0 39	22 25	0 37	12 21	0 47	8 37	1 54	30 28	13 43	14 4	13 44	13 41		n.a.
T 24	20 9	24 46	5 15	24 56	1 41	25 26	1 58	8 57	0 38	23 48	0 39	22 26	0 37	12 21	0 46	8 38	1 54	30 27	13 43	14 3	13 43	13 44		n.a.
W25	20 22	21 2	5 11	24 51	1 33	25 16	1 50	9 12	0 37	23 47	0 40	22 26	0 37	12 20	0 46	8 39	1 54	30 27	13 43	14 2	13 42	13 47		n.a.
T 26	20 35	16 26	4 52	24 45	1 23	25 6	1 41	9 28	0 37	23 46	0 40	22 27	0 37	12 20	0 46	8 39	1 54	30 26	13 43	14 2	13 41	13 50		n.a.
F 27	20 48	11 16	4 20	24 37	1 12	24 56	1 33	9 44	0 36	23 44	0 40	22 27	0 37	12 20	0 46	8 40	1 54	30 26	13 42	14 2	13 39	13 53		n.a.
S 28	21 0	5 47	3 37	24 27	0 59	24 45	1 23	10 0	0 36	23 43	0 40	22 28	0 38	12 19	0 46	8 41	1 54	30 25	13 42	14 3	13 38	13 56		n.a.
S 29	21 12	0 12	2 44	24 15	0 45	24 34	1 14	10 15	0 35	23 42	0 40	22 28	0 38	12 19	0 46	8 41	1 54	30 25	13 42	14 3	13 37	13 59		n.a.
M30	21s23	5n22	1s46	24s 1	0s30	24s22	1s 3	10s31	0n35	23s41	0s40	22n29	0n38	12s19	0s46	8s42	1n54	30s24	13s41	14n 4	13n36	14n 2		n.a.

Julian Day Number = 1657808.5, Delta T = 03h27m25s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'21, Lahiri = - 6°21'20 Julian Calendar 1 Nov. 175 BCE == Greg. Calendar 29 Oct. 175 BCE

The year -174 astronomical counting style corresponds to year 175 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 175 BCE
geocentric

DECEMBER 175 BCE (-174) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 24 6	6♐ 1'55	29♈23	22°R51	10♑30	29♎ 9	13♑45	22°R13	0♓ 3	26♎54	12♒14	7♉11	5♉44	6♉56	n.a.	T 1
W 2	4 28 3	7° 3'10	11♉10	22♐48	10°43	29°51	13°58	22♋10	0° 4	26°55	12°15	7°R11	5°41	7° 2	n.a.	W 2
T 3	4 31 59	8° 4'24	23° 1	22°33	10°53	0♏33	14°11	22° 8	0° 5	26°57	12°16	7°10	5°38	7° 9	n.a.	T 3
F 4	4 35 56	9° 5'39	4♊58	22° 6	11° 2	1°14	14°24	22° 5	0° 6	26°59	12°16	7° 7	5°35	7°16	n.a.	F 4
S 5	4 39 52	10° 6'53	17° 2	21°27	11° 8	1°56	14°37	22° 2	0° 7	27° 1	12°17	7° 3	5°31	7°22	n.a.	S 5
S 6	4 43 49	11° 8'07	29°17	20°38	11°12	2°38	14°50	21°59	0° 8	27° 3	12°18	6°57	5°28	7°29	n.a.	S 6
M 7	4 47 46	12° 9'21	11♋41	19°38	11°R13	3°20	15° 3	21°56	0° 9	27° 4	12°19	6°50	5°25	7°36	n.a.	M 7
T 8	4 51 42	13°10'35	24°18	18°30	11°12	4° 2	15°16	21°53	0°11	27° 6	12°20	6°44	5°22	7°42	n.a.	T 8
W 9	4 55 39	14°11'49	7♌ 6	17°15	11° 9	4°44	15°30	21°49	0°12	27° 8	12°21	6°38	5°19	7°49	n.a.	W 9
T 10	4 59 35	15°13'03	20° 9	15°56	11° 3	5°26	15°43	21°46	0°13	27° 9	12°22	6°33	5°16	7°56	n.a.	T 10
F 11	5 3 32	16°14'16	3♍26	14°36	10°54	6° 8	15°56	21°42	0°15	27°11	12°23	6°31	5°12	8° 2	n.a.	F 11
S 12	5 7 28	17°15'30	17° 0	13°17	10°43	6°50	16°10	21°39	0°16	27°13	12°24	6°D30	5° 9	8° 9	n.a.	S 12
S 13	5 11 25	18°16'43	0♎52	12° 2	10°29	7°32	16°23	21°35	0°18	27°14	12°25	6°31	5° 6	8°15	n.a.	S 13
M14	5 15 21	19°17'56	15° 2	10°52	10°13	8°14	16°37	21°32	0°19	27°16	12°26	6°32	5° 3	8°22	n.a.	M14
T 15	5 19 18	20°19'09	29°29	9°49	9°55	8°56	16°50	21°28	0°21	27°17	12°27	6°R33	5° 0	8°29	n.a.	T 15
W16	5 23 15	21°20'21	14♏10	8°55	9°34	9°38	17° 4	21°24	0°22	27°19	12°28	6°33	4°56	8°35	n.a.	W16
T 17	5 27 11	22°21'33	29° 1	8°10	9°11	10°20	17°18	21°20	0°24	27°20	12°29	6°31	4°53	8°42	n.a.	T 17
F 18	5 31 8	23°22'45	13♐54	7°34	8°46	11° 2	17°32	21°16	0°26	27°22	12°30	6°27	4°50	8°49	n.a.	F 18
S 19	5 35 4	24°23'57	28°41	7° 8	8°18	11°45	17°45	21°12	0°28	27°23	12°31	6°20	4°47	8°55	n.a.	S 19
S 20	5 39 1	25°25'07	13♑14	6°51	7°49	12°27	17°59	21° 8	0°29	27°25	12°33	6°12	4°44	9° 2	n.a.	S 20
M21	5 42 57	26°26'17	27°26	6°D43	7°18	13° 9	18°13	21° 4	0°31	27°26	12°34	6° 3	4°41	9° 9	n.a.	M21
T 22	5 46 54	27°27'25	11♒13	6°44	6°46	13°51	18°27	21° 0	0°33	27°27	12°35	5°55	4°37	9°15	n.a.	T 22
W23	5 50 51	28°28'33	24°32	6°52	6°12	14°34	18°41	20°55	0°35	27°29	12°36	5°48	4°34	9°22	n.a.	W23
T 24	5 54 47	29°29'39	7♓26	7° 8	5°37	15°16	18°55	20°51	0°37	27°30	12°37	5°44	4°31	9°29	n.a.	T 24
F 25	5 58 44	0♑30'44	19°56	7°31	5° 1	15°59	19° 9	20°47	0°39	27°31	12°39	5°41	4°28	9°35	n.a.	F 25
S 26	6 2 40	1°31'48	2♈ 7	7°59	4°24	16°41	19°23	20°42	0°41	27°33	12°40	5°D40	4°25	9°42	n.a.	S 26
S 27	6 6 37	2°32'51	14° 4	8°33	3°47	17°23	19°37	20°38	0°43	27°34	12°41	5°41	4°22	9°49	n.a.	S 27
M28	6 10 33	3°33'52	25°54	9°13	3°10	18° 6	19°51	20°33	0°46	27°35	12°43	5°42	4°18	9°55	n.a.	M28
T 29	6 14 30	4°34'52	7♉40	9°56	2°33	18°48	20° 5	20°29	0°48	27°36	12°44	5°R42	4°15	10° 2	n.a.	T 29
W30	6 18 26	5°35'51	19°29	10°44	1°56	19°31	20°19	20°24	0°50	27°37	12°45	5°41	4°12	10° 8	n.a.	W30
T 31	6 22 23	6♑36'49	1♊23	11♐36	1♑20	20♏13	20♑33	20♋19	0♓52	27♎38	12♒47	5♉38	4♉ 9	10♉15	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	21 s34	10n43	0 s43	23 s45	0 s14	24 s11	0 s53	10 s46	0n34	23 s39	0 s40	22n29	0n38	12 s18	0 s46	8 s43	1n54	30 s24	13 s41	14n 4	13n35	14n 5			n.a.
W 2	21 44	15 42	0n22	23 28	0n 3	23 59	0 42	11 1	0 34	23 38	0 40	22 30	0 38	12 18	0 46	8 43	1 54	30 23	13 41	14 4	13 34	14 8			n.a.
T 3	21 55	20 7	1 26	23 9	0 22	23 47	0 31	11 17	0 33	23 37	0 40	22 31	0 38	12 18	0 46	8 44	1 54	30 23	13 41	14 4	13 33	14 11			n.a.
F 4	22 4	23 46	2 26	22 48	0 41	23 34	0 19	11 32	0 33	23 35	0 40	22 31	0 39	12 17	0 46	8 44	1 54	30 22	13 40	14 3	13 32	14 14			n.a.
S 5	22 14	26 24	3 21	22 26	1 1	23 22	0 7	11 47	0 32	23 34	0 40	22 32	0 39	12 17	0 46	8 45	1 54	30 22	13 40	14 1	13 31	14 17			n.a.
S 6	22 22	27 50	4 7	22 3	1 20	23 9	0n 6	12 2	0 31	23 32	0 40	22 32	0 39	12 16	0 46	8 46	1 54	30 21	13 40	13 59	13 30	14 20			n.a.
M 7	22 31	27 52	4 42	21 39	1 40	22 56	0 19	12 17	0 31	23 31	0 40	22 33	0 39	12 16	0 46	8 46	1 54	30 21	13 40	13 57	13 29	14 23			n.a.
T 8	22 39	26 29	5 4	21 14	1 59	22 43	0 32	12 32	0 30	23 30	0 40	22 34	0 39	12 15	0 46	8 47	1 54	30 20	13 39	13 55	13 28	14 26			n.a.
W 9	22 46	23 43	5 11	20 50	2 17	22 29	0 45	12 47	0 30	23 28	0 40	22 34	0 39	12 15	0 46	8 47	1 55	30 20	13 39	13 53	13 27	14 29			n.a.
T 10	22 53	19 42	5 2	20 26	2 33	22 16	0 59	13 2	0 29	23 27	0 40	22 35	0 39	12 14	0 46	8 48	1 55	30 19	13 39	13 52	13 26	14 32			n.a.
F 11	23 0	14 40	4 37	20 3	2 47	22 2	1 14	13 16	0 28	23 25	0 40	22 36	0 40	12 14	0 46	8 49	1 55	30 19	13 39	13 51	13 25	14 35			n.a.
S 12	23 6	8 49	3 57	19 42	2 59	21 49	1 28	13 31	0 28	23 23	0 40	22 37	0 40	12 13	0 46	8 49	1 55	30 18	13 38	13 51	13 23	14 38			n.a.
S 13	23 12	2 25	3 1	19 23	3 8	21 35	1 43	13 45	0 27	23 22	0 40	22 37	0 40	12 13	0 46	8 50	1 55	30 18	13 38	13 51	13 22	14 41			n.a.
M14	23 17	4 s14	1 54	19 7	3 15	21 21	1 58	14 0	0 27	23 20	0 40	22 38	0 40	12 12	0 46	8 50	1 55	30 17	13 38	13 51	13 21	14 44			n.a.
T 15	23 22	10 49	0 38	18 53	3 20	21 8	2 13	14 14	0 26	23 18	0 40	22 39	0 40	12 11	0 46	8 51	1 55	30 17	13 38	13 52	13 20	14 47			n.a.
W16	23 26	16 56	0 s41	18 43	3 22	20 54	2 29	14 28	0 25	23 17	0 40	22 39	0 40	12 11	0 46	8 51	1 55	30 16	13 37	13 52	13 19	14 50			n.a.
T 17	23 30	22 6	1 59	18 35	3 23	20 40	2 44	14 42	0 25	23 15	0 40	22 40	0 41	12 10	0 46	8 52	1 55	30 15	13 37	13 51	13 18	14 53			n.a.
F 18	23 33	25 50	3 8	18 31	3 21	20 26	3 0	14 56	0 24	23 13	0 40	22 41	0 41	12 9	0 46	8 52	1 55	30 15	13 37	13 49	13 17	14 56			n.a.
S 19	23 36	27 47	4 4	18 30	3 18	20 13	3 15	15 10	0 24	23 11	0 40	22 42	0 41	12 9	0 46	8 53	1 55	30 14	13 37	13 47	13 16	14 59			n.a.
S 20	23 38	27 45	4 43	18 32	3 13	19 59	3 30	15 23	0 23	23 10	0 40	22 43	0 41	12 8	0 45	8 53	1 55	30 14	13 37	13 45	13 15	15 2			n.a.
M21	23 40	25 52	5 4	18 36	3 7	19 46	3 45	15 37	0 22	23 8	0 40	22 43	0 41	12 7	0 45	8 54	1 55	30 13	13 36	13 42	13 14	15 5			n.a.
T 22	23 42	22 30	5 6	18 43	3 1	19 32	4 0	15 50	0 22	23 6	0 41	22 44	0 41	12 7	0 45	8 54	1 55	30 13	13 36	13 39	13 13	15 8			n.a.
W23	23 43	18 3	4 51	18 52	2 53	19 19	4 15	16 4	0 21	23 4	0 41	22 45	0 41	12 6	0 45	8 54	1 55	30 12	13 36	13 37	13 12	15 11			n.a.
T 24	23 43	12 55	4 22	19 3	2 45	19 7	4 29	16 17	0 20	23 2	0 41	22 46	0 41	12 5	0 45	8 55	1 55	30 12	13 36	13 35	13 11	15 14			n.a.
F 25	23 43	7 24	3 41	19 15	2 36	18 54	4 43	16 30	0 20	23 0	0 41	22 47	0 42	12 4	0 45	8 55	1 55	30 11	13 36	13 34	13 9	15 17			n.a.
S 26	23 43	1 45	2 50	19 29	2 27	18 42	4 57	16 43	0 19	22 58	0 41	22 47	0 42	12 4	0 45	8 56	1 55	30 10	13 35	13 34	13 8	15 20			n.a.
S 27	23 42	3n52	1 54	19 43	2 18	18 30	5 10	16 56	0 18	22 56	0 41	22 48	0 42	12 3	0 45	8 56	1 55	30 10	13 35	13 34	13 7	15 23			n.a.
M28	23 40	9 18	0 52	19 59	2 8	18 19	5 22	17 8	0 17	22 54	0 41	22 49	0 42	12 2	0 45	8 56	1 56	30 9	13 35	13 34	13 6	15 26			n.a.
T 29	23 38	14 24	0n11	20 15	1 58	18 8	5 34	17 21	0 17	22 52	0 41	22 50	0 42	12 1	0 45	8 57	1 56	30 9	13 35	13 35	13 5	15 29			n.a.
W30	23 36	18 59	1 13	20 32	1 48	17 58	5 45	17 33	0 16	22 50	0 41	22 51	0 42	12 0	0 45	8 57	1 56	30 8	13 35	13 34	13 4	15 32			n.a.
T 31	23 s33	22n51	2n13	20 s49	1n39	17 s48	5n55	17 s46	0n15	22 s48	0 s41	22n52	0n42	12 s 0	0 s45	8 s57	1n56	30 s 8	13 s35	13n33	13n 3	15n35			n.a.

Julian Day Number = 1657838.5, Delta T = 03h27m24s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'16, Lahiri = - 6°21'16 Julian Calendar 1 Dec. 175 BCE == Greg. Calendar 28 Nov. 175 BCE

The year -174 astronomical counting style corresponds to year 175 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 174 BCE
geocentric

JANUARY 174 BCE (-173) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 26 20	7♑37'45	13♊28	12♐31	0°R45	20♏56	20♑48	20°R15	0♓55	27♎39	12♒48	5°R32	4♉ 6	10♉22	n.a.	F 1
S 2	6 30 16	8°38'40	25°44	13°29	0♑11	21°38	21° 2	20♋10	0°57	27°40	12°49	5♉23	4° 2	10°28	n.a.	S 2
S 3	6 34 13	9°39'34	8♋14	14°30	29♐38	22°21	21°16	20° 5	0°59	27°41	12°51	5°12	3°59	10°35	n.a.	S 3
M 4	6 38 9	10°40'27	20°58	15°34	29° 7	23° 4	21°30	20° 1	1° 2	27°42	12°52	5° 0	3°56	10°42	n.a.	M 4
T 5	6 42 6	11°41'18	3♌55	16°40	28°37	23°46	21°45	19°56	1° 4	27°43	12°53	4°48	3°53	10°48	n.a.	T 5
W 6	6 46 2	12°42'08	17° 4	17°48	28° 9	24°29	21°59	19°51	1° 7	27°44	12°55	4°37	3°50	10°55	n.a.	W 6
T 7	6 49 59	13°42'57	0♍24	18°59	27°44	25°12	22°13	19°46	1° 9	27°45	12°56	4°28	3°47	11° 2	n.a.	T 7
F 8	6 53 55	14°43'44	13°55	20°11	27°20	25°55	22°27	19°41	1°12	27°46	12°58	4°21	3°43	11° 8	n.a.	F 8
S 9	6 57 52	15°44'31	27°36	21°25	26°59	26°37	22°42	19°36	1°15	27°47	12°59	4°18	3°40	11°15	n.a.	S 9
S 10	7 1 49	16°45'16	11♎27	22°40	26°40	27°20	22°56	19°31	1°17	27°48	13° 1	4°D16	3°37	11°22	n.a.	S 10
M11	7 5 45	17°46'00	25°27	23°57	26°24	28° 3	23°11	19°27	1°20	27°48	13° 2	4°16	3°34	11°28	n.a.	M11
T 12	7 9 42	18°46'43	9♏36	25°16	26°10	28°46	23°25	19°22	1°23	27°49	13° 4	4°R16	3°31	11°35	n.a.	T 12
W13	7 13 38	19°47'25	23°55	26°35	25°58	29°29	23°39	19°17	1°25	27°50	13° 5	4°15	3°28	11°42	n.a.	W13
T 14	7 17 35	20°48'06	8♐19	27°57	25°49	0♐12	23°54	19°12	1°28	27°50	13° 7	4°11	3°24	11°48	n.a.	T 14
F 15	7 21 31	21°48'45	22°46	29°19	25°43	0°55	24° 8	19° 7	1°31	27°51	13° 8	4° 5	3°21	11°55	n.a.	F 15
S 16	7 25 28	22°49'23	7♑ 9	0♑42	25°39	1°38	24°22	19° 2	1°34	27°52	13°10	3°55	3°18	12° 1	n.a.	S 16
S 17	7 29 25	23°50'00	21°24	2° 7	25°D38	2°21	24°37	18°57	1°37	27°52	13°11	3°44	3°15	12° 8	n.a.	S 17
M18	7 33 21	24°50'35	5♒23	3°33	25°38	3° 4	24°51	18°52	1°40	27°53	13°13	3°31	3°12	12°15	n.a.	M18
T 19	7 37 18	25°51'08	19° 3	5° 0	25°42	3°47	25° 6	18°48	1°42	27°53	13°14	3°19	3° 8	12°21	n.a.	T 19
W20	7 41 14	26°51'39	2♓20	6°28	25°47	4°30	25°20	18°43	1°45	27°53	13°16	3° 8	3° 5	12°28	n.a.	W20
T 21	7 45 11	27°52'08	15°13	7°56	25°55	5°13	25°34	18°38	1°48	27°54	13°17	2°59	3° 2	12°35	n.a.	T 21
F 22	7 49 7	28°52'35	27°45	9°26	26° 5	5°56	25°49	18°33	1°51	27°54	13°19	2°53	2°59	12°41	n.a.	F 22
S 23	7 53 4	29°53'00	9♈58	10°57	26°18	6°39	26° 3	18°28	1°54	27°55	13°21	2°50	2°56	12°48	n.a.	S 23
S 24	7 57 0	0♒53'23	21°58	12°29	26°32	7°22	26°18	18°24	1°57	27°55	13°22	2°49	2°53	12°55	n.a.	S 24
M25	8 0 57	1°53'44	3♉48	14° 2	26°48	8° 5	26°32	18°19	2° 0	27°55	13°24	2°49	2°49	13° 1	n.a.	M25
T 26	8 4 53	2°54'03	15°36	15°36	27° 7	8°49	26°46	18°14	2° 4	27°55	13°25	2°49	2°46	13° 8	n.a.	T 26
W27	8 8 50	3°54'20	27°26	17°11	27°27	9°32	27° 1	18°10	2° 7	27°56	13°27	2°47	2°43	13°15	n.a.	W27
T 28	8 12 47	4°54'35	9♊23	18°47	27°49	10°15	27°15	18° 5	2°10	27°56	13°29	2°44	2°40	13°21	n.a.	T 28
F 29	8 16 43	5°54'48	21°33	20°24	28°13	10°58	27°29	18° 1	2°13	27°56	13°30	2°37	2°37	13°28	n.a.	F 29
S 30	8 20 40	6°54'58	3♋58	22° 2	28°39	11°42	27°44	17°56	2°16	27°56	13°32	2°28	2°34	13°35	n.a.	S 30
S 31	8 24 36	7♒55'07	16♋41	23♑41	29♐ 6	12♐25	27♑58	17♋52	2♓19	27♎56	13♒33	2♉16	2♉30	13♉41	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s30	25n47	3n 7	21s 6	1n29	17s39	6n 4	17s58	0n15	22s46	0s41	22n52	0n43	11s59	0s45	8s58	1n56	30s 7	13s34	13n31	13n 2	15n38		n.a.
S 2	23 26	27 33	3 54	21 23	1 19	17 30	6 13	18 10	0 14	22 44	0 41	22 53	0 43	11 58	0 45	8 58	1 56	30 6	13 34	13 28	13 1	15 41		n.a.
S 3	23 22	27 57	4 30	21 40	1 9	17 22	6 21	18 22	0 13	22 42	0 41	22 54	0 43	11 57	0 45	8 58	1 56	30 6	13 34	13 24	13 0	15 44		n.a.
M 4	23 17	26 54	4 53	21 56	1 0	17 15	6 28	18 33	0 12	22 39	0 41	22 55	0 43	11 56	0 45	8 59	1 56	30 5	13 34	13 20	12 59	15 47		n.a.
T 5	23 12	24 23	5 2	22 13	0 50	17 8	6 34	18 45	0 12	22 37	0 41	22 56	0 43	11 55	0 45	8 59	1 56	30 5	13 34	13 16	12 58	15 50		n.a.
W 6	23 6	20 35	4 55	22 29	0 41	17 3	6 40	18 56	0 11	22 35	0 41	22 57	0 43	11 54	0 45	8 59	1 56	30 4	13 34	13 12	12 56	15 53		n.a.
T 7	23 0	15 41	4 32	22 44	0 32	16 58	6 44	19 7	0 10	22 33	0 42	22 57	0 43	11 53	0 45	8 59	1 56	30 4	13 34	13 9	12 55	15 56		n.a.
F 8	22 54	9 59	3 54	22 59	0 23	16 53	6 48	19 18	0 9	22 30	0 42	22 58	0 43	11 52	0 45	9 0	1 56	30 3	13 33	13 7	12 54	15 59		n.a.
S 9	22 47	3 44	3 2	23 13	0 14	16 50	6 52	19 29	0 9	22 28	0 42	22 59	0 43	11 51	0 45	9 0	1 56	30 2	13 33	13 6	12 53	16 2		n.a.
S 10	22 39	2s46	1 58	23 26	0 5	16 47	6 54	19 40	0 8	22 26	0 42	23 0	0 44	11 50	0 45	9 0	1 56	30 2	13 33	13 5	12 52	16 4		n.a.
M11	22 31	9 14	0 47	23 38	0s 3	16 45	6 56	19 50	0 7	22 23	0 42	23 1	0 44	11 49	0 45	9 0	1 56	30 1	13 33	13 5	12 51	16 7		n.a.
T 12	22 23	15 18	0s28	23 50	0 12	16 43	6 57	20 1	0 6	22 21	0 42	23 1	0 44	11 48	0 45	9 1	1 56	30 1	13 33	13 5	12 50	16 10		n.a.
W13	22 14	20 37	1 42	24 0	0 20	16 42	6 57	20 11	0 6	22 19	0 42	23 2	0 44	11 47	0 45	9 1	1 56	30 0	13 33	13 5	12 49	16 13		n.a.
T 14	22 5	24 45	2 50	24 10	0 28	16 42	6 57	20 21	0 5	22 16	0 42	23 3	0 44	11 46	0 45	9 1	1 57	30 0	13 33	13 4	12 48	16 16		n.a.
F 15	21 56	27 17	3 47	24 18	0 35	16 43	6 56	20 31	0 4	22 14	0 42	23 4	0 44	11 45	0 45	9 1	1 57	29 59	13 33	13 2	12 47	16 19		n.a.
S 16	21 46	28 0	4 29	24 25	0 42	16 44	6 55	20 41	0 3	22 11	0 42	23 5	0 44	11 44	0 45	9 1	1 57	29 59	13 33	12 58	12 46	16 22		n.a.
S 17	21 35	26 50	4 54	24 32	0 50	16 46	6 53	20 50	0 2	22 9	0 42	23 5	0 44	11 43	0 45	9 1	1 57	29 58	13 33	12 54	12 44	16 25		n.a.
M18	21 25	23 59	5 0	24 37	0 56	16 48	6 51	20 59	0 1	22 6	0 42	23 6	0 44	11 42	0 45	9 1	1 57	29 58	13 32	12 50	12 43	16 28		n.a.
T 19	21 13	19 52	4 49	24 40	1 3	16 51	6 48	21 9	0 1	22 4	0 42	23 7	0 45	11 41	0 45	9 2	1 57	29 57	13 32	12 46	12 42	16 31		n.a.
W20	21 2	14 51	4 23	24 43	1 9	16 54	6 45	21 17	0s 0	22 1	0 43	23 8	0 45	11 40	0 45	9 2	1 57	29 56	13 32	12 42	12 41	16 33		n.a.
T 21	20 50	9 19	3 44	24 44	1 15	16 58	6 42	21 26	0 1	21 58	0 43	23 9	0 45	11 39	0 45	9 2	1 57	29 56	13 32	12 39	12 40	16 36		n.a.
F 22	20 37	3 34	2 54	24 43	1 21	17 2	6 38	21 35	0 2	21 56	0 43	23 9	0 45	11 38	0 45	9 2	1 57	29 55	13 32	12 37	12 39	16 39		n.a.
S 23	20 25	2n11	1 58	24 42	1 26	17 6	6 34	21 43	0 3	21 53	0 43	23 10	0 45	11 37	0 45	9 2	1 57	29 55	13 32	12 36	12 38	16 42		n.a.
S 24	20 12	7 46	0 57	24 38	1 31	17 11	6 29	21 51	0 4	21 50	0 43	23 11	0 45	11 36	0 45	9 2	1 57	29 54	13 32	12 36	12 37	16 45		n.a.
M25	19 58	13 1	0n 5	24 34	1 36	17 16	6 25	21 59	0 5	21 48	0 43	23 12	0 45	11 34	0 45	9 2	1 57	29 54	13 32	12 36	12 36	16 48		n.a.
T 26	19 44	17 46	1 7	24 27	1 40	17 22	6 20	22 7	0 5	21 45	0 43	23 12	0 45	11 33	0 44	9 2	1 57	29 53	13 32	12 35	12 35	16 51		n.a.
W27	19 30	21 52	2 6	24 20	1 45	17 27	6 14	22 15	0 6	21 42	0 43	23 13	0 45	11 32	0 44	9 2	1 57	29 53	13 32	12 35	12 33	16 54		n.a.
T 28	19 16	25 5	3 1	24 10	1 48	17 33	6 9	22 22	0 7	21 40	0 43	23 14	0 45	11 31	0 44	9 2	1 57	29 52	13 32	12 34	12 32	16 56		n.a.
F 29	19 1	27 14	3 47	23 59	1 52	17 39	6 3	22 29	0 8	21 37	0 43	23 14	0 45	11 30	0 44	9 2	1 58	29 52	13 32	12 31	12 31	16 59		n.a.
S 30	18 46	28 4	4 24	23 47	1 55	17 45	5 57	22 36	0 9	21 34	0 44	23 15	0 45	11 29	0 44	9 2	1 58	29 51	13 32	12 28	12 30	17 2		n.a.
S 31	18s30	27n27	4n49	23s33	1s58	17s51	5n51	22s43	0s10	21s31	0s44	23n16	0n46	11s28	0s44	9s 2	1n58	29s51	13s32	12n24	12n29	17n 5		n.a.

Julian Day Number = 1657869.5, Delta T = 03h27m23s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'12, Lahiri = - 6°21'12 Julian Calendar 1 Jan. 174 BCE == Greg. Calendar 29 Dec. 175 BCE

The year -173 astronomical counting style corresponds to year 174 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 174 BCE
geocentric

FEBRUARY 174 BCE (-173) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 28 33	8♒55'13	29♋42	25♑21	29♐35	13♐ 8	28♑12	17°R47	2♓22	27♎56	13♒35	2°R 3	2♉27	13♉48	n.a.	M 1
T 2	8 32 29	9°55'18	13♌ 0	27° 2	0♑ 6	13°52	28°27	17♋43	2°26	27°R56	13°37	1♉50	2°24	13°55	n.a.	T 2
W 3	8 36 26	10°55'20	26°34	28°45	0°38	14°35	28°41	17°39	2°29	27°56	13°38	1°38	2°21	14° 1	n.a.	W 3
T 4	8 40 22	11°55'21	10♍20	0♒28	1°11	15°18	28°55	17°35	2°32	27°56	13°40	1°28	2°18	14° 8	n.a.	T 4
F 5	8 44 19	12°55'20	24°15	2°12	1°46	16° 2	29° 9	17°30	2°35	27°56	13°41	1°21	2°14	14°14	n.a.	F 5
S 6	8 48 16	13°55'16	8♎15	3°58	2°22	16°45	29°23	17°26	2°39	27°56	13°43	1°17	2°11	14°21	n.a.	S 6
S 7	8 52 12	14°55'11	22°19	5°44	2°59	17°29	29°38	17°22	2°42	27°56	13°45	1°15	2° 8	14°28	n.a.	S 7
M 8	8 56 9	15°55'05	6♏24	7°32	3°38	18°12	29°52	17°18	2°45	27°55	13°46	1°D15	2° 5	14°34	n.a.	M 8
T 9	9 0 5	16°54'56	20°30	9°21	4°18	18°55	0♒ 6	17°14	2°49	27°55	13°48	1°R15	2° 2	14°41	n.a.	T 9
W10	9 4 2	17°54'46	4♐36	11°11	4°59	19°39	0°20	17°10	2°52	27°55	13°49	1°14	1°59	14°48	n.a.	W10
T 11	9 7 58	18°54'34	18°40	13° 2	5°41	20°23	0°34	17° 7	2°55	27°55	13°51	1°11	1°55	14°54	n.a.	T 11
F 12	9 11 55	19°54'21	2♑42	14°55	6°24	21° 6	0°48	17° 3	2°59	27°54	13°53	1° 5	1°52	15° 1	n.a.	F 12
S 13	9 15 51	20°54'06	16°38	16°48	7° 8	21°50	1° 2	16°59	3° 2	27°54	13°54	0°57	1°49	15° 8	n.a.	S 13
S 14	9 19 48	21°53'48	0♒25	18°43	7°53	22°33	1°16	16°56	3° 5	27°54	13°56	0°46	1°46	15°14	n.a.	S 14
M15	9 23 45	22°53'29	14° 1	20°38	8°39	23°17	1°30	16°52	3° 9	27°53	13°58	0°34	1°43	15°21	n.a.	M15
T 16	9 27 41	23°53'07	27°21	22°35	9°26	24° 0	1°44	16°49	3°12	27°53	13°59	0°23	1°40	15°28	n.a.	T 16
W17	9 31 38	24°52'43	10♓24	24°33	10°13	24°44	1°58	16°45	3°16	27°52	14° 1	0°13	1°36	15°34	n.a.	W17
T 18	9 35 34	25°52'17	23° 8	26°31	11° 2	25°28	2°11	16°42	3°19	27°52	14° 2	0° 5	1°33	15°41	n.a.	T 18
F 19	9 39 31	26°51'49	5♈35	28°31	11°51	26°11	2°25	16°39	3°22	27°51	14° 4	29♈59	1°30	15°48	n.a.	F 19
S 20	9 43 27	27°51'18	17°46	0♓31	12°41	26°55	2°39	16°36	3°26	27°50	14° 5	29°56	1°27	15°54	n.a.	S 20
S 21	9 47 24	28°50'45	29°45	2°32	13°31	27°38	2°53	16°33	3°29	27°50	14° 7	29°D56	1°24	16° 1	n.a.	S 21
M22	9 51 20	29°50'10	11♉36	4°33	14°22	28°22	3° 6	16°30	3°33	27°49	14° 9	29°56	1°20	16° 7	n.a.	M22
T 23	9 55 17	0♓49'33	23°24	6°35	15°14	29° 6	3°20	16°27	3°36	27°49	14°10	29°57	1°17	16°14	n.a.	T 23
W24	9 59 14	1°48'53	5♊14	8°37	16° 7	29°49	3°33	16°25	3°39	27°48	14°12	29°R57	1°14	16°21	n.a.	W24
T 25	10 3 10	2°48'10	17°13	10°38	17° 0	0♑33	3°47	16°22	3°43	27°47	14°13	29°56	1°11	16°27	n.a.	T 25
F 26	10 7 7	3°47'25	29°24	12°39	17°54	1°17	4° 0	16°20	3°46	27°46	14°15	29°52	1° 8	16°34	n.a.	F 26
S 27	10 11 3	4°46'38	11♋52	14°39	18°48	2° 1	4°14	16°17	3°50	27°46	14°16	29°47	1° 5	16°41	n.a.	S 27
S 28	10 15 0	5♓45'49	24♋42	16♓38	19♑43	2♑44	4♒27	16♋15	3♓53	27♎45	14♒18	29♈40	1♉ 1	16♉47	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
M 1	18s14	25n20	5n 0	23s17	2s 0	17s58	5n45	22s49	0s11	21s29	0s44	23n16	0n46	11s26	0s44	9s 2	1n58	29s50	13s32	12n20	12n28	17n 8		n.a.	M 1
T 2	17 58	21 48	4 55	22 59	2 2	18 4	5 39	22 55	0 12	21 26	0 44	23 17	0 46	11 25	0 44	9 2	1 58	29 50	13 32	12 15	12 27	17 11		n.a.	T 2
W 3	17 42	17 4	4 33	22 40	2 3	18 10	5 33	23 2	0 13	21 23	0 44	23 18	0 46	11 24	0 44	9 2	1 58	29 49	13 32	12 11	12 26	17 14		n.a.	W 3
T 4	17 25	11 23	3 55	22 18	2 4	18 17	5 26	23 7	0 14	21 20	0 44	23 18	0 46	11 23	0 44	9 2	1 58	29 49	13 32	12 7	12 25	17 16		n.a.	T 4
F 5	17 8	5 6	3 2	21 56	2 5	18 23	5 20	23 13	0 15	21 17	0 44	23 19	0 46	11 22	0 44	9 2	1 58	29 48	13 32	12 5	12 23	17 19		n.a.	F 5
S 6	16 51	1s30	1 59	21 31	2 5	18 29	5 13	23 18	0 16	21 14	0 44	23 20	0 46	11 20	0 44	9 1	1 58	29 48	13 32	12 3	12 22	17 22		n.a.	S 6
S 7	16 33	8 3	0 47	21 4	2 5	18 35	5 6	23 24	0 17	21 11	0 44	23 20	0 46	11 19	0 44	9 1	1 58	29 47	13 32	12 3	12 21	17 25		n.a.	S 7
M 8	16 15	14 14	0s27	20 36	2 4	18 41	4 59	23 29	0 17	21 8	0 45	23 21	0 46	11 18	0 44	9 1	1 58	29 47	13 32	12 3	12 20	17 28		n.a.	M 8
T 9	15 57	19 41	1 40	20 6	2 3	18 46	4 53	23 33	0 18	21 6	0 45	23 21	0 46	11 17	0 44	9 1	1 58	29 46	13 32	12 3	12 19	17 31		n.a.	T 9
W10	15 38	24 2	2 47	19 34	2 1	18 52	4 46	23 38	0 19	21 3	0 45	23 22	0 46	11 15	0 44	9 1	1 58	29 46	13 32	12 2	12 18	17 33		n.a.	W10
T 11	15 20	26 56	3 43	19 0	1 59	18 57	4 39	23 42	0 20	21 0	0 45	23 22	0 46	11 14	0 44	9 1	1 58	29 45	13 32	12 1	12 17	17 36		n.a.	T 11
F 12	15 1	28 8	4 26	18 24	1 57	19 2	4 32	23 46	0 21	20 57	0 45	23 23	0 46	11 13	0 44	9 1	1 58	29 45	13 32	11 59	12 16	17 39		n.a.	F 12
S 13	14 42	27 31	4 53	17 47	1 53	19 7	4 25	23 50	0 22	20 54	0 45	23 23	0 46	11 12	0 44	9 0	1 58	29 45	13 32	11 56	12 15	17 42		n.a.	S 13
S 14	14 22	25 12	5 2	17 7	1 49	19 11	4 18	23 54	0 23	20 51	0 45	23 24	0 46	11 11	0 44	9 0	1 59	29 44	13 32	11 52	12 14	17 45		n.a.	S 14
M15	14 3	21 30	4 54	16 26	1 45	19 16	4 11	23 57	0 24	20 48	0 45	23 24	0 46	11 9	0 44	9 0	1 59	29 44	13 33	11 48	12 12	17 47		n.a.	M15
T 16	13 43	16 45	4 30	15 43	1 40	19 20	4 4	24 0	0 25	20 45	0 46	23 25	0 46	11 8	0 44	9 0	1 59	29 43	13 33	11 44	12 11	17 50		n.a.	T 16
W17	13 23	11 19	3 52	14 59	1 35	19 23	3 57	24 3	0 26	20 42	0 46	23 25	0 47	11 7	0 44	9 0	1 59	29 43	13 33	11 41	12 10	17 53		n.a.	W17
T 18	13 3	5 33	3 3	14 12	1 29	19 26	3 50	24 6	0 28	20 39	0 46	23 26	0 47	11 6	0 44	8 59	1 59	29 42	13 33	11 38	12 9	17 56		n.a.	T 18
F 19	12 42	0n19	2 6	13 24	1 22	19 29	3 43	24 8	0 29	20 36	0 46	23 26	0 47	11 4	0 44	8 59	1 59	29 42	13 33	11 36	12 8	17 59		n.a.	F 19
S 20	12 21	6 3	1 5	12 35	1 15	19 32	3 36	24 10	0 30	20 33	0 46	23 27	0 47	11 3	0 44	8 59	1 59	29 42	13 33	11 35	12 7	18 1		n.a.	S 20
S 21	12 1	11 30	0 1	11 44	1 7	19 34	3 29	24 12	0 31	20 30	0 46	23 27	0 47	11 2	0 44	8 59	1 59	29 41	13 33	11 35	12 6	18 4		n.a.	S 21
M22	11 40	16 28	1n 2	10 52	0 59	19 35	3 22	24 14	0 32	20 27	0 46	23 28	0 47	11 1	0 44	8 58	1 59	29 41	13 33	11 35	12 5	18 7		n.a.	M22
T 23	11 18	20 49	2 2	9 58	0 50	19 37	3 15	24 16	0 33	20 23	0 46	23 28	0 47	10 59	0 44	8 58	1 59	29 40	13 33	11 35	12 3	18 10		n.a.	T 23
W24	10 57	24 20	2 58	9 3	0 40	19 37	3 8	24 17	0 34	20 20	0 47	23 28	0 47	10 58	0 44	8 58	1 59	29 40	13 33	11 35	12 2	18 12		n.a.	W24
T 25	10 36	26 50	3 46	8 8	0 30	19 38	3 1	24 18	0 35	20 17	0 47	23 29	0 47	10 57	0 44	8 57	1 59	29 40	13 34	11 35	12 1	18 15		n.a.	T 25
F 26	10 14	28 7	4 24	7 12	0 20	19 38	2 54	24 19	0 36	20 14	0 47	23 29	0 47	10 55	0 44	8 57	1 59	29 39	13 34	11 33	12 0	18 18		n.a.	F 26
S 27	9 52	28 1	4 52	6 15	0 9	19 37	2 47	24 19	0 37	20 11	0 47	23 29	0 47	10 54	0 44	8 57	1 59	29 39	13 34	11 32	11 59	18 21		n.a.	S 27
S 28	9s30	26n26	5n 5	5s18	0n 2	19s36	2n41	24s20	0s38	20s 8	0s47	23n30	0n47	10s53	0s44	8s56	1n59	29s39	13s34	11n29	11n58	18n23		n.a.	S 28

Julian Day Number = 1657900.5, Delta T = 03h27m22s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'08, Lahiri = - 6°21'08 Julian Calendar 1 Feb. 174 BCE == Greg. Calendar 29 Jan. 174 BCE

The year -173 astronomical counting style corresponds to year 174 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 174 BCE
geocentric

MARCH 174 BCE (-173) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 18 56	6♓44'57	7♌53	18♓35	20♑38	3♑28	4♒40	16°R13	3♓57	27°R44	14♒19	29°R31	0♉58	16♉54	n.a.	M 1
T 2	10 22 53	7°44'03	21°27	20°30	21°34	4°12	4°54	16♋10	4° 0	27♎43	14°21	29♈22	0°55	17° 1	n.a.	T 2
W 3	10 26 49	8°43'06	5♍21	22°24	22°31	4°55	5° 7	16° 8	4° 3	27°42	14°22	29°14	0°52	17° 7	n.a.	W 3
T 4	10 30 46	9°42'07	19°31	24°14	23°28	5°39	5°20	16° 6	4° 7	27°41	14°24	29° 7	0°49	17°14	n.a.	T 4
F 5	10 34 42	10°41'06	3♎52	26° 2	24°25	6°23	5°33	16° 5	4°10	27°40	14°25	29° 2	0°46	17°21	n.a.	F 5
S 6	10 38 39	11°40'04	18°19	27°46	25°23	7° 7	5°46	16° 3	4°14	27°39	14°27	29° 0	0°42	17°27	n.a.	S 6
S 7	10 42 36	12°38'59	2♏46	29°26	26°21	7°50	5°59	16° 1	4°17	27°38	14°28	28°D59	0°39	17°34	n.a.	S 7
M 8	10 46 32	13°37'52	17° 9	1♈ 2	27°19	8°34	6°12	16° 0	4°20	27°37	14°30	29° 0	0°36	17°41	n.a.	M 8
T 9	10 50 29	14°36'44	1♐25	2°33	28°18	9°18	6°25	15°58	4°24	27°36	14°31	29° 1	0°33	17°47	n.a.	T 9
W10	10 54 25	15°35'34	15°32	4° 0	29°18	10° 2	6°37	15°57	4°27	27°35	14°33	29°R 2	0°30	17°54	n.a.	W10
T 11	10 58 22	16°34'22	29°29	5°22	0♒18	10°46	6°50	15°56	4°31	27°34	14°34	29° 1	0°26	18° 1	n.a.	T 11
F 12	11 2 18	17°33'08	13♑16	6°39	1°18	11°29	7° 3	15°55	4°34	27°33	14°35	28°59	0°23	18° 7	n.a.	F 12
S 13	11 6 15	18°31'53	26°51	7°50	2°18	12°13	7°15	15°54	4°37	27°32	14°37	28°54	0°20	18°14	n.a.	S 13
S 14	11 10 11	19°30'36	10♒13	8°56	3°19	12°57	7°28	15°53	4°41	27°31	14°38	28°49	0°17	18°21	n.a.	S 14
M15	11 14 8	20°29'16	23°23	9°56	4°20	13°41	7°40	15°52	4°44	27°29	14°40	28°42	0°14	18°27	n.a.	M15
T 16	11 18 5	21°27'55	6♓20	10°50	5°21	14°24	7°53	15°51	4°47	27°28	14°41	28°36	0°11	18°34	n.a.	T 16
W17	11 22 1	22°26'32	19° 2	11°38	6°23	15° 8	8° 5	15°51	4°51	27°27	14°42	28°30	0° 7	18°40	n.a.	W17
T 18	11 25 58	23°25'07	1♈31	12°20	7°25	15°52	8°17	15°50	4°54	27°26	14°44	28°25	0° 4	18°47	n.a.	T 18
F 19	11 29 54	24°23'39	13°47	12°57	8°27	16°36	8°29	15°50	4°57	27°24	14°45	28°23	0° 1	18°54	n.a.	F 19
S 20	11 33 51	25°22'10	25°51	13°27	9°30	17°20	8°41	15°50	5° 1	27°23	14°46	28°D22	29♈58	19° 0	n.a.	S 20
S 21	11 37 47	26°20'39	7♉47	13°51	10°32	18° 3	8°53	15°50	5° 4	27°22	14°47	28°22	29°55	19° 7	n.a.	S 21
M22	11 41 44	27°19'05	19°36	14° 9	11°35	18°47	9° 5	15°D49	5° 7	27°20	14°49	28°23	29°51	19°14	n.a.	M22
T 23	11 45 40	28°17'29	1♊24	14°20	12°39	19°31	9°17	15°50	5°10	27°19	14°50	28°25	29°48	19°20	n.a.	T 23
W24	11 49 37	29°15'51	13°15	14°26	13°42	20°14	9°28	15°50	5°13	27°18	14°51	28°27	29°45	19°27	n.a.	W24
T 25	11 53 34	0♈14'11	25°13	14°R26	14°46	20°58	9°40	15°50	5°17	27°16	14°52	28°R28	29°42	19°34	n.a.	T 25
F 26	11 57 30	1°12'29	7♋23	14°21	15°50	21°42	9°52	15°50	5°20	27°15	14°54	28°28	29°39	19°40	n.a.	F 26
S 27	12 1 27	2°10'45	19°51	14°10	16°54	22°25	10° 3	15°51	5°23	27°13	14°55	28°26	29°36	19°47	n.a.	S 27
S 28	12 5 23	3° 8'58	2♌39	13°54	17°58	23° 9	10°14	15°52	5°26	27°12	14°56	28°24	29°32	19°54	n.a.	S 28
M29	12 9 20	4° 7'09	15°52	13°34	19° 2	23°53	10°26	15°52	5°29	27°11	14°57	28°21	29°29	20° 0	n.a.	M29
T 30	12 13 16	5° 5'19	29°30	13° 9	20° 7	24°36	10°37	15°53	5°32	27° 9	14°58	28°18	29°26	20° 7	n.a.	T 30
W31	12 17 13	6♈ 3'26	13♍33	12♈40	21♒12	25♑20	10♒48	15♋54	5♓35	27♎ 8	14♒59	28♈14	29♈23	20♉14	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	9s 8	23n23	5n 3	4s21	0n14	19s35	2n34	24s20	0s39	20s 5	0s47	23n30	0n47	10s52	0s44	8s56	1n59	29s38	13s34	11n26	11n57	18n26			n.a.
T 2	8 46	18 59	4 44	3 24	0 26	19 33	2 27	24 19	0 40	20 2	0 48	23 30	0 47	10 50	0 44	8 56	1 59	29 38	13 34	11 23	11 56	18 29			n.a.
W 3	8 24	13 30	4 8	2 28	0 38	19 30	2 20	24 19	0 41	19 59	0 48	23 30	0 47	10 49	0 44	8 55	1 59	29 38	13 34	11 20	11 55	18 32			n.a.
T 4	8 1	7 12	3 16	1 33	0 50	19 27	2 14	24 18	0 43	19 56	0 48	23 31	0 47	10 48	0 44	8 55	2 0	29 37	13 35	11 17	11 53	18 34			n.a.
F 5	7 39	0 27	2 11	0 39	1 2	19 24	2 7	24 17	0 44	19 53	0 48	23 31	0 47	10 47	0 44	8 54	2 0	29 37	13 35	11 16	11 52	18 37			n.a.
S 6	7 16	6s23	0 57	0n14	1 14	19 20	2 1	24 16	0 45	19 50	0 48	23 31	0 47	10 45	0 44	8 54	2 0	29 37	13 35	11 15	11 51	18 40			n.a.
S 7	6 53	12 54	0s20	1 5	1 26	19 15	1 54	24 15	0 46	19 47	0 48	23 31	0 47	10 44	0 44	8 54	2 0	29 37	13 35	11 15	11 50	18 43			n.a.
M 8	6 31	18 42	1 37	1 54	1 38	19 10	1 48	24 13	0 47	19 43	0 48	23 32	0 47	10 43	0 44	8 53	2 0	29 36	13 35	11 15	11 49	18 45			n.a.
T 9	6 8	23 24	2 46	2 41	1 49	19 5	1 42	24 11	0 48	19 40	0 49	23 32	0 47	10 42	0 44	8 53	2 0	29 36	13 36	11 15	11 48	18 48			n.a.
W10	5 45	26 39	3 45	3 26	2 0	18 59	1 35	24 9	0 49	19 37	0 49	23 32	0 47	10 40	0 44	8 52	2 0	29 36	13 36	11 15	11 47	18 51			n.a.
T 11	5 22	28 13	4 30	4 9	2 10	18 52	1 29	24 7	0 50	19 34	0 49	23 32	0 47	10 39	0 44	8 52	2 0	29 35	13 36	11 15	11 46	18 53			n.a.
F 12	4 58	28 0	4 58	4 49	2 20	18 45	1 23	24 4	0 52	19 31	0 49	23 32	0 47	10 38	0 44	8 51	2 0	29 35	13 36	11 14	11 44	18 56			n.a.
S 13	4 35	26 5	5 10	5 25	2 29	18 38	1 17	24 2	0 53	19 28	0 49	23 32	0 47	10 37	0 44	8 51	2 0	29 35	13 36	11 13	11 43	18 59			n.a.
S 14	4 12	22 45	5 4	5 59	2 38	18 29	1 11	23 58	0 54	19 25	0 50	23 33	0 47	10 35	0 44	8 51	2 0	29 35	13 37	11 11	11 42	19 1			n.a.
M15	3 49	18 18	4 42	6 30	2 45	18 21	1 5	23 55	0 55	19 22	0 50	23 33	0 47	10 34	0 44	8 50	2 0	29 34	13 37	11 8	11 41	19 4			n.a.
T 16	3 25	13 5	4 6	6 58	2 52	18 12	0 59	23 52	0 56	19 19	0 50	23 33	0 47	10 33	0 44	8 50	2 0	29 34	13 37	11 6	11 40	19 7			n.a.
W17	3 2	7 25	3 18	7 23	2 58	18 2	0 54	23 48	0 57	19 16	0 50	23 33	0 47	10 32	0 44	8 49	2 0	29 34	13 37	11 4	11 39	19 9			n.a.
T 18	2 39	1 33	2 21	7 44	3 3	17 52	0 48	23 44	0 59	19 13	0 50	23 33	0 47	10 31	0 44	8 49	2 0	29 34	13 37	11 2	11 38	19 12			n.a.
F 19	2 15	4n17	1 19	8 2	3 7	17 41	0 42	23 40	1 0	19 10	0 50	23 33	0 47	10 29	0 44	8 48	2 0	29 34	13 38	11 1	11 37	19 15			n.a.
S 20	1 52	9 53	0 14	8 16	3 9	17 30	0 37	23 35	1 1	19 7	0 51	23 33	0 47	10 28	0 44	8 48	2 0	29 33	13 38	11 1	11 35	19 17			n.a.
S 21	1 28	15 4	0n51	8 27	3 11	17 18	0 31	23 31	1 2	19 4	0 51	23 33	0 47	10 27	0 44	8 47	2 0	29 33	13 38	11 1	11 34	19 20			n.a.
M22	1 5	19 40	1 54	8 34	3 11	17 5	0 26	23 26	1 3	19 1	0 51	23 33	0 47	10 26	0 44	8 47	2 0	29 33	13 38	11 2	11 33	19 23			n.a.
T 23	0 41	23 29	2 51	8 38	3 10	16 53	0 21	23 21	1 5	18 58	0 51	23 33	0 47	10 25	0 44	8 46	2 0	29 33	13 39	11 2	11 32	19 25			n.a.
W24	0 18	26 19	3 42	8 38	3 7	16 39	0 16	23 15	1 6	18 55	0 51	23 33	0 47	10 23	0 44	8 46	2 0	29 33	13 39	11 3	11 31	19 28			n.a.
T 25	0n 6	28 1	4 23	8 34	3 4	16 26	0 11	23 10	1 7	18 52	0 52	23 33	0 47	10 22	0 44	8 45	2 0	29 33	13 39	11 3	11 30	19 31			n.a.
F 26	0 29	28 24	4 53	8 27	2 59	16 11	0 6	23 4	1 8	18 49	0 52	23 33	0 47	10 21	0 44	8 45	2 0	29 33	13 39	11 3	11 29	19 33			n.a.
S 27	0 53	27 21	5 11	8 17	2 52	15 57	0 1	22 58	1 9	18 46	0 52	23 33	0 47	10 20	0 44	8 44	2 0	29 32	13 40	11 3	11 27	19 36			n.a.
S 28	1 16	24 52	5 13	8 4	2 44	15 41	0s 4	22 52	1 11	18 43	0 52	23 33	0 47	10 19	0 44	8 43	2 1	29 32	13 40	11 2	11 26	19 39			n.a.
M29	1 39	21 2	5 0	7 47	2 35	15 26	0 9	22 46	1 12	18 40	0 52	23 33	0 47	10 18	0 44	8 43	2 1	29 32	13 40	11 1	11 25	19 41			n.a.
T 30	2 3	15 58	4 29	7 28	2 25	15 10	0 14	22 39	1 13	18 37	0 53	23 33	0 47	10 17	0 44	8 42	2 1	29 32	13 40	10 59	11 24	19 44			n.a.
W31	2n26	9n56	3n42	7n 6	2n13	14s53	0s18	22s32	1s14	18s34	0s53	23n33	0n47	10s15	0s44	8s42	2n 1	29s32	13s41	10n58	11n23	19n46			n.a.

Julian Day Number = 1657928.5, Delta T = 03h27m21s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'04, Lahiri = - 6°21'04 Julian Calendar 1 March 174 BCE == Greg. Calendar 26 Feb. 174 BCE

The year -173 astronomical counting style corresponds to year 174 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 174 BCE
geocentric

APRIL 174 BCE (-173) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 21 9	7♈ 1'31	27♍58	12°R 8	22♒17	26♉ 3	10♒59	15♋55	5♓38	27°R 6	15♒ 0	28°R12	29♈20	20♉20	n.a.	T 1
F 2	12 25 6	7°59'34	12♎39	11♈34	23°22	26°47	11°10	15°56	5°41	27♎ 5	15° 1	28♈10	29°17	20°27	n.a.	F 2
S 3	12 29 2	8°57'36	27°29	10°58	24°28	27°31	11°21	15°57	5°44	27° 3	15° 3	28°D10	29°13	20°34	n.a.	S 3
S 4	12 32 59	9°55'36	12♏22	10°20	25°33	28°14	11°31	15°59	5°47	27° 2	15° 4	28°10	29°10	20°40	n.a.	S 4
M 5	12 36 56	10°53'34	27° 8	9°42	26°39	28°58	11°42	16° 0	5°50	27° 0	15° 5	28°11	29° 7	20°47	n.a.	M 5
T 6	12 40 52	11°51'32	11♐44	9° 4	27°45	29°41	11°52	16° 2	5°53	26°59	15° 6	28°12	29° 4	20°54	n.a.	T 6
W 7	12 44 49	12°49'27	26° 4	8°27	28°51	0♒25	12° 3	16° 3	5°56	26°57	15° 7	28°13	29° 1	21° 0	n.a.	W 7
T 8	12 48 45	13°47'22	10♉ 5	7°51	29°57	1° 8	12°13	16° 5	5°59	26°55	15° 8	28°R14	28°57	21° 7	n.a.	T 8
F 9	12 52 42	14°45'15	23°48	7°17	1♓ 4	1°51	12°23	16° 7	6° 2	26°54	15° 8	28°14	28°54	21°14	n.a.	F 9
S 10	12 56 38	15°43'06	7♒12	6°46	2°10	2°35	12°33	16° 9	6° 5	26°52	15° 9	28°13	28°51	21°20	n.a.	S 10
S 11	13 0 35	16°40'57	20°19	6°17	3°17	3°18	12°43	16°11	6° 8	26°51	15°10	28°12	28°48	21°27	n.a.	S 11
M12	13 4 31	17°38'46	3♓10	5°52	4°24	4° 2	12°53	16°13	6°10	26°49	15°11	28°10	28°45	21°34	n.a.	M12
T 13	13 8 28	18°36'33	15°46	5°31	5°31	4°45	13° 2	16°16	6°13	26°47	15°12	28° 9	28°42	21°40	n.a.	T 13
W14	13 12 25	19°34'19	28°10	5°14	6°38	5°28	13°12	16°18	6°16	26°46	15°13	28° 8	28°38	21°47	n.a.	W14
T 15	13 16 21	20°32'04	10♈22	5° 1	7°45	6°11	13°22	16°20	6°19	26°44	15°14	28° 7	28°35	21°53	n.a.	T 15
F 16	13 20 18	21°29'47	22°26	4°53	8°52	6°55	13°31	16°23	6°21	26°43	15°15	28°D 7	28°32	22° 0	n.a.	F 16
S 17	13 24 14	22°27'29	4♉22	4°D49	10° 0	7°38	13°40	16°26	6°24	26°41	15°15	28° 7	28°29	22° 7	n.a.	S 17
S 18	13 28 11	23°25'10	16°13	4°50	11° 7	8°21	13°49	16°28	6°26	26°39	15°16	28° 7	28°26	22°13	n.a.	S 18
M19	13 32 7	24°22'49	28° 1	4°55	12°15	9° 4	13°58	16°31	6°29	26°38	15°17	28° 7	28°23	22°20	n.a.	M19
T 20	13 36 4	25°20'26	9♊49	5° 5	13°23	9°47	14° 7	16°34	6°31	26°36	15°17	28° 8	28°19	22°27	n.a.	T 20
W21	13 40 0	26°18'02	21°41	5°19	14°30	10°30	14°16	16°37	6°34	26°35	15°18	28° 8	28°16	22°33	n.a.	W21
T 22	13 43 57	27°15'37	3♋40	5°38	15°38	11°13	14°24	16°40	6°36	26°33	15°19	28° 8	28°13	22°40	n.a.	T 22
F 23	13 47 54	28°13'10	15°50	6° 1	16°46	11°56	14°33	16°44	6°39	26°31	15°20	28°R 8	28°10	22°47	n.a.	F 23
S 24	13 51 50	29°10'41	28°15	6°28	17°55	12°38	14°41	16°47	6°41	26°30	15°20	28°D 8	28° 7	22°53	n.a.	S 24
S 25	13 55 47	0♉ 8'11	11♌ 0	7° 0	19° 3	13°21	14°49	16°50	6°44	26°28	15°21	28° 8	28° 3	23° 0	n.a.	S 25
M26	13 59 43	1° 5'40	24° 8	7°35	20°11	14° 4	14°57	16°54	6°46	26°26	15°21	28° 8	28° 0	23° 7	n.a.	M26
T 27	14 3 40	2° 3'07	7♍42	8°15	21°20	14°47	15° 5	16°57	6°48	26°25	15°22	28° 9	27°57	23°13	n.a.	T 27
W28	14 7 36	3° 0'32	21°42	8°58	22°28	15°29	15°13	17° 1	6°50	26°23	15°22	28° 9	27°54	23°20	n.a.	W28
T 29	14 11 33	3°57'56	6♎ 8	9°45	23°37	16°12	15°21	17° 5	6°53	26°22	15°23	28°10	27°51	23°27	n.a.	T 29
F 30	14 15 29	4♉55'19	20♎56	10♈36	24♓45	16♒54	15♒28	17♋ 9	6♓55	26♎20	15♒23	28°R10	27♈48	23♉33	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	2n49	3n15	2n39	6n41	2n 0	14s36	0s22	22s25	1s16	18s32	0s53	23n33	0n47	10s14	0s44	8s41	2n 1	29s32	13s41	10n57	11n22	19n49		n.a.
F 2	3 12	3s45	1 25	6 15	1 46	14 18	0 27	22 18	1 17	18 29	0 53	23 32	0 48	10 13	0 45	8 41	2 1	29 32	13 41	10 57	11 21	19 52		n.a.
S 3	3 36	10 39	0 4	5 47	1 31	14 1	0 31	22 11	1 18	18 26	0 53	23 32	0 48	10 12	0 45	8 40	2 1	29 32	13 42	10 57	11 20	19 54		n.a.
S 4	3 59	16 57	1s18	5 18	1 16	13 42	0 35	22 3	1 19	18 23	0 54	23 32	0 48	10 11	0 45	8 39	2 1	29 32	13 42	10 57	11 18	19 57		n.a.
M 5	4 22	22 14	2 33	4 48	1 0	13 23	0 39	21 55	1 21	18 20	0 54	23 32	0 48	10 10	0 45	8 39	2 1	29 32	13 42	10 57	11 17	19 59		n.a.
T 6	4 44	26 3	3 38	4 18	0 43	13 4	0 43	21 47	1 22	18 18	0 54	23 32	0 48	10 9	0 45	8 38	2 1	29 32	13 43	10 58	11 16	20 2		n.a.
W 7	5 7	28 8	4 28	3 47	0 26	12 45	0 47	21 39	1 23	18 15	0 54	23 32	0 48	10 8	0 45	8 38	2 1	29 32	13 43	10 58	11 15	20 5		n.a.
T 8	5 30	28 20	5 1	3 17	0 9	12 25	0 51	21 31	1 24	18 12	0 55	23 31	0 48	10 7	0 45	8 37	2 1	29 32	13 43	10 58	11 14	20 7		n.a.
F 9	5 53	26 46	5 16	2 48	0s 8	12 4	0 55	21 22	1 26	18 10	0 55	23 31	0 48	10 6	0 45	8 37	2 1	29 32	13 43	10 58	11 13	20 10		n.a.
S 10	6 15	23 43	5 13	2 21	0 24	11 44	0 58	21 13	1 27	18 7	0 55	23 31	0 48	10 5	0 45	8 36	2 1	29 32	13 44	10 58	11 12	20 12		n.a.
S 11	6 38	19 31	4 53	1 54	0 41	11 22	1 2	21 4	1 28	18 4	0 55	23 31	0 48	10 4	0 45	8 35	2 1	29 32	13 44	10 57	11 10	20 15		n.a.
M12	7 0	14 29	4 20	1 30	0 57	11 1	1 5	20 55	1 29	18 2	0 55	23 30	0 48	10 3	0 45	8 35	2 1	29 32	13 44	10 57	11 9	20 18		n.a.
T 13	7 22	8 57	3 34	1 7	1 12	10 39	1 8	20 46	1 31	17 59	0 56	23 30	0 48	10 2	0 45	8 34	2 1	29 32	13 45	10 56	11 8	20 20		n.a.
W14	7 45	3 10	2 39	0 47	1 27	10 17	1 11	20 36	1 32	17 57	0 56	23 30	0 48	10 1	0 45	8 34	2 1	29 32	13 45	10 56	11 7	20 23		n.a.
T 15	8 7	2n40	1 37	0 29	1 41	9 55	1 14	20 27	1 33	17 54	0 56	23 30	0 48	10 0	0 45	8 33	2 1	29 32	13 45	10 56	11 6	20 25		n.a.
F 16	8 29	8 21	0 31	0 13	1 54	9 32	1 17	20 17	1 34	17 52	0 56	23 29	0 48	9 59	0 45	8 32	2 1	29 32	13 46	10 56	11 5	20 28		n.a.
S 17	8 50	13 40	0n35	0 1	2 6	9 9	1 20	20 7	1 36	17 49	0 57	23 29	0 48	9 58	0 45	8 32	2 1	29 32	13 46	10 56	11 4	20 30		n.a.
S 18	9 12	18 27	1 39	0s10	2 18	8 45	1 23	19 57	1 37	17 47	0 57	23 29	0 48	9 57	0 45	8 31	2 1	29 32	13 46	10 56	11 2	20 33		n.a.
M19	9 33	22 31	2 39	0 17	2 28	8 22	1 26	19 47	1 38	17 44	0 57	23 28	0 48	9 56	0 45	8 31	2 1	29 32	13 47	10 56	11 1	20 35		n.a.
T 20	9 55	25 40	3 32	0 22	2 37	7 58	1 28	19 36	1 40	17 42	0 57	23 28	0 48	9 55	0 45	8 30	2 1	29 32	13 47	10 56	11 0	20 38		n.a.
W21	10 16	27 42	4 16	0 24	2 46	7 34	1 31	19 26	1 41	17 40	0 58	23 28	0 48	9 54	0 45	8 30	2 1	29 32	13 47	10 56	10 59	20 40		n.a.
T 22	10 37	28 29	4 49	0 23	2 53	7 9	1 33	19 15	1 42	17 37	0 58	23 27	0 48	9 53	0 45	8 29	2 1	29 32	13 48	10 56	10 58	20 43		n.a.
F 23	10 58	27 54	5 10	0 20	3 0	6 44	1 35	19 4	1 43	17 35	0 58	23 27	0 48	9 52	0 45	8 28	2 1	29 32	13 48	10 56	10 57	20 45		n.a.
S 24	11 19	25 56	5 18	0 14	3 6	6 19	1 37	18 53	1 45	17 33	0 58	23 26	0 48	9 51	0 45	8 28	2 1	29 33	13 48	10 56	10 56	20 48		n.a.
S 25	11 39	22 38	5 10	0 6	3 11	5 54	1 39	18 42	1 46	17 31	0 59	23 26	0 48	9 50	0 45	8 27	2 1	29 33	13 49	10 56	10 54	20 50		n.a.
M26	11 59	18 7	4 46	0n 4	3 14	5 29	1 41	18 30	1 47	17 29	0 59	23 25	0 48	9 50	0 45	8 27	2 1	29 33	13 49	10 56	10 53	20 53		n.a.
T 27	12 20	12 34	4 5	0 17	3 17	5 3	1 43	18 19	1 48	17 26	0 59	23 25	0 48	9 49	0 45	8 26	2 1	29 33	13 49	10 56	10 52	20 55		n.a.
W28	12 39	6 13	3 9	0 33	3 19	4 38	1 45	18 8	1 50	17 24	0 59	23 25	0 48	9 48	0 45	8 25	2 1	29 33	13 50	10 56	10 51	20 58		n.a.
T 29	12 59	0s39	1 59	0 50	3 21	4 12	1 47	17 56	1 51	17 22	1 0	23 24	0 48	9 47	0 45	8 25	2 1	29 33	13 50	10 57	10 50	21 0		n.a.
F 30	13n19	7s39	0n40	1n10	3s21	3s46	1s48	17s44	1s52	17s20	1s 0	23n24	0n48	9s46	0s45	8s24	2n 1	29s34	13s50	10n57	10n49	21n 3		n.a.

Julian Day Number = 1657959.5, Delta T = 03h27m20s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°28'00, Lahiri = - 6°21'00 Julian Calendar 1 Apr. 174 BCE == Greg. Calendar 29 March 174 BCE

The year -173 astronomical counting style corresponds to year 174 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 174 BCE
geocentric

MAY 174 BCE (-173) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 19 26	5♉52'41	5♏58	11♈30	25♓54	17♒37	15♒35	17♋13	6♓57	26°R18	15♒24	28°R10	27♈44	23♉40	n.a.	S 1
S 2	14 23 23	6°50'02	21° 8	12°27	27° 3	18°19	15°43	17°17	6°59	26♎17	15°24	28♈ 9	27°41	23°47	n.a.	S 2
M 3	14 27 19	7°47'22	6♐14	13°28	28°12	19° 1	15°50	17°21	7° 1	26°15	15°25	28° 9	27°38	23°53	n.a.	M 3
T 4	14 31 16	8°44'41	21°10	14°33	29°21	19°44	15°56	17°25	7° 3	26°14	15°25	28° 7	27°35	24° 0	n.a.	T 4
W 5	14 35 12	9°42'00	5♑46	15°40	0♈30	20°26	16° 3	17°29	7° 5	26°12	15°26	28° 6	27°32	24° 7	n.a.	W 5
T 6	14 39 9	10°39'18	20° 0	16°51	1°39	21° 8	16°10	17°34	7° 7	26°10	15°26	28° 5	27°28	24°13	n.a.	T 6
F 7	14 43 5	11°36'35	3♒48	18° 4	2°49	21°50	16°16	17°38	7° 9	26° 9	15°26	28° 4	27°25	24°20	n.a.	F 7
S 8	14 47 2	12°33'52	17°11	19°21	3°58	22°32	16°23	17°43	7°11	26° 7	15°26	28°D 4	27°22	24°27	n.a.	S 8
S 9	14 50 59	13°31'08	0♓12	20°40	5° 7	23°14	16°29	17°47	7°13	26° 6	15°27	28° 5	27°19	24°33	n.a.	S 9
M10	14 54 55	14°28'23	12°52	22° 3	6°17	23°56	16°35	17°52	7°15	26° 4	15°27	28° 6	27°16	24°40	n.a.	M10
T 11	14 58 52	15°25'38	25°16	23°28	7°26	24°37	16°40	17°57	7°16	26° 3	15°27	28° 7	27°13	24°47	n.a.	T 11
W12	15 2 48	16°22'53	7♈26	24°57	8°36	25°19	16°46	18° 2	7°18	26° 1	15°27	28° 9	27° 9	24°53	n.a.	W12
T 13	15 6 45	17°20'07	19°27	26°28	9°46	26° 0	16°52	18° 6	7°20	26° 0	15°28	28°10	27° 6	25° 0	n.a.	T 13
F 14	15 10 41	18°17'20	1♉21	28° 2	10°56	26°42	16°57	18°11	7°21	25°58	15°28	28°R10	27° 3	25° 7	n.a.	F 14
S 15	15 14 38	19°14'33	13°11	29°39	12° 5	27°23	17° 2	18°16	7°23	25°57	15°28	28° 9	27° 0	25°13	n.a.	S 15
S 16	15 18 34	20°11'46	24°59	1♉18	13°15	28° 5	17° 7	18°22	7°24	25°55	15°28	28° 7	26°57	25°20	n.a.	S 16
M17	15 22 31	21° 8'58	6♊47	3° 1	14°25	28°46	17°12	18°27	7°26	25°54	15°28	28° 4	26°54	25°27	n.a.	M17
T 18	15 26 28	22° 6'09	18°38	4°46	15°35	29°27	17°16	18°32	7°27	25°53	15°28	28° 1	26°50	25°33	n.a.	T 18
W19	15 30 24	23° 3'20	0♋34	6°33	16°45	0♓ 8	17°21	18°37	7°29	25°51	15°28	27°57	26°47	25°40	n.a.	W19
T 20	15 34 21	24° 0'30	12°37	8°24	17°56	0°49	17°25	18°43	7°30	25°50	15°R28	27°52	26°44	25°47	n.a.	T 20
F 21	15 38 17	24°57'40	24°50	10°17	19° 6	1°29	17°29	18°48	7°31	25°48	15°28	27°49	26°41	25°53	n.a.	F 21
S 22	15 42 14	25°54'49	7♌17	12°12	20°16	2°10	17°33	18°54	7°33	25°47	15°28	27°46	26°38	26° 0	n.a.	S 22
S 23	15 46 10	26°51'57	20° 0	14°10	21°26	2°51	17°37	18°59	7°34	25°46	15°28	27°45	26°34	26° 7	n.a.	S 23
M24	15 50 7	27°49'05	3♍ 3	16°10	22°37	3°31	17°41	19° 5	7°35	25°44	15°28	27°D45	26°31	26°13	n.a.	M24
T 25	15 54 3	28°46'12	16°29	18°12	23°47	4°11	17°44	19°11	7°36	25°43	15°28	27°46	26°28	26°20	n.a.	T 25
W26	15 58 0	29°43'19	0♎20	20°16	24°58	4°52	17°47	19°17	7°37	25°42	15°28	27°47	26°25	26°27	n.a.	W26
T 27	16 1 57	0♊40'25	14°37	22°22	26° 8	5°32	17°50	19°22	7°38	25°41	15°28	27°49	26°22	26°33	n.a.	T 27
F 28	16 5 53	1°37'30	29°18	24°29	27°19	6°12	17°53	19°28	7°39	25°39	15°28	27°R49	26°19	26°40	n.a.	F 28
S 29	16 9 50	2°34'35	14♏18	26°38	28°29	6°51	17°56	19°34	7°40	25°38	15°27	27°48	26°15	26°47	n.a.	S 29
S 30	16 13 46	3°31'41	29°29	28°47	29°40	7°31	17°58	19°40	7°41	25°37	15°27	27°46	26°12	26°53	n.a.	S 30
M31	16 17 43	4♊28'46	14♐44	0♊57	0♉51	8♓11	18♒ 1	19♋46	7♓42	25♎36	15♒27	27♈42	26♈ 9	27♉ 0	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13n38	14s21	0s43	1n31	3s21	3s19	1s50	17s32	1s54	17s18	1s 0	23n23	0n48	9s46	0s45	8s24	2n 1	29s34	13s51	10n57	10n47	21n 5		n.a.
S 2	13 57	20 15	2 4	1 55	3 20	2 53	1 51	17 20	1 55	17 16	1 0	23 23	0 48	9 45	0 45	8 23	2 1	29 34	13 51	10 57	10 46	21 8		n.a.
M 3	14 16	24 49	3 16	2 21	3 18	2 26	1 52	17 8	1 56	17 15	1 1	23 22	0 48	9 44	0 45	8 23	2 1	29 34	13 52	10 56	10 45	21 10		n.a.
T 4	14 35	27 38	4 13	2 48	3 15	1 59	1 53	16 56	1 57	17 13	1 1	23 22	0 48	9 43	0 45	8 22	2 1	29 34	13 52	10 56	10 44	21 13		n.a.
W 5	14 53	28 28	4 53	3 17	3 12	1 33	1 54	16 43	1 59	17 11	1 1	23 21	0 48	9 43	0 45	8 21	2 1	29 35	13 52	10 55	10 43	21 15		n.a.
T 6	15 12	27 23	5 14	3 48	3 8	1 6	1 55	16 31	2 0	17 9	1 2	23 20	0 48	9 42	0 45	8 21	2 1	29 35	13 53	10 55	10 42	21 18		n.a.
F 7	15 30	24 37	5 15	4 21	3 3	0 39	1 56	16 18	2 1	17 8	1 2	23 20	0 48	9 41	0 45	8 20	2 1	29 35	13 53	10 55	10 41	21 20		n.a.
S 8	15 47	20 36	4 59	4 55	2 58	0 11	1 57	16 5	2 3	17 6	1 2	23 19	0 48	9 41	0 45	8 20	2 1	29 35	13 53	10 55	10 39	21 22		n.a.
S 9	16 5	15 43	4 28	5 30	2 52	0n16	1 58	15 53	2 4	17 4	1 2	23 19	0 48	9 40	0 45	8 19	2 1	29 35	13 54	10 55	10 38	21 25		n.a.
M10	16 22	10 16	3 45	6 7	2 46	0 43	1 58	15 40	2 5	17 3	1 3	23 18	0 48	9 39	0 46	8 19	2 1	29 36	13 54	10 55	10 37	21 27		n.a.
T 11	16 39	4 32	2 52	6 46	2 39	1 10	1 59	15 27	2 6	17 1	1 3	23 17	0 48	9 39	0 46	8 18	2 1	29 36	13 54	10 56	10 36	21 30		n.a.
W12	16 56	1n16	1 52	7 25	2 31	1 38	1 59	15 14	2 8	17 0	1 3	23 17	0 48	9 38	0 46	8 18	2 1	29 36	13 55	10 56	10 35	21 32		n.a.
T 13	17 12	6 57	0 48	8 6	2 23	2 5	1 59	15 1	2 9	16 58	1 4	23 16	0 48	9 37	0 46	8 17	2 1	29 37	13 55	10 57	10 34	21 35		n.a.
F 14	17 28	12 21	0n18	8 48	2 15	2 33	2 0	14 48	2 10	16 57	1 4	23 15	0 48	9 37	0 46	8 17	2 1	29 37	13 56	10 57	10 32	21 37		n.a.
S 15	17 44	17 17	1 22	9 31	2 6	3 0	2 0	14 34	2 11	16 56	1 4	23 15	0 48	9 36	0 46	8 16	2 0	29 37	13 56	10 56	10 31	21 39		n.a.
S 16	18 0	21 32	2 22	10 15	1 56	3 27	2 0	14 21	2 13	16 55	1 4	23 14	0 48	9 36	0 46	8 16	2 0	29 37	13 56	10 56	10 30	21 42		n.a.
M17	18 15	24 56	3 17	10 59	1 47	3 55	2 0	14 8	2 14	16 53	1 5	23 13	0 48	9 35	0 46	8 15	2 0	29 38	13 57	10 55	10 29	21 44		n.a.
T 18	18 30	27 16	4 3	11 45	1 36	4 22	1 59	13 54	2 15	16 52	1 5	23 13	0 48	9 35	0 46	8 15	2 0	29 38	13 57	10 53	10 28	21 47		n.a.
W19	18 45	28 22	4 39	12 31	1 26	4 50	1 59	13 41	2 16	16 51	1 5	23 12	0 48	9 34	0 46	8 14	2 0	29 38	13 57	10 52	10 27	21 49		n.a.
T 20	19 0	28 8	5 2	13 17	1 15	5 17	1 59	13 27	2 18	16 50	1 6	23 11	0 48	9 34	0 46	8 14	2 0	29 39	13 58	10 50	10 25	21 51		n.a.
F 21	19 14	26 32	5 13	14 3	1 4	5 44	1 58	13 14	2 19	16 49	1 6	23 10	0 48	9 33	0 46	8 13	2 0	29 39	13 58	10 49	10 24	21 54		n.a.
S 22	19 28	23 38	5 9	14 50	0 53	6 12	1 58	13 0	2 20	16 48	1 6	23 10	0 48	9 33	0 46	8 13	2 0	29 39	13 58	10 48	10 23	21 56		n.a.
S 23	19 41	19 34	4 50	15 36	0 42	6 39	1 57	12 46	2 21	16 47	1 7	23 9	0 48	9 32	0 46	8 12	2 0	29 40	13 59	10 48	10 22	21 58		n.a.
M24	19 54	14 28	4 16	16 23	0 31	7 6	1 57	12 32	2 22	16 46	1 7	23 8	0 48	9 32	0 46	8 12	2 0	29 40	13 59	10 48	10 21	22 1		n.a.
T 25	20 7	8 34	3 27	17 8	0 20	7 33	1 56	12 19	2 24	16 46	1 7	23 7	0 48	9 32	0 46	8 11	2 0	29 41	14 0	10 48	10 20	22 3		n.a.
W26	20 20	2 4	2 25	17 53	0 8	7 59	1 55	12 5	2 25	16 45	1 8	23 7	0 48	9 31	0 46	8 11	2 0	29 41	14 0	10 49	10 19	22 5		n.a.
T 27	20 32	4s44	1 12	18 37	0n 3	8 26	1 54	11 51	2 26	16 44	1 8	23 6	0 48	9 31	0 46	8 11	2 0	29 41	14 0	10 49	10 17	22 8		n.a.
F 28	20 44	11 29	0s 8	19 20	0 13	8 53	1 53	11 37	2 27	16 44	1 8	23 5	0 48	9 31	0 46	8 10	2 0	29 42	14 1	10 49	10 16	22 10		n.a.
S 29	20 55	17 43	1 29	20 1	0 24	9 19	1 52	11 23	2 29	16 43	1 8	23 4	0 48	9 30	0 46	8 10	2 0	29 42	14 1	10 49	10 15	22 12		n.a.
S 30	21 6	22 57	2 44	20 40	0 34	9 45	1 51	11 10	2 30	16 43	1 9	23 3	0 48	9 30	0 46	8 9	2 0	29 43	14 1	10 48	10 14	22 15		n.a.
M31	21n17	26s36	3s48	21n18	0n44	10n11	1s50	10s56	2s31	16s42	1s 9	23n 2	0n48	9s30	0s46	8s 9	2n 0	29s43	14s 2	10n46	10n13	22n17		n.a.

Julian Day Number = 1657989.5, Delta T = 03h27m19s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°27'56, Lahiri = - 6°20'55 Julian Calendar 1 May 174 BCE == Greg. Calendar 28 Apr. 174 BCE

The year -173 astronomical counting style corresponds to year 174 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 174 BCE
geocentric

JUNE 174 BCE (-173) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 21 39	5♊25'51	29♐50	3♊ 7	2♉ 2	8♓50	18♒ 3	19♋53	7♓43	25°R35	15°R27	27°R37	26♈ 6	27♉ 7	n.a.	T 1
W 2	16 25 36	6°22'56	14♑39	5°18	3°13	9°29	18° 5	19°59	7°43	25♎33	15♒26	27♈31	26° 3	27°13	n.a.	W 2
T 3	16 29 32	7°20'02	29° 4	7°28	4°24	10° 9	18° 6	20° 5	7°44	25°32	15°26	27°26	26° 0	27°20	n.a.	T 3
F 4	16 33 29	8°17'08	13♒ 1	9°38	5°35	10°48	18° 8	20°11	7°45	25°31	15°26	27°22	25°56	27°27	n.a.	F 4
S 5	16 37 26	9°14'14	26°29	11°48	6°46	11°26	18° 9	20°18	7°45	25°30	15°25	27°19	25°53	27°33	n.a.	S 5
S 6	16 41 22	10°11'20	9♓30	13°56	7°57	12° 5	18°10	20°24	7°46	25°29	15°25	27°D19	25°50	27°40	n.a.	S 6
M 7	16 45 19	11° 8'27	22° 8	16° 3	9° 8	12°44	18°11	20°30	7°46	25°28	15°25	27°19	25°47	27°47	n.a.	M 7
T 8	16 49 15	12° 5'34	4♈27	18° 9	10°19	13°22	18°12	20°37	7°47	25°27	15°24	27°20	25°44	27°53	n.a.	T 8
W 9	16 53 12	13° 2'42	16°31	20°14	11°30	14° 0	18°13	20°43	7°47	25°26	15°24	27°22	25°40	28° 0	n.a.	W 9
T 10	16 57 8	13°59'50	28°26	22°17	12°42	14°38	18°13	20°50	7°48	25°25	15°23	27°R22	25°37	28° 7	n.a.	T 10
F 11	17 1 5	14°56'59	10♉15	24°19	13°53	15°16	18°R13	20°57	7°48	25°24	15°23	27°21	25°34	28°13	n.a.	F 11
S 12	17 5 2	15°54'08	22° 2	26°19	15° 5	15°54	18°13	21° 3	7°48	25°23	15°22	27°18	25°31	28°20	n.a.	S 12
S 13	17 8 58	16°51'18	3♊50	28°17	16°16	16°32	18°13	21°10	7°48	25°22	15°22	27°13	25°28	28°27	n.a.	S 13
M14	17 12 55	17°48'28	15°42	0♋13	17°28	17° 9	18°13	21°17	7°48	25°22	15°21	27° 6	25°25	28°33	n.a.	M14
T 15	17 16 51	18°45'39	27°40	2° 8	18°39	17°46	18°12	21°24	7°49	25°21	15°21	26°57	25°21	28°40	n.a.	T 15
W16	17 20 48	19°42'50	9♋44	4° 1	19°51	18°23	18°11	21°31	7°49	25°20	15°20	26°47	25°18	28°47	n.a.	W16
T 17	17 24 44	20°40'01	21°56	5°52	21° 2	19° 0	18°10	21°37	7°R49	25°19	15°19	26°38	25°15	28°53	n.a.	T 17
F 18	17 28 41	21°37'13	4♌18	7°41	22°14	19°36	18° 9	21°44	7°49	25°18	15°19	26°29	25°12	29° 0	n.a.	F 18
S 19	17 32 37	22°34'25	16°52	9°28	23°26	20°13	18° 8	21°51	7°49	25°18	15°18	26°22	25° 9	29° 7	n.a.	S 19
S 20	17 36 34	23°31'38	29°40	11°14	24°38	20°49	18° 6	21°58	7°48	25°17	15°17	26°17	25° 6	29°13	n.a.	S 20
M21	17 40 31	24°28'51	12♍43	12°58	25°50	21°25	18° 4	22° 5	7°48	25°16	15°17	26°15	25° 2	29°20	n.a.	M21
T 22	17 44 27	25°26'04	26° 4	14°40	27° 2	22° 0	18° 2	22°12	7°48	25°16	15°16	26°D14	24°59	29°27	n.a.	T 22
W23	17 48 24	26°23'17	9♎47	16°20	28°13	22°36	18° 0	22°20	7°48	25°15	15°15	26°14	24°56	29°33	n.a.	W23
T 24	17 52 20	27°20'31	23°51	17°58	29°25	23°11	17°58	22°27	7°47	25°15	15°15	26°R15	24°53	29°40	n.a.	T 24
F 25	17 56 17	28°17'46	8♏17	19°34	0♊38	23°46	17°55	22°34	7°47	25°14	15°14	26°14	24°50	29°47	n.a.	F 25
S 26	18 0 13	29°15'01	23° 3	21° 9	1°50	24°21	17°53	22°41	7°47	25°14	15°13	26°12	24°46	29°53	n.a.	S 26
S 27	18 4 10	0♋12'17	8♐ 3	22°42	3° 2	24°55	17°50	22°48	7°46	25°13	15°12	26° 7	24°43	29°59	n.a.	S 27
M28	18 8 6	1° 9'33	23° 9	24°12	4°14	25°30	17°47	22°56	7°46	25°13	15°11	26° 0	24°40	0♊ 7	n.a.	M28
T 29	18 12 3	2° 6'51	8♑11	25°41	5°26	26° 4	17°43	23° 3	7°45	25°12	15°11	25°51	24°37	0°13	n.a.	T 29
W30	18 16 0	3♋ 4'09	23♑ 1	27♋ 9	6♊38	26♓37	17♒40	23♋10	7♓45	25♎12	15♒10	25♈41	24♈34	0♊20	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n27	28s18	4s35	21n54	0n53	10n37	1s49	10s42	2s32	16s42	1s 9	23n 1	0n48	9s29	0s46	8s 9	2n 0	29s43	14s 2	10n45	10n12	22n19		n.a.
W 2	21 38	27 55	5 3	22 27	1 2	11 3	1 47	10 28	2 33	16 42	1 10	23 1	0 48	9 29	0 46	8 8	2 0	29 44	14 2	10 43	10 10	22 22		n.a.
T 3	21 47	25 38	5 10	22 58	1 10	11 28	1 46	10 14	2 35	16 41	1 10	23 0	0 48	9 29	0 46	8 8	2 0	29 44	14 3	10 41	10 9	22 24		n.a.
F 4	21 57	21 52	4 59	23 26	1 17	11 54	1 45	10 0	2 36	16 41	1 10	22 59	0 48	9 29	0 46	8 7	2 0	29 45	14 3	10 39	10 8	22 26		n.a.
S 5	22 6	17 4	4 31	23 51	1 24	12 19	1 43	9 46	2 37	16 41	1 11	22 58	0 48	9 29	0 46	8 7	2 0	29 45	14 3	10 38	10 7	22 29		n.a.
S 6	22 14	11 39	3 50	24 14	1 30	12 43	1 41	9 32	2 38	16 41	1 11	22 57	0 48	9 28	0 47	8 7	2 0	29 46	14 4	10 38	10 6	22 31		n.a.
M 7	22 22	5 54	2 59	24 34	1 36	13 8	1 40	9 18	2 39	16 41	1 11	22 56	0 48	9 28	0 47	8 6	2 0	29 46	14 4	10 38	10 5	22 33		n.a.
T 8	22 30	0 4	2 1	24 51	1 40	13 32	1 38	9 4	2 40	16 41	1 12	22 55	0 49	9 28	0 47	8 6	2 0	29 46	14 4	10 39	10 3	22 35		n.a.
W 9	22 38	5n40	0 58	25 5	1 44	13 56	1 36	8 50	2 41	16 41	1 12	22 54	0 49	9 28	0 47	8 6	1 59	29 47	14 5	10 39	10 2	22 38		n.a.
T 10	22 45	11 8	0n 6	25 17	1 48	14 20	1 34	8 37	2 43	16 41	1 12	22 53	0 49	9 28	0 47	8 5	1 59	29 47	14 5	10 39	10 1	22 40		n.a.
F 11	22 51	16 9	1 9	25 26	1 50	14 43	1 33	8 23	2 44	16 42	1 13	22 52	0 49	9 28	0 47	8 5	1 59	29 48	14 5	10 39	10 0	22 42		n.a.
S 12	22 58	20 34	2 9	25 32	1 52	15 6	1 31	8 9	2 45	16 42	1 13	22 51	0 49	9 28	0 47	8 5	1 59	29 48	14 6	10 38	9 59	22 44		n.a.
S 13	23 4	24 10	3 4	25 36	1 53	15 29	1 29	7 55	2 46	16 42	1 13	22 50	0 49	9 28	0 47	8 5	1 59	29 49	14 6	10 36	9 58	22 47		n.a.
M14	23 9	26 45	3 50	25 37	1 54	15 51	1 27	7 42	2 47	16 43	1 14	22 49	0 49	9 28	0 47	8 4	1 59	29 49	14 6	10 33	9 56	22 49		n.a.
T 15	23 14	28 9	4 27	25 36	1 54	16 13	1 25	7 28	2 48	16 43	1 14	22 48	0 49	9 28	0 47	8 4	1 59	29 50	14 7	10 30	9 55	22 51		n.a.
W16	23 19	28 13	4 52	25 33	1 53	16 35	1 22	7 14	2 49	16 44	1 14	22 47	0 49	9 28	0 47	8 4	1 59	29 50	14 7	10 27	9 54	22 53		n.a.
T 17	23 23	26 55	5 4	25 27	1 52	16 56	1 20	7 1	2 50	16 44	1 15	22 46	0 49	9 28	0 47	8 4	1 59	29 51	14 7	10 23	9 53	22 56		n.a.
F 18	23 27	24 18	5 3	25 19	1 50	17 17	1 18	6 47	2 52	16 45	1 15	22 45	0 49	9 28	0 47	8 3	1 59	29 51	14 8	10 20	9 52	22 58		n.a.
S 19	23 30	20 30	4 46	25 10	1 47	17 38	1 16	6 34	2 53	16 46	1 15	22 44	0 49	9 28	0 47	8 3	1 59	29 52	14 8	10 17	9 50	23 0		n.a.
S 20	23 33	15 42	4 16	24 58	1 44	17 58	1 14	6 20	2 54	16 47	1 16	22 42	0 49	9 28	0 47	8 3	1 59	29 52	14 8	10 16	9 49	23 2		n.a.
M21	23 36	10 6	3 31	24 45	1 41	18 17	1 11	6 7	2 55	16 48	1 16	22 41	0 49	9 28	0 47	8 3	1 59	29 53	14 9	10 15	9 48	23 4		n.a.
T 22	23 38	3 56	2 34	24 30	1 37	18 36	1 9	5 54	2 56	16 48	1 16	22 40	0 49	9 28	0 47	8 3	1 59	29 53	14 9	10 14	9 47	23 7		n.a.
W23	23 40	2s35	1 27	24 14	1 32	18 55	1 6	5 40	2 57	16 49	1 16	22 39	0 49	9 28	0 47	8 3	1 59	29 54	14 9	10 15	9 46	23 9		n.a.
T 24	23 41	9 10	0 13	23 56	1 27	19 13	1 4	5 27	2 58	16 50	1 17	22 38	0 49	9 28	0 47	8 2	1 59	29 54	14 9	10 15	9 45	23 11		n.a.
F 25	23 42	15 26	1s 4	23 37	1 22	19 31	1 2	5 14	2 59	16 52	1 17	22 37	0 49	9 29	0 47	8 2	1 59	29 55	14 10	10 15	9 43	23 13		n.a.
S 26	23 43	20 58	2 18	23 17	1 16	19 48	0 59	5 1	3 0	16 53	1 17	22 36	0 49	9 29	0 47	8 2	1 58	29 55	14 10	10 14	9 42	23 15		n.a.
S 27	23 43	25 15	3 23	22 55	1 9	20 5	0 57	4 48	3 1	16 54	1 18	22 35	0 49	9 29	0 47	8 2	1 58	29 56	14 10	10 12	9 41	23 18		n.a.
M28	23 43	27 47	4 15	22 33	1 2	20 21	0 54	4 35	3 2	16 55	1 18	22 33	0 49	9 29	0 47	8 2	1 58	29 56	14 11	10 9	9 40	23 20		n.a.
T 29	23 42	28 16	4 49	22 9	0 55	20 37	0 51	4 23	3 3	16 56	1 18	22 32	0 49	9 29	0 47	8 2	1 58	29 57	14 11	10 6	9 39	23 22		n.a.
W30	23n41	26s42	5s 3	21n45	0n48	20n52	0s49	4s10	3s 4	16s58	1s19	22n31	0n49	9s30	0s47	8s 2	1n58	29s57	14s11	10n 2	9n38	23n24		n.a.

Julian Day Number = 1658020.5, Delta T = 03h27m18s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°27'52, Lahiri = - 6°20'51 Julian Calendar 1 June 174 BCE == Greg. Calendar 29 May 174 BCE

The year -173 astronomical counting style corresponds to year 174 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 174 BCE
geocentric

JULY 174 BCE (-173) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 19 56	4♋ 1'28	7♒29	28♋34	7♊51	27♓11	17°R36	23♋17	7°R44	25°R12	15°R 9	25°R31	24♈31	0♊27	n.a.	T 1
F 2	18 23 53	4°58'49	21°31	29°57	9° 3	27°44	17♒32	23°25	7♓43	25♎11	15♒ 8	25♈23	24°27	0°33	n.a.	F 2
S 3	18 27 49	5°56'10	5♓ 4	1♌19	10°16	28°17	17°28	23°32	7°42	25°11	15° 7	25°18	24°24	0°40	n.a.	S 3
S 4	18 31 46	6°53'33	18° 9	2°38	11°28	28°50	17°24	23°40	7°42	25°11	15° 6	25°14	24°21	0°47	n.a.	S 4
M 5	18 35 42	7°50'57	0♈48	3°56	12°41	29°22	17°20	23°47	7°41	25°11	15° 5	25°13	24°18	0°53	n.a.	M 5
T 6	18 39 39	8°48'22	13° 7	5°11	13°53	29°54	17°15	23°54	7°40	25°10	15° 4	25°D12	24°15	1° 0	n.a.	T 6
W 7	18 43 36	9°45'49	25°10	6°24	15° 6	0♈26	17°11	24° 2	7°39	25°10	15° 3	25°R13	24°12	1° 7	n.a.	W 7
T 8	18 47 32	10°43'18	7♉ 4	7°35	16°19	0°57	17° 6	24° 9	7°38	25°10	15° 2	25°12	24° 8	1°13	n.a.	T 8
F 9	18 51 29	11°40'47	18°52	8°44	17°31	1°29	17° 1	24°17	7°37	25°10	15° 1	25°10	24° 5	1°20	n.a.	F 9
S 10	18 55 25	12°38'18	0♊40	9°50	18°44	1°59	16°56	24°24	7°36	25°10	15° 0	25° 5	24° 2	1°27	n.a.	S 10
S 11	18 59 22	13°35'51	12°31	10°54	19°57	2°30	16°50	24°32	7°35	25°D10	14°59	24°58	23°59	1°33	n.a.	S 11
M12	19 3 18	14°33'25	24°29	11°55	21°10	3° 0	16°45	24°39	7°34	25°10	14°58	24°48	23°56	1°40	n.a.	M12
T 13	19 7 15	15°31'01	6♋35	12°54	22°23	3°30	16°39	24°47	7°33	25°10	14°57	24°36	23°52	1°47	n.a.	T 13
W14	19 11 11	16°28'37	18°51	13°50	23°36	3°59	16°33	24°55	7°31	25°10	14°56	24°22	23°49	1°53	n.a.	W14
T 15	19 15 8	17°26'15	1♌18	14°42	24°49	4°28	16°28	25° 2	7°30	25°10	14°55	24° 9	23°46	2° 0	n.a.	T 15
F 16	19 19 5	18°23'55	13°55	15°32	26° 2	4°57	16°21	25°10	7°29	25°10	14°54	23°57	23°43	2° 7	n.a.	F 16
S 17	19 23 1	19°21'35	26°44	16°18	27°15	5°25	16°15	25°17	7°27	25°10	14°53	23°47	23°40	2°13	n.a.	S 17
S 18	19 26 58	20°19'17	9♍44	17° 1	28°28	5°53	16° 9	25°25	7°26	25°11	14°52	23°40	23°37	2°20	n.a.	S 18
M19	19 30 54	21°17'00	22°56	17°40	29°41	6°20	16° 3	25°33	7°25	25°11	14°51	23°35	23°33	2°27	n.a.	M19
T 20	19 34 51	22°14'44	6♎22	18°16	0♋55	6°47	15°56	25°40	7°23	25°11	14°50	23°33	23°30	2°34	n.a.	T 20
W21	19 38 47	23°12'30	20° 3	18°47	2° 8	7°14	15°49	25°48	7°22	25°11	14°48	23°33	23°27	2°40	n.a.	W21
T 22	19 42 44	24°10'16	3♏59	19°14	3°21	7°40	15°42	25°55	7°20	25°12	14°47	23°33	23°24	2°47	n.a.	T 22
F 23	19 46 40	25° 8'04	18°11	19°36	4°35	8° 6	15°36	26° 3	7°19	25°12	14°46	23°32	23°21	2°54	n.a.	F 23
S 24	19 50 37	26° 5'54	2♐38	19°53	5°48	8°31	15°29	26°11	7°17	25°12	14°45	23°29	23°18	3° 0	n.a.	S 24
S 25	19 54 34	27° 3'44	17°18	20° 6	7° 2	8°56	15°21	26°18	7°15	25°13	14°44	23°23	23°14	3° 7	n.a.	S 25
M26	19 58 30	28° 1'36	2♑ 3	20°13	8°15	9°20	15°14	26°26	7°14	25°13	14°43	23°15	23°11	3°14	n.a.	M26
T 27	20 2 27	28°59'30	16°47	20°R14	9°29	9°44	15° 7	26°34	7°12	25°14	14°41	23° 4	23° 8	3°20	n.a.	T 27
W28	20 6 23	29°57'25	1♒23	20°10	10°42	10° 8	15° 0	26°41	7°10	25°14	14°40	22°53	23° 5	3°27	n.a.	W28
T 29	20 10 20	0♌55'22	15°42	19°59	11°56	10°31	14°52	26°49	7° 8	25°15	14°39	22°42	23° 2	3°34	n.a.	T 29
F 30	20 14 16	1°53'20	29°38	19°43	13°10	10°53	14°45	26°56	7° 7	25°15	14°38	22°32	22°58	3°40	n.a.	F 30
S 31	20 18 13	2♌51'21	13♓ 9	19♌21	14♋23	11♈15	14♒37	27♋ 4	7♓ 5	25♎16	14♒37	22♈25	22♈55	3♊47	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23n39	23s23	4s56	21n20	0n40	21n 7	0s46	3s57	3s 5	16s59	1s19	22n30	0n50	9s30	0s47	8s 2	1n58	29s58	14s11	9n59	9n36	23n26			n.a.
F 2	23 37	18 47	4 32	20 55	0 32	21 21	0 44	3 45	3 6	17 1	1 19	22 29	0 50	9 30	0 48	8 2	1 58	29 58	14 12	9 56	9 35	23 28			n.a.
S 3	23 35	13 23	3 53	20 28	0 23	21 34	0 41	3 33	3 7	17 2	1 19	22 27	0 50	9 31	0 48	8 2	1 58	29 59	14 12	9 54	9 34	23 30			n.a.
S 4	23 32	7 33	3 4	20 2	0 14	21 47	0 38	3 20	3 8	17 4	1 20	22 26	0 50	9 31	0 48	8 2	1 58	29 59	14 12	9 52	9 33	23 33			n.a.
M 5	23 29	1 36	2 6	19 35	0 5	22 0	0 36	3 8	3 9	17 5	1 20	22 25	0 50	9 31	0 48	8 2	1 58	30 0	14 12	9 52	9 32	23 35			n.a.
T 6	23 25	4n16	1 4	19 7	0s 5	22 11	0 33	2 56	3 10	17 7	1 20	22 24	0 50	9 32	0 48	8 2	1 58	30 0	14 13	9 52	9 30	23 37			n.a.
W 7	23 21	9 51	0 0	18 40	0 14	22 22	0 30	2 44	3 11	17 9	1 21	22 22	0 50	9 32	0 48	8 2	1 58	30 1	14 13	9 52	9 29	23 39			n.a.
T 8	23 17	15 1	1n 3	18 12	0 24	22 33	0 28	2 32	3 12	17 11	1 21	22 21	0 50	9 32	0 48	8 2	1 58	30 2	14 13	9 52	9 28	23 41			n.a.
F 9	23 12	19 35	2 2	17 44	0 34	22 43	0 25	2 21	3 13	17 12	1 21	22 20	0 50	9 33	0 48	8 2	1 58	30 2	14 13	9 51	9 27	23 43			n.a.
S 10	23 7	23 24	2 56	17 16	0 45	22 52	0 22	2 9	3 14	17 14	1 21	22 19	0 50	9 33	0 48	8 2	1 58	30 3	14 14	9 49	9 26	23 45			n.a.
S 11	23 1	26 14	3 43	16 49	0 55	23 1	0 19	1 58	3 14	17 16	1 22	22 17	0 50	9 34	0 48	8 2	1 58	30 3	14 14	9 46	9 25	23 47			n.a.
M12	22 55	27 56	4 20	16 21	1 6	23 8	0 17	1 47	3 15	17 18	1 22	22 16	0 50	9 34	0 48	8 2	1 57	30 4	14 14	9 43	9 23	23 49			n.a.
T 13	22 48	28 18	4 46	15 54	1 17	23 16	0 14	1 35	3 16	17 20	1 22	22 15	0 50	9 35	0 48	8 2	1 57	30 4	14 14	9 38	9 22	23 51			n.a.
W14	22 41	27 18	4 59	15 28	1 28	23 22	0 11	1 24	3 17	17 22	1 22	22 13	0 50	9 35	0 48	8 2	1 57	30 5	14 14	9 33	9 21	23 54			n.a.
T 15	22 34	24 56	4 58	15 2	1 39	23 28	0 9	1 14	3 18	17 24	1 23	22 12	0 50	9 36	0 48	8 2	1 57	30 5	14 15	9 28	9 20	23 56			n.a.
F 16	22 26	21 20	4 42	14 36	1 51	23 33	0 6	1 3	3 19	17 26	1 23	22 11	0 50	9 36	0 48	8 2	1 57	30 6	14 15	9 24	9 19	23 58			n.a.
S 17	22 18	16 42	4 13	14 12	2 2	23 38	0 3	0 52	3 20	17 28	1 23	22 9	0 51	9 37	0 48	8 2	1 57	30 6	14 15	9 20	9 17	24 0			n.a.
S 18	22 10	11 14	3 29	13 48	2 13	23 42	0 1	0 42	3 20	17 30	1 23	22 8	0 51	9 37	0 48	8 2	1 57	30 7	14 15	9 17	9 16	24 2			n.a.
M19	22 1	5 11	2 34	13 25	2 25	23 45	0n 2	0 32	3 21	17 33	1 24	22 7	0 51	9 38	0 48	8 2	1 57	30 7	14 15	9 16	9 15	24 4			n.a.
T 20	21 51	1s11	1 29	13 4	2 36	23 48	0 5	0 22	3 22	17 35	1 24	22 5	0 51	9 38	0 48	8 3	1 57	30 8	14 15	9 15	9 14	24 6			n.a.
W21	21 42	7 38	0 19	12 43	2 47	23 49	0 7	0 12	3 23	17 37	1 24	22 4	0 51	9 39	0 48	8 3	1 57	30 8	14 16	9 15	9 13	24 8			n.a.
T 22	21 32	13 51	0s55	12 25	2 58	23 50	0 10	0 2	3 24	17 39	1 24	22 3	0 51	9 40	0 48	8 3	1 57	30 9	14 16	9 15	9 11	24 10			n.a.
F 23	21 21	19 28	2 6	12 8	3 9	23 51	0 12	0n 8	3 24	17 42	1 25	22 1	0 51	9 40	0 48	8 3	1 57	30 9	14 16	9 14	9 10	24 12			n.a.
S 24	21 11	24 3	3 11	11 52	3 19	23 50	0 15	0 17	3 25	17 44	1 25	22 0	0 51	9 41	0 48	8 3	1 57	30 10	14 16	9 13	9 9	24 14			n.a.
S 25	20 59	27 9	4 3	11 39	3 29	23 49	0 17	0 26	3 26	17 46	1 25	21 58	0 51	9 42	0 48	8 4	1 57	30 10	14 16	9 11	9 8	24 16			n.a.
M26	20 48	28 22	4 40	11 27	3 39	23 47	0 20	0 35	3 26	17 49	1 25	21 57	0 51	9 42	0 48	8 4	1 57	30 11	14 16	9 8	9 7	24 18			n.a.
T 27	20 36	27 35	4 59	11 18	3 48	23 45	0 22	0 44	3 27	17 51	1 25	21 56	0 51	9 43	0 48	8 4	1 56	30 11	14 16	9 4	9 6	24 20			n.a.
W28	20 24	24 54	4 57	11 12	3 56	23 42	0 25	0 53	3 28	17 53	1 26	21 54	0 51	9 44	0 48	8 4	1 56	30 12	14 17	9 0	9 4	24 22			n.a.
T 29	20 11	20 43	4 37	11 8	4 4	23 38	0 27	1 1	3 28	17 56	1 26	21 53	0 52	9 44	0 48	8 5	1 56	30 12	14 17	8 56	9 3	24 24			n.a.
F 30	19 58	15 28	4 0	11 7	4 11	23 33	0 30	1 9	3 29	17 58	1 26	21 51	0 52	9 45	0 48	8 5	1 56	30 13	14 17	8 52	9 2	24 26			n.a.
S 31	19n45	9s38	3s11	11n 8	4s16	23n28	0n32	1n17	3s30	18s 1	1s26	21n50	0n52	9s46	0s48	8s 5	1n56	30s13	14s17	8n49	9n 1	24n28			n.a.

Julian Day Number = 1658050.5, Delta T = 03h27m17s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°27'48, Lahiri = - 6°20'47 Julian Calendar 1 July 174 BCE == Greg. Calendar 28 June 174 BCE

The year -173 astronomical counting style corresponds to year 174 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 174 BCE
geocentric

AUGUST 174 BCE (-173) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 22 9	3♌49'23	26♓15	18°R52	15♋37	11♈36	14°R29	27♋12	7°R 3	25♎17	14°R35	22°R20	22♈52	3♊54	n.a.	S 1
M 2	20 26 6	4°47'27	8♈56	18♌18	16°51	11°57	14♒22	27°19	7♓ 1	25°17	14♒34	22♈18	22°49	4° 0	n.a.	M 2
T 3	20 30 3	5°45'33	21°16	17°38	18° 5	12°17	14°14	27°27	6°59	25°18	14°33	22°D17	22°46	4° 7	n.a.	T 3
W 4	20 33 59	6°43'42	3♉21	16°53	19°19	12°37	14° 6	27°34	6°57	25°19	14°32	22°R17	22°43	4°14	n.a.	W 4
T 5	20 37 56	7°41'52	15°16	16° 3	20°33	12°56	13°58	27°42	6°55	25°20	14°30	22°17	22°39	4°20	n.a.	T 5
F 6	20 41 52	8°40'05	27° 5	15° 9	21°47	13°15	13°50	27°49	6°53	25°20	14°29	22°15	22°36	4°27	n.a.	F 6
S 7	20 45 49	9°38'19	8♊55	14°12	23° 1	13°32	13°42	27°57	6°51	25°21	14°28	22°12	22°33	4°34	n.a.	S 7
S 8	20 49 45	10°36'36	20°50	13°13	24°15	13°50	13°34	28° 4	6°49	25°22	14°27	22° 6	22°30	4°40	n.a.	S 8
M 9	20 53 42	11°34'55	2♋53	12°14	25°29	14° 6	13°26	28°12	6°47	25°23	14°25	21°57	22°27	4°47	n.a.	M 9
T 10	20 57 38	12°33'16	15° 8	11°15	26°43	14°22	13°19	28°19	6°45	25°24	14°24	21°46	22°24	4°54	n.a.	T 10
W11	21 1 35	13°31'40	27°37	10°18	27°57	14°37	13°11	28°27	6°42	25°25	14°23	21°34	22°20	5° 0	n.a.	W11
T 12	21 5 32	14°30'05	10♌19	9°24	29°12	14°52	13° 3	28°34	6°40	25°26	14°22	21°22	22°17	5° 7	n.a.	T 12
F 13	21 9 28	15°28'32	23°16	8°35	0♌26	15° 6	12°55	28°42	6°38	25°27	14°20	21°11	22°14	5°14	n.a.	F 13
S 14	21 13 25	16°27'01	6♍25	7°52	1°40	15°19	12°47	28°49	6°36	25°28	14°19	21° 2	22°11	5°21	n.a.	S 14
S 15	21 17 21	17°25'31	19°46	7°15	2°55	15°32	12°39	28°57	6°34	25°29	14°18	20°56	22° 8	5°27	n.a.	S 15
M16	21 21 18	18°24'04	3♎18	6°47	4° 9	15°43	12°31	29° 4	6°31	25°30	14°17	20°52	22° 4	5°34	n.a.	M16
T 17	21 25 14	19°22'38	16°58	6°27	5°23	15°54	12°23	29°11	6°29	25°31	14°15	20°D51	22° 1	5°41	n.a.	T 17
W18	21 29 11	20°21'15	0♏48	6°16	6°38	16° 4	12°15	29°18	6°27	25°32	14°14	20°51	21°58	5°47	n.a.	W18
T 19	21 33 7	21°19'53	14°46	6°D14	7°52	16°14	12° 7	29°26	6°24	25°34	14°13	20°R52	21°55	5°54	n.a.	T 19
F 20	21 37 4	22°18'32	28°53	6°22	9° 7	16°23	12° 0	29°33	6°22	25°35	14°12	20°52	21°52	6° 1	n.a.	F 20
S 21	21 41 1	23°17'14	13♐ 6	6°39	10°21	16°30	11°52	29°40	6°20	25°36	14°10	20°50	21°49	6° 7	n.a.	S 21
S 22	21 44 57	24°15'57	27°25	7° 6	11°36	16°38	11°44	29°47	6°17	25°37	14° 9	20°46	21°45	6°14	n.a.	S 22
M23	21 48 54	25°14'43	11♑45	7°42	12°51	16°44	11°37	29°55	6°15	25°39	14° 8	20°40	21°42	6°21	n.a.	M23
T 24	21 52 50	26°13'30	26° 3	8°27	14° 5	16°49	11°29	0♌ 2	6°13	25°40	14° 7	20°32	21°39	6°27	n.a.	T 24
W25	21 56 47	27°12'19	10♒14	9°20	15°20	16°54	11°22	0° 9	6°10	25°41	14° 6	20°23	21°36	6°34	n.a.	W25
T 26	22 0 43	28°11'09	24°11	10°21	16°35	16°58	11°15	0°16	6° 8	25°43	14° 4	20°15	21°33	6°41	n.a.	T 26
F 27	22 4 40	29°10'02	7♓51	11°28	17°49	17° 1	11° 7	0°23	6° 6	25°44	14° 3	20° 7	21°30	6°47	n.a.	F 27
S 28	22 8 36	0♍ 8'57	21°11	12°42	19° 4	17° 3	11° 0	0°30	6° 3	25°46	14° 2	20° 2	21°26	6°54	n.a.	S 28
S 29	22 12 33	1° 7'55	4♈ 9	14° 2	20°19	17° 4	10°53	0°37	6° 1	25°47	14° 1	19°58	21°23	7° 1	n.a.	S 29
M30	22 16 29	2° 6'54	16°47	15°26	21°34	17°R 5	10°46	0°44	5°58	25°49	14° 0	19°D57	21°20	7° 7	n.a.	M30
T 31	22 20 26	3♍ 5'56	29♈ 7	16♌55	22♌48	17♈ 4	10♒40	0♌51	5♓56	25♎50	13♒58	19♈57	21♈17	7♊14	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	19n31	3s33	2s13	11n13	4s20	23n22	0n34	1n25	3s30	18s 3	1s26	21n49	0n52	9s46	0s48	8s 5	1n56	30s14	14s17	8n48	9n 0	24n30			n.a.
M 2	19 17	2n30	1 10	11 21	4 23	23 15	0 37	1 33	3 31	18 5	1 26	21 47	0 52	9 47	0 48	8 6	1 56	30 14	14 17	8 47	8 58	24 32			n.a.
T 3	19 3	8 19	0 5	11 32	4 25	23 7	0 39	1 40	3 31	18 8	1 27	21 46	0 52	9 48	0 48	8 6	1 56	30 15	14 17	8 46	8 57	24 34			n.a.
W 4	18 48	13 41	0n58	11 46	4 24	22 59	0 41	1 48	3 32	18 10	1 27	21 44	0 52	9 49	0 48	8 6	1 56	30 15	14 17	8 46	8 56	24 35			n.a.
T 5	18 34	18 30	1 59	12 2	4 22	22 50	0 43	1 55	3 32	18 13	1 27	21 43	0 52	9 49	0 48	8 7	1 56	30 16	14 17	8 46	8 55	24 37			n.a.
F 6	18 18	22 33	2 54	12 22	4 18	22 41	0 45	2 2	3 33	18 15	1 27	21 42	0 52	9 50	0 49	8 7	1 56	30 16	14 17	8 46	8 54	24 39			n.a.
S 7	18 3	25 41	3 41	12 44	4 12	22 31	0 48	2 8	3 33	18 18	1 27	21 40	0 52	9 51	0 49	8 7	1 56	30 17	14 17	8 44	8 52	24 41			n.a.
S 8	17 47	27 42	4 19	13 9	4 4	22 20	0 50	2 14	3 34	18 20	1 27	21 39	0 52	9 52	0 49	8 8	1 56	30 17	14 18	8 42	8 51	24 43			n.a.
M 9	17 31	28 27	4 46	13 35	3 54	22 8	0 52	2 21	3 34	18 22	1 27	21 37	0 53	9 53	0 49	8 8	1 56	30 18	14 18	8 39	8 50	24 45			n.a.
T 10	17 14	27 49	5 0	14 2	3 43	21 56	0 53	2 26	3 34	18 25	1 27	21 36	0 53	9 53	0 49	8 9	1 56	30 18	14 18	8 35	8 49	24 47			n.a.
W11	16 57	25 47	5 0	14 31	3 29	21 43	0 55	2 32	3 35	18 27	1 27	21 34	0 53	9 54	0 49	8 9	1 55	30 18	14 18	8 30	8 48	24 49			n.a.
T 12	16 40	22 26	4 46	15 0	3 14	21 29	0 57	2 37	3 35	18 30	1 28	21 33	0 53	9 55	0 49	8 9	1 55	30 19	14 18	8 26	8 46	24 51			n.a.
F 13	16 23	17 57	4 17	15 28	2 57	21 15	0 59	2 43	3 35	18 32	1 28	21 31	0 53	9 56	0 49	8 10	1 55	30 19	14 18	8 22	8 45	24 53			n.a.
S 14	16 5	12 33	3 33	15 56	2 40	21 0	1 1	2 48	3 35	18 34	1 28	21 30	0 53	9 57	0 49	8 10	1 55	30 20	14 18	8 18	8 44	24 54			n.a.
S 15	15 47	6 30	2 38	16 23	2 22	20 45	1 2	2 52	3 36	18 37	1 28	21 29	0 53	9 58	0 49	8 11	1 55	30 20	14 18	8 16	8 43	24 56			n.a.
M16	15 29	0 5	1 32	16 49	2 3	20 29	1 4	2 57	3 36	18 39	1 28	21 27	0 53	9 58	0 49	8 11	1 55	30 20	14 18	8 14	8 42	24 58			n.a.
T 17	15 11	6s26	0 21	17 13	1 44	20 12	1 6	3 1	3 36	18 41	1 28	21 26	0 53	9 59	0 49	8 12	1 55	30 21	14 18	8 14	8 40	25 0			n.a.
W18	14 52	12 43	0s53	17 34	1 24	19 55	1 7	3 5	3 36	18 44	1 28	21 24	0 54	10 0	0 49	8 12	1 55	30 21	14 18	8 14	8 39	25 2			n.a.
T 19	14 33	18 26	2 4	17 53	1 5	19 37	1 9	3 8	3 36	18 46	1 28	21 23	0 54	10 1	0 49	8 13	1 55	30 22	14 18	8 14	8 38	25 4			n.a.
F 20	14 14	23 12	3 9	18 9	0 47	19 19	1 10	3 11	3 36	18 48	1 28	21 21	0 54	10 2	0 49	8 13	1 55	30 22	14 18	8 14	8 37	25 6			n.a.
S 21	13 55	26 38	4 2	18 22	0 29	19 0	1 12	3 15	3 36	18 50	1 28	21 20	0 54	10 3	0 49	8 14	1 55	30 22	14 18	8 13	8 36	25 7			n.a.
S 22	13 35	28 22	4 41	18 31	0 12	18 40	1 13	3 17	3 36	18 52	1 28	21 19	0 54	10 4	0 49	8 14	1 55	30 23	14 18	8 12	8 34	25 9			n.a.
M23	13 15	28 12	5 2	18 38	0n 4	18 20	1 14	3 20	3 36	18 55	1 28	21 17	0 54	10 5	0 49	8 15	1 55	30 23	14 18	8 10	8 33	25 11			n.a.
T 24	12 55	26 9	5 4	18 41	0 20	18 0	1 15	3 22	3 36	18 57	1 28	21 16	0 54	10 5	0 49	8 15	1 55	30 23	14 18	8 7	8 32	25 13			n.a.
W25	12 35	22 29	4 48	18 40	0 34	17 38	1 16	3 24	3 35	18 59	1 28	21 14	0 54	10 6	0 49	8 16	1 55	30 24	14 18	8 3	8 31	25 15			n.a.
T 26	12 15	17 36	4 14	18 36	0 47	17 17	1 17	3 26	3 35	19 1	1 28	21 13	0 54	10 7	0 49	8 16	1 55	30 24	14 18	8 0	8 30	25 16			n.a.
F 27	11 54	11 55	3 27	18 28	0 58	16 55	1 18	3 27	3 35	19 3	1 28	21 12	0 55	10 8	0 49	8 17	1 55	30 24	14 17	7 57	8 28	25 18			n.a.
S 28	11 33	5 48	2 29	18 18	1 9	16 32	1 19	3 29	3 34	19 5	1 28	21 10	0 55	10 9	0 49	8 18	1 54	30 25	14 17	7 55	8 27	25 20			n.a.
S 29	11 12	0n23	1 24	18 3	1 18	16 9	1 20	3 29	3 34	19 7	1 28	21 9	0 55	10 10	0 49	8 18	1 54	30 25	14 17	7 54	8 26	25 22			n.a.
M30	10 51	6 25	0 17	17 46	1 26	15 46	1 21	3 30	3 34	19 9	1 28	21 7	0 55	10 11	0 49	8 19	1 54	30 25	14 17	7 53	8 25	25 24			n.a.
T 31	10n29	12n 4	0n49	17n26	1n33	15n22	1n22	3n30	3s33	19s10	1s28	21n 6	0n55	10s12	0s49	8s19	1n54	30s26	14s17	7n53	8n24	25n25			n.a.

Julian Day Number = 1658081.5, Delta T = 03h27m16s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°27'43, Lahiri = - 6°20'43 Julian Calendar 1 Aug. 174 BCE == Greg. Calendar 29 July 174 BCE

The year -173 astronomical counting style corresponds to year 174 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 174 BCE
geocentric

SEPTEMBER 174 BCE (-173) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 24 23	4♍ 5'00	11♉13	18♌28	24♌ 3	17°R 3	10°R33	0♌57	5°R54	25♎52	13°R57	19♈59	21♈14	7♊21	n.a.	W 1
T 2	22 28 19	5° 4'07	23° 9	20° 4	25°18	17♈ 0	10♒26	1° 4	5♓51	25°53	13♒56	20° 0	21°10	7°28	n.a.	T 2
F 3	22 32 16	6° 3'16	5♊ 0	21°42	26°33	16°57	10°20	1°11	5°49	25°55	13°55	20°R 1	21° 7	7°34	n.a.	F 3
S 4	22 36 12	7° 2'27	16°51	23°23	27°48	16°53	10°14	1°18	5°46	25°56	13°54	20° 0	21° 4	7°41	n.a.	S 4
S 5	22 40 9	8° 1'41	28°47	25° 5	29° 3	16°48	10° 7	1°24	5°44	25°58	13°53	19°58	21° 1	7°48	n.a.	S 5
M 6	22 44 5	9° 0'58	10♋53	26°49	0♍18	16°42	10° 1	1°31	5°41	26° 0	13°52	19°54	20°58	7°54	n.a.	M 6
T 7	22 48 2	10° 0'17	23°13	28°33	1°33	16°35	9°55	1°37	5°39	26° 1	13°50	19°48	20°55	8° 1	n.a.	T 7
W 8	22 51 58	10°59'38	5♌50	0♍19	2°48	16°28	9°50	1°44	5°37	26° 3	13°49	19°42	20°51	8° 8	n.a.	W 8
T 9	22 55 55	11°59'01	18°45	2° 4	4° 3	16°19	9°44	1°50	5°34	26° 5	13°48	19°35	20°48	8°14	n.a.	T 9
F 10	22 59 52	12°58'26	1♍58	3°50	5°19	16° 9	9°39	1°57	5°32	26° 7	13°47	19°29	20°45	8°21	n.a.	F 10
S 11	23 3 48	13°57'54	15°29	5°36	6°34	15°59	9°33	2° 3	5°29	26° 8	13°46	19°24	20°42	8°28	n.a.	S 11
S 12	23 7 45	14°57'24	29°15	7°22	7°49	15°48	9°28	2° 9	5°27	26°10	13°45	19°20	20°39	8°34	n.a.	S 12
M13	23 11 41	15°56'56	13♎12	9° 8	9° 4	15°36	9°23	2°16	5°25	26°12	13°44	19°D19	20°35	8°41	n.a.	M13
T 14	23 15 38	16°56'30	27°18	10°53	10°19	15°23	9°18	2°22	5°22	26°14	13°43	19°19	20°32	8°48	n.a.	T 14
W15	23 19 34	17°56'05	11♏29	12°38	11°34	15° 9	9°14	2°28	5°20	26°16	13°42	19°20	20°29	8°54	n.a.	W15
T 16	23 23 31	18°55'43	25°42	14°22	12°50	14°55	9° 9	2°34	5°18	26°17	13°41	19°21	20°26	9° 1	n.a.	T 16
F 17	23 27 27	19°55'23	9♐55	16° 6	14° 5	14°40	9° 5	2°40	5°15	26°19	13°40	19°23	20°23	9° 8	n.a.	F 17
S 18	23 31 24	20°55'04	24° 5	17°50	15°20	14°24	9° 1	2°46	5°13	26°21	13°39	19°R23	20°20	9°15	n.a.	S 18
S 19	23 35 21	21°54'47	8♑11	19°32	16°35	14° 8	8°57	2°52	5°11	26°23	13°38	19°22	20°16	9°21	n.a.	S 19
M20	23 39 17	22°54'32	22°12	21°15	17°51	13°51	8°53	2°58	5° 8	26°25	13°37	19°20	20°13	9°28	n.a.	M20
T 21	23 43 14	23°54'19	6♒ 4	22°56	19° 6	13°33	8°50	3° 3	5° 6	26°27	13°36	19°17	20°10	9°35	n.a.	T 21
W22	23 47 10	24°54'08	19°46	24°37	20°21	13°15	8°46	3° 9	5° 4	26°29	13°35	19°13	20° 7	9°41	n.a.	W22
T 23	23 51 7	25°53'58	3♓16	26°18	21°37	12°56	8°43	3°15	5° 2	26°31	13°35	19° 9	20° 4	9°48	n.a.	T 23
F 24	23 55 3	26°53'50	16°32	27°58	22°52	12°37	8°40	3°20	4°59	26°33	13°34	19° 6	20° 1	9°55	n.a.	F 24
S 25	23 59 0	27°53'44	29°32	29°37	24° 7	12°17	8°38	3°26	4°57	26°35	13°33	19° 4	19°57	10° 1	n.a.	S 25
S 26	0 2 56	28°53'41	12♈17	1♎16	25°23	11°57	8°35	3°31	4°55	26°37	13°32	19° 3	19°54	10° 8	n.a.	S 26
M27	0 6 53	29°53'39	24°46	2°54	26°38	11°37	8°33	3°36	4°53	26°39	13°31	19°D 3	19°51	10°15	n.a.	M27
T 28	0 10 49	0♎53'39	7♉ 1	4°31	27°53	11°16	8°30	3°42	4°51	26°41	13°31	19° 4	19°48	10°21	n.a.	T 28
W29	0 14 46	1°53'42	19° 5	6° 8	29° 9	10°55	8°28	3°47	4°49	26°43	13°30	19° 5	19°45	10°28	n.a.	W29
T 30	0 18 43	2♎53'47	1♊ 0	7♎45	0♎24	10♈34	8♒27	3♌52	4♓47	26♎45	13♒29	19♈ 6	19♈41	10♊35	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	10n 8	17n 9	1n52	17n 2	1n39	14n57	1n23	3n30	3s32	19s12	1s28	21n 5	0n55	10s13	0s49	8s20	1n54	30s26	14s17	7n54	8n22	25n27		n.a.
T 2	9 46	21 31	2 50	16 36	1 44	14 32	1 23	3 30	3 32	19 14	1 28	21 3	0 55	10 14	0 49	8 21	1 54	30 26	14 17	7 54	8 21	25 29		n.a.
F 3	9 24	24 58	3 39	16 8	1 48	14 7	1 24	3 30	3 31	19 16	1 28	21 2	0 55	10 14	0 49	8 21	1 54	30 27	14 17	7 55	8 20	25 31		n.a.
S 4	9 2	27 22	4 20	15 37	1 51	13 41	1 24	3 29	3 30	19 17	1 28	21 0	0 56	10 15	0 49	8 22	1 54	30 27	14 17	7 54	8 19	25 32		n.a.
S 5	8 39	28 32	4 49	15 5	1 53	13 15	1 25	3 28	3 29	19 19	1 28	20 59	0 56	10 16	0 49	8 23	1 54	30 27	14 17	7 54	8 18	25 34		n.a.
M 6	8 17	28 21	5 6	14 30	1 54	12 49	1 25	3 26	3 28	19 21	1 28	20 58	0 56	10 17	0 49	8 23	1 54	30 27	14 17	7 52	8 16	25 36		n.a.
T 7	7 54	26 46	5 9	13 54	1 54	12 22	1 25	3 25	3 27	19 22	1 27	20 56	0 56	10 18	0 49	8 24	1 54	30 27	14 16	7 50	8 15	25 37		n.a.
W 8	7 32	23 50	4 58	13 16	1 54	11 55	1 25	3 23	3 26	19 24	1 27	20 55	0 56	10 19	0 49	8 24	1 54	30 28	14 16	7 47	8 14	25 39		n.a.
T 9	7 9	19 40	4 31	12 37	1 53	11 28	1 26	3 21	3 25	19 25	1 27	20 54	0 56	10 20	0 49	8 25	1 54	30 28	14 16	7 45	8 13	25 41		n.a.
F 10	6 46	14 27	3 49	11 57	1 51	11 0	1 26	3 18	3 23	19 27	1 27	20 52	0 56	10 21	0 49	8 26	1 54	30 28	14 16	7 42	8 12	25 43		n.a.
S 11	6 23	8 27	2 54	11 15	1 49	10 32	1 26	3 15	3 22	19 28	1 27	20 51	0 57	10 22	0 49	8 27	1 54	30 28	14 16	7 41	8 10	25 44		n.a.
S 12	6 0	1 57	1 47	10 33	1 47	10 4	1 26	3 12	3 21	19 29	1 27	20 50	0 57	10 23	0 49	8 27	1 54	30 29	14 16	7 39	8 9	25 46		n.a.
M13	5 36	4s46	0 33	9 50	1 44	9 35	1 26	3 9	3 19	19 30	1 27	20 49	0 57	10 23	0 49	8 28	1 54	30 29	14 16	7 39	8 8	25 48		n.a.
T 14	5 13	11 18	0s44	9 7	1 40	9 6	1 25	3 6	3 17	19 32	1 27	20 47	0 57	10 24	0 49	8 29	1 54	30 29	14 15	7 39	8 7	25 49		n.a.
W15	4 49	17 19	1 58	8 22	1 36	8 37	1 25	3 2	3 16	19 33	1 27	20 46	0 57	10 25	0 49	8 29	1 54	30 29	14 15	7 39	8 6	25 51		n.a.
T 16	4 26	22 25	3 6	7 38	1 32	8 8	1 25	2 58	3 14	19 34	1 26	20 45	0 57	10 26	0 49	8 30	1 54	30 29	14 15	7 40	8 4	25 53		n.a.
F 17	4 2	26 11	4 2	6 53	1 27	7 38	1 25	2 54	3 12	19 35	1 26	20 44	0 58	10 27	0 49	8 31	1 54	30 29	14 15	7 40	8 3	25 54		n.a.
S 18	3 38	28 18	4 44	6 8	1 22	7 8	1 24	2 50	3 10	19 36	1 26	20 42	0 58	10 28	0 49	8 32	1 54	30 29	14 15	7 40	8 2	25 56		n.a.
S 19	3 15	28 35	5 8	5 22	1 17	6 38	1 24	2 45	3 8	19 37	1 26	20 41	0 58	10 29	0 49	8 32	1 53	30 30	14 15	7 40	8 1	25 57		n.a.
M20	2 51	27 1	5 13	4 36	1 12	6 8	1 23	2 41	3 6	19 38	1 26	20 40	0 58	10 29	0 49	8 33	1 53	30 30	14 14	7 39	8 0	25 59		n.a.
T 21	2 27	23 49	5 0	3 51	1 6	5 37	1 22	2 36	3 3	19 38	1 26	20 39	0 58	10 30	0 49	8 34	1 53	30 30	14 14	7 38	7 58	26 1		n.a.
W22	2 3	19 20	4 30	3 5	1 0	5 7	1 22	2 31	3 1	19 39	1 26	20 38	0 58	10 31	0 49	8 34	1 53	30 30	14 14	7 36	7 57	26 2		n.a.
T 23	1 39	13 55	3 46	2 19	0 54	4 36	1 21	2 26	2 59	19 40	1 26	20 36	0 58	10 32	0 49	8 35	1 53	30 30	14 14	7 35	7 56	26 4		n.a.
F 24	1 15	7 59	2 50	1 34	0 48	4 5	1 20	2 21	2 56	19 40	1 25	20 35	0 59	10 33	0 49	8 36	1 53	30 30	14 14	7 34	7 55	26 5		n.a.
S 25	0 51	1 48	1 45	0 48	0 42	3 34	1 19	2 15	2 53	19 41	1 25	20 34	0 59	10 33	0 49	8 37	1 53	30 30	14 13	7 33	7 53	26 7		n.a.
S 26	0 27	4n20	0 37	0 2	0 36	3 3	1 18	2 10	2 51	19 42	1 25	20 33	0 59	10 34	0 49	8 38	1 53	30 30	14 13	7 33	7 52	26 9		n.a.
M27	0 3	10 11	0n32	0s43	0 29	2 32	1 17	2 4	2 48	19 42	1 25	20 32	0 59	10 35	0 49	8 38	1 53	30 30	14 13	7 33	7 51	26 10		n.a.
T 28	0s22	15 33	1 38	1 28	0 23	2 1	1 16	1 59	2 45	19 43	1 25	20 31	0 59	10 36	0 48	8 39	1 53	30 30	14 13	7 33	7 50	26 12		n.a.
W29	0 46	20 14	2 38	2 13	0 16	1 30	1 15	1 53	2 42	19 43	1 25	20 30	0 59	10 36	0 48	8 40	1 53	30 30	14 13	7 33	7 49	26 13		n.a.
T 30	1s10	24n 3	3n32	2s58	0n10	0n58	1n14	1n48	2s39	19s43	1s24	20n29	1n 0	10s37	0s48	8s41	1n53	30s30	14s12	7n34	7n47	26n15		n.a.

Julian Day Number = 1658112.5, Delta T = 03h27m15s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°27'39, Lahiri = - 6°20'39 Julian Calendar 1 Sept. 174 BCE == Greg. Calendar 29 Aug. 174 BCE

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ASTRODIENST EPHEMERIS for the year 174 BCE
geocentric

OCTOBER 174 BCE (-173) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 22 39	3♎53'54	12♊51	9♎21	1♎39	10°R12	8°R25	3♌57	4°R45	26♎47	13°R28	19♈ 8	19♈38	10♊42	n.a.	F 1
S 2	0 26 36	4°54'03	24°42	10°57	2°55	9♈51	8♒24	4° 2	4♓43	26°50	13♒28	19° 9	19°35	10°48	n.a.	S 2
S 3	0 30 32	5°54'15	6♋38	12°32	4°10	9°29	8°23	4° 7	4°41	26°52	13°27	19°R 9	19°32	10°55	n.a.	S 3
M 4	0 34 29	6°54'28	18°43	14° 6	5°26	9° 7	8°22	4°12	4°39	26°54	13°26	19° 9	19°29	11° 2	n.a.	M 4
T 5	0 38 25	7°54'44	1♌ 2	15°41	6°41	8°46	8°21	4°16	4°37	26°56	13°26	19° 8	19°26	11° 8	n.a.	T 5
W 6	0 42 22	8°55'02	13°39	17°15	7°57	8°24	8°20	4°21	4°35	26°58	13°25	19° 7	19°22	11°15	n.a.	W 6
T 7	0 46 18	9°55'22	26°38	18°48	9°12	8° 3	8°20	4°25	4°33	27° 0	13°24	19° 5	19°19	11°22	n.a.	T 7
F 8	0 50 15	10°55'44	10♍ 0	20°21	10°28	7°42	8°D20	4°30	4°31	27° 3	13°24	19° 4	19°16	11°28	n.a.	F 8
S 9	0 54 12	11°56'08	23°44	21°54	11°43	7°21	8°20	4°34	4°29	27° 5	13°23	19° 3	19°13	11°35	n.a.	S 9
S 10	0 58 8	12°56'33	7♎49	23°26	12°59	7° 0	8°20	4°39	4°28	27° 7	13°23	19° 3	19°10	11°42	n.a.	S 10
M11	1 2 5	13°57'01	22°12	24°58	14°14	6°40	8°21	4°43	4°26	27° 9	13°22	19°D 3	19° 7	11°48	n.a.	M11
T 12	1 6 1	14°57'30	6♏46	26°30	15°30	6°20	8°21	4°47	4°24	27°11	13°22	19° 3	19° 3	11°55	n.a.	T 12
W13	1 9 58	15°58'01	21°26	28° 1	16°45	6° 1	8°22	4°51	4°23	27°14	13°21	19° 3	19° 0	12° 2	n.a.	W13
T 14	1 13 54	16°58'33	6♐ 4	29°32	18° 1	5°42	8°23	4°55	4°21	27°16	13°21	19° 3	18°57	12° 9	n.a.	T 14
F 15	1 17 51	17°59'07	20°36	1♏ 2	19°16	5°24	8°24	4°59	4°19	27°18	13°20	19° 4	18°54	12°15	n.a.	F 15
S 16	1 21 47	18°59'43	4♑57	2°33	20°32	5° 6	8°26	5° 3	4°18	27°20	13°20	19°R 4	18°51	12°22	n.a.	S 16
S 17	1 25 44	20° 0'19	19° 4	4° 2	21°47	4°48	8°28	5° 6	4°16	27°23	13°20	19°D 4	18°47	12°29	n.a.	S 17
M18	1 29 41	21° 0'57	2♒55	5°32	23° 3	4°32	8°30	5°10	4°15	27°25	13°19	19° 4	18°44	12°35	n.a.	M18
T 19	1 33 37	22° 1'36	16°31	7° 1	24°18	4°16	8°32	5°13	4°14	27°27	13°19	19° 4	18°41	12°42	n.a.	T 19
W20	1 37 34	23° 2'16	29°50	8°30	25°33	4° 0	8°34	5°17	4°12	27°29	13°19	19° 4	18°38	12°49	n.a.	W20
T 21	1 41 30	24° 2'58	12♓56	9°58	26°49	3°46	8°37	5°20	4°11	27°32	13°18	19° 5	18°35	12°55	n.a.	T 21
F 22	1 45 27	25° 3'41	25°47	11°26	28° 4	3°32	8°39	5°23	4°10	27°34	13°18	19° 5	18°32	13° 2	n.a.	F 22
S 23	1 49 23	26° 4'25	8♈25	12°53	29°20	3°19	8°42	5°26	4° 8	27°36	13°18	19° 6	18°28	13° 9	n.a.	S 23
S 24	1 53 20	27° 5'10	20°52	14°19	0♏35	3° 6	8°45	5°29	4° 7	27°38	13°18	19°R 6	18°25	13°16	n.a.	S 24
M25	1 57 16	28° 5'57	3♉ 9	15°45	1°51	2°55	8°49	5°32	4° 6	27°41	13°17	19° 5	18°22	13°22	n.a.	M25
T 26	2 1 13	29° 6'45	15°15	17°10	3° 6	2°44	8°52	5°35	4° 5	27°43	13°17	19° 5	18°19	13°29	n.a.	T 26
W27	2 5 10	0♏ 7'35	27°15	18°35	4°22	2°34	8°56	5°38	4° 4	27°45	13°17	19° 3	18°16	13°36	n.a.	W27
T 28	2 9 6	1° 8'26	9♊ 8	19°58	5°37	2°25	9° 0	5°40	4° 3	27°47	13°17	19° 1	18°12	13°42	n.a.	T 28
F 29	2 13 3	2° 9'19	20°59	21°21	6°53	2°16	9° 4	5°43	4° 2	27°50	13°17	18°59	18° 9	13°49	n.a.	F 29
S 30	2 16 59	3°10'13	2♋49	22°42	8° 8	2° 9	9° 8	5°45	4° 1	27°52	13°17	18°57	18° 6	13°56	n.a.	S 30
S 31	2 20 56	4♏11'09	14♋44	24♏ 2	9♏24	2♈ 2	9♒12	5♌47	4♓ 0	27♎54	13♒17	18♈56	18♈ 3	14♊ 2	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	1s34	26n49	4n15	3s42	0n 3	0n27	1n13	1n42	2s36	19s43	1s24	20n28	1n 0	10s38	0s48	8s41	1n53	30s30	14s12	7n34	7n46	26n16		n.a.
S 2	1 58	28 25	4 48	4 26	0s 3	0s 5	1 12	1 36	2 33	19 44	1 24	20 27	1 0	10 39	0 48	8 42	1 53	30 30	14 12	7 35	7 45	26 18		n.a.
S 3	2 22	28 42	5 9	5 10	0 10	0 36	1 10	1 31	2 30	19 44	1 24	20 26	1 0	10 39	0 48	8 43	1 53	30 30	14 12	7 35	7 44	26 19		n.a.
M 4	2 46	27 37	5 17	5 53	0 17	1 8	1 9	1 25	2 26	19 44	1 24	20 25	1 0	10 40	0 48	8 44	1 53	30 30	14 11	7 35	7 43	26 21		n.a.
T 5	3 10	25 12	5 10	6 36	0 23	1 39	1 8	1 20	2 23	19 44	1 23	20 24	1 0	10 41	0 48	8 45	1 53	30 30	14 11	7 34	7 41	26 23		n.a.
W 6	3 34	21 30	4 48	7 18	0 30	2 11	1 6	1 14	2 20	19 44	1 23	20 23	1 1	10 41	0 48	8 45	1 53	30 30	14 11	7 34	7 40	26 24		n.a.
T 7	3 58	16 43	4 11	8 0	0 36	2 42	1 5	1 9	2 16	19 44	1 23	20 22	1 1	10 42	0 48	8 46	1 53	30 30	14 11	7 34	7 39	26 26		n.a.
F 8	4 22	10 59	3 20	8 42	0 43	3 13	1 3	1 4	2 13	19 44	1 23	20 21	1 1	10 43	0 48	8 47	1 53	30 30	14 10	7 33	7 38	26 27		n.a.
S 9	4 46	4 35	2 16	9 23	0 49	3 45	1 1	0 58	2 9	19 43	1 23	20 20	1 1	10 43	0 48	8 48	1 53	30 30	14 10	7 33	7 36	26 29		n.a.
S 10	5 10	2s12	1 2	10 4	0 56	4 16	1 0	0 53	2 6	19 43	1 23	20 19	1 1	10 44	0 48	8 49	1 53	30 30	14 10	7 33	7 35	26 30		n.a.
M11	5 34	9 1	0s18	10 44	1 2	4 47	0 58	0 49	2 2	19 43	1 22	20 18	1 2	10 45	0 48	8 49	1 53	30 30	14 10	7 33	7 34	26 31		n.a.
T 12	5 58	15 27	1 37	11 24	1 8	5 18	0 56	0 44	1 59	19 42	1 22	20 17	1 2	10 45	0 48	8 50	1 53	30 30	14 9	7 33	7 33	26 33		n.a.
W13	6 21	21 4	2 50	12 3	1 14	5 49	0 54	0 39	1 55	19 42	1 22	20 17	1 2	10 46	0 48	8 51	1 53	30 30	14 9	7 33	7 32	26 34		n.a.
T 14	6 45	25 23	3 52	12 41	1 20	6 20	0 53	0 35	1 51	19 42	1 22	20 16	1 2	10 46	0 48	8 52	1 53	30 29	14 9	7 33	7 30	26 36		n.a.
F 15	7 8	28 1	4 39	13 19	1 26	6 51	0 51	0 31	1 48	19 41	1 22	20 15	1 2	10 47	0 48	8 53	1 53	30 29	14 8	7 33	7 29	26 37		n.a.
S 16	7 31	28 45	5 8	13 56	1 32	7 21	0 49	0 27	1 44	19 40	1 21	20 14	1 3	10 47	0 48	8 54	1 53	30 29	14 8	7 33	7 28	26 39		n.a.
S 17	7 55	27 35	5 17	14 32	1 37	7 52	0 47	0 24	1 41	19 40	1 21	20 14	1 3	10 48	0 48	8 54	1 53	30 29	14 8	7 33	7 27	26 40		n.a.
M18	8 18	24 43	5 8	15 7	1 42	8 22	0 45	0 20	1 37	19 39	1 21	20 13	1 3	10 48	0 48	8 55	1 53	30 29	14 8	7 33	7 25	26 42		n.a.
T 19	8 41	20 32	4 42	15 42	1 47	8 52	0 43	0 17	1 33	19 38	1 21	20 12	1 3	10 49	0 48	8 56	1 53	30 29	14 7	7 33	7 24	26 43		n.a.
W20	9 3	15 24	4 1	16 16	1 52	9 22	0 41	0 14	1 30	19 38	1 21	20 12	1 3	10 49	0 48	8 57	1 53	30 29	14 7	7 33	7 23	26 44		n.a.
T 21	9 26	9 40	3 7	16 49	1 57	9 51	0 39	0 12	1 26	19 37	1 20	20 11	1 3	10 50	0 48	8 58	1 53	30 28	14 7	7 33	7 22	26 46		n.a.
F 22	9 49	3 37	2 6	17 21	2 1	10 21	0 36	0 9	1 23	19 36	1 20	20 10	1 4	10 50	0 48	8 58	1 53	30 28	14 6	7 33	7 21	26 47		n.a.
S 23	10 11	2n29	0 59	17 53	2 6	10 50	0 34	0 7	1 19	19 35	1 20	20 10	1 4	10 51	0 48	8 59	1 53	30 28	14 6	7 34	7 19	26 49		n.a.
S 24	10 33	8 23	0n10	18 23	2 10	11 19	0 32	0 6	1 16	19 34	1 20	20 9	1 4	10 51	0 48	9 0	1 53	30 28	14 6	7 34	7 18	26 50		n.a.
M25	10 55	13 55	1 17	18 52	2 13	11 47	0 30	0 4	1 12	19 33	1 20	20 9	1 4	10 52	0 48	9 1	1 53	30 27	14 6	7 34	7 17	26 51		n.a.
T 26	11 17	18 50	2 20	19 20	2 16	12 15	0 28	0 3	1 9	19 32	1 19	20 8	1 4	10 52	0 48	9 2	1 53	30 27	14 5	7 33	7 16	26 53		n.a.
W27	11 39	22 57	3 16	19 47	2 19	12 43	0 25	0 2	1 6	19 30	1 19	20 8	1 5	10 52	0 48	9 3	1 53	30 27	14 5	7 33	7 14	26 54		n.a.
T 28	12 0	26 4	4 3	20 13	2 22	13 11	0 23	0 1	1 2	19 29	1 19	20 7	1 5	10 53	0 48	9 3	1 53	30 27	14 5	7 32	7 13	26 55		n.a.
F 29	12 22	28 3	4 39	20 37	2 24	13 38	0 21	0 1	0 59	19 28	1 19	20 7	1 5	10 53	0 48	9 4	1 53	30 26	14 4	7 31	7 12	26 57		n.a.
S 30	12 43	28 45	5 4	21 0	2 25	14 5	0 19	0 1	0 56	19 27	1 19	20 6	1 5	10 53	0 48	9 5	1 53	30 26	14 4	7 31	7 11	26 58		n.a.
S 31	13s 4	28n 7	5n15	21s21	2s26	14s32	0n16	0n 1	0s53	19s25	1s18	20n 6	1n 5	10s54	0s48	9s 6	1n53	30s26	14s 4	7n30	7n10	26n59		n.a.

Julian Day Number = 1658142.5, Delta T = 03h27m14s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°27'35, Lahiri = - 6°20'35 Julian Calendar 1 Oct. 174 BCE == Greg. Calendar 28 Sept. 174 BCE

The year -173 astronomical counting style corresponds to year 174 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 174 BCE
geocentric

NOVEMBER 174 BCE (-173) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 24 52	5♏12'05	26♋47	25♏20	10♏39	1°R56	9♒17	5♌49	3°R59	27♎56	13°D17	18°R55	18♈ 0	14♊ 9	n.a.	M 1
T 2	2 28 49	6°13'04	9♌ 2	26°36	11°55	1♈51	9°22	5°52	3♓59	27°59	13♒17	18°D55	17°57	14°16	n.a.	T 2
W 3	2 32 45	7°14'04	21°34	27°50	13°10	1°46	9°27	5°54	3°58	28° 1	13°17	18♈55	17°53	14°23	n.a.	W 3
T 4	2 36 42	8°15'05	4♍27	29° 2	14°26	1°43	9°32	5°55	3°57	28° 3	13°17	18°56	17°50	14°29	n.a.	T 4
F 5	2 40 39	9°16'07	17°45	0♐10	15°41	1°40	9°37	5°57	3°57	28° 5	13°17	18°58	17°47	14°36	n.a.	F 5
S 6	2 44 35	10°17'10	1♎30	1°16	16°57	1°38	9°43	5°59	3°56	28° 7	13°17	18°59	17°44	14°43	n.a.	S 6
S 7	2 48 32	11°18'15	15°42	2°18	18°12	1°37	9°49	6° 0	3°55	28°10	13°17	19°R 0	17°41	14°49	n.a.	S 7
M 8	2 52 28	12°19'21	0♏17	3°15	19°27	1°D37	9°54	6° 2	3°55	28°12	13°18	19° 0	17°38	14°56	n.a.	M 8
T 9	2 56 25	13°20'28	15°11	4° 7	20°43	1°37	10° 1	6° 3	3°55	28°14	13°18	18°58	17°34	15° 3	n.a.	T 9
W10	3 0 21	14°21'35	0♐16	4°54	21°58	1°39	10° 7	6° 4	3°54	28°16	13°18	18°55	17°31	15° 9	n.a.	W10
T 11	3 4 18	15°22'44	15°21	5°35	23°14	1°41	10°13	6° 5	3°54	28°19	13°18	18°52	17°28	15°16	n.a.	T 11
F 12	3 8 14	16°23'53	0♑19	6° 8	24°29	1°44	10°20	6° 6	3°54	28°21	13°19	18°48	17°25	15°23	n.a.	F 12
S 13	3 12 11	17°25'03	15° 0	6°33	25°45	1°47	10°26	6° 7	3°53	28°23	13°19	18°44	17°22	15°30	n.a.	S 13
S 14	3 16 8	18°26'13	29°20	6°49	27° 0	1°52	10°33	6° 8	3°53	28°25	13°19	18°41	17°18	15°36	n.a.	S 14
M15	3 20 4	19°27'23	13♒16	6°R55	28°16	1°57	10°40	6° 9	3°53	28°27	13°20	18°D40	17°15	15°43	n.a.	M15
T 16	3 24 1	20°28'34	26°48	6°51	29°31	2° 2	10°48	6° 9	3°53	28°29	13°20	18°40	17°12	15°50	n.a.	T 16
W17	3 27 57	21°29'45	9♓57	6°35	0♐46	2° 9	10°55	6°10	3°D53	28°31	13°20	18°41	17° 9	15°56	n.a.	W17
T 18	3 31 54	22°30'56	22°47	6° 8	2° 2	2°16	11° 3	6°10	3°53	28°34	13°21	18°43	17° 6	16° 3	n.a.	T 18
F 19	3 35 50	23°32'08	5♈21	5°29	3°17	2°24	11°10	6°10	3°53	28°36	13°21	18°44	17° 3	16°10	n.a.	F 19
S 20	3 39 47	24°33'20	17°42	4°39	4°33	2°33	11°18	6°R10	3°53	28°38	13°22	18°R45	16°59	16°16	n.a.	S 20
S 21	3 43 43	25°34'32	29°53	3°39	5°48	2°42	11°26	6°10	3°53	28°40	13°22	18°44	16°56	16°23	n.a.	S 21
M22	3 47 40	26°35'44	11♉57	2°30	7° 3	2°52	11°34	6°10	3°54	28°42	13°23	18°42	16°53	16°30	n.a.	M22
T 23	3 51 37	27°36'57	23°55	1°14	8°19	3° 2	11°43	6°10	3°54	28°44	13°23	18°37	16°50	16°37	n.a.	T 23
W24	3 55 33	28°38'10	5♊49	29♏53	9°34	3°14	11°51	6° 9	3°54	28°46	13°24	18°31	16°47	16°43	n.a.	W24
T 25	3 59 30	29°39'23	17°41	28°31	10°49	3°25	12° 0	6° 9	3°55	28°48	13°24	18°23	16°44	16°50	n.a.	T 25
F 26	4 3 26	0♐40'37	29°32	27° 9	12° 5	3°38	12° 8	6° 8	3°55	28°50	13°25	18°14	16°40	16°57	n.a.	F 26
S 27	4 7 23	1°41'51	11♋25	25°51	13°20	3°51	12°17	6° 8	3°56	28°52	13°26	18° 6	16°37	17° 3	n.a.	S 27
S 28	4 11 19	2°43'06	23°21	24°40	14°35	4° 4	12°26	6° 7	3°56	28°54	13°26	17°58	16°34	17°10	n.a.	S 28
M29	4 15 16	3°44'20	5♌24	23°36	15°50	4°18	12°35	6° 6	3°57	28°56	13°27	17°52	16°31	17°17	n.a.	M29
T 30	4 19 13	4♐45'36	17♌37	22♏41	17♐ 6	4♈33	12♒45	6♌ 5	3♓58	28♎58	13♒28	17♈49	16♈28	17♊24	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13s24	26n 9	5n13	21s41	2s27	14s58	0n14	0n 1	0s49	19s24	1s18	20n 6	1n 6	10s54	0s47	9s 7	1n53	30s26	14s 3	7n30	7n 8	27n 1		n.a.
T 2	13 45	22 58	4 57	22 0	2 27	15 24	0 12	0 2	0 46	19 22	1 18	20 5	1 6	10 54	0 47	9 7	1 53	30 25	14 3	7 29	7 7	27 2		n.a.
W 3	14 5	18 40	4 26	22 16	2 26	15 50	0 9	0 3	0 43	19 21	1 18	20 5	1 6	10 54	0 47	9 8	1 53	30 25	14 3	7 30	7 6	27 3		n.a.
T 4	14 25	13 25	3 42	22 31	2 25	16 15	0 7	0 5	0 40	19 19	1 18	20 5	1 6	10 54	0 47	9 9	1 53	30 25	14 3	7 30	7 5	27 5		n.a.
F 5	14 45	7 24	2 44	22 44	2 22	16 39	0 4	0 6	0 37	19 18	1 17	20 5	1 7	10 55	0 47	9 10	1 53	30 24	14 2	7 31	7 3	27 6		n.a.
S 6	15 5	0 51	1 35	22 55	2 19	17 4	0 2	0 8	0 34	19 16	1 17	20 4	1 7	10 55	0 47	9 11	1 53	30 24	14 2	7 31	7 2	27 7		n.a.
S 7	15 24	5s58	0 18	23 4	2 15	17 27	0s 0	0 10	0 31	19 14	1 17	20 4	1 7	10 55	0 47	9 11	1 53	30 24	14 2	7 32	7 1	27 8		n.a.
M 8	15 43	12 40	1s 2	23 11	2 11	17 51	0 3	0 13	0 29	19 12	1 17	20 4	1 7	10 55	0 47	9 12	1 53	30 23	14 1	7 31	7 0	27 10		n.a.
T 9	16 2	18 48	2 19	23 15	2 5	18 13	0 5	0 15	0 26	19 11	1 17	20 4	1 7	10 55	0 47	9 13	1 53	30 23	14 1	7 31	6 59	27 11		n.a.
W10	16 20	23 49	3 28	23 17	1 58	18 36	0 8	0 18	0 23	19 9	1 17	20 4	1 8	10 55	0 47	9 14	1 53	30 23	14 1	7 30	6 57	27 12		n.a.
T 11	16 38	27 14	4 22	23 17	1 49	18 58	0 10	0 22	0 21	19 7	1 16	20 4	1 8	10 55	0 47	9 14	1 53	30 22	14 0	7 28	6 56	27 13		n.a.
F 12	16 56	28 40	4 57	23 13	1 40	19 19	0 12	0 25	0 18	19 5	1 16	20 4	1 8	10 55	0 47	9 15	1 53	30 22	14 0	7 27	6 55	27 15		n.a.
S 13	17 14	28 2	5 12	23 7	1 29	19 39	0 15	0 29	0 15	19 3	1 16	20 4	1 8	10 56	0 47	9 16	1 53	30 22	14 0	7 25	6 54	27 16		n.a.
S 14	17 31	25 32	5 8	22 57	1 16	20 0	0 17	0 33	0 13	19 1	1 16	20 4	1 8	10 56	0 47	9 17	1 53	30 21	14 0	7 24	6 52	27 17		n.a.
M15	17 48	21 34	4 45	22 45	1 3	20 19	0 20	0 37	0 10	18 58	1 16	20 4	1 9	10 56	0 47	9 17	1 53	30 21	13 59	7 24	6 51	27 18		n.a.
T 16	18 5	16 35	4 7	22 29	0 47	20 38	0 22	0 42	0 8	18 56	1 15	20 4	1 9	10 56	0 47	9 18	1 53	30 20	13 59	7 24	6 50	27 19		n.a.
W17	18 21	10 57	3 16	22 10	0 31	20 57	0 24	0 47	0 6	18 54	1 15	20 4	1 9	10 56	0 47	9 19	1 53	30 20	13 59	7 24	6 49	27 21		n.a.
T 18	18 37	4 59	2 17	21 48	0 13	21 15	0 27	0 52	0 3	18 52	1 15	20 4	1 9	10 55	0 47	9 20	1 53	30 20	13 58	7 25	6 47	27 22		n.a.
F 19	18 52	1n 3	1 13	21 22	0n 6	21 32	0 29	0 57	0 1	18 49	1 15	20 4	1 9	10 55	0 47	9 20	1 53	30 19	13 58	7 25	6 46	27 23		n.a.
S 20	19 8	6 56	0 6	20 54	0 26	21 48	0 31	1 2	0n 1	18 47	1 15	20 4	1 10	10 55	0 47	9 21	1 53	30 19	13 58	7 26	6 45	27 24		n.a.
S 21	19 23	12 30	1n 0	20 23	0 46	22 4	0 34	1 8	0 3	18 45	1 15	20 5	1 10	10 55	0 47	9 22	1 53	30 18	13 57	7 26	6 44	27 25		n.a.
M22	19 37	17 33	2 3	19 49	1 6	22 20	0 36	1 14	0 5	18 42	1 14	20 5	1 10	10 55	0 47	9 23	1 53	30 18	13 57	7 25	6 43	27 27		n.a.
T 23	19 51	21 52	2 59	19 14	1 26	22 34	0 38	1 20	0 7	18 40	1 14	20 5	1 10	10 55	0 47	9 23	1 53	30 17	13 57	7 23	6 41	27 28		n.a.
W24	20 5	25 15	3 47	18 39	1 45	22 48	0 40	1 26	0 9	18 37	1 14	20 5	1 11	10 55	0 47	9 24	1 53	30 17	13 57	7 20	6 40	27 29		n.a.
T 25	20 19	27 33	4 25	18 4	2 3	23 2	0 42	1 33	0 11	18 35	1 14	20 6	1 11	10 55	0 47	9 25	1 53	30 16	13 56	7 17	6 39	27 30		n.a.
F 26	20 32	28 35	4 52	17 30	2 18	23 14	0 45	1 40	0 13	18 32	1 14	20 6	1 11	10 54	0 46	9 25	1 53	30 16	13 56	7 14	6 38	27 31		n.a.
S 27	20 45	28 18	5 6	16 59	2 32	23 26	0 47	1 47	0 15	18 29	1 14	20 6	1 11	10 54	0 46	9 26	1 53	30 16	13 56	7 11	6 36	27 32		n.a.
S 28	20 57	26 42	5 7	16 31	2 43	23 38	0 49	1 54	0 17	18 27	1 13	20 7	1 11	10 54	0 46	9 27	1 53	30 15	13 55	7 8	6 35	27 33		n.a.
M29	21 9	23 53	4 54	16 6	2 52	23 48	0 51	2 1	0 19	18 24	1 13	20 7	1 12	10 54	0 46	9 27	1 53	30 15	13 55	7 5	6 34	27 34		n.a.
T 30	21s20	19n58	4n28	15s46	2n59	23s58	0s53	2n 8	0n20	18s21	1s13	20n 8	1n12	10s53	0s46	9s28	1n53	30s14	13s55	7n 4	6n33	27n36		n.a.

Julian Day Number = 1658173.5, Delta T = 03h27m13s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°27'31, Lahiri = - 6°20'30 Julian Calendar 1 Nov. 174 BCE == Greg. Calendar 29 Oct. 174 BCE

The year -173 astronomical counting style corresponds to year 174 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 174 BCE
geocentric

DECEMBER 174 BCE (-173) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 23 9	5♐46'51	0♍ 4	21°R56	18♐21	4♈48	12♒54	6°R 4	3♓58	29♎ 0	13♒28	17°R47	16♈24	17♊30	n.a.	W 1
T 2	4 27 6	6°48'06	12°50	21♏22	19°36	5° 3	13° 4	6♌ 3	3°59	29° 2	13°29	17°D47	16°21	17°37	n.a.	T 2
F 3	4 31 2	7°49'22	25°58	20°58	20°52	5°19	13°13	6° 1	4° 0	29° 3	13°30	17♈48	16°18	17°44	n.a.	F 3
S 4	4 34 59	8°50'38	9♎33	20°44	22° 7	5°36	13°23	6° 0	4° 1	29° 5	13°31	17°49	16°15	17°50	n.a.	S 4
S 5	4 38 55	9°51'54	23°36	20°D40	23°22	5°53	13°33	5°58	4° 2	29° 7	13°32	17°R49	16°12	17°57	n.a.	S 5
M 6	4 42 52	10°53'11	8♏ 8	20°45	24°37	6°11	13°43	5°57	4° 3	29° 9	13°32	17°47	16° 9	18° 4	n.a.	M 6
T 7	4 46 48	11°54'27	23° 3	20°58	25°52	6°29	13°53	5°55	4° 4	29°11	13°33	17°43	16° 5	18°10	n.a.	T 7
W 8	4 50 45	12°55'43	8♐16	21°19	27° 8	6°47	14° 4	5°53	4° 5	29°12	13°34	17°36	16° 2	18°17	n.a.	W 8
T 9	4 54 42	13°57'00	23°37	21°46	28°23	7° 6	14°14	5°51	4° 6	29°14	13°35	17°28	15°59	18°24	n.a.	T 9
F 10	4 58 38	14°58'15	8♑53	22°20	29°38	7°25	14°24	5°49	4° 7	29°16	13°36	17°19	15°56	18°31	n.a.	F 10
S 11	5 2 35	15°59'31	23°54	23° 0	0♑53	7°45	14°35	5°47	4° 8	29°18	13°37	17°10	15°53	18°37	n.a.	S 11
S 12	5 6 31	17° 0'45	8♒31	23°45	2° 8	8° 5	14°46	5°44	4° 9	29°19	13°38	17° 2	15°50	18°44	n.a.	S 12
M13	5 10 28	18° 1'59	22°40	24°34	3°24	8°26	14°57	5°42	4°11	29°21	13°39	16°57	15°46	18°51	n.a.	M13
T 14	5 14 24	19° 3'12	6♓20	25°27	4°39	8°47	15° 8	5°40	4°12	29°23	13°40	16°54	15°43	18°57	n.a.	T 14
W15	5 18 21	20° 4'24	19°31	26°24	5°54	9° 8	15°19	5°37	4°13	29°24	13°41	16°D53	15°40	19° 4	n.a.	W15
T 16	5 22 18	21° 5'36	2♈18	27°24	7° 9	9°30	15°30	5°34	4°15	29°26	13°42	16°54	15°37	19°11	n.a.	T 16
F 17	5 26 14	22° 6'46	14°46	28°28	8°24	9°52	15°41	5°32	4°16	29°27	13°43	16°R54	15°34	19°18	n.a.	F 17
S 18	5 30 11	23° 7'56	26°58	29°33	9°39	10°14	15°53	5°29	4°18	29°29	13°44	16°54	15°30	19°24	n.a.	S 18
S 19	5 34 7	24° 9'05	9♉ 0	0♐41	10°54	10°37	16° 4	5°26	4°20	29°30	13°45	16°51	15°27	19°31	n.a.	S 19
M20	5 38 4	25°10'13	20°55	1°52	12° 9	11° 0	16°16	5°23	4°21	29°32	13°46	16°46	15°24	19°38	n.a.	M20
T 21	5 42 0	26°11'20	2♊47	3° 4	13°24	11°23	16°27	5°20	4°23	29°33	13°48	16°38	15°21	19°44	n.a.	T 21
W22	5 45 57	27°12'26	14°38	4°18	14°39	11°47	16°39	5°16	4°25	29°35	13°49	16°27	15°18	19°51	n.a.	W22
T 23	5 49 53	28°13'31	26°29	5°33	15°54	12°11	16°51	5°13	4°26	29°36	13°50	16°14	15°15	19°58	n.a.	T 23
F 24	5 53 50	29°14'36	8♋24	6°50	17° 9	12°35	17° 3	5°10	4°28	29°37	13°51	16° 0	15°11	20° 5	n.a.	F 24
S 25	5 57 47	0♑15'39	20°21	8° 8	18°24	13° 0	17°15	5° 6	4°30	29°39	13°52	15°46	15° 8	20°11	n.a.	S 25
S 26	6 1 43	1°16'42	2♌24	9°28	19°39	13°25	17°27	5° 3	4°32	29°40	13°54	15°33	15° 5	20°18	n.a.	S 26
M27	6 5 40	2°17'44	14°33	10°49	20°54	13°50	17°39	4°59	4°34	29°41	13°55	15°22	15° 2	20°25	n.a.	M27
T 28	6 9 36	3°18'45	26°51	12°11	22° 9	14°15	17°51	4°55	4°36	29°43	13°56	15°14	14°59	20°31	n.a.	T 28
W29	6 13 33	4°19'45	9♍20	13°34	23°24	14°41	18° 4	4°52	4°38	29°44	13°57	15° 9	14°56	20°38	n.a.	W29
T 30	6 17 29	5°20'45	22° 4	14°58	24°38	15° 7	18°16	4°48	4°40	29°45	13°59	15° 7	14°52	20°45	n.a.	T 30
F 31	6 21 26	6♑21'43	5♎ 7	16♐23	25♑53	15♈33	18♒29	4♌44	4♓42	29♎46	14♒ 0	15°D 6	14♈49	20♊52	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	21s31	15n 8	3n48	15s30	3n 4	24s 7	0s55	2n16	0n22	18s18	1s13	20n 8	1n12	10s53	0s46	9s29	1n53	30s14	13s55	7n 3	6n31	27n37			n.a.
T 2	21 42	9 32	2 57	15 19	3 6	24 15	0 57	2 24	0 24	18 15	1 13	20 9	1 12	10 53	0 46	9 29	1 53	30 13	13 54	7 3	6 30	27 38			n.a.
F 3	21 52	3 22	1 55	15 12	3 7	24 23	0 59	2 32	0 25	18 12	1 13	20 9	1 12	10 52	0 46	9 30	1 54	30 13	13 54	7 4	6 29	27 39			n.a.
S 4	22 2	3s 9	0 44	15 10	3 5	24 30	1 1	2 40	0 27	18 9	1 13	20 10	1 13	10 52	0 46	9 31	1 54	30 12	13 54	7 4	6 28	27 40			n.a.
S 5	22 11	9 45	0s31	15 11	3 3	24 36	1 3	2 48	0 29	18 6	1 12	20 10	1 13	10 52	0 46	9 31	1 54	30 12	13 53	7 4	6 27	27 41			n.a.
M 6	22 20	16 4	1 47	15 16	2 59	24 41	1 5	2 56	0 30	18 3	1 12	20 11	1 13	10 51	0 46	9 32	1 54	30 11	13 53	7 3	6 25	27 42			n.a.
T 7	22 29	21 36	2 57	15 24	2 54	24 45	1 6	3 5	0 32	18 0	1 12	20 12	1 13	10 51	0 46	9 32	1 54	30 11	13 53	7 2	6 24	27 43			n.a.
W 8	22 37	25 50	3 56	15 35	2 49	24 49	1 8	3 14	0 33	17 57	1 12	20 12	1 14	10 50	0 46	9 33	1 54	30 10	13 53	6 59	6 23	27 44			n.a.
T 9	22 44	28 12	4 39	15 49	2 42	24 52	1 10	3 22	0 34	17 54	1 12	20 13	1 14	10 50	0 46	9 34	1 54	30 9	13 52	6 56	6 22	27 45			n.a.
F 10	22 52	28 26	5 1	16 4	2 35	24 54	1 11	3 31	0 36	17 51	1 12	20 14	1 14	10 50	0 46	9 34	1 54	30 9	13 52	6 52	6 20	27 46			n.a.
S 11	22 58	26 32	5 2	16 21	2 28	24 56	1 13	3 41	0 37	17 47	1 12	20 15	1 14	10 49	0 46	9 35	1 54	30 8	13 52	6 49	6 19	27 47			n.a.
S 12	23 5	22 54	4 44	16 40	2 20	24 57	1 15	3 50	0 38	17 44	1 11	20 15	1 14	10 49	0 46	9 35	1 54	30 8	13 52	6 46	6 18	27 48			n.a.
M13	23 10	18 1	4 8	17 0	2 12	24 56	1 16	3 59	0 40	17 41	1 11	20 16	1 15	10 48	0 46	9 36	1 54	30 7	13 51	6 44	6 17	27 49			n.a.
T 14	23 16	12 22	3 19	17 21	2 3	24 56	1 17	4 9	0 41	17 37	1 11	20 17	1 15	10 47	0 46	9 36	1 54	30 7	13 51	6 43	6 15	27 50			n.a.
W15	23 21	6 21	2 21	17 43	1 55	24 54	1 19	4 18	0 42	17 34	1 11	20 18	1 15	10 47	0 46	9 37	1 54	30 6	13 51	6 43	6 14	27 51			n.a.
T 16	23 25	0 15	1 17	18 5	1 46	24 51	1 20	4 28	0 43	17 30	1 11	20 19	1 15	10 46	0 46	9 37	1 54	30 6	13 51	6 43	6 13	27 52			n.a.
F 17	23 29	5n42	0 11	18 28	1 37	24 48	1 21	4 38	0 44	17 27	1 11	20 20	1 15	10 46	0 46	9 38	1 54	30 5	13 50	6 43	6 12	27 53			n.a.
S 18	23 32	11 20	0n53	18 51	1 29	24 44	1 23	4 48	0 46	17 23	1 11	20 20	1 16	10 45	0 46	9 38	1 54	30 5	13 50	6 43	6 10	27 54			n.a.
S 19	23 35	16 28	1 55	19 14	1 20	24 39	1 24	4 58	0 47	17 20	1 11	20 21	1 16	10 45	0 46	9 39	1 54	30 4	13 50	6 42	6 9	27 55			n.a.
M20	23 38	20 56	2 50	19 37	1 11	24 34	1 25	5 8	0 48	17 16	1 11	20 22	1 16	10 44	0 46	9 39	1 54	30 3	13 50	6 40	6 8	27 56			n.a.
T 21	23 40	24 31	3 38	20 0	1 2	24 28	1 26	5 18	0 49	17 12	1 10	20 23	1 16	10 43	0 46	9 40	1 54	30 3	13 50	6 37	6 7	27 57			n.a.
W22	23 41	27 3	4 16	20 22	0 54	24 21	1 27	5 29	0 50	17 9	1 10	20 24	1 16	10 43	0 45	9 40	1 54	30 2	13 49	6 32	6 5	27 58			n.a.
T 23	23 42	28 23	4 43	20 45	0 45	24 13	1 28	5 39	0 51	17 5	1 10	20 25	1 16	10 42	0 45	9 41	1 54	30 2	13 49	6 27	6 4	27 58			n.a.
F 24	23 43	28 24	4 58	21 6	0 36	24 4	1 29	5 49	0 52	17 1	1 10	20 26	1 17	10 41	0 45	9 41	1 54	30 1	13 49	6 22	6 3	27 59			n.a.
S 25	23 43	27 5	4 59	21 28	0 28	23 55	1 30	6 0	0 53	16 57	1 10	20 27	1 17	10 40	0 45	9 42	1 55	30 1	13 49	6 16	6 2	28 0			n.a.
S 26	23 43	24 31	4 48	21 48	0 20	23 45	1 30	6 11	0 54	16 54	1 10	20 28	1 17	10 40	0 45	9 42	1 55	30 0	13 49	6 11	6 1	28 1			n.a.
M27	23 42	20 50	4 23	22 8	0 12	23 34	1 31	6 21	0 55	16 50	1 10	20 29	1 17	10 39	0 45	9 42	1 55	30 0	13 48	6 7	5 59	28 2			n.a.
T 28	23 41	16 14	3 46	22 27	0 4	23 23	1 32	6 32	0 55	16 46	1 10	20 30	1 17	10 38	0 45	9 43	1 55	29 59	13 48	6 4	5 58	28 3			n.a.
W29	23 39	10 53	2 57	22 46	0s 4	23 11	1 32	6 43	0 56	16 42	1 10	20 31	1 18	10 37	0 45	9 43	1 55	29 58	13 48	6 2	5 57	28 4			n.a.
T 30	23 37	5 0	1 59	23 3	0 12	22 58	1 33	6 54	0 57	16 38	1 10	20 33	1 18	10 37	0 45	9 44	1 55	29 58	13 48	6 1	5 56	28 5			n.a.
F 31	23s34	1s15	0n53	23s20	0s19	22s44	1s33	7n 5	0n58	16s34	1s 9	20n34	1n18	10s36	0s45	9s44	1n55	29s57	13s48	6n 1	5n54	28n 5			n.a.

Julian Day Number = 1658203.5, Delta T = 03h27m12s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°27'27, Lahiri = - 6°20'26 Julian Calendar 1 Dec. 174 BCE == Greg. Calendar 28 Nov. 174 BCE

The year -173 astronomical counting style corresponds to year 174 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 173 BCE
geocentric

JANUARY 173 BCE (-172) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 25 22	7♑22'41	18♎32	17♐49	27♑ 8	16♈ 0	18♒41	4°R40	4♓44	29♎47	14♒ 1	15°R 6	14♈46	20♊58	n.a.	S 1
S 2	6 29 19	8°23'38	2♏21	19°16	28°23	16°26	18°54	4♌36	4°47	29°48	14° 3	15♈ 6	14°43	21° 5	n.a.	S 2
M 3	6 33 16	9°24'34	16°38	20°43	29°38	16°53	19° 7	4°32	4°49	29°50	14° 4	15° 3	14°40	21°12	n.a.	M 3
T 4	6 37 12	10°25'29	1♐19	22°12	0♒52	17°20	19°19	4°28	4°51	29°51	14° 5	14°57	14°36	21°18	n.a.	T 4
W 5	6 41 9	11°26'23	16°21	23°41	2° 7	17°48	19°32	4°24	4°53	29°52	14° 7	14°49	14°33	21°25	n.a.	W 5
T 6	6 45 5	12°27'17	1♑36	25°11	3°22	18°15	19°45	4°19	4°56	29°53	14° 8	14°38	14°30	21°32	n.a.	T 6
F 7	6 49 2	13°28'08	16°52	26°42	4°36	18°43	19°58	4°15	4°58	29°54	14°10	14°27	14°27	21°39	n.a.	F 7
S 8	6 52 58	14°28'59	1♒58	28°14	5°51	19°11	20°11	4°11	5° 1	29°54	14°11	14°15	14°24	21°45	n.a.	S 8
S 9	6 56 55	15°29'48	16°44	29°46	7° 6	19°39	20°25	4° 6	5° 3	29°55	14°13	14° 5	14°21	21°52	n.a.	S 9
M10	7 0 52	16°30'35	1♓ 4	1♑20	8°20	20° 8	20°38	4° 2	5° 6	29°56	14°14	13°57	14°17	21°59	n.a.	M10
T 11	7 4 48	17°31'20	14°53	2°54	9°35	20°36	20°51	3°57	5° 8	29°57	14°15	13°52	14°14	22° 5	n.a.	T 11
W12	7 8 45	18°32'04	28°13	4°29	10°49	21° 5	21° 4	3°53	5°11	29°58	14°17	13°50	14°11	22°12	n.a.	W12
T 13	7 12 41	19°32'46	11♈ 6	6° 5	12° 4	21°34	21°18	3°48	5°13	29°59	14°18	13°49	14° 8	22°19	n.a.	T 13
F 14	7 16 38	20°33'26	23°35	7°41	13°18	22° 3	21°31	3°44	5°16	29°59	14°20	13°49	14° 5	22°26	n.a.	F 14
S 15	7 20 34	21°34'04	5♉48	9°18	14°33	22°32	21°45	3°39	5°19	29°59	14°21	13°49	14° 2	22°32	n.a.	S 15
S 16	7 24 31	22°34'40	17°48	10°57	15°47	23° 2	21°58	3°34	5°21	0♏ 1	14°23	13°46	13°58	22°39	n.a.	S 16
M17	7 28 27	23°35'15	29°40	12°36	17° 1	23°31	22°12	3°30	5°24	0° 1	14°24	13°41	13°55	22°46	n.a.	M17
T 18	7 32 24	24°35'48	11♊30	14°16	18°16	24° 1	22°25	3°25	5°27	0° 2	14°26	13°33	13°52	22°52	n.a.	T 18
W19	7 36 21	25°36'19	23°21	15°57	19°30	24°31	22°39	3°20	5°30	0° 2	14°27	13°23	13°49	22°59	n.a.	W19
T 20	7 40 17	26°36'48	5♋14	17°38	20°44	25° 1	22°53	3°15	5°32	0° 3	14°29	13°10	13°46	23° 6	n.a.	T 20
F 21	7 44 14	27°37'15	17°13	19°21	21°58	25°32	23° 7	3°11	5°35	0° 3	14°30	12°56	13°42	23°13	n.a.	F 21
S 22	7 48 10	28°37'41	29°19	21° 5	23°13	26° 2	23°20	3° 6	5°38	0° 4	14°32	12°42	13°39	23°19	n.a.	S 22
S 23	7 52 7	29°38'05	11♌33	22°49	24°27	26°32	23°34	3° 1	5°41	0° 4	14°34	12°29	13°36	23°26	n.a.	S 23
M24	7 56 3	0♒38'27	23°54	24°35	25°41	27° 3	23°48	2°56	5°44	0° 5	14°35	12°19	13°33	23°33	n.a.	M24
T 25	8 0 0	1°38'47	6♍25	26°21	26°55	27°34	24° 2	2°51	5°47	0° 5	14°37	12°11	13°30	23°39	n.a.	T 25
W26	8 3 56	2°39'06	19° 6	28° 9	28° 9	28° 5	24°16	2°47	5°50	0° 5	14°38	12° 6	13°27	23°46	n.a.	W26
T 27	8 7 53	3°39'22	2♎ 0	29°57	29°23	28°36	24°30	2°42	5°53	0° 6	14°40	12° 3	13°23	23°53	n.a.	T 27
F 28	8 11 50	4°39'38	15° 7	1♒47	0♓37	29° 7	24°44	2°37	5°56	0° 6	14°41	12°D 3	13°20	24° 0	n.a.	F 28
S 29	8 15 46	5°39'51	28°31	3°37	1°51	29°38	24°58	2°32	5°59	0° 6	14°43	12° 3	13°17	24° 6	n.a.	S 29
S 30	8 19 43	6°40'04	12♏14	5°29	3° 5	0♉10	25°12	2°27	6° 2	0° 6	14°45	12°R 3	13°14	24°13	n.a.	S 30
M31	8 23 39	7♒40'14	26♏18	7♒21	4♓18	0♉41	25♒26	2♌22	6♓ 5	0♏ 6	14♒46	12♈ 2	13♈11	24♊20	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s31	7s37	0s18	23s36	0s27	22s30	1s33	7n16	0n59	16s30	1s 9	20n35	1n18	10s35	0s45	9s44	1n55	29s57	13s48	6n 1	5n53	28n 6		n.a.
S 2	23 27	13 50	1 30	23 50	0 34	22 15	1 34	7 27	1 0	16 26	1 9	20 36	1 18	10 34	0 45	9 45	1 55	29 56	13 47	6 1	5 52	28 7		n.a.
M 3	23 23	19 31	2 38	24 4	0 41	22 0	1 34	7 38	1 0	16 22	1 9	20 37	1 18	10 33	0 45	9 45	1 55	29 55	13 47	6 0	5 51	28 8		n.a.
T 4	23 18	24 13	3 38	24 16	0 47	21 44	1 34	7 49	1 1	16 18	1 9	20 38	1 19	10 32	0 45	9 45	1 55	29 55	13 47	5 58	5 49	28 9		n.a.
W 5	23 13	27 23	4 24	24 28	0 54	21 27	1 34	8 1	1 2	16 13	1 9	20 39	1 19	10 31	0 45	9 46	1 55	29 54	13 47	5 54	5 48	28 10		n.a.
T 6	23 8	28 35	4 52	24 38	1 0	21 9	1 34	8 12	1 2	16 9	1 9	20 41	1 19	10 31	0 45	9 46	1 55	29 54	13 47	5 50	5 47	28 10		n.a.
F 7	23 2	27 35	5 0	24 47	1 6	20 51	1 34	8 23	1 3	16 5	1 9	20 42	1 19	10 30	0 45	9 46	1 55	29 53	13 47	5 45	5 46	28 11		n.a.
S 8	22 55	24 35	4 46	24 54	1 12	20 33	1 34	8 35	1 4	16 1	1 9	20 43	1 19	10 29	0 45	9 46	1 55	29 53	13 46	5 41	5 44	28 12		n.a.
S 9	22 48	20 1	4 13	25 0	1 17	20 13	1 34	8 46	1 5	15 56	1 9	20 44	1 19	10 28	0 45	9 47	1 55	29 52	13 46	5 37	5 43	28 13		n.a.
M10	22 41	14 25	3 25	25 5	1 23	19 54	1 33	8 58	1 5	15 52	1 9	20 45	1 19	10 27	0 45	9 47	1 55	29 51	13 46	5 34	5 42	28 14		n.a.
T 11	22 33	8 16	2 26	25 9	1 28	19 33	1 33	9 9	1 6	15 48	1 9	20 47	1 20	10 26	0 45	9 47	1 56	29 51	13 46	5 32	5 41	28 14		n.a.
W12	22 25	1 58	1 21	25 11	1 32	19 12	1 33	9 21	1 6	15 43	1 9	20 48	1 20	10 25	0 45	9 47	1 56	29 50	13 46	5 31	5 39	28 15		n.a.
T 13	22 17	4n13	0 14	25 11	1 37	18 51	1 32	9 32	1 7	15 39	1 9	20 49	1 20	10 24	0 45	9 48	1 56	29 50	13 46	5 31	5 38	28 16		n.a.
F 14	22 8	10 3	0n51	25 10	1 41	18 29	1 32	9 44	1 8	15 34	1 8	20 50	1 20	10 23	0 45	9 48	1 56	29 49	13 46	5 31	5 37	28 16		n.a.
S 15	21 58	15 23	1 53	25 7	1 45	18 6	1 31	9 55	1 8	15 30	1 8	20 52	1 20	10 22	0 45	9 48	1 56	29 49	13 46	5 31	5 36	28 17		n.a.
S 16	21 48	20 2	2 49	25 3	1 48	17 43	1 30	10 7	1 9	15 25	1 8	20 53	1 20	10 21	0 45	9 48	1 56	29 48	13 46	5 30	5 34	28 18		n.a.
M17	21 38	23 51	3 37	24 57	1 51	17 20	1 29	10 19	1 9	15 21	1 8	20 54	1 20	10 20	0 45	9 48	1 56	29 48	13 45	5 28	5 33	28 19		n.a.
T 18	21 27	26 38	4 15	24 50	1 54	16 56	1 29	10 30	1 10	15 16	1 8	20 55	1 20	10 19	0 45	9 48	1 56	29 47	13 45	5 25	5 32	28 19		n.a.
W19	21 16	28 15	4 42	24 41	1 56	16 32	1 28	10 42	1 10	15 12	1 8	20 57	1 21	10 18	0 45	9 49	1 56	29 46	13 45	5 20	5 31	28 20		n.a.
T 20	21 5	28 34	4 57	24 30	1 58	16 7	1 27	10 53	1 11	15 7	1 8	20 58	1 21	10 17	0 45	9 49	1 56	29 46	13 45	5 15	5 29	28 21		n.a.
F 21	20 53	27 32	4 59	24 17	2 0	15 42	1 26	11 5	1 11	15 3	1 8	20 59	1 21	10 16	0 45	9 49	1 56	29 45	13 45	5 10	5 28	28 21		n.a.
S 22	20 40	25 13	4 48	24 2	2 1	15 16	1 24	11 17	1 12	14 58	1 8	21 0	1 21	10 14	0 45	9 49	1 56	29 45	13 45	5 4	5 27	28 22		n.a.
S 23	20 28	21 43	4 23	23 46	2 2	14 50	1 23	11 28	1 12	14 53	1 8	21 1	1 21	10 13	0 45	9 49	1 56	29 44	13 45	4 59	5 26	28 23		n.a.
M24	20 15	17 15	3 46	23 28	2 3	14 23	1 22	11 40	1 13	14 49	1 8	21 3	1 21	10 12	0 44	9 49	1 56	29 44	13 45	4 55	5 24	28 23		n.a.
T 25	20 2	12 0	2 57	23 8	2 3	13 57	1 21	11 52	1 13	14 44	1 8	21 4	1 21	10 11	0 44	9 49	1 56	29 43	13 45	4 52	5 23	28 24		n.a.
W26	19 48	6 10	1 59	22 46	2 2	13 30	1 19	12 3	1 13	14 39	1 8	21 5	1 21	10 10	0 44	9 49	1 56	29 43	13 45	4 50	5 22	28 25		n.a.
T 27	19 34	0 1	0 53	22 22	2 1	13 2	1 18	12 15	1 14	14 34	1 8	21 6	1 21	10 9	0 44	9 49	1 57	29 42	13 45	4 49	5 21	28 25		n.a.
F 28	19 19	6s16	0s16	21 56	2 0	12 34	1 16	12 27	1 14	14 30	1 8	21 8	1 22	10 8	0 44	9 49	1 57	29 42	13 45	4 49	5 19	28 26		n.a.
S 29	19 4	12 25	1 26	21 29	1 58	12 6	1 15	12 38	1 15	14 25	1 8	21 9	1 22	10 7	0 44	9 49	1 57	29 41	13 45	4 49	5 18	28 26		n.a.
S 30	18 49	18 7	2 33	20 59	1 55	11 38	1 13	12 50	1 15	14 20	1 8	21 10	1 22	10 5	0 44	9 49	1 57	29 40	13 45	4 49	5 17	28 27		n.a.
M31	18s34	22s59	3s33	20s28	1s52	11s 9	1s11	13n 1	1n15	14s15	1s 8	21n11	1n22	10s 4	0s44	9s49	1n57	29s40	13s45	4n49	5n16	28n28		n.a.

Julian Day Number = 1658234.5, Delta T = 03h27m11s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°27'22, Lahiri = - 6°20'22 Julian Calendar 1 Jan. 173 BCE == Greg. Calendar 29 Dec. 174 BCE

The year -172 astronomical counting style corresponds to year 173 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 173 BCE
geocentric

FEBRUARY 173 BCE (-172) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 27 36	8♒40'23	10♐41	9♒14	5♓32	1♉13	25♒41	2°R18	6♓ 8	0♏ 7	14♒48	11°R58	13♈ 8	24♊26	n.a.	T 1
W 2	8 31 32	9°40'31	25°22	11° 8	6°46	1°44	25°55	2♌13	6°11	0° 7	14°49	11♈52	13° 4	24°33	n.a.	W 2
T 3	8 35 29	10°40'37	10♑14	13° 3	8° 0	2°16	26° 9	2° 8	6°15	0° 7	14°51	11°44	13° 1	24°40	n.a.	T 3
F 4	8 39 25	11°40'40	25°11	14°59	9°13	2°48	26°23	2° 3	6°18	0°R 7	14°53	11°34	12°58	24°47	n.a.	F 4
S 5	8 43 22	12°40'42	10♒ 2	16°55	10°27	3°20	26°37	1°59	6°21	0° 7	14°54	11°25	12°55	24°53	n.a.	S 5
S 6	8 47 19	13°40'42	24°40	18°52	11°40	3°53	26°52	1°54	6°24	0° 7	14°56	11°16	12°52	25° 0	n.a.	S 6
M 7	8 51 15	14°40'40	8♓57	20°49	12°54	4°25	27° 6	1°49	6°27	0° 7	14°57	11°10	12°48	25° 7	n.a.	M 7
T 8	8 55 12	15°40'35	22°48	22°46	14° 7	4°57	27°20	1°45	6°31	0° 6	14°59	11° 6	12°45	25°13	n.a.	T 8
W 9	8 59 8	16°40'29	6♈12	24°43	15°21	5°30	27°35	1°40	6°34	0° 6	15° 1	11°D 4	12°42	25°20	n.a.	W 9
T 10	9 3 5	17°40'20	19°10	26°40	16°34	6° 2	27°49	1°36	6°37	0° 6	15° 2	11° 5	12°39	25°27	n.a.	T 10
F 11	9 7 1	18°40'08	1♉46	28°37	17°47	6°35	28° 4	1°31	6°40	0° 6	15° 4	11° 6	12°36	25°34	n.a.	F 11
S 12	9 10 58	19°39'55	14° 2	0♓32	19° 1	7° 8	28°18	1°27	6°44	0° 6	15° 5	11°R 7	12°33	25°40	n.a.	S 12
S 13	9 14 54	20°39'39	26° 5	2°27	20°14	7°40	28°32	1°22	6°47	0° 5	15° 7	11° 7	12°29	25°47	n.a.	S 13
M14	9 18 51	21°39'20	8♊ 0	4°19	21°27	8°13	28°47	1°18	6°50	0° 5	15° 9	11° 5	12°26	25°54	n.a.	M14
T 15	9 22 48	22°39'00	19°51	6°10	22°40	8°46	29° 1	1°13	6°54	0° 5	15°10	11° 1	12°23	26° 0	n.a.	T 15
W16	9 26 44	23°38'37	1♋43	7°59	23°53	9°19	29°16	1° 9	6°57	0° 4	15°12	10°55	12°20	26° 7	n.a.	W16
T 17	9 30 41	24°38'12	13°39	9°44	25° 6	9°53	29°30	1° 5	7° 0	0° 4	15°13	10°48	12°17	26°14	n.a.	T 17
F 18	9 34 37	25°37'44	25°44	11°26	26°19	10°26	29°45	1° 1	7° 4	0° 3	15°15	10°40	12°14	26°21	n.a.	F 18
S 19	9 38 34	26°37'14	7♌58	13° 5	27°31	10°59	29°59	0°57	7° 7	0° 3	15°17	10°31	12°10	26°27	n.a.	S 19
S 20	9 42 30	27°36'42	20°23	14°39	28°44	11°32	0♓14	0°53	7°11	0° 2	15°18	10°23	12° 7	26°34	n.a.	S 20
M21	9 46 27	28°36'08	3♍ 1	16° 9	29°57	12° 6	0°28	0°49	7°14	0° 2	15°20	10°17	12° 4	26°41	n.a.	M21
T 22	9 50 23	29°35'31	15°50	17°33	1♈ 9	12°39	0°42	0°45	7°17	0° 1	15°21	10°12	12° 1	26°47	n.a.	T 22
W23	9 54 20	0♓34'53	28°51	18°52	2°22	13°13	0°57	0°41	7°21	0° 1	15°23	10°10	11°58	26°54	n.a.	W23
T 24	9 58 16	1°34'12	12♎ 4	20° 5	3°34	13°46	1°11	0°37	7°24	0° 0	15°24	10°D 9	11°54	27° 1	n.a.	T 24
F 25	10 2 13	2°33'29	25°29	21°11	4°47	14°20	1°26	0°33	7°28	29♎59	15°26	10°10	11°51	27° 8	n.a.	F 25
S 26	10 6 10	3°32'45	9♏ 6	22°12	5°59	14°54	1°40	0°30	7°31	29°59	15°28	10°12	11°48	27°14	n.a.	S 26
S 27	10 10 6	4°31'59	22°55	23° 5	7°11	15°28	1°55	0°26	7°34	29°58	15°29	10°13	11°45	27°21	n.a.	S 27
M28	10 14 3	5°31'11	6♐56	23°52	8°24	16° 1	2° 9	0°23	7°38	29°57	15°31	10°R13	11°42	27°28	n.a.	M28
T 29	10 17 59	6♓30'21	21♐ 9	24♓31	9♈36	16♉35	2♓24	0♌19	7♓41	29♎56	15♒32	10♈13	11♈39	27♊35	n.a.	T 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s18	26s36	4s20	19s54	1s49	10s40	1s 9	13n13	1n16	14s10	1s 8	21n12	1n22	10s 3	0s44	9s49	1n57	29s39	13s45	4n47	5n14	28n28		n.a.
W 2	18 2	28 29	4 51	19 19	1 45	10 10	1 7	13 24	1 16	14 5	1 8	21 14	1 22	10 2	0 44	9 49	1 57	29 39	13 45	4 45	5 13	28 29		n.a.
T 3	17 46	28 22	5 3	18 41	1 40	9 41	1 5	13 36	1 16	14 0	1 8	21 15	1 22	10 1	0 44	9 49	1 57	29 38	13 45	4 41	5 12	28 29		n.a.
F 4	17 29	26 11	4 55	18 2	1 35	9 11	1 3	13 47	1 17	13 56	1 8	21 16	1 22	9 59	0 44	9 49	1 57	29 38	13 45	4 38	5 11	28 30		n.a.
S 5	17 12	22 13	4 27	17 21	1 29	8 41	1 1	13 59	1 17	13 51	1 8	21 17	1 22	9 58	0 44	9 49	1 57	29 37	13 45	4 34	5 9	28 31		n.a.
S 6	16 55	16 55	3 41	16 39	1 22	8 11	0 59	14 10	1 17	13 46	1 8	21 18	1 22	9 57	0 44	9 49	1 57	29 37	13 45	4 31	5 8	28 31		n.a.
M 7	16 37	10 49	2 43	15 55	1 15	7 40	0 57	14 21	1 18	13 41	1 8	21 19	1 22	9 56	0 44	9 49	1 57	29 36	13 45	4 28	5 7	28 32		n.a.
T 8	16 19	4 22	1 36	15 9	1 7	7 10	0 55	14 33	1 18	13 36	1 8	21 20	1 22	9 55	0 44	9 49	1 57	29 36	13 45	4 27	5 6	28 32		n.a.
W 9	16 1	2n 6	0 26	14 21	0 59	6 39	0 53	14 44	1 18	13 31	1 8	21 21	1 22	9 53	0 44	9 49	1 57	29 35	13 45	4 26	5 4	28 33		n.a.
T 10	15 43	8 16	0n43	13 33	0 50	6 8	0 50	14 55	1 19	13 26	1 8	21 23	1 22	9 52	0 44	9 49	1 57	29 35	13 45	4 26	5 3	28 33		n.a.
F 11	15 24	13 55	1 49	12 43	0 40	5 37	0 48	15 7	1 19	13 21	1 8	21 24	1 22	9 51	0 44	9 48	1 57	29 35	13 45	4 26	5 2	28 34		n.a.
S 12	15 5	18 54	2 48	11 53	0 30	5 6	0 45	15 18	1 19	13 16	1 8	21 25	1 22	9 50	0 44	9 48	1 58	29 34	13 45	4 27	5 1	28 34		n.a.
S 13	14 46	23 1	3 38	11 1	0 19	4 34	0 43	15 29	1 19	13 10	1 8	21 26	1 23	9 48	0 44	9 48	1 58	29 34	13 45	4 27	4 59	28 35		n.a.
M14	14 27	26 8	4 18	10 9	0 8	4 3	0 40	15 40	1 20	13 5	1 8	21 27	1 23	9 47	0 44	9 48	1 58	29 33	13 45	4 26	4 58	28 35		n.a.
T 15	14 7	28 5	4 47	9 17	0n 4	3 31	0 38	15 51	1 20	13 0	1 8	21 28	1 23	9 46	0 44	9 48	1 58	29 33	13 45	4 25	4 57	28 36		n.a.
W16	13 48	28 46	5 3	8 25	0 16	3 0	0 35	16 2	1 20	12 55	1 8	21 29	1 23	9 45	0 44	9 48	1 58	29 32	13 45	4 22	4 56	28 36		n.a.
T 17	13 28	28 6	5 7	7 34	0 29	2 28	0 32	16 13	1 20	12 50	1 8	21 30	1 23	9 43	0 44	9 47	1 58	29 32	13 45	4 19	4 54	28 36		n.a.
F 18	13 8	26 6	4 57	6 43	0 42	1 56	0 30	16 24	1 20	12 45	1 8	21 31	1 23	9 42	0 44	9 47	1 58	29 31	13 45	4 16	4 53	28 37		n.a.
S 19	12 47	22 53	4 33	5 53	0 55	1 24	0 27	16 34	1 21	12 40	1 8	21 32	1 23	9 41	0 44	9 47	1 58	29 31	13 46	4 13	4 52	28 37		n.a.
S 20	12 27	18 35	3 56	5 4	1 8	0 52	0 24	16 45	1 21	12 35	1 8	21 32	1 23	9 39	0 44	9 47	1 58	29 31	13 46	4 10	4 51	28 38		n.a.
M21	12 6	13 25	3 7	4 17	1 21	0 21	0 21	16 56	1 21	12 30	1 8	21 33	1 23	9 38	0 44	9 46	1 58	29 30	13 46	4 7	4 49	28 38		n.a.
T 22	11 45	7 37	2 8	3 32	1 34	0n11	0 18	17 6	1 21	12 24	1 8	21 34	1 23	9 37	0 44	9 46	1 58	29 30	13 46	4 5	4 48	28 39		n.a.
W23	11 24	1 24	1 1	2 49	1 47	0 43	0 15	17 17	1 21	12 19	1 8	21 35	1 23	9 36	0 44	9 46	1 58	29 29	13 46	4 4	4 47	28 39		n.a.
T 24	11 2	4s59	0s10	2 9	1 59	1 15	0 12	17 27	1 22	12 14	1 8	21 36	1 23	9 34	0 44	9 46	1 58	29 29	13 46	4 4	4 46	28 39		n.a.
F 25	10 41	11 14	1 22	1 31	2 12	1 47	0 9	17 38	1 22	12 9	1 8	21 37	1 23	9 33	0 44	9 45	1 58	29 29	13 46	4 4	4 44	28 40		n.a.
S 26	10 19	17 4	2 31	0 57	2 23	2 19	0 6	17 48	1 22	12 4	1 8	21 38	1 23	9 32	0 44	9 45	1 58	29 28	13 46	4 5	4 43	28 40		n.a.
S 27	9 58	22 7	3 32	0 25	2 34	2 50	0 3	17 58	1 22	11 58	1 8	21 38	1 23	9 30	0 44	9 45	1 58	29 28	13 46	4 5	4 42	28 41		n.a.
M28	9 36	26 0	4 21	0n 3	2 44	3 22	0n 0	18 8	1 22	11 53	1 8	21 39	1 23	9 29	0 44	9 44	1 58	29 28	13 47	4 6	4 41	28 41		n.a.
T 29	9s14	28s19	4s55	0n27	2n54	3n54	0n 3	18n18	1n22	11s48	1s 8	21n40	1n23	9s28	0s44	9s44	1n59	29s27	13s47	4n 5	4n39	28n41		n.a.

Julian Day Number = 1658265.5, Delta T = 03h27m10s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°27'18, Lahiri = - 6°20'18 Julian Calendar 1 Feb. 173 BCE == Greg. Calendar 29 Jan. 173 BCE

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ASTRODIENST EPHEMERIS for the year 173 BCE
geocentric

MARCH 173 BCE (-172) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	10 21 56	7♓29'29	5♉31	25♓ 4	10♈48	17♉ 9	2♓38	0°R16	7♓45	29°R56	15♒34	10°R10	11♈35	27♊41	n.a.	W 1
T 2	10 25 52	8°28'36	19°58	25°29	12° 0	17°43	2°53	0♌13	7°48	29♎55	15°35	10♈ 7	11°32	27°48	n.a.	T 2
F 3	10 29 49	9°27'40	4♒27	25°46	13°12	18°18	3° 7	0° 9	7°52	29°54	15°37	10° 2	11°29	27°55	n.a.	F 3
S 4	10 33 45	10°26'43	18°52	25°57	14°24	18°52	3°21	0° 6	7°55	29°53	15°38	9°58	11°26	28° 1	n.a.	S 4
S 5	10 37 42	11°25'44	3♓ 6	26°R 1	15°35	19°26	3°36	0° 3	7°58	29°52	15°40	9°54	11°23	28° 8	n.a.	S 5
M 6	10 41 39	12°24'42	17° 4	25°57	16°47	20° 0	3°50	0° 0	8° 2	29°51	15°41	9°51	11°20	28°15	n.a.	M 6
T 7	10 45 35	13°23'38	0♈44	25°47	17°59	20°35	4° 5	29♋57	8° 5	29°50	15°43	9°49	11°16	28°22	n.a.	T 7
W 8	10 49 32	14°22'32	14° 2	25°31	19°10	21° 9	4°19	29°55	8° 9	29°49	15°44	9°D49	11°13	28°28	n.a.	W 8
T 9	10 53 28	15°21'24	26°58	25° 9	20°22	21°43	4°33	29°52	8°12	29°48	15°45	9°50	11°10	28°35	n.a.	T 9
F 10	10 57 25	16°20'13	9♉35	24°42	21°33	22°18	4°48	29°49	8°16	29°47	15°47	9°51	11° 7	28°42	n.a.	F 10
S 11	11 1 21	17°19'01	21°54	24° 9	22°44	22°52	5° 2	29°47	8°19	29°46	15°48	9°53	11° 4	28°48	n.a.	S 11
S 12	11 5 18	18°17'46	4♊ 0	23°33	23°56	23°27	5°16	29°45	8°22	29°45	15°50	9°54	11° 0	28°55	n.a.	S 12
M13	11 9 14	19°16'28	15°57	22°54	25° 7	24° 2	5°31	29°42	8°26	29°44	15°51	9°R55	10°57	29° 2	n.a.	M13
T 14	11 13 11	20°15'09	27°50	22°12	26°18	24°36	5°45	29°40	8°29	29°43	15°52	9°55	10°54	29° 9	n.a.	T 14
W15	11 17 8	21°13'47	9♋43	21°29	27°29	25°11	5°59	29°38	8°32	29°42	15°54	9°54	10°51	29°15	n.a.	W15
T 16	11 21 4	22°12'22	21°42	20°44	28°40	25°46	6°13	29°36	8°36	29°40	15°55	9°52	10°48	29°22	n.a.	T 16
F 17	11 25 1	23°10'56	3♌50	20° 0	29°50	26°20	6°27	29°34	8°39	29°39	15°56	9°50	10°45	29°29	n.a.	F 17
S 18	11 28 57	24° 9'27	16°10	19°16	1♉ 1	26°55	6°41	29°32	8°42	29°38	15°58	9°47	10°41	29°36	n.a.	S 18
S 19	11 32 54	25° 7'56	28°45	18°35	2°11	27°30	6°56	29°31	8°46	29°37	15°59	9°45	10°38	29°42	n.a.	S 19
M20	11 36 50	26° 6'23	11♍36	17°55	3°22	28° 5	7°10	29°29	8°49	29°35	16° 0	9°43	10°35	29°49	n.a.	M20
T 21	11 40 47	27° 4'48	24°44	17°18	4°32	28°40	7°24	29°27	8°52	29°34	16° 2	9°42	10°32	29°56	n.a.	T 21
W22	11 44 43	28° 3'10	8♎ 7	16°45	5°42	29°15	7°38	29°26	8°56	29°33	16° 3	9°D42	10°29	0♋ 2	n.a.	W22
T 23	11 48 40	29° 1'31	21°46	16°16	6°52	29°50	7°52	29°25	8°59	29°32	16° 4	9°42	10°25	0° 9	n.a.	T 23
F 24	11 52 36	29°59'50	5♏36	15°51	8° 2	0♊25	8° 6	29°23	9° 2	29°30	16° 5	9°43	10°22	0°16	n.a.	F 24
S 25	11 56 33	0♈58'08	19°37	15°30	9°12	1° 0	8°19	29°22	9° 5	29°29	16° 7	9°43	10°19	0°23	n.a.	S 25
S 26	12 0 30	1°56'24	3♐45	15°15	10°22	1°35	8°33	29°21	9° 9	29°27	16° 8	9°44	10°16	0°29	n.a.	S 26
M27	12 4 26	2°54'38	17°57	15° 4	11°32	2°10	8°47	29°20	9°12	29°26	16° 9	9°45	10°13	0°36	n.a.	M27
T 28	12 8 23	3°52'50	2♉11	14°58	12°41	2°46	9° 1	29°20	9°15	29°25	16°10	9°R45	10°10	0°43	n.a.	T 28
W29	12 12 19	4°51'02	16°24	14°D57	13°51	3°21	9°15	29°19	9°18	29°23	16°11	9°45	10° 6	0°49	n.a.	W29
T 30	12 16 16	5°49'11	0♒34	15° 1	15° 0	3°56	9°28	29°18	9°21	29°22	16°12	9°44	10° 3	0°56	n.a.	T 30
F 31	12 20 12	6♈47'19	14♒39	15♓10	16♉ 9	4♊31	9♓42	29♋18	9♓25	29♎20	16♒14	9♈44	10♈ 0	1♋ 3	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	8s51	28s46	5s11	0n48	3n 3	4n25	0n 6	18n28	1n23	11s43	1s 8	21n41	1n23	9s27	0s44	9s44	1n59	29s27	13s47	4n 4	4n38	28n42			n.a.
T 2	8 29	27 16	5 7	1 5	3 10	4 57	0 10	18 38	1 23	11 38	1 8	21 41	1 23	9 25	0 44	9 43	1 59	29 26	13 47	4 3	4 37	28 42			n.a.
F 3	8 7	23 58	4 44	1 18	3 16	5 28	0 13	18 48	1 23	11 32	1 8	21 42	1 23	9 24	0 44	9 43	1 59	29 26	13 47	4 1	4 36	28 42			n.a.
S 4	7 44	19 11	4 3	1 27	3 22	5 59	0 16	18 58	1 23	11 27	1 8	21 43	1 23	9 23	0 44	9 43	1 59	29 26	13 47	3 59	4 34	28 43			n.a.
S 5	7 22	13 24	3 7	1 32	3 25	6 30	0 19	19 7	1 23	11 22	1 8	21 43	1 23	9 21	0 44	9 42	1 59	29 25	13 47	3 58	4 33	28 43			n.a.
M 6	6 59	7 1	2 1	1 33	3 28	7 1	0 23	19 17	1 23	11 17	1 8	21 44	1 23	9 20	0 44	9 42	1 59	29 25	13 48	3 57	4 32	28 43			n.a.
T 7	6 36	0 28	0 50	1 30	3 29	7 32	0 26	19 26	1 23	11 11	1 8	21 45	1 23	9 19	0 44	9 42	1 59	29 25	13 48	3 56	4 31	28 43			n.a.
W 8	6 13	5n57	0n23	1 23	3 28	8 2	0 29	19 36	1 23	11 6	1 9	21 45	1 23	9 17	0 44	9 41	1 59	29 25	13 48	3 56	4 29	28 44			n.a.
T 9	5 50	11 57	1 33	1 12	3 26	8 33	0 33	19 45	1 23	11 1	1 9	21 46	1 23	9 16	0 44	9 41	1 59	29 24	13 48	3 56	4 28	28 44			n.a.
F 10	5 27	17 19	2 36	0 57	3 22	9 3	0 36	19 54	1 24	10 56	1 9	21 46	1 23	9 15	0 44	9 40	1 59	29 24	13 48	3 57	4 27	28 44			n.a.
S 11	5 4	21 51	3 31	0 39	3 17	9 33	0 39	20 3	1 24	10 50	1 9	21 47	1 23	9 14	0 44	9 40	1 59	29 24	13 49	3 58	4 26	28 45			n.a.
S 12	4 41	25 22	4 15	0 19	3 10	10 3	0 43	20 12	1 24	10 45	1 9	21 47	1 23	9 12	0 44	9 39	1 59	29 23	13 49	3 58	4 24	28 45			n.a.
M13	4 18	27 44	4 48	0s 5	3 1	10 32	0 46	20 21	1 24	10 40	1 9	21 48	1 23	9 11	0 44	9 39	1 59	29 23	13 49	3 58	4 23	28 45			n.a.
T 14	3 54	28 50	5 8	0 31	2 51	11 2	0 49	20 30	1 24	10 35	1 9	21 48	1 23	9 10	0 44	9 39	1 59	29 23	13 49	3 58	4 22	28 45			n.a.
W15	3 31	28 35	5 15	0 58	2 40	11 31	0 53	20 38	1 24	10 29	1 9	21 49	1 23	9 9	0 44	9 38	1 59	29 23	13 49	3 58	4 21	28 45			n.a.
T 16	3 8	27 1	5 8	1 28	2 27	12 0	0 56	20 47	1 24	10 24	1 9	21 49	1 22	9 7	0 44	9 38	1 59	29 23	13 50	3 57	4 19	28 46			n.a.
F 17	2 44	24 11	4 48	1 58	2 14	12 28	0 59	20 55	1 24	10 19	1 9	21 49	1 22	9 6	0 44	9 37	1 59	29 22	13 50	3 56	4 18	28 46			n.a.
S 18	2 21	20 12	4 14	2 28	1 59	12 56	1 3	21 4	1 24	10 14	1 9	21 50	1 22	9 5	0 44	9 37	1 59	29 22	13 50	3 55	4 17	28 46			n.a.
S 19	1 57	15 17	3 27	2 59	1 44	13 24	1 6	21 12	1 24	10 8	1 9	21 50	1 22	9 3	0 44	9 36	1 59	29 22	13 50	3 54	4 15	28 46			n.a.
M20	1 34	9 35	2 29	3 29	1 28	13 52	1 9	21 20	1 24	10 3	1 9	21 50	1 22	9 2	0 44	9 36	1 59	29 22	13 51	3 54	4 14	28 46			n.a.
T 21	1 10	3 22	1 22	3 58	1 12	14 19	1 12	21 28	1 24	9 58	1 9	21 51	1 22	9 1	0 44	9 35	1 59	29 22	13 51	3 53	4 13	28 47			n.a.
W22	0 47	3s 7	0 9	4 26	0 56	14 46	1 16	21 36	1 24	9 53	1 10	21 51	1 22	9 0	0 44	9 35	2 0	29 21	13 51	3 53	4 12	28 47			n.a.
T 23	0 24	9 36	1s 6	4 53	0 39	15 12	1 19	21 43	1 24	9 48	1 10	21 51	1 22	8 59	0 44	9 34	2 0	29 21	13 51	3 53	4 10	28 47			n.a.
F 24	0 0	15 43	2 18	5 18	0 23	15 39	1 22	21 51	1 24	9 42	1 10	21 51	1 22	8 57	0 44	9 34	2 0	29 21	13 52	3 53	4 9	28 47			n.a.
S 25	0n23	21 6	3 23	5 41	0 7	16 5	1 25	21 58	1 24	9 37	1 10	21 51	1 22	8 56	0 44	9 33	2 0	29 21	13 52	3 54	4 8	28 47			n.a.
S 26	0 47	25 20	4 16	6 1	0s 9	16 30	1 28	22 6	1 24	9 32	1 10	21 52	1 22	8 55	0 44	9 33	2 0	29 21	13 52	3 54	4 7	28 47			n.a.
M27	1 10	28 3	4 54	6 19	0 24	16 55	1 32	22 13	1 24	9 27	1 10	21 52	1 22	8 54	0 44	9 32	2 0	29 21	13 52	3 54	4 5	28 47			n.a.
T 28	1 34	28 56	5 14	6 35	0 39	17 20	1 35	22 20	1 24	9 22	1 10	21 52	1 22	8 52	0 44	9 32	2 0	29 20	13 53	3 54	4 4	28 48			n.a.
W29	1 57	27 54	5 14	6 49	0 53	17 44	1 38	22 27	1 24	9 17	1 10	21 52	1 22	8 51	0 44	9 31	2 0	29 20	13 53	3 54	4 3	28 48			n.a.
T 30	2 20	25 4	4 56	7 0	1 7	18 8	1 41	22 34	1 24	9 12	1 10	21 52	1 22	8 50	0 44	9 31	2 0	29 20	13 53	3 54	4 2	28 48			n.a.
F 31	2n44	20s46	4s20	7s 8	1s19	18n31	1n44	22n40	1n24	9s 6	1s10	21n52	1n22	8s49	0s44	9s30	2n 0	29s20	13s53	3n54	4n 0	28n48			n.a.

Julian Day Number = 1658294.5, Delta T = 03h27m10s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°27'14, Lahiri = - 6°20'14 Julian Calendar 1 March 173 BCE == Greg. Calendar 27 Feb. 173 BCE

The year -172 astronomical counting style corresponds to year 173 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 173 BCE
geocentric

APRIL 173 BCE (-172) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 24 9	7♈45'26	28♒35	15♓23	17♉19	5♊ 7	9♓56	29°R18	9♓28	29°R19	16♒15	9°R44	9♈57	1♋10	n.a.	S 1
S 2	12 28 5	8°43'31	12♓20	15°41	18°28	5°42	10° 9	29♋17	9°31	29♎17	16°16	9♈44	9°54	1°16	n.a.	S 2
M 3	12 32 2	9°41'34	25°53	16° 4	19°36	6°18	10°23	29°17	9°34	29°16	16°17	9°D44	9°51	1°23	n.a.	M 3
T 4	12 35 59	10°39'35	9♈11	16°31	20°45	6°53	10°36	29°D17	9°37	29°14	16°18	9°R44	9°47	1°30	n.a.	T 4
W 5	12 39 55	11°37'35	22°13	17° 2	21°54	7°28	10°50	29°17	9°40	29°13	16°19	9°44	9°44	1°36	n.a.	W 5
T 6	12 43 52	12°35'33	4♉59	17°37	23° 2	8° 4	11° 3	29°17	9°43	29°11	16°20	9°43	9°41	1°43	n.a.	T 6
F 7	12 47 48	13°33'29	17°30	18°16	24°11	8°39	11°16	29°18	9°46	29°10	16°21	9°43	9°38	1°50	n.a.	F 7
S 8	12 51 45	14°31'24	29°47	18°59	25°19	9°15	11°30	29°18	9°49	29° 8	16°22	9°43	9°35	1°57	n.a.	S 8
S 9	12 55 41	15°29'17	11♊52	19°45	26°27	9°51	11°43	29°18	9°52	29° 7	16°23	9°42	9°31	2° 3	n.a.	S 9
M10	12 59 38	16°27'08	23°50	20°35	27°35	10°26	11°56	29°19	9°55	29° 5	16°24	9°41	9°28	2°10	n.a.	M10
T 11	13 3 34	17°24'57	5♋44	21°28	28°43	11° 2	12° 9	29°20	9°58	29° 4	16°25	9°41	9°25	2°17	n.a.	T 11
W12	13 7 31	18°22'44	17°37	22°25	29°50	11°38	12°22	29°20	10° 1	29° 2	16°26	9°D40	9°22	2°24	n.a.	W12
T 13	13 11 28	19°20'30	29°36	23°24	0♊58	12°13	12°35	29°21	10° 3	29° 0	16°26	9°41	9°19	2°30	n.a.	T 13
F 14	13 15 24	20°18'14	11♌44	24°27	2° 5	12°49	12°48	29°22	10° 6	28°59	16°27	9°41	9°16	2°37	n.a.	F 14
S 15	13 19 21	21°15'55	24° 5	25°32	3°12	13°25	13° 1	29°23	10° 9	28°57	16°28	9°42	9°12	2°44	n.a.	S 15
S 16	13 23 17	22°13'36	6♍44	26°41	4°19	14° 1	13°13	29°25	10°12	28°56	16°29	9°43	9° 9	2°50	n.a.	S 16
M17	13 27 14	23°11'14	19°43	27°52	5°26	14°36	13°26	29°26	10°14	28°54	16°30	9°44	9° 6	2°57	n.a.	M17
T 18	13 31 10	24° 8'51	3♎ 4	29° 5	6°32	15°12	13°39	29°27	10°17	28°52	16°30	9°R45	9° 3	3° 4	n.a.	T 18
W19	13 35 7	25° 6'27	16°46	0♈22	7°39	15°48	13°51	29°29	10°20	28°51	16°31	9°45	9° 0	3°11	n.a.	W19
T 20	13 39 3	26° 4'01	0♏48	1°41	8°45	16°24	14° 4	29°30	10°22	28°49	16°32	9°44	8°56	3°17	n.a.	T 20
F 21	13 43 0	27° 1'34	15° 6	3° 2	9°51	17° 0	14°16	29°32	10°25	28°47	16°33	9°43	8°53	3°24	n.a.	F 21
S 22	13 46 57	27°59'06	29°35	4°26	10°57	17°36	14°29	29°34	10°28	28°46	16°33	9°40	8°50	3°31	n.a.	S 22
S 23	13 50 53	28°56'37	14♐ 9	5°52	12° 3	18°12	14°41	29°36	10°30	28°44	16°34	9°38	8°47	3°38	n.a.	S 23
M24	13 54 50	29°54'06	28°42	7°21	13° 8	18°48	14°53	29°38	10°33	28°43	16°35	9°36	8°44	3°44	n.a.	M24
T 25	13 58 46	0♑51'35	13♑ 8	8°52	14°13	19°24	15° 5	29°40	10°35	28°41	16°35	9°34	8°41	3°51	n.a.	T 25
W26	14 2 43	1°49'03	27°24	10°26	15°18	20° 0	15°17	29°42	10°38	28°39	16°36	9°D33	8°37	3°58	n.a.	W26
T 27	14 6 39	2°46'30	11♒28	12° 2	16°23	20°36	15°29	29°45	10°40	28°38	16°36	9°33	8°34	4° 4	n.a.	T 27
F 28	14 10 36	3°43'56	25°17	13°40	17°28	21°12	15°41	29°47	10°42	28°36	16°37	9°34	8°31	4°11	n.a.	F 28
S 29	14 14 32	4°41'22	8♓53	15°21	18°32	21°48	15°53	29°49	10°45	28°35	16°37	9°36	8°28	4°18	n.a.	S 29
S 30	14 18 29	5♉38'46	22♓14	17♈ 4	19♊36	22♊24	16♓ 5	29♋52	10♓47	28♎33	16♒38	9♈37	8♈25	4♋25	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n 7	15s21	3s29	7s14	1s31	18n54	1n47	22n47	1n24	9s 1	1s11	21n52	1n22	8s48	0s44	9s30	2n 0	29s20	13s54	3n54	3n59	28n48		n.a.
S 2	3 30	9 15	2 26	7 17	1 43	19 17	1 50	22 53	1 24	8 56	1 11	21 52	1 22	8 47	0 44	9 29	2 0	29 20	13 54	3 54	3 58	28 48		n.a.
M 3	3 53	2 49	1 16	7 18	1 53	19 39	1 52	23 0	1 24	8 51	1 11	21 52	1 22	8 45	0 44	9 28	2 0	29 20	13 54	3 54	3 57	28 48		n.a.
T 4	4 16	3n38	0 3	7 16	2 3	20 0	1 55	23 6	1 24	8 46	1 11	21 52	1 22	8 44	0 44	9 28	2 0	29 20	13 55	3 54	3 55	28 48		n.a.
W 5	4 39	9 49	1n 9	7 12	2 12	20 21	1 58	23 12	1 24	8 41	1 11	21 52	1 22	8 43	0 44	9 27	2 0	29 20	13 55	3 54	3 54	28 48		n.a.
T 6	5 2	15 27	2 15	7 6	2 20	20 42	2 1	23 18	1 24	8 36	1 11	21 52	1 21	8 42	0 44	9 27	2 0	29 20	13 55	3 54	3 53	28 48		n.a.
F 7	5 25	20 21	3 14	6 57	2 27	21 2	2 3	23 23	1 24	8 31	1 11	21 52	1 21	8 41	0 44	9 26	2 0	29 20	13 55	3 54	3 52	28 48		n.a.
S 8	5 47	24 17	4 3	6 46	2 34	21 21	2 6	23 29	1 24	8 26	1 11	21 52	1 21	8 40	0 44	9 26	2 0	29 20	13 56	3 53	3 50	28 48		n.a.
S 9	6 10	27 6	4 40	6 33	2 40	21 40	2 9	23 34	1 24	8 21	1 12	21 51	1 21	8 39	0 44	9 25	2 0	29 20	13 56	3 53	3 49	28 48		n.a.
M10	6 32	28 38	5 4	6 18	2 45	21 58	2 11	23 40	1 24	8 16	1 12	21 51	1 21	8 37	0 44	9 25	2 0	29 20	13 56	3 53	3 48	28 48		n.a.
T 11	6 55	28 51	5 16	6 0	2 49	22 16	2 13	23 45	1 24	8 11	1 12	21 51	1 21	8 36	0 44	9 24	2 0	29 20	13 57	3 53	3 46	28 48		n.a.
W12	7 17	27 43	5 13	5 41	2 53	22 34	2 16	23 50	1 24	8 6	1 12	21 51	1 21	8 35	0 44	9 23	2 0	29 20	13 57	3 53	3 45	28 48		n.a.
T 13	7 39	25 19	4 58	5 20	2 56	22 50	2 18	23 55	1 24	8 1	1 12	21 51	1 21	8 34	0 44	9 23	2 0	29 20	13 57	3 53	3 44	28 48		n.a.
F 14	8 1	21 46	4 28	4 57	2 58	23 7	2 20	23 59	1 24	7 57	1 12	21 50	1 21	8 33	0 45	9 22	2 0	29 20	13 58	3 53	3 43	28 48		n.a.
S 15	8 23	17 12	3 46	4 32	2 59	23 22	2 22	24 4	1 24	7 52	1 12	21 50	1 21	8 32	0 45	9 22	2 0	29 20	13 58	3 53	3 41	28 48		n.a.
S 16	8 45	11 48	2 52	4 5	3 0	23 37	2 24	24 8	1 24	7 47	1 12	21 50	1 21	8 31	0 45	9 21	2 0	29 20	13 58	3 54	3 40	28 48		n.a.
M17	9 7	5 47	1 48	3 37	3 0	23 51	2 26	24 12	1 24	7 42	1 13	21 49	1 21	8 30	0 45	9 20	2 0	29 20	13 59	3 54	3 39	28 48		n.a.
T 18	9 28	0s40	0 37	3 6	3 0	24 5	2 28	24 16	1 24	7 37	1 13	21 49	1 21	8 29	0 45	9 20	2 0	29 20	13 59	3 54	3 38	28 48		n.a.
W19	9 50	7 16	0s39	2 34	2 58	24 18	2 30	24 20	1 24	7 33	1 13	21 49	1 21	8 28	0 45	9 19	2 0	29 20	13 59	3 54	3 36	28 48		n.a.
T 20	10 11	13 39	1 54	2 1	2 56	24 31	2 32	24 24	1 24	7 28	1 13	21 48	1 21	8 27	0 45	9 19	2 0	29 20	14 0	3 54	3 35	28 48		n.a.
F 21	10 32	19 28	3 3	1 26	2 54	24 43	2 33	24 28	1 24	7 23	1 13	21 48	1 21	8 26	0 45	9 18	2 0	29 20	14 0	3 53	3 34	28 48		n.a.
S 22	10 53	24 13	4 1	0 50	2 51	24 54	2 35	24 31	1 24	7 18	1 13	21 47	1 20	8 25	0 45	9 18	2 0	29 20	14 0	3 53	3 33	28 48		n.a.
S 23	11 14	27 28	4 44	0 12	2 47	25 5	2 36	24 34	1 23	7 14	1 14	21 47	1 20	8 24	0 45	9 17	2 0	29 20	14 1	3 52	3 31	28 47		n.a.
M24	11 34	28 52	5 9	0n28	2 43	25 15	2 38	24 37	1 23	7 9	1 14	21 46	1 20	8 23	0 45	9 16	2 0	29 20	14 1	3 51	3 30	28 47		n.a.
T 25	11 54	28 16	5 14	1 9	2 38	25 24	2 39	24 40	1 23	7 5	1 14	21 46	1 20	8 22	0 45	9 16	2 0	29 21	14 1	3 50	3 29	28 47		n.a.
W26	12 15	25 49	4 59	1 51	2 32	25 33	2 40	24 43	1 23	7 0	1 14	21 45	1 20	8 21	0 45	9 15	2 0	29 21	14 2	3 50	3 27	28 47		n.a.
T 27	12 35	21 49	4 27	2 34	2 26	25 41	2 41	24 46	1 23	6 55	1 14	21 45	1 20	8 21	0 45	9 15	2 0	29 21	14 2	3 50	3 26	28 47		n.a.
F 28	12 54	16 41	3 40	3 19	2 20	25 48	2 42	24 48	1 23	6 51	1 14	21 44	1 20	8 20	0 45	9 14	2 0	29 21	14 2	3 50	3 25	28 47		n.a.
S 29	13 14	10 49	2 41	4 5	2 13	25 55	2 43	24 50	1 23	6 46	1 15	21 44	1 20	8 19	0 45	9 14	2 0	29 21	14 3	3 51	3 24	28 47		n.a.
S 30	13n33	4s33	1s34	4n52	2s 5	26n 1	2n44	24n53	1n23	6s42	1s15	21n43	1n20	8s18	0s45	9s13	2n 0	29s21	14s 3	3n51	3n22	28n46		n.a.

Julian Day Number = 1658325.5, Delta T = 03h27m09s
Ecliptic obliquity = 23°43'08, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°27'10, Lahiri = - 6°20'10 Julian Calendar 1 Apr. 173 BCE == Greg. Calendar 29 March 173 BCE

The year -172 astronomical counting style corresponds to year 173 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 173 BCE
geocentric

MAY 173 BCE (-172) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	14 22 26	6♉36'10	5♈22	18♈50	20♊40	23♊ 1	16♓16	29♋55	10♓49	28°R31	16♒38	9°R38	8♈22	4♋31	n.a.	M 1
T 2	14 26 22	7°33'32	18°17	20°38	21°44	23°37	16°28	29°58	10°52	28♎30	16°39	9♈38	8°18	4°38	n.a.	T 2
W 3	14 30 19	8°30'54	0♉59	22°28	22°47	24°13	16°39	0♌ 0	10°54	28°28	16°39	9°36	8°15	4°45	n.a.	W 3
T 4	14 34 15	9°28'15	13°30	24°20	23°51	24°49	16°51	0° 3	10°56	28°26	16°40	9°33	8°12	4°51	n.a.	T 4
F 5	14 38 12	10°25'35	25°50	26°15	24°53	25°26	17° 2	0° 6	10°58	28°25	16°40	9°29	8° 9	4°58	n.a.	F 5
S 6	14 42 8	11°22'55	8♊ 0	28°11	25°56	26° 2	17°13	0°10	11° 0	28°23	16°40	9°23	8° 6	5° 5	n.a.	S 6
S 7	14 46 5	12°20'13	20° 2	0♉10	26°59	26°38	17°24	0°13	11° 2	28°22	16°41	9°18	8° 2	5°12	n.a.	S 7
M 8	14 50 1	13°17'30	1♋58	2°11	28° 1	27°15	17°35	0°16	11° 4	28°20	16°41	9°12	7°59	5°18	n.a.	M 8
T 9	14 53 58	14°14'47	13°50	4°14	29° 2	27°51	17°46	0°20	11° 6	28°19	16°41	9° 8	7°56	5°25	n.a.	T 9
W10	14 57 55	15°12'02	25°43	6°19	0♌ 4	28°27	17°57	0°23	11° 8	28°17	16°42	9° 4	7°53	5°32	n.a.	W10
T 11	15 1 51	16° 9'16	7♌39	8°25	1° 5	29° 4	18° 8	0°27	11°10	28°16	16°42	9° 2	7°50	5°39	n.a.	T 11
F 12	15 5 48	17° 6'30	19°45	10°33	2° 6	29°40	18°18	0°30	11°12	28°14	16°42	9°D 2	7°47	5°45	n.a.	F 12
S 13	15 9 44	18° 3'42	2♍ 5	12°42	3° 7	0♋17	18°29	0°34	11°14	28°13	16°42	9° 3	7°43	5°52	n.a.	S 13
S 14	15 13 41	19° 0'53	14°42	14°52	4° 7	0°53	18°39	0°38	11°15	28°11	16°42	9° 4	7°40	5°59	n.a.	S 14
M15	15 17 37	19°58'04	27°42	17° 3	5° 7	1°30	18°50	0°42	11°17	28°10	16°43	9° 6	7°37	6° 5	n.a.	M15
T 16	15 21 34	20°55'14	11♎ 7	19°15	6° 6	2° 6	19° 0	0°46	11°19	28° 8	16°43	9°R 6	7°34	6°12	n.a.	T 16
W17	15 25 30	21°52'23	24°59	21°26	7° 5	2°43	19°10	0°50	11°20	28° 7	16°43	9° 5	7°31	6°19	n.a.	W17
T 18	15 29 27	22°49'31	9♏16	23°38	8° 4	3°20	19°20	0°54	11°22	28° 5	16°43	9° 2	7°28	6°26	n.a.	T 18
F 19	15 33 24	23°46'39	23°54	25°49	9° 2	3°56	19°30	0°59	11°23	28° 4	16°43	8°57	7°24	6°32	n.a.	F 19
S 20	15 37 20	24°43'47	8♐47	28° 0	10° 0	4°33	19°39	1° 3	11°25	28° 2	16°43	8°51	7°21	6°39	n.a.	S 20
S 21	15 41 17	25°40'54	23°47	0♊ 9	10°57	5° 9	19°49	1° 7	11°26	28° 1	16°R43	8°44	7°18	6°46	n.a.	S 21
M22	15 45 13	26°38'02	8♑43	2°18	11°54	5°46	19°59	1°12	11°28	28° 0	16°43	8°38	7°15	6°53	n.a.	M22
T 23	15 49 10	27°35'09	23°29	4°26	12°51	6°23	20° 8	1°16	11°29	27°58	16°43	8°32	7°12	6°59	n.a.	T 23
W24	15 53 6	28°32'16	7♒57	6°32	13°47	7° 0	20°17	1°21	11°30	27°57	16°43	8°29	7° 8	7° 6	n.a.	W24
T 25	15 57 3	29°29'23	22° 4	8°36	14°42	7°36	20°26	1°26	11°32	27°56	16°43	8°27	7° 5	7°13	n.a.	T 25
F 26	16 1 0	0♊26'29	5♓50	10°39	15°37	8°13	20°35	1°31	11°33	27°54	16°43	8°D27	7° 2	7°19	n.a.	F 26
S 27	16 4 56	1°23'36	19°14	12°40	16°32	8°50	20°44	1°36	11°34	27°53	16°43	8°27	6°59	7°26	n.a.	S 27
S 28	16 8 53	2°20'44	2♈21	14°40	17°26	9°27	20°53	1°41	11°35	27°52	16°42	8°R28	6°56	7°33	n.a.	S 28
M29	16 12 49	3°17'51	15°11	16°37	18°19	10° 4	21° 2	1°46	11°36	27°50	16°42	8°28	6°53	7°40	n.a.	M29
T 30	16 16 46	4°14'58	27°47	18°32	19°12	10°41	21°10	1°51	11°37	27°49	16°42	8°26	6°49	7°46	n.a.	T 30
W31	16 20 42	5♊12'06	10♉13	20♊26	20♋ 5	11♋17	21♓19	1♌56	11♓38	27♎48	16♒42	8♈22	6♈46	7♋53	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
M 1	13n53	1n48	0s23	5n39	1s57	26n 7	2n44	24n55	1n23	6s38	1s15	21n42	1n20	8s17	0s45	9s12	2n 0	29s22	14s 3	3n52	3n21	28n46			n.a.
T 2	14 12	7 58	0n47	6 28	1 49	26 12	2 45	24 56	1 23	6 33	1 15	21 42	1 20	8 16	0 45	9 12	2 0	29 22	14 4	3 51	3 20	28 46			n.a.
W 3	14 30	13 44	1 54	7 18	1 40	26 16	2 45	24 58	1 23	6 29	1 15	21 41	1 20	8 15	0 45	9 11	2 0	29 22	14 4	3 51	3 19	28 46			n.a.
T 4	14 49	18 51	2 55	8 9	1 30	26 19	2 45	24 59	1 22	6 25	1 16	21 40	1 20	8 15	0 45	9 11	2 0	29 22	14 5	3 50	3 17	28 46			n.a.
F 5	15 7	23 5	3 46	9 0	1 21	26 22	2 45	25 1	1 22	6 20	1 16	21 40	1 20	8 14	0 45	9 10	2 0	29 22	14 5	3 48	3 16	28 45			n.a.
S 6	15 25	26 16	4 26	9 51	1 11	26 25	2 45	25 2	1 22	6 16	1 16	21 39	1 20	8 13	0 45	9 10	2 0	29 23	14 5	3 46	3 15	28 45			n.a.
S 7	15 43	28 13	4 54	10 43	1 0	26 26	2 45	25 3	1 22	6 12	1 16	21 38	1 20	8 12	0 45	9 9	2 0	29 23	14 6	3 44	3 14	28 45			n.a.
M 8	16 1	28 51	5 8	11 36	0 50	26 27	2 45	25 3	1 22	6 8	1 16	21 37	1 20	8 12	0 45	9 9	2 0	29 23	14 6	3 41	3 12	28 45			n.a.
T 9	16 18	28 7	5 10	12 28	0 39	26 27	2 44	25 4	1 22	6 4	1 16	21 37	1 19	8 11	0 45	9 8	2 0	29 23	14 6	3 39	3 11	28 45			n.a.
W10	16 35	26 7	4 58	13 20	0 28	26 27	2 44	25 4	1 22	5 59	1 17	21 36	1 19	8 10	0 45	9 7	2 0	29 24	14 7	3 38	3 10	28 44			n.a.
T 11	16 52	22 58	4 33	14 12	0 18	26 26	2 43	25 5	1 22	5 55	1 17	21 35	1 19	8 9	0 45	9 7	2 0	29 24	14 7	3 37	3 8	28 44			n.a.
F 12	17 8	18 47	3 56	15 3	0 7	26 24	2 42	25 5	1 21	5 51	1 17	21 34	1 19	8 9	0 45	9 6	2 0	29 24	14 7	3 37	3 7	28 44			n.a.
S 13	17 25	13 46	3 7	15 54	0n 4	26 22	2 41	25 4	1 21	5 47	1 17	21 33	1 19	8 8	0 45	9 6	2 0	29 24	14 8	3 38	3 6	28 43			n.a.
S 14	17 41	8 4	2 8	16 43	0 15	26 19	2 40	25 4	1 21	5 43	1 18	21 32	1 19	8 8	0 45	9 5	2 0	29 25	14 8	3 38	3 5	28 43			n.a.
M15	17 56	1 52	1 1	17 31	0 25	26 16	2 39	25 4	1 21	5 40	1 18	21 31	1 19	8 7	0 45	9 5	2 0	29 25	14 9	3 39	3 3	28 43			n.a.
T 16	18 12	4s37	0s11	18 18	0 35	26 12	2 38	25 3	1 21	5 36	1 18	21 30	1 19	8 6	0 45	9 4	2 0	29 25	14 9	3 39	3 2	28 43			n.a.
W17	18 27	11 6	1 25	19 3	0 45	26 7	2 36	25 2	1 21	5 32	1 18	21 29	1 19	8 6	0 45	9 4	2 0	29 26	14 9	3 38	3 1	28 42			n.a.
T 18	18 42	17 12	2 36	19 46	0 54	26 2	2 34	25 1	1 21	5 28	1 18	21 28	1 19	8 5	0 45	9 3	2 0	29 26	14 10	3 37	3 0	28 42			n.a.
F 19	18 56	22 29	3 38	20 27	1 3	25 56	2 32	25 0	1 21	5 25	1 19	21 27	1 19	8 5	0 46	9 3	2 0	29 26	14 10	3 35	2 58	28 42			n.a.
S 20	19 10	26 24	4 26	21 6	1 11	25 50	2 30	24 59	1 20	5 21	1 19	21 26	1 19	8 4	0 46	9 2	2 0	29 27	14 10	3 33	2 57	28 41			n.a.
S 21	19 24	28 31	4 57	21 42	1 19	25 43	2 28	24 57	1 20	5 17	1 19	21 25	1 19	8 3	0 46	9 2	2 0	29 27	14 11	3 30	2 56	28 41			n.a.
M22	19 38	28 32	5 7	22 16	1 26	25 36	2 26	24 55	1 20	5 14	1 19	21 24	1 19	8 3	0 46	9 1	2 0	29 27	14 11	3 28	2 55	28 41			n.a.
T 23	19 51	26 31	4 57	22 47	1 32	25 28	2 23	24 54	1 20	5 10	1 20	21 23	1 19	8 2	0 46	9 1	1 59	29 28	14 12	3 25	2 53	28 40			n.a.
W24	20 4	22 48	4 28	23 16	1 38	25 19	2 20	24 52	1 20	5 7	1 20	21 22	1 19	8 2	0 46	9 1	1 59	29 28	14 12	3 24	2 52	28 40			n.a.
T 25	20 17	17 49	3 43	23 42	1 43	25 10	2 17	24 49	1 20	5 3	1 20	21 21	1 19	8 2	0 46	9 0	1 59	29 28	14 12	3 23	2 51	28 39			n.a.
F 26	20 29	12 3	2 46	24 5	1 48	25 1	2 14	24 47	1 19	5 0	1 20	21 20	1 19	8 1	0 46	9 0	1 59	29 29	14 13	3 23	2 49	28 39			n.a.
S 27	20 41	5 52	1 41	24 25	1 51	24 51	2 11	24 44	1 19	4 57	1 20	21 19	1 19	8 1	0 46	8 59	1 59	29 29	14 13	3 23	2 48	28 39			n.a.
S 28	20 52	0n26	0 33	24 43	1 54	24 40	2 7	24 42	1 19	4 53	1 21	21 18	1 19	8 0	0 46	8 59	1 59	29 30	14 13	3 24	2 47	28 38			n.a.
M29	21 4	6 36	0n36	24 58	1 57	24 29	2 4	24 39	1 19	4 50	1 21	21 17	1 19	8 0	0 46	8 58	1 59	29 30	14 14	3 24	2 46	28 38			n.a.
T 30	21 14	12 23	1 42	25 11	1 58	24 18	2 0	24 35	1 19	4 47	1 21	21 15	1 19	7 59	0 46	8 58	1 59	29 30	14 14	3 23	2 44	28 37			n.a.
W31	21n25	17n36	2n41	25n21	1n59	24n 6	1n56	24n32	1n19	4s44	1s21	21n14	1n19	7s59	0s46	8s58	1n59	29s31	14s14	3n21	2n43	28n37			n.a.

Julian Day Number = 1658355.5, Delta T = 03h27m08s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°27'06, Lahiri = - 6°20'06 Julian Calendar 1 May 173 BCE == Greg. Calendar 28 Apr. 173 BCE

The year -172 astronomical counting style corresponds to year 173 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 173 BCE
geocentric

JUNE 173 BCE (-172) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 24 39	6♊ 9'13	22♉29	22♊17	20♋56	11♋54	21♓27	2♌ 1	11♓39	27°R47	16°R42	8°R16	6♈43	8♋ 0	n.a.	T 1
F 2	16 28 35	7° 6'21	4♊37	24° 6	21°47	12°31	21°35	2° 6	11°40	27♎46	16♒41	8♈ 7	6°40	8° 7	n.a.	F 2
S 3	16 32 32	8° 3'29	16°39	25°53	22°38	13° 8	21°43	2°12	11°41	27°44	16°41	7°56	6°37	8°13	n.a.	S 3
S 4	16 36 29	9° 0'37	28°36	27°38	23°27	13°45	21°51	2°17	11°42	27°43	16°41	7°45	6°34	8°20	n.a.	S 4
M 5	16 40 25	9°57'45	10♋29	29°21	24°16	14°22	21°58	2°23	11°43	27°42	16°40	7°34	6°30	8°27	n.a.	M 5
T 6	16 44 22	10°54'53	22°20	1♌ 2	25° 5	15° 0	22° 6	2°28	11°43	27°41	16°40	7°24	6°27	8°33	n.a.	T 6
W 7	16 48 18	11°52'00	4♌12	2°41	25°52	15°37	22°13	2°34	11°44	27°40	16°40	7°16	6°24	8°40	n.a.	W 7
T 8	16 52 15	12°49'08	16° 8	4°18	26°39	16°14	22°21	2°40	11°45	27°39	16°39	7°10	6°21	8°47	n.a.	T 8
F 9	16 56 11	13°46'16	28°12	5°53	27°25	16°51	22°28	2°45	11°45	27°38	16°39	7° 7	6°18	8°54	n.a.	F 9
S 10	17 0 8	14°43'24	10♍28	7°25	28°10	17°28	22°35	2°51	11°46	27°37	16°38	7°D 6	6°14	9° 0	n.a.	S 10
S 11	17 4 4	15°40'32	23° 2	8°56	28°54	18° 5	22°41	2°57	11°46	27°36	16°38	7° 6	6°11	9° 7	n.a.	S 11
M12	17 8 1	16°37'40	5♎58	10°24	29°37	18°43	22°48	3° 3	11°47	27°35	16°37	7°R 6	6° 8	9°14	n.a.	M12
T 13	17 11 58	17°34'48	19°20	11°50	0♌19	19°20	22°54	3° 9	11°47	27°34	16°37	7° 5	6° 5	9°20	n.a.	T 13
W14	17 15 54	18°31'56	3♏11	13°14	1° 0	19°57	23° 1	3°15	11°47	27°33	16°36	7° 3	6° 2	9°27	n.a.	W14
T 15	17 19 51	19°29'04	17°31	14°36	1°40	20°34	23° 7	3°21	11°48	27°32	16°36	6°58	5°59	9°34	n.a.	T 15
F 16	17 23 47	20°26'13	2♐17	15°56	2°19	21°12	23°13	3°27	11°48	27°32	16°35	6°51	5°55	9°41	n.a.	F 16
S 17	17 27 44	21°23'22	17°22	17°13	2°57	21°49	23°19	3°33	11°48	27°31	16°34	6°42	5°52	9°47	n.a.	S 17
S 18	17 31 40	22°20'32	2♑38	18°28	3°34	22°26	23°25	3°40	11°48	27°30	16°34	6°32	5°49	9°54	n.a.	S 18
M19	17 35 37	23°17'43	17°53	19°40	4°10	23° 4	23°30	3°46	11°48	27°29	16°33	6°22	5°46	10° 1	n.a.	M19
T 20	17 39 34	24°14'54	2♒56	20°50	4°44	23°41	23°35	3°52	11°R48	27°29	16°33	6°13	5°43	10° 8	n.a.	T 20
W21	17 43 30	25°12'06	17°39	21°58	5°17	24°19	23°41	3°59	11°48	27°28	16°32	6° 7	5°40	10°14	n.a.	W21
T 22	17 47 27	26° 9'19	1♓57	23° 2	5°48	24°56	23°46	4° 5	11°48	27°27	16°31	6° 3	5°36	10°21	n.a.	T 22
F 23	17 51 23	27° 6'32	15°47	24° 5	6°19	25°34	23°51	4°12	11°48	27°27	16°31	6° 1	5°33	10°28	n.a.	F 23
S 24	17 55 20	28° 3'47	29°11	25° 4	6°47	26°11	23°55	4°18	11°48	27°26	16°30	6° 1	5°30	10°34	n.a.	S 24
S 25	17 59 16	29° 1'03	12♈13	26° 0	7°15	26°49	24° 0	4°25	11°48	27°25	16°29	6° 1	5°27	10°41	n.a.	S 25
M26	18 3 13	29°58'20	24°54	26°53	7°40	27°26	24° 4	4°31	11°48	27°25	16°28	6° 0	5°24	10°48	n.a.	M26
T 27	18 7 9	0♋55'38	7♉20	27°43	8° 4	28° 4	24° 8	4°38	11°47	27°24	16°27	5°57	5°20	10°55	n.a.	T 27
W28	18 11 6	1°52'57	19°35	28°30	8°27	28°42	24°12	4°45	11°47	27°24	16°27	5°51	5°17	11° 1	n.a.	W28
T 29	18 15 3	2°50'17	1♊40	29°13	8°47	29°19	24°16	4°52	11°47	27°23	16°26	5°43	5°14	11° 8	n.a.	T 29
F 30	18 18 59	3♋47'39	13♊40	29♋52	9♌ 6	29♋57	24♓20	4♌58	11♓46	27♎23	16♒25	5♈32	5♈11	11♋15	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n35	22n 1	3n33	25n29	1n59	23n54	1n51	24n29	1n18	4s41	1s22	21n13	1n18	7s59	0s46	8s57	1n59	29s31	14s15	3n19	2n42	28n36		n.a.
F 2	21 45	25 28	4 13	25 34	1 59	23 42	1 47	24 25	1 18	4 38	1 22	21 12	1 18	7 58	0 46	8 57	1 59	29 32	14 15	3 15	2 41	28 36		n.a.
S 3	21 54	27 44	4 43	25 37	1 58	23 29	1 42	24 21	1 18	4 35	1 22	21 10	1 18	7 58	0 46	8 56	1 59	29 32	14 15	3 11	2 39	28 36		n.a.
S 4	22 4	28 42	4 59	25 38	1 56	23 15	1 37	24 17	1 18	4 32	1 22	21 9	1 18	7 58	0 46	8 56	1 59	29 32	14 16	3 6	2 38	28 35		n.a.
M 5	22 12	28 19	5 2	25 37	1 54	23 1	1 32	24 13	1 18	4 29	1 23	21 8	1 18	7 58	0 46	8 56	1 59	29 33	14 16	3 2	2 37	28 35		n.a.
T 6	22 21	26 39	4 53	25 33	1 51	22 47	1 27	24 9	1 17	4 26	1 23	21 6	1 18	7 57	0 46	8 55	1 59	29 33	14 16	2 58	2 35	28 34		n.a.
W 7	22 28	23 48	4 30	25 29	1 47	22 33	1 21	24 4	1 17	4 24	1 23	21 5	1 18	7 57	0 46	8 55	1 59	29 34	14 17	2 55	2 34	28 34		n.a.
T 8	22 36	19 56	3 56	25 22	1 43	22 18	1 16	24 0	1 17	4 21	1 24	21 4	1 18	7 57	0 46	8 55	1 59	29 34	14 17	2 53	2 33	28 33		n.a.
F 9	22 43	15 13	3 11	25 13	1 38	22 3	1 10	23 55	1 17	4 18	1 24	21 2	1 18	7 57	0 46	8 54	1 59	29 35	14 17	2 51	2 32	28 33		n.a.
S 10	22 50	9 50	2 17	25 3	1 33	21 48	1 3	23 50	1 17	4 16	1 24	21 1	1 18	7 57	0 46	8 54	1 59	29 35	14 18	2 51	2 30	28 32		n.a.
S 11	22 56	3 56	1 14	24 52	1 27	21 33	0 57	23 45	1 16	4 13	1 24	21 0	1 18	7 56	0 46	8 54	1 59	29 36	14 18	2 51	2 29	28 32		n.a.
M12	23 2	2s18	0 6	24 39	1 21	21 17	0 50	23 39	1 16	4 11	1 25	20 58	1 18	7 56	0 46	8 54	1 59	29 36	14 18	2 51	2 28	28 31		n.a.
T 13	23 8	8 39	1s 4	24 25	1 14	21 1	0 43	23 34	1 16	4 9	1 25	20 57	1 18	7 56	0 46	8 53	1 59	29 37	14 19	2 51	2 27	28 31		n.a.
W14	23 13	14 48	2 14	24 10	1 7	20 45	0 36	23 28	1 16	4 6	1 25	20 55	1 18	7 56	0 46	8 53	1 58	29 37	14 19	2 50	2 25	28 30		n.a.
T 15	23 18	20 24	3 17	23 53	0 59	20 29	0 28	23 22	1 16	4 4	1 25	20 54	1 18	7 56	0 47	8 53	1 58	29 38	14 19	2 48	2 24	28 29		n.a.
F 16	23 22	24 55	4 8	23 36	0 51	20 12	0 21	23 16	1 15	4 2	1 26	20 52	1 18	7 56	0 47	8 53	1 58	29 38	14 20	2 45	2 23	28 29		n.a.
S 17	23 26	27 50	4 44	23 18	0 43	19 56	0 13	23 10	1 15	4 0	1 26	20 51	1 18	7 56	0 47	8 52	1 58	29 38	14 20	2 41	2 21	28 28		n.a.
S 18	23 30	28 42	5 0	22 59	0 34	19 39	0 4	23 3	1 15	3 58	1 26	20 49	1 18	7 56	0 47	8 52	1 58	29 39	14 20	2 37	2 20	28 28		n.a.
M19	23 33	27 23	4 55	22 39	0 24	19 23	0s 4	22 57	1 15	3 56	1 27	20 48	1 18	7 56	0 47	8 52	1 58	29 39	14 21	2 33	2 19	28 27		n.a.
T 20	23 36	24 5	4 29	22 19	0 14	19 6	0 13	22 50	1 15	3 54	1 27	20 46	1 18	7 56	0 47	8 52	1 58	29 40	14 21	2 30	2 18	28 26		n.a.
W21	23 38	19 18	3 46	21 58	0 4	18 49	0 22	22 43	1 14	3 52	1 27	20 45	1 18	7 56	0 47	8 51	1 58	29 40	14 21	2 27	2 16	28 26		n.a.
T 22	23 40	13 32	2 50	21 37	0s 6	18 32	0 31	22 36	1 14	3 50	1 27	20 43	1 18	7 56	0 47	8 51	1 58	29 41	14 22	2 26	2 15	28 25		n.a.
F 23	23 41	7 16	1 45	21 16	0 17	18 15	0 41	22 29	1 14	3 49	1 28	20 42	1 18	7 56	0 47	8 51	1 58	29 42	14 22	2 25	2 14	28 25		n.a.
S 24	23 42	0 52	0 36	20 54	0 28	17 59	0 51	22 22	1 14	3 47	1 28	20 40	1 18	7 56	0 47	8 51	1 58	29 42	14 22	2 25	2 13	28 24		n.a.
S 25	23 43	5n23	0n33	20 32	0 40	17 42	1 1	22 14	1 13	3 46	1 28	20 39	1 18	7 56	0 47	8 51	1 58	29 43	14 23	2 25	2 11	28 23		n.a.
M26	23 43	11 16	1 38	20 11	0 52	17 25	1 11	22 7	1 13	3 44	1 29	20 37	1 18	7 57	0 47	8 51	1 58	29 43	14 23	2 25	2 10	28 23		n.a.
T 27	23 43	16 36	2 37	19 49	1 4	17 9	1 22	21 59	1 13	3 43	1 29	20 35	1 18	7 57	0 47	8 50	1 58	29 44	14 23	2 23	2 9	28 22		n.a.
W28	23 42	21 10	3 28	19 28	1 16	16 52	1 33	21 51	1 13	3 41	1 29	20 34	1 18	7 57	0 47	8 50	1 58	29 44	14 23	2 21	2 7	28 21		n.a.
T 29	23 41	24 48	4 9	19 7	1 29	16 36	1 44	21 43	1 12	3 40	1 30	20 32	1 18	7 57	0 47	8 50	1 58	29 45	14 24	2 18	2 6	28 21		n.a.
F 30	23n40	27n18	4n38	18n46	1s41	16n20	1s55	21n34	1n12	3s39	1s30	20n30	1n18	7s57	0s47	8s50	1n58	29s45	14s24	2n13	2n 5	28n20		n.a.

Julian Day Number = 1658386.5, Delta T = 03h27m07s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°27'02, Lahiri = - 6°20'01 Julian Calendar 1 June 173 BCE == Greg. Calendar 29 May 173 BCE

The year -172 astronomical counting style corresponds to year 173 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 173 BCE
geocentric

JULY 173 BCE (-172) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 22 56	4♋45'01	25♊35	0♌28	9♌23	0♌35	24♓23	5♌ 5	11°R46	27°R23	16°R24	5°R19	5♈ 8	11♋22	n.a.	S 1
S 2	18 26 52	5°42'25	7♋28	1° 0	9°38	1°13	24°26	5°12	11♓45	27♎22	16♒23	5♈ 5	5° 5	11°28	n.a.	S 2
M 3	18 30 49	6°39'49	19°20	1°27	9°51	1°50	24°29	5°19	11°45	27°22	16°22	4°51	5° 1	11°35	n.a.	M 3
T 4	18 34 45	7°37'14	1♌12	1°50	10° 2	2°28	24°32	5°26	11°44	27°22	16°21	4°38	4°58	11°42	n.a.	T 4
W 5	18 38 42	8°34'41	13° 6	2° 8	10°11	3° 6	24°35	5°33	11°43	27°21	16°21	4°28	4°55	11°48	n.a.	W 5
T 6	18 42 39	9°32'08	25° 4	2°22	10°18	3°44	24°37	5°40	11°42	27°21	16°20	4°20	4°52	11°55	n.a.	T 6
F 7	18 46 35	10°29'36	7♍10	2°31	10°23	4°22	24°40	5°47	11°42	27°21	16°19	4°16	4°49	12° 2	n.a.	F 7
S 8	18 50 32	11°27'05	19°27	2°R34	10°25	5° 0	24°42	5°54	11°41	27°21	16°18	4°13	4°46	12° 9	n.a.	S 8
S 9	18 54 28	12°24'35	2♎ 0	2°33	10°R25	5°38	24°44	6° 1	11°40	27°21	16°17	4°D13	4°42	12°15	n.a.	S 9
M10	18 58 25	13°22'06	14°52	2°26	10°23	6°16	24°45	6° 8	11°39	27°20	16°16	4°R13	4°39	12°22	n.a.	M10
T 11	19 2 21	14°19'38	28° 8	2°13	10°18	6°54	24°47	6°15	11°38	27°20	16°15	4°12	4°36	12°29	n.a.	T 11
W12	19 6 18	15°17'11	11♏52	1°55	10°11	7°32	24°48	6°23	11°37	27°20	16°14	4°10	4°33	12°36	n.a.	W12
T 13	19 10 14	16°14'46	26° 4	1°32	10° 2	8°10	24°49	6°30	11°36	27°D20	16°13	4° 6	4°30	12°42	n.a.	T 13
F 14	19 14 11	17°12'21	10♐44	1° 3	9°50	8°48	24°50	6°37	11°35	27°20	16°12	3°59	4°26	12°49	n.a.	F 14
S 15	19 18 8	18° 9'57	25°47	0°30	9°36	9°26	24°51	6°44	11°34	27°20	16°10	3°50	4°23	12°56	n.a.	S 15
S 16	19 22 4	19° 7'35	11♑ 4	29♋51	9°19	10° 5	24°52	6°52	11°33	27°21	16° 9	3°40	4°20	13° 2	n.a.	S 16
M17	19 26 1	20° 5'14	26°23	29° 9	9° 0	10°43	24°52	6°59	11°32	27°21	16° 8	3°29	4°17	13° 9	n.a.	M17
T 18	19 29 57	21° 2'55	11♒35	28°23	8°39	11°21	24°R52	7° 6	11°30	27°21	16° 7	3°21	4°14	13°16	n.a.	T 18
W19	19 33 54	22° 0'37	26°28	27°34	8°16	11°59	24°52	7°14	11°29	27°21	16° 6	3°14	4°11	13°23	n.a.	W19
T 20	19 37 50	22°58'20	10♓55	26°43	7°51	12°38	24°52	7°21	11°28	27°21	16° 5	3°10	4° 7	13°29	n.a.	T 20
F 21	19 41 47	23°56'06	24°54	25°50	7°24	13°16	24°52	7°28	11°26	27°21	16° 4	3° 8	4° 4	13°36	n.a.	F 21
S 22	19 45 43	24°53'53	8♈25	24°58	6°54	13°55	24°51	7°36	11°25	27°22	16° 3	3°D 8	4° 1	13°43	n.a.	S 22
S 23	19 49 40	25°51'42	21°29	24° 6	6°24	14°33	24°50	7°43	11°23	27°22	16° 2	3°R 8	3°58	13°49	n.a.	S 23
M24	19 53 37	26°49'33	4♉10	23°17	5°52	15°11	24°49	7°51	11°22	27°22	16° 0	3° 8	3°55	13°56	n.a.	M24
T 25	19 57 33	27°47'25	16°34	22°30	5°18	15°50	24°48	7°58	11°20	27°23	15°59	3° 7	3°52	14° 3	n.a.	T 25
W26	20 1 30	28°45'20	28°43	21°47	4°43	16°28	24°46	8° 5	11°19	27°23	15°58	3° 3	3°48	14°10	n.a.	W26
T 27	20 5 26	29°43'17	10♊44	21° 9	4° 8	17° 7	24°45	8°13	11°17	27°24	15°57	2°56	3°45	14°16	n.a.	T 27
F 28	20 9 23	0♌41'16	22°39	20°38	3°32	17°46	24°43	8°20	11°16	27°24	15°56	2°47	3°42	14°23	n.a.	F 28
S 29	20 13 19	1°39'16	4♋31	20°12	2°55	18°24	24°41	8°28	11°14	27°25	15°54	2°37	3°39	14°30	n.a.	S 29
S 30	20 17 16	2°37'18	16°22	19°54	2°18	19° 3	24°39	8°35	11°12	27°25	15°53	2°25	3°36	14°37	n.a.	S 30
M31	20 21 12	3♌35'22	28♋16	19♋44	1♌41	19♌42	24♓36	8♌43	11♓10	27♎26	15♒52	2♈14	3♈32	14♋43	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n38	28n33	4n55	18n26	1s54	16n 4	2s 7	21n26	1n12	3s38	1s30	20n29	1n18	7s57	0s47	8s50	1n57	29s46	14s24	2n 8	2n 4	28n19		n.a.
S 2	23 36	28 29	4 59	18 6	2 7	15 49	2 19	21 17	1 12	3 37	1 30	20 27	1 18	7 58	0 47	8 50	1 57	29 46	14 24	2 2	2 2	28 19		n.a.
M 3	23 33	27 5	4 50	17 48	2 20	15 33	2 31	21 8	1 11	3 36	1 31	20 25	1 18	7 58	0 47	8 50	1 57	29 47	14 25	1 57	2 1	28 18		n.a.
T 4	23 30	24 29	4 28	17 30	2 33	15 19	2 44	21 0	1 11	3 35	1 31	20 24	1 18	7 58	0 47	8 50	1 57	29 47	14 25	1 52	2 0	28 17		n.a.
W 5	23 26	20 50	3 55	17 14	2 45	15 4	2 56	20 50	1 11	3 34	1 31	20 22	1 18	7 59	0 47	8 50	1 57	29 48	14 25	1 48	1 59	28 16		n.a.
T 6	23 22	16 18	3 11	16 58	2 58	14 50	3 9	20 41	1 11	3 34	1 32	20 20	1 18	7 59	0 47	8 50	1 57	29 48	14 25	1 45	1 57	28 16		n.a.
F 7	23 18	11 6	2 18	16 44	3 10	14 36	3 22	20 32	1 10	3 33	1 32	20 18	1 18	7 59	0 47	8 50	1 57	29 49	14 26	1 43	1 56	28 15		n.a.
S 8	23 13	5 24	1 17	16 32	3 22	14 22	3 36	20 22	1 10	3 32	1 32	20 17	1 18	7 59	0 47	8 50	1 57	29 49	14 26	1 42	1 55	28 14		n.a.
S 9	23 8	0s37	0 12	16 21	3 34	14 10	3 49	20 13	1 10	3 32	1 33	20 15	1 18	8 0	0 47	8 50	1 57	29 50	14 26	1 42	1 53	28 13		n.a.
M10	23 2	6 47	0s56	16 11	3 45	13 57	4 3	20 3	1 10	3 32	1 33	20 13	1 18	8 0	0 47	8 50	1 57	29 50	14 26	1 42	1 52	28 13		n.a.
T 11	22 56	12 51	2 3	16 4	3 56	13 45	4 16	19 53	1 9	3 31	1 33	20 11	1 18	8 1	0 47	8 50	1 57	29 51	14 27	1 41	1 51	28 12		n.a.
W12	22 50	18 30	3 5	15 59	4 5	13 34	4 30	19 43	1 9	3 31	1 34	20 10	1 18	8 1	0 48	8 50	1 57	29 52	14 27	1 41	1 50	28 11		n.a.
T 13	22 43	23 21	3 58	15 55	4 14	13 23	4 44	19 33	1 9	3 31	1 34	20 8	1 18	8 1	0 48	8 50	1 57	29 52	14 27	1 39	1 48	28 10		n.a.
F 14	22 36	26 53	4 37	15 54	4 22	13 13	4 57	19 22	1 9	3 31	1 34	20 6	1 18	8 2	0 48	8 50	1 57	29 53	14 27	1 36	1 47	28 10		n.a.
S 15	22 28	28 37	4 58	15 55	4 28	13 4	5 11	19 12	1 8	3 31	1 34	20 4	1 18	8 2	0 48	8 50	1 57	29 53	14 27	1 32	1 46	28 9		n.a.
S 16	22 20	28 13	4 59	15 58	4 33	12 55	5 24	19 1	1 8	3 31	1 35	20 2	1 18	8 3	0 48	8 50	1 56	29 54	14 28	1 28	1 45	28 8		n.a.
M17	22 12	25 40	4 38	16 3	4 37	12 47	5 38	18 50	1 8	3 31	1 35	20 0	1 18	8 3	0 48	8 50	1 56	29 54	14 28	1 24	1 43	28 7		n.a.
T 18	22 3	21 18	3 57	16 11	4 38	12 40	5 51	18 39	1 7	3 31	1 35	19 59	1 18	8 4	0 48	8 50	1 56	29 55	14 28	1 21	1 42	28 6		n.a.
W19	21 54	15 41	3 1	16 20	4 39	12 33	6 4	18 28	1 7	3 31	1 36	19 57	1 19	8 4	0 48	8 51	1 56	29 55	14 28	1 18	1 41	28 5		n.a.
T 20	21 44	9 19	1 55	16 32	4 37	12 27	6 16	18 17	1 7	3 32	1 36	19 55	1 19	8 5	0 48	8 51	1 56	29 56	14 28	1 16	1 39	28 5		n.a.
F 21	21 34	2 43	0 44	16 45	4 33	12 22	6 29	18 6	1 7	3 32	1 36	19 53	1 19	8 6	0 48	8 51	1 56	29 56	14 28	1 16	1 38	28 4		n.a.
S 22	21 24	3n48	0n28	17 0	4 27	12 18	6 40	17 54	1 6	3 33	1 37	19 51	1 19	8 6	0 48	8 51	1 56	29 57	14 29	1 16	1 37	28 3		n.a.
S 23	21 13	9 57	1 36	17 16	4 20	12 15	6 52	17 42	1 6	3 33	1 37	19 49	1 19	8 7	0 48	8 51	1 56	29 57	14 29	1 16	1 36	28 2		n.a.
M24	21 2	15 31	2 37	17 34	4 11	12 12	7 2	17 31	1 6	3 34	1 37	19 47	1 19	8 7	0 48	8 51	1 56	29 58	14 29	1 16	1 34	28 1		n.a.
T 25	20 51	20 19	3 29	17 53	4 0	12 10	7 13	17 19	1 5	3 35	1 38	19 45	1 19	8 8	0 48	8 52	1 56	29 58	14 29	1 15	1 33	28 0		n.a.
W26	20 39	24 11	4 11	18 12	3 47	12 9	7 22	17 7	1 5	3 36	1 38	19 43	1 19	8 9	0 48	8 52	1 56	29 59	14 29	1 13	1 32	27 59		n.a.
T 27	20 27	26 57	4 41	18 31	3 33	12 9	7 31	16 55	1 5	3 37	1 38	19 42	1 19	8 9	0 48	8 52	1 56	29 59	14 29	1 11	1 31	27 58		n.a.
F 28	20 14	28 29	4 58	18 51	3 18	12 9	7 39	16 43	1 4	3 38	1 38	19 40	1 19	8 10	0 48	8 52	1 56	30 0	14 29	1 7	1 29	27 57		n.a.
S 29	20 1	28 41	5 3	19 11	3 2	12 10	7 46	16 30	1 4	3 39	1 39	19 38	1 19	8 10	0 48	8 52	1 56	30 0	14 30	1 3	1 28	27 57		n.a.
S 30	19 48	27 34	4 54	19 30	2 45	12 12	7 52	16 18	1 4	3 40	1 39	19 36	1 19	8 11	0 48	8 53	1 56	30 1	14 30	0 58	1 27	27 56		n.a.
M31	19n35	25n12	4n33	19n49	2s27	12n15	7s58	16n 5	1n 3	3s41	1s39	19n34	1n19	8s12	0s48	8s53	1n55	30s 1	14s30	0n54	1n25	27n55		n.a.

Julian Day Number = 1658416.5, Delta T = 03h27m06s
Ecliptic obliquity = 23°43'06, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°26'58, Lahiri = - 6°19'57 Julian Calendar 1 July 173 BCE == Greg. Calendar 28 June 173 BCE

The year -172 astronomical counting style corresponds to year 173 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 173 BCE
geocentric

AUGUST 173 BCE (-172) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 25 9	4♌33'28	10♌12	19°D41	1°R 5	20♌20	24°R34	8♌50	11°R 9	27♎26	15°R51	2°R 4	3♈29	14♋50	n.a.	T 1
W 2	20 29 6	5°31'36	22°12	19♋48	0♌28	20°59	24♓31	8°58	11♓ 7	27°27	15♒50	1♈55	3°26	14°57	n.a.	W 2
T 3	20 33 2	6°29'45	4♍18	20° 2	29♋53	21°38	24°28	9° 5	11° 5	27°28	15°48	1°49	3°23	15° 3	n.a.	T 3
F 4	20 36 59	7°27'56	16°33	20°25	29°18	22°17	24°25	9°13	11° 3	27°28	15°47	1°46	3°20	15°10	n.a.	F 4
S 5	20 40 55	8°26'08	28°57	20°57	28°45	22°56	24°21	9°21	11° 1	27°29	15°46	1°D44	3°17	15°17	n.a.	S 5
S 6	20 44 52	9°24'23	11♎35	21°36	28°13	23°35	24°18	9°28	10°59	27°30	15°45	1°45	3°13	15°24	n.a.	S 6
M 7	20 48 48	10°22'39	24°30	22°24	27°42	24°14	24°14	9°36	10°57	27°30	15°43	1°46	3°10	15°30	n.a.	M 7
T 8	20 52 45	11°20'56	7♏45	23°19	27°14	24°53	24°10	9°43	10°55	27°31	15°42	1°R47	3° 7	15°37	n.a.	T 8
W 9	20 56 41	12°19'15	21°22	24°22	26°47	25°32	24° 6	9°51	10°53	27°32	15°41	1°46	3° 4	15°44	n.a.	W 9
T 10	21 0 38	13°17'36	5♐24	25°31	26°21	26°11	24° 2	9°58	10°51	27°33	15°40	1°44	3° 1	15°50	n.a.	T 10
F 11	21 4 35	14°15'59	19°50	26°47	25°58	26°50	23°57	10° 6	10°49	27°34	15°38	1°40	2°58	15°57	n.a.	F 11
S 12	21 8 31	15°14'23	4♑36	28° 8	25°38	27°29	23°52	10°13	10°47	27°35	15°37	1°35	2°54	16° 4	n.a.	S 12
S 13	21 12 28	16°12'49	19°38	29°35	25°19	28° 8	23°48	10°21	10°45	27°36	15°36	1°28	2°51	16°11	n.a.	S 13
M14	21 16 24	17°11'17	4♒45	1♌ 6	25° 3	28°47	23°43	10°28	10°43	27°37	15°35	1°21	2°48	16°17	n.a.	M14
T 15	21 20 21	18° 9'47	19°49	2°42	24°49	29°26	23°37	10°36	10°41	27°38	15°34	1°15	2°45	16°24	n.a.	T 15
W16	21 24 17	19° 8'18	4♓40	4°21	24°37	0♍ 6	23°32	10°43	10°38	27°39	15°32	1°11	2°42	16°31	n.a.	W16
T 17	21 28 14	20° 6'52	19°10	6° 2	24°28	0°45	23°27	10°51	10°36	27°40	15°31	1° 9	2°38	16°38	n.a.	T 17
F 18	21 32 10	21° 5'28	3♈14	7°47	24°22	1°24	23°21	10°58	10°34	27°41	15°30	1°D 8	2°35	16°44	n.a.	F 18
S 19	21 36 7	22° 4'06	16°51	9°33	24°18	2° 4	23°15	11° 6	10°32	27°42	15°29	1° 9	2°32	16°51	n.a.	S 19
S 20	21 40 3	23° 2'46	0♉ 0	11°21	24°D16	2°43	23° 9	11°13	10°29	27°44	15°27	1°10	2°29	16°58	n.a.	S 20
M21	21 44 0	24° 1'29	12°46	13°10	24°16	3°23	23° 3	11°20	10°27	27°45	15°26	1°12	2°26	17° 4	n.a.	M21
T 22	21 47 57	25° 0'15	25°13	15° 0	24°19	4° 2	22°57	11°28	10°25	27°46	15°25	1°R12	2°23	17°11	n.a.	T 22
W23	21 51 53	25°59'02	7♊23	16°51	24°25	4°42	22°51	11°35	10°23	27°47	15°24	1°12	2°19	17°18	n.a.	W23
T 24	21 55 50	26°57'52	19°23	18°42	24°32	5°21	22°44	11°43	10°20	27°49	15°22	1° 9	2°16	17°25	n.a.	T 24
F 25	21 59 46	27°56'45	1♋17	20°33	24°42	6° 1	22°38	11°50	10°18	27°50	15°21	1° 6	2°13	17°31	n.a.	F 25
S 26	22 3 43	28°55'39	13° 9	22°24	24°54	6°41	22°31	11°57	10°15	27°51	15°20	1° 1	2°10	17°38	n.a.	S 26
S 27	22 7 39	29°54'36	25° 1	24°14	25° 8	7°20	22°24	12° 5	10°13	27°53	15°19	0°55	2° 7	17°45	n.a.	S 27
M28	22 11 36	0♍53'36	6♌58	26° 5	25°24	8° 0	22°17	12°12	10°11	27°54	15°18	0°50	2° 4	17°51	n.a.	M28
T 29	22 15 32	1°52'37	19° 0	27°54	25°42	8°40	22°10	12°19	10° 8	27°55	15°16	0°45	2° 0	17°58	n.a.	T 29
W30	22 19 29	2°51'41	1♍10	29°43	26° 1	9°20	22° 3	12°26	10° 6	27°57	15°15	0°41	1°57	18° 5	n.a.	W30
T 31	22 23 26	3♍50'46	13♍30	1♍32	26♋23	10♍ 0	21♓55	12♌33	10♓ 4	27♎58	15♒14	0♈38	1♈54	18♋12	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	19n21	21n44	3n59	20n 7	2s 9	12n18	8s 3	15n52	1n 3	3s42	1s40	19n32	1n19	8s13	0s48	8s53	1n55	30s 2	14s30	0n50	1n24	27n54			n.a.
W 2	19 7	17 21	3 15	20 24	1 51	12 22	8 7	15 39	1 3	3 44	1 40	19 30	1 19	8 13	0 48	8 54	1 55	30 2	14 30	0 46	1 23	27 53			n.a.
T 3	18 52	12 14	2 21	20 40	1 33	12 26	8 10	15 27	1 2	3 45	1 40	19 28	1 19	8 14	0 48	8 54	1 55	30 3	14 30	0 44	1 22	27 52			n.a.
F 4	18 37	6 36	1 21	20 54	1 15	12 31	8 12	15 13	1 2	3 47	1 40	19 26	1 19	8 15	0 48	8 54	1 55	30 3	14 30	0 43	1 20	27 51			n.a.
S 5	18 22	0 39	0 15	21 7	0 58	12 36	8 13	15 0	1 2	3 48	1 41	19 24	1 19	8 16	0 48	8 55	1 55	30 4	14 30	0 42	1 19	27 50			n.a.
S 6	18 6	5s27	0s53	21 17	0 41	12 42	8 13	14 47	1 1	3 50	1 41	19 22	1 20	8 16	0 48	8 55	1 55	30 4	14 30	0 42	1 18	27 49			n.a.
M 7	17 51	11 27	1 59	21 26	0 25	12 49	8 13	14 34	1 1	3 52	1 41	19 20	1 20	8 17	0 48	8 55	1 55	30 5	14 30	0 43	1 16	27 48			n.a.
T 8	17 35	17 6	3 1	21 32	0 9	12 55	8 11	14 20	1 1	3 54	1 41	19 18	1 20	8 18	0 48	8 56	1 55	30 5	14 30	0 43	1 15	27 47			n.a.
W 9	17 18	22 5	3 55	21 35	0n 6	13 2	8 9	14 6	1 0	3 55	1 42	19 16	1 20	8 19	0 48	8 56	1 55	30 6	14 30	0 43	1 14	27 46			n.a.
T 10	17 1	25 59	4 36	21 36	0 20	13 10	8 6	13 53	1 0	3 57	1 42	19 14	1 20	8 19	0 48	8 56	1 55	30 6	14 31	0 42	1 13	27 45			n.a.
F 11	16 44	28 20	5 1	21 35	0 33	13 17	8 3	13 39	1 0	3 59	1 42	19 12	1 20	8 20	0 48	8 57	1 55	30 7	14 31	0 40	1 11	27 44			n.a.
S 12	16 27	28 45	5 7	21 30	0 45	13 25	7 59	13 25	0 59	4 1	1 42	19 10	1 20	8 21	0 48	8 57	1 55	30 7	14 31	0 38	1 10	27 43			n.a.
S 13	16 10	27 5	4 53	21 23	0 56	13 33	7 54	13 11	0 59	4 4	1 43	19 8	1 20	8 22	0 48	8 58	1 55	30 7	14 31	0 35	1 9	27 42			n.a.
M14	15 52	23 27	4 18	21 13	1 6	13 41	7 49	12 57	0 59	4 6	1 43	19 6	1 20	8 23	0 48	8 58	1 55	30 8	14 31	0 33	1 8	27 41			n.a.
T 15	15 34	18 16	3 25	21 0	1 14	13 50	7 43	12 43	0 58	4 8	1 43	19 4	1 20	8 24	0 48	8 58	1 55	30 8	14 31	0 30	1 6	27 40			n.a.
W16	15 15	12 3	2 18	20 44	1 22	13 58	7 36	12 28	0 58	4 10	1 43	19 2	1 20	8 24	0 48	8 59	1 54	30 9	14 31	0 29	1 5	27 38			n.a.
T 17	14 57	5 19	1 4	20 25	1 29	14 6	7 29	12 14	0 58	4 13	1 44	19 0	1 20	8 25	0 48	8 59	1 54	30 9	14 31	0 28	1 4	27 37			n.a.
F 18	14 38	1n28	0n11	20 4	1 35	14 14	7 22	11 59	0 57	4 15	1 44	18 58	1 20	8 26	0 48	9 0	1 54	30 9	14 31	0 27	1 2	27 36			n.a.
S 19	14 19	7 59	1 24	19 40	1 40	14 23	7 14	11 45	0 57	4 18	1 44	18 56	1 21	8 27	0 48	9 0	1 54	30 10	14 31	0 28	1 1	27 35			n.a.
S 20	14 0	13 57	2 30	19 14	1 43	14 31	7 6	11 30	0 57	4 20	1 44	18 54	1 21	8 28	0 48	9 1	1 54	30 10	14 31	0 28	1 0	27 34			n.a.
M21	13 40	19 8	3 27	18 45	1 46	14 39	6 58	11 15	0 56	4 23	1 44	18 52	1 21	8 29	0 48	9 1	1 54	30 11	14 31	0 29	0 59	27 33			n.a.
T 22	13 20	23 22	4 12	18 15	1 49	14 47	6 50	11 1	0 56	4 26	1 45	18 50	1 21	8 30	0 48	9 2	1 54	30 11	14 31	0 29	0 57	27 32			n.a.
W23	13 0	26 29	4 45	17 43	1 50	14 54	6 41	10 46	0 55	4 28	1 45	18 48	1 21	8 31	0 48	9 2	1 54	30 11	14 31	0 29	0 56	27 31			n.a.
T 24	12 40	28 21	5 5	17 9	1 51	15 2	6 32	10 31	0 55	4 31	1 45	18 46	1 21	8 32	0 48	9 3	1 54	30 12	14 31	0 28	0 55	27 30			n.a.
F 25	12 20	28 54	5 11	16 33	1 51	15 9	6 23	10 15	0 55	4 34	1 45	18 44	1 21	8 32	0 48	9 3	1 54	30 12	14 31	0 26	0 54	27 29			n.a.
S 26	11 59	28 7	5 4	15 56	1 50	15 16	6 14	10 0	0 54	4 37	1 45	18 42	1 21	8 33	0 48	9 4	1 54	30 12	14 30	0 24	0 52	27 27			n.a.
S 27	11 38	26 2	4 45	15 18	1 48	15 23	6 4	9 45	0 54	4 40	1 45	18 40	1 21	8 34	0 48	9 4	1 54	30 13	14 30	0 22	0 51	27 26			n.a.
M28	11 17	22 48	4 12	14 38	1 47	15 29	5 55	9 30	0 54	4 43	1 46	18 38	1 22	8 35	0 48	9 5	1 54	30 13	14 30	0 20	0 50	27 25			n.a.
T 29	10 56	18 35	3 28	13 58	1 44	15 36	5 46	9 14	0 53	4 45	1 46	18 36	1 22	8 36	0 48	9 5	1 54	30 13	14 30	0 18	0 48	27 24			n.a.
W30	10 34	13 35	2 34	13 17	1 41	15 41	5 36	8 59	0 53	4 48	1 46	18 35	1 22	8 37	0 48	9 6	1 54	30 14	14 30	0 16	0 47	27 23			n.a.
T 31	10n13	7n59	1n33	12n35	1n38	15n47	5s26	8n43	0n52	4s52	1s46	18n33	1n22	8s38	0s48	9s 7	1n54	30s14	14s30	0n15	0n46	27n21			n.a.

Julian Day Number = 1658447.5, Delta T = 03h27m05s
Ecliptic obliquity = 23°43'07, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°26'53, Lahiri = - 6°19'53 Julian Calendar 1 Aug. 173 BCE == Greg. Calendar 29 July 173 BCE

The year -172 astronomical counting style corresponds to year 173 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 173 BCE
geocentric

SEPTEMBER 173 BCE (-172) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	22 27 22	4♍49'54	25♍59	3♍19	26♋47	10♍39	21°R48	12♌41	10°R 1	28♎ 0	15°R13	0°D37	1♈51	18♋18	n.a.	F 1
S 2	22 31 19	5°49'04	8♎40	5° 6	27°12	11°19	21♓40	12°48	9♓59	28° 1	15♒12	0♈37	1°48	18°25	n.a.	S 2
S 3	22 35 15	6°48'16	21°33	6°53	27°39	11°59	21°33	12°55	9°56	28° 3	15°11	0°38	1°44	18°32	n.a.	S 3
M 4	22 39 12	7°47'30	4♏40	8°38	28° 7	12°39	21°25	13° 2	9°54	28° 4	15° 9	0°40	1°41	18°38	n.a.	M 4
T 5	22 43 8	8°46'46	18° 3	10°23	28°37	13°19	21°18	13° 9	9°51	28° 6	15° 8	0°41	1°38	18°45	n.a.	T 5
W 6	22 47 5	9°46'03	1♐42	12° 6	29° 9	14° 0	21°10	13°16	9°49	28° 8	15° 7	0°42	1°35	18°52	n.a.	W 6
T 7	22 51 1	10°45'23	15°38	13°49	29°42	14°40	21° 2	13°23	9°47	28° 9	15° 6	0°R42	1°32	18°59	n.a.	T 7
F 8	22 54 58	11°44'44	29°50	15°32	0♌16	15°20	20°54	13°30	9°44	28°11	15° 5	0°41	1°29	19° 5	n.a.	F 8
S 9	22 58 55	12°44'08	14♑17	17°13	0°52	16° 0	20°46	13°37	9°42	28°13	15° 4	0°40	1°25	19°12	n.a.	S 9
S 10	23 2 51	13°43'33	28°54	18°54	1°29	16°40	20°38	13°44	9°39	28°14	15° 3	0°38	1°22	19°19	n.a.	S 10
M11	23 6 48	14°43'00	13♒37	20°33	2° 7	17°21	20°30	13°51	9°37	28°16	15° 2	0°36	1°19	19°25	n.a.	M11
T 12	23 10 44	15°42'29	28°19	22°13	2°47	18° 1	20°22	13°57	9°34	28°18	15° 1	0°34	1°16	19°32	n.a.	T 12
W13	23 14 41	16°42'00	12♓52	23°51	3°27	18°41	20°14	14° 4	9°32	28°20	15° 0	0°32	1°13	19°39	n.a.	W13
T 14	23 18 37	17°41'33	27°10	25°29	4° 9	19°22	20° 6	14°11	9°30	28°22	14°59	0°D32	1° 9	19°46	n.a.	T 14
F 15	23 22 34	18°41'08	11♈ 9	27° 6	4°52	20° 2	19°58	14°18	9°27	28°23	14°58	0°32	1° 6	19°52	n.a.	F 15
S 16	23 26 30	19°40'45	24°45	28°42	5°36	20°43	19°50	14°24	9°25	28°25	14°57	0°33	1° 3	19°59	n.a.	S 16
S 17	23 30 27	20°40'25	7♉57	0♎18	6°21	21°23	19°41	14°31	9°22	28°27	14°56	0°34	1° 0	20° 6	n.a.	S 17
M18	23 34 23	21°40'07	20°47	1°53	7° 7	22° 4	19°33	14°37	9°20	28°29	14°55	0°35	0°57	20°13	n.a.	M18
T 19	23 38 20	22°39'52	3♊18	3°27	7°54	22°45	19°25	14°44	9°18	28°31	14°54	0°35	0°54	20°19	n.a.	T 19
W20	23 42 17	23°39'38	15°31	5° 1	8°41	23°25	19°17	14°50	9°15	28°33	14°53	0°36	0°50	20°26	n.a.	W20
T 21	23 46 13	24°39'28	27°33	6°34	9°30	24° 6	19° 9	14°57	9°13	28°35	14°52	0°R36	0°47	20°33	n.a.	T 21
F 22	23 50 10	25°39'19	9♋28	8° 7	10°19	24°47	19° 1	15° 3	9°11	28°37	14°51	0°36	0°44	20°39	n.a.	F 22
S 23	23 54 6	26°39'13	21°20	9°39	11°10	25°28	18°53	15° 9	9° 9	28°39	14°50	0°35	0°41	20°46	n.a.	S 23
S 24	23 58 3	27°39'09	3♌13	11°10	12° 1	26° 8	18°45	15°16	9° 6	28°41	14°49	0°35	0°38	20°53	n.a.	S 24
M25	0 1 59	28°39'07	15°13	12°41	12°53	26°49	18°37	15°22	9° 4	28°43	14°48	0°35	0°35	21° 0	n.a.	M25
T 26	0 5 56	29°39'08	27°21	14°12	13°45	27°30	18°29	15°28	9° 2	28°45	14°48	0°34	0°31	21° 6	n.a.	T 26
W27	0 9 52	0♎39'10	9♍41	15°41	14°38	28°11	18°22	15°34	9° 0	28°47	14°47	0°D34	0°28	21°13	n.a.	W27
T 28	0 13 49	1°39'15	22°15	17°11	15°32	28°52	18°14	15°40	8°57	28°49	14°46	0°34	0°25	21°20	n.a.	T 28
F 29	0 17 46	2°39'22	5♎ 3	18°39	16°27	29°33	18° 6	15°46	8°55	28°51	14°45	0°R34	0°22	21°26	n.a.	F 29
S 30	0 21 42	3♎39'30	18♎ 6	20♎ 7	17♌22	0♎15	17♓59	15♌52	8♓53	28♎53	14♒44	0♈34	0♈19	21♋33	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	9n51	2n 0	0n25	11n52	1n34	15n52	5s17	8n27	0n52	4s55	1s46	18n31	1n22	8s39	0s48	9s 7	1n54	30s14	14s30	0n15	0n45	27n20		n.a.
S 2	9 29	4s 9	0s44	11 9	1 30	15 57	5 7	8 12	0 52	4 58	1 46	18 29	1 22	8 40	0 48	9 8	1 53	30 15	14 30	0 15	0 43	27 19		n.a.
S 3	9 7	10 14	1 53	10 25	1 26	16 1	4 57	7 56	0 51	5 1	1 46	18 27	1 22	8 41	0 48	9 8	1 53	30 15	14 30	0 15	0 42	27 18		n.a.
M 4	8 45	16 0	2 57	9 41	1 21	16 5	4 48	7 40	0 51	5 4	1 46	18 25	1 22	8 42	0 48	9 9	1 53	30 15	14 30	0 16	0 41	27 17		n.a.
T 5	8 22	21 7	3 52	8 56	1 16	16 8	4 38	7 24	0 50	5 7	1 46	18 23	1 22	8 43	0 48	9 10	1 53	30 15	14 30	0 17	0 39	27 15		n.a.
W 6	8 0	25 14	4 36	8 11	1 11	16 11	4 29	7 8	0 50	5 10	1 46	18 21	1 23	8 43	0 48	9 10	1 53	30 16	14 30	0 17	0 38	27 14		n.a.
T 7	7 37	27 59	5 4	7 26	1 5	16 14	4 19	6 52	0 50	5 13	1 47	18 19	1 23	8 44	0 48	9 11	1 53	30 16	14 29	0 17	0 37	27 13		n.a.
F 8	7 14	28 58	5 15	6 41	1 0	16 16	4 10	6 36	0 49	5 17	1 47	18 17	1 23	8 45	0 48	9 12	1 53	30 16	14 29	0 17	0 36	27 12		n.a.
S 9	6 51	28 1	5 6	5 56	0 54	16 17	4 0	6 20	0 49	5 20	1 47	18 15	1 23	8 46	0 48	9 12	1 53	30 16	14 29	0 16	0 34	27 10		n.a.
S 10	6 28	25 9	4 38	5 11	0 48	16 19	3 51	6 4	0 48	5 23	1 47	18 13	1 23	8 47	0 48	9 13	1 53	30 16	14 29	0 15	0 33	27 9		n.a.
M11	6 5	20 37	3 51	4 25	0 42	16 19	3 42	5 47	0 48	5 26	1 47	18 12	1 23	8 48	0 48	9 13	1 53	30 17	14 29	0 14	0 32	27 8		n.a.
T 12	5 42	14 50	2 49	3 40	0 35	16 19	3 32	5 31	0 47	5 30	1 47	18 10	1 23	8 49	0 48	9 14	1 53	30 17	14 29	0 14	0 31	27 7		n.a.
W13	5 19	8 17	1 36	2 55	0 29	16 19	3 23	5 15	0 47	5 33	1 47	18 8	1 24	8 50	0 48	9 15	1 53	30 17	14 29	0 13	0 29	27 5		n.a.
T 14	4 55	1 25	0 19	2 10	0 22	16 18	3 14	4 58	0 47	5 36	1 47	18 6	1 24	8 51	0 48	9 16	1 53	30 17	14 28	0 13	0 28	27 4		n.a.
F 15	4 32	5n21	0n58	1 25	0 16	16 16	3 5	4 42	0 46	5 39	1 47	18 4	1 24	8 52	0 48	9 16	1 53	30 17	14 28	0 13	0 27	27 3		n.a.
S 16	4 8	11 42	2 10	0 40	0 9	16 14	2 56	4 25	0 46	5 42	1 47	18 2	1 24	8 53	0 48	9 17	1 53	30 18	14 28	0 13	0 25	27 1		n.a.
S 17	3 44	17 21	3 13	0s 5	0 3	16 12	2 48	4 9	0 45	5 46	1 47	18 1	1 24	8 54	0 48	9 18	1 53	30 18	14 28	0 14	0 24	27 0		n.a.
M18	3 20	22 4	4 4	0 49	0s 4	16 9	2 39	3 52	0 45	5 49	1 47	17 59	1 24	8 54	0 48	9 18	1 53	30 18	14 28	0 14	0 23	26 59		n.a.
T 19	2 57	25 40	4 42	1 33	0 11	16 5	2 30	3 35	0 44	5 52	1 47	17 57	1 24	8 55	0 48	9 19	1 53	30 18	14 28	0 14	0 22	26 57		n.a.
W20	2 33	27 59	5 6	2 17	0 18	16 1	2 22	3 19	0 44	5 55	1 47	17 55	1 25	8 56	0 48	9 20	1 53	30 18	14 27	0 14	0 20	26 56		n.a.
T 21	2 9	28 58	5 16	3 1	0 25	15 56	2 14	3 2	0 43	5 58	1 47	17 53	1 25	8 57	0 48	9 20	1 53	30 18	14 27	0 14	0 19	26 55		n.a.
F 22	1 45	28 35	5 13	3 44	0 31	15 51	2 5	2 45	0 43	6 2	1 47	17 52	1 25	8 58	0 48	9 21	1 53	30 18	14 27	0 14	0 18	26 53		n.a.
S 23	1 21	26 53	4 56	4 27	0 38	15 45	1 57	2 28	0 43	6 5	1 47	17 50	1 25	8 59	0 48	9 22	1 53	30 18	14 27	0 14	0 16	26 52		n.a.
S 24	0 57	23 59	4 27	5 10	0 45	15 38	1 49	2 12	0 42	6 8	1 46	17 48	1 25	9 0	0 48	9 23	1 53	30 18	14 27	0 14	0 15	26 51		n.a.
M25	0 33	20 3	3 46	5 52	0 52	15 31	1 41	1 55	0 42	6 11	1 46	17 47	1 25	9 0	0 48	9 23	1 53	30 19	14 26	0 14	0 14	26 49		n.a.
T 26	0 8	15 15	2 54	6 33	0 58	15 24	1 34	1 38	0 41	6 14	1 46	17 45	1 26	9 1	0 48	9 24	1 52	30 19	14 26	0 14	0 13	26 48		n.a.
W27	0s16	9 46	1 53	7 15	1 5	15 16	1 26	1 21	0 41	6 17	1 46	17 43	1 26	9 2	0 48	9 25	1 52	30 19	14 26	0 14	0 11	26 46		n.a.
T 28	0 40	3 49	0 46	7 55	1 11	15 7	1 19	1 4	0 40	6 20	1 46	17 42	1 26	9 3	0 48	9 26	1 52	30 19	14 26	0 14	0 10	26 45		n.a.
F 29	1 4	2s24	0s25	8 35	1 18	14 58	1 11	0 47	0 40	6 23	1 46	17 40	1 26	9 4	0 48	9 26	1 52	30 19	14 25	0 14	0 9	26 44		n.a.
S 30	1s28	8s39	1s36	9s15	1s24	14n48	1s 4	0n30	0n39	6s26	1s46	17n38	1n26	9s 5	0s48	9s27	1n52	30s19	14s25	0n14	0n 7	26n42		n.a.

Julian Day Number = 1658478.5, Delta T = 03h27m04s
Ecliptic obliquity = 23°43'07, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°26'49, Lahiri = - 6°19'49 Julian Calendar 1 Sept. 173 BCE == Greg. Calendar 29 Aug. 173 BCE

The year -172 astronomical counting style corresponds to year 173 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 173 BCE
geocentric

OCTOBER 173 BCE (-172) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 25 39	4♎39'41	1♏23	21♎35	18♌18	0♎56	17°R51	15♌58	8°R51	28♎55	14°R44	0°R34	0♈15	21♋40	n.a.	S 1
M 2	0 29 35	5°39'53	14°53	23° 2	19°14	1°37	17♓44	16° 3	8♓49	28°57	14♒43	0♈33	0°12	21°47	n.a.	M 2
T 3	0 33 32	6°40'07	28°36	24°28	20°11	2°18	17°37	16° 9	8°47	28°59	14°42	0°33	0° 9	21°53	n.a.	T 3
W 4	0 37 28	7°40'23	12♐29	25°53	21° 9	3° 0	17°30	16°15	8°45	29° 1	14°42	0°32	0° 6	22° 0	n.a.	W 4
T 5	0 41 25	8°40'41	26°30	27°18	22° 7	3°41	17°22	16°20	8°43	29° 3	14°41	0°31	0° 3	22° 7	n.a.	T 5
F 6	0 45 21	9°41'00	10♑38	28°42	23° 5	4°22	17°16	16°26	8°41	29° 6	14°40	0°D31	29♓59	22°13	n.a.	F 6
S 7	0 49 18	10°41'20	24°51	0♏ 6	24° 4	5° 4	17° 9	16°31	8°39	29° 8	14°40	0°32	29°56	22°20	n.a.	S 7
S 8	0 53 15	11°41'42	9♒ 7	1°28	25° 4	5°45	17° 2	16°36	8°37	29°10	14°39	0°32	29°53	22°27	n.a.	S 8
M 9	0 57 11	12°42'06	23°22	2°49	26° 4	6°27	16°55	16°42	8°35	29°12	14°39	0°33	29°50	22°34	n.a.	M 9
T 10	1 1 8	13°42'31	7♓34	4°10	27° 4	7° 8	16°49	16°47	8°33	29°14	14°38	0°34	29°47	22°40	n.a.	T 10
W11	1 5 4	14°42'57	21°39	5°29	28° 5	7°50	16°43	16°52	8°31	29°16	14°38	0°35	29°44	22°47	n.a.	W11
T 12	1 9 1	15°43'25	5♈34	6°47	29° 6	8°31	16°37	16°57	8°29	29°19	14°37	0°R35	29°41	22°54	n.a.	T 12
F 13	1 12 57	16°43'55	19°15	8° 3	0♍ 8	9°13	16°31	17° 2	8°28	29°21	14°37	0°34	29°37	23° 0	n.a.	F 13
S 14	1 16 54	17°44'26	2♉40	9°18	1°10	9°55	16°25	17° 7	8°26	29°23	14°36	0°33	29°34	23° 7	n.a.	S 14
S 15	1 20 50	18°44'59	15°46	10°31	2°12	10°37	16°19	17°12	8°24	29°25	14°36	0°30	29°31	23°14	n.a.	S 15
M16	1 24 47	19°45'34	28°34	11°42	3°15	11°18	16°13	17°17	8°23	29°28	14°35	0°27	29°28	23°20	n.a.	M16
T 17	1 28 44	20°46'11	11♊ 5	12°51	4°19	12° 0	16° 8	17°21	8°21	29°30	14°35	0°24	29°25	23°27	n.a.	T 17
W18	1 32 40	21°46'50	23°20	13°58	5°22	12°42	16° 3	17°26	8°19	29°32	14°35	0°21	29°21	23°34	n.a.	W18
T 19	1 36 37	22°47'30	5♋23	15° 1	6°26	13°24	15°58	17°30	8°18	29°34	14°34	0°19	29°18	23°41	n.a.	T 19
F 20	1 40 33	23°48'12	17°19	16° 1	7°30	14° 6	15°53	17°35	8°16	29°37	14°34	0°18	29°15	23°47	n.a.	F 20
S 21	1 44 30	24°48'56	29°10	16°57	8°35	14°48	15°48	17°39	8°15	29°39	14°34	0°D18	29°12	23°54	n.a.	S 21
S 22	1 48 26	25°49'42	11♌ 3	17°50	9°40	15°30	15°44	17°43	8°13	29°41	14°33	0°19	29° 9	24° 1	n.a.	S 22
M23	1 52 23	26°50'29	23° 3	18°37	10°45	16°12	15°39	17°48	8°12	29°43	14°33	0°20	29° 6	24° 7	n.a.	M23
T 24	1 56 19	27°51'18	5♍13	19°19	11°50	16°55	15°35	17°52	8°11	29°46	14°33	0°22	29° 2	24°14	n.a.	T 24
W25	2 0 16	28°52'08	17°38	19°55	12°56	17°37	15°31	17°56	8° 9	29°48	14°33	0°24	28°59	24°21	n.a.	W25
T 26	2 4 13	29°53'00	0♎22	20°24	14° 2	18°19	15°27	18° 0	8° 8	29°50	14°33	0°R24	28°56	24°28	n.a.	T 26
F 27	2 8 9	0♏53'53	13°26	20°46	15° 9	19° 1	15°24	18° 3	8° 7	29°52	14°32	0°23	28°53	24°34	n.a.	F 27
S 28	2 12 6	1°54'48	26°50	20°59	16°15	19°44	15°20	18° 7	8° 6	29°55	14°32	0°21	28°50	24°41	n.a.	S 28
S 29	2 16 2	2°55'44	10♏33	21°R 3	17°22	20°26	15°17	18°11	8° 5	29°57	14°32	0°17	28°46	24°48	n.a.	S 29
M30	2 19 59	3°56'42	24°33	20°57	18°29	21° 9	15°14	18°14	8° 4	29°59	14°32	0°12	28°43	24°54	n.a.	M30
T 31	2 23 55	4♏57'40	8♐44	20♏41	19♍36	21♎51	15♓11	18♌18	8♓ 3	0♏ 1	14♒32	0♈ 6	28♓40	25♋ 1	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	1s52	14s38	2s43	9s54	1s30	14n37	0s57	0n13	0n39	6s28	1s46	17n37	1n26	9s 5	0s48	9s28	1n52	30s19	14s25	0n14	0n 6	26n41			n.a.
M 2	2 17	20 1	3 42	10 33	1 36	14 26	0 50	0s 4	0 38	6 31	1 46	17 35	1 27	9 6	0 48	9 29	1 52	30 19	14 25	0 13	0 5	26 39			n.a.
T 3	2 41	24 27	4 29	11 10	1 42	14 15	0 43	0 21	0 38	6 34	1 45	17 34	1 27	9 7	0 48	9 30	1 52	30 19	14 25	0 13	0 4	26 38			n.a.
W 4	3 5	27 32	5 1	11 47	1 48	14 3	0 36	0 38	0 37	6 37	1 45	17 32	1 27	9 8	0 48	9 30	1 52	30 19	14 24	0 13	0 2	26 37			n.a.
T 5	3 29	28 56	5 16	12 24	1 54	13 50	0 29	0 55	0 37	6 39	1 45	17 31	1 27	9 8	0 48	9 31	1 52	30 19	14 24	0 13	0 1	26 35			n.a.
F 6	3 53	28 28	5 12	12 59	1 59	13 37	0 23	1 12	0 36	6 42	1 45	17 29	1 27	9 9	0 48	9 32	1 52	30 19	14 24	0 13	0s 0	26 34			n.a.
S 7	4 17	26 8	4 49	13 34	2 4	13 24	0 16	1 29	0 36	6 44	1 45	17 28	1 28	9 10	0 48	9 33	1 52	30 19	14 24	0 13	0 1	26 32			n.a.
S 8	4 41	22 10	4 8	14 8	2 9	13 10	0 10	1 46	0 35	6 47	1 45	17 26	1 28	9 11	0 48	9 34	1 52	30 19	14 23	0 13	0 3	26 31			n.a.
M 9	5 4	16 54	3 12	14 41	2 14	12 55	0 4	2 3	0 35	6 49	1 44	17 25	1 28	9 11	0 48	9 34	1 52	30 18	14 23	0 13	0 4	26 29			n.a.
T 10	5 28	10 44	2 4	15 13	2 18	12 40	0n 2	2 20	0 34	6 52	1 44	17 23	1 28	9 12	0 48	9 35	1 52	30 18	14 23	0 14	0 5	26 28			n.a.
W11	5 52	4 6	0 49	15 44	2 22	12 24	0 8	2 37	0 34	6 54	1 44	17 22	1 28	9 13	0 48	9 36	1 52	30 18	14 22	0 14	0 7	26 26			n.a.
T 12	6 15	2n39	0n28	16 13	2 26	12 8	0 14	2 55	0 33	6 56	1 44	17 21	1 29	9 13	0 48	9 37	1 52	30 18	14 22	0 14	0 8	26 25			n.a.
F 13	6 39	9 11	1 41	16 42	2 29	11 51	0 19	3 12	0 33	6 58	1 44	17 19	1 29	9 14	0 48	9 38	1 52	30 18	14 22	0 14	0 9	26 23			n.a.
S 14	7 2	15 10	2 48	17 9	2 32	11 34	0 25	3 29	0 32	7 0	1 43	17 18	1 29	9 15	0 48	9 38	1 52	30 18	14 22	0 13	0 10	26 22			n.a.
S 15	7 26	20 19	3 44	17 35	2 34	11 17	0 30	3 46	0 32	7 2	1 43	17 17	1 29	9 15	0 48	9 39	1 52	30 18	14 21	0 12	0 12	26 20			n.a.
M16	7 49	24 25	4 27	18 0	2 36	10 59	0 35	4 3	0 31	7 4	1 43	17 15	1 29	9 16	0 48	9 40	1 52	30 18	14 21	0 11	0 13	26 19			n.a.
T 17	8 12	27 16	4 57	18 23	2 38	10 40	0 40	4 20	0 31	7 6	1 43	17 14	1 30	9 16	0 48	9 41	1 52	30 18	14 21	0 10	0 14	26 17			n.a.
W18	8 35	28 45	5 12	18 44	2 38	10 21	0 45	4 37	0 30	7 8	1 42	17 13	1 30	9 17	0 48	9 42	1 52	30 17	14 20	0 9	0 16	26 15			n.a.
T 19	8 58	28 49	5 13	19 3	2 38	10 2	0 50	4 54	0 30	7 10	1 42	17 12	1 30	9 17	0 48	9 42	1 52	30 17	14 20	0 8	0 17	26 14			n.a.
F 20	9 21	27 33	5 1	19 20	2 38	9 42	0 55	5 11	0 29	7 12	1 42	17 10	1 30	9 18	0 48	9 43	1 52	30 17	14 20	0 7	0 18	26 12			n.a.
S 21	9 43	25 3	4 36	19 36	2 37	9 22	1 0	5 28	0 29	7 13	1 42	17 9	1 30	9 19	0 48	9 44	1 52	30 17	14 20	0 7	0 19	26 11			n.a.
S 22	10 6	21 28	3 58	19 49	2 34	9 1	1 4	5 45	0 28	7 15	1 41	17 8	1 31	9 19	0 48	9 45	1 52	30 17	14 19	0 7	0 21	26 9			n.a.
M23	10 28	16 59	3 11	19 59	2 31	8 40	1 8	6 1	0 27	7 16	1 41	17 7	1 31	9 20	0 48	9 46	1 52	30 16	14 19	0 8	0 22	26 8			n.a.
T 24	10 50	11 47	2 14	20 7	2 27	8 19	1 12	6 18	0 27	7 18	1 41	17 6	1 31	9 20	0 48	9 46	1 52	30 16	14 19	0 9	0 23	26 6			n.a.
W25	11 12	6 0	1 9	20 12	2 22	7 57	1 16	6 35	0 26	7 19	1 41	17 5	1 31	9 20	0 48	9 47	1 52	30 16	14 18	0 9	0 24	26 4			n.a.
T 26	11 34	0s 9	0 0	20 14	2 15	7 35	1 20	6 52	0 26	7 20	1 40	17 4	1 32	9 21	0 48	9 48	1 52	30 16	14 18	0 10	0 26	26 3			n.a.
F 27	11 55	6 27	1s11	20 12	2 7	7 13	1 24	7 9	0 25	7 21	1 40	17 3	1 32	9 21	0 47	9 49	1 52	30 16	14 18	0 9	0 27	26 1			n.a.
S 28	12 17	12 37	2 19	20 7	1 58	6 50	1 28	7 25	0 25	7 22	1 40	17 2	1 32	9 22	0 47	9 50	1 52	30 15	14 18	0 8	0 28	26 0			n.a.
S 29	12 38	18 21	3 22	19 57	1 48	6 27	1 31	7 42	0 24	7 23	1 39	17 1	1 32	9 22	0 47	9 50	1 52	30 15	14 17	0 7	0 30	25 58			n.a.
M30	12 59	23 13	4 13	19 44	1 35	6 3	1 34	7 59	0 24	7 24	1 39	17 0	1 32	9 22	0 47	9 51	1 52	30 15	14 17	0 5	0 31	25 56			n.a.
T 31	13s20	26s47	4s49	19s26	1s21	5n39	1n38	8s15	0n23	7s25	1s39	16n59	1n33	9s23	0s47	9s52	1n52	30s15	14s17	0n 3	0s32	25n55			n.a.

Julian Day Number = 1658508.5, Delta T = 03h27m03s
Ecliptic obliquity = 23°43'08, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°26'45, Lahiri = - 6°19'45 Julian Calendar 1 Oct. 173 BCE == Greg. Calendar 28 Sept. 173 BCE

The year -172 astronomical counting style corresponds to year 173 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 173 BCE
geocentric

NOVEMBER 173 BCE (-172) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	2 27 52	5♏58'40	23♐ 3	20°R14	20♍44	22♎34	15°R 9	18♌21	8°R 2	0♏ 4	14°D32	0°R 1	28♓37	25♋ 8	n.a.	W 1
T 2	2 31 48	6°59'40	7♑23	19♏35	21°51	23°16	15♓ 6	18°24	8♓ 1	0° 6	14♒32	29♓57	28°34	25°15	n.a.	T 2
F 3	2 35 45	8° 0'41	21°41	18°46	22°59	23°59	15° 4	18°28	8° 0	0° 8	14°32	29°54	28°31	25°21	n.a.	F 3
S 4	2 39 42	9° 1'43	5♒53	17°46	24° 7	24°41	15° 2	18°31	7°59	0°10	14°32	29°D52	28°27	25°28	n.a.	S 4
S 5	2 43 38	10° 2'46	19°58	16°38	25°16	25°24	15° 1	18°34	7°58	0°13	14°32	29°53	28°24	25°35	n.a.	S 5
M 6	2 47 35	11° 3'49	3♓54	15°22	26°24	26° 7	14°59	18°36	7°58	0°15	14°32	29°54	28°21	25°41	n.a.	M 6
T 7	2 51 31	12° 4'53	17°41	14° 1	27°33	26°50	14°58	18°39	7°57	0°17	14°32	29°55	28°18	25°48	n.a.	T 7
W 8	2 55 28	13° 5'57	1♈18	12°39	28°42	27°32	14°56	18°42	7°56	0°19	14°33	29°R56	28°15	25°55	n.a.	W 8
T 9	2 59 24	14° 7'02	14°45	11°16	29°51	28°15	14°56	18°44	7°56	0°21	14°33	29°55	28°12	26° 2	n.a.	T 9
F 10	3 3 21	15° 8'08	28° 1	9°57	1♎ 0	28°58	14°55	18°47	7°55	0°24	14°33	29°52	28° 8	26° 8	n.a.	F 10
S 11	3 7 17	16° 9'14	11♉ 6	8°44	2°10	29°41	14°54	18°49	7°55	0°26	14°33	29°46	28° 5	26°15	n.a.	S 11
S 12	3 11 14	17°10'22	23°58	7°39	3°19	0♏24	14°54	18°51	7°54	0°28	14°33	29°38	28° 2	26°22	n.a.	S 12
M13	3 15 11	18°11'30	6♊36	6°44	4°29	1° 7	14°D54	18°54	7°54	0°30	14°34	29°29	27°59	26°28	n.a.	M13
T 14	3 19 7	19°12'39	19° 1	5°59	5°39	1°50	14°54	18°56	7°53	0°32	14°34	29°19	27°56	26°35	n.a.	T 14
W15	3 23 4	20°13'48	1♋13	5°25	6°49	2°33	14°54	18°58	7°53	0°35	14°34	29°10	27°52	26°42	n.a.	W15
T 16	3 27 0	21°14'59	13°15	5° 2	7°59	3°17	14°55	18°59	7°53	0°37	14°35	29° 2	27°49	26°48	n.a.	T 16
F 17	3 30 57	22°16'10	25° 9	4°50	9° 9	4° 0	14°55	19° 1	7°53	0°39	14°35	28°56	27°46	26°55	n.a.	F 17
S 18	3 34 53	23°17'22	7♌ 0	4°D48	10°20	4°43	14°56	19° 3	7°53	0°41	14°36	28°52	27°43	27° 2	n.a.	S 18
S 19	3 38 50	24°18'35	18°51	4°56	11°30	5°26	14°58	19° 4	7°53	0°43	14°36	28°50	27°40	27° 9	n.a.	S 19
M20	3 42 46	25°19'48	0♍47	5°13	12°41	6°10	14°59	19° 6	7°D52	0°45	14°36	28°D50	27°37	27°15	n.a.	M20
T 21	3 46 43	26°21'02	12°55	5°39	13°52	6°53	15° 0	19° 7	7°53	0°47	14°37	28°51	27°33	27°22	n.a.	T 21
W22	3 50 40	27°22'16	25°20	6°11	15° 3	7°37	15° 2	19° 8	7°53	0°49	14°37	28°R52	27°30	27°29	n.a.	W22
T 23	3 54 36	28°23'32	8♎ 5	6°50	16°14	8°20	15° 4	19° 9	7°53	0°51	14°38	28°51	27°27	27°35	n.a.	T 23
F 24	3 58 33	29°24'47	21°14	7°34	17°25	9° 4	15° 6	19°10	7°53	0°54	14°39	28°49	27°24	27°42	n.a.	F 24
S 25	4 2 29	0♐26'04	4♏51	8°24	18°36	9°47	15° 9	19°11	7°53	0°56	14°39	28°44	27°21	27°49	n.a.	S 25
S 26	4 6 26	1°27'20	18°52	9°19	19°48	10°31	15°11	19°12	7°53	0°58	14°40	28°36	27°18	27°56	n.a.	S 26
M27	4 10 22	2°28'37	3♐16	10°17	20°59	11°14	15°14	19°12	7°54	1° 0	14°40	28°27	27°14	28° 2	n.a.	M27
T 28	4 14 19	3°29'54	17°56	11°19	22°11	11°58	15°17	19°13	7°54	1° 2	14°41	28°16	27°11	28° 9	n.a.	T 28
W29	4 18 16	4°31'11	2♑44	12°24	23°23	12°42	15°20	19°13	7°55	1° 4	14°42	28° 5	27° 8	28°16	n.a.	W29
T 30	4 22 12	5♐32'28	17♑31	13♏32	24♎34	13♏26	15♓24	19♌14	7♓55	1♏ 5	14♒42	27♓56	27♓ 5	28♋22	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	13 s40	28 s40	5 s 8	19 s 4	1 s 6	5n15	1n41	8 s32	0n22	7 s26	1 s39	16n59	1n33	9 s23	0 s47	9 s53	1n52	30 s14	14 s16	0n 0	0 s33	25n53		n.a.
T 2	14 0	28 38	5 8	18 37	0 49	4 51	1 44	8 48	0 22	7 26	1 38	16 58	1 33	9 23	0 47	9 54	1 52	30 14	14 16	0 s 1	0 35	25 51		n.a.
F 3	14 21	26 42	4 49	18 6	0 31	4 27	1 47	9 5	0 21	7 27	1 38	16 57	1 33	9 24	0 47	9 54	1 52	30 14	14 16	0 3	0 36	25 50		n.a.
S 4	14 40	23 5	4 12	17 31	0 11	4 2	1 49	9 21	0 21	7 27	1 38	16 56	1 34	9 24	0 47	9 55	1 52	30 13	14 15	0 3	0 37	25 48		n.a.
S 5	15 0	18 9	3 20	16 52	0n 9	3 37	1 52	9 38	0 20	7 28	1 37	16 55	1 34	9 24	0 47	9 56	1 52	30 13	14 15	0 3	0 39	25 46		n.a.
M 6	15 19	12 18	2 16	16 10	0 29	3 11	1 54	9 54	0 19	7 28	1 37	16 55	1 34	9 25	0 47	9 57	1 52	30 13	14 15	0 2	0 40	25 45		n.a.
T 7	15 38	5 56	1 6	15 26	0 50	2 46	1 57	10 10	0 19	7 28	1 37	16 54	1 34	9 25	0 47	9 57	1 52	30 12	14 14	0 2	0 41	25 43		n.a.
W 8	15 57	0n38	0n 7	14 42	1 10	2 20	1 59	10 26	0 18	7 29	1 36	16 54	1 35	9 25	0 47	9 58	1 52	30 12	14 14	0 2	0 42	25 41		n.a.
T 9	16 16	7 6	1 19	13 59	1 29	1 54	2 1	10 42	0 18	7 29	1 36	16 53	1 35	9 25	0 47	9 59	1 52	30 12	14 14	0 2	0 44	25 39		n.a.
F 10	16 34	13 9	2 26	13 18	1 46	1 28	2 3	10 58	0 17	7 29	1 36	16 52	1 35	9 25	0 47	10 0	1 52	30 11	14 13	0 3	0 45	25 38		n.a.
S 11	16 52	18 33	3 23	12 40	2 1	1 2	2 5	11 14	0 16	7 29	1 35	16 52	1 35	9 25	0 47	10 0	1 52	30 11	14 13	0 6	0 46	25 36		n.a.
S 12	17 9	23 0	4 9	12 6	2 15	0 36	2 6	11 30	0 16	7 28	1 35	16 51	1 36	9 26	0 47	10 1	1 52	30 11	14 13	0 9	0 47	25 34		n.a.
M13	17 27	26 18	4 42	11 38	2 26	0 9	2 8	11 46	0 15	7 28	1 35	16 51	1 36	9 26	0 47	10 2	1 52	30 10	14 13	0 12	0 49	25 33		n.a.
T 14	17 44	28 16	5 1	11 14	2 35	0 s18	2 9	12 1	0 15	7 28	1 34	16 51	1 36	9 26	0 47	10 3	1 52	30 10	14 12	0 16	0 50	25 31		n.a.
W15	18 1	28 49	5 6	10 57	2 41	0 44	2 11	12 17	0 14	7 27	1 34	16 50	1 36	9 26	0 47	10 3	1 52	30 9	14 12	0 20	0 51	25 29		n.a.
T 16	18 17	27 58	4 57	10 45	2 46	1 11	2 12	12 32	0 13	7 27	1 34	16 50	1 37	9 26	0 47	10 4	1 52	30 9	14 12	0 23	0 53	25 27		n.a.
F 17	18 33	25 51	4 35	10 38	2 49	1 38	2 13	12 48	0 13	7 26	1 33	16 50	1 37	9 26	0 47	10 5	1 52	30 9	14 11	0 26	0 54	25 26		n.a.
S 18	18 49	22 37	4 1	10 36	2 50	2 5	2 14	13 3	0 12	7 26	1 33	16 49	1 37	9 26	0 47	10 6	1 52	30 8	14 11	0 27	0 55	25 24		n.a.
S 19	19 4	18 28	3 17	10 39	2 50	2 32	2 15	13 18	0 12	7 25	1 33	16 49	1 37	9 26	0 47	10 6	1 52	30 8	14 11	0 28	0 56	25 22		n.a.
M20	19 19	13 34	2 24	10 46	2 48	3 0	2 15	13 34	0 11	7 24	1 33	16 49	1 38	9 26	0 47	10 7	1 52	30 7	14 10	0 28	0 58	25 20		n.a.
T 21	19 34	8 5	1 24	10 57	2 46	3 27	2 16	13 49	0 10	7 23	1 32	16 49	1 38	9 26	0 47	10 8	1 52	30 7	14 10	0 28	0 59	25 18		n.a.
W22	19 48	2 10	0 19	11 11	2 42	3 54	2 16	14 4	0 10	7 22	1 32	16 48	1 38	9 26	0 46	10 9	1 52	30 6	14 10	0 28	1 0	25 17		n.a.
T 23	20 2	3 s59	0 s49	11 28	2 38	4 21	2 17	14 18	0 9	7 21	1 32	16 48	1 38	9 26	0 46	10 9	1 52	30 6	14 10	0 28	1 2	25 15		n.a.
F 24	20 16	10 11	1 57	11 48	2 32	4 49	2 17	14 33	0 8	7 20	1 31	16 48	1 39	9 26	0 46	10 10	1 52	30 5	14 9	0 29	1 3	25 13		n.a.
S 25	20 29	16 6	2 59	12 9	2 27	5 16	2 17	14 48	0 8	7 19	1 31	16 48	1 39	9 25	0 46	10 11	1 52	30 5	14 9	0 31	1 4	25 11		n.a.
S 26	20 42	21 22	3 53	12 33	2 20	5 43	2 17	15 2	0 7	7 18	1 31	16 48	1 39	9 25	0 46	10 11	1 52	30 5	14 9	0 34	1 5	25 9		n.a.
M27	20 54	25 32	4 34	12 58	2 14	6 10	2 17	15 17	0 6	7 16	1 30	16 48	1 39	9 25	0 46	10 12	1 52	30 4	14 8	0 38	1 7	25 7		n.a.
T 28	21 6	28 6	4 58	13 24	2 7	6 37	2 17	15 31	0 6	7 15	1 30	16 48	1 40	9 25	0 46	10 13	1 52	30 4	14 8	0 42	1 8	25 6		n.a.
W29	21 18	28 43	5 1	13 51	2 0	7 4	2 17	15 45	0 5	7 13	1 30	16 48	1 40	9 25	0 46	10 13	1 52	30 3	14 8	0 46	1 9	25 4		n.a.
T 30	21 s29	27 s16	4 s45	14 s18	1n52	7 s31	2n16	15 s59	0n 4	7 s12	1 s29	16n49	1n40	9 s25	0 s46	10 s14	1n53	30 s 3	14 s 7	0 s50	1 s10	25n 2		n.a.

Julian Day Number = 1658539.5, Delta T = 03h27m02s
Ecliptic obliquity = 23°43'07, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°26'41, Lahiri = - 6°19'40 Julian Calendar 1 Nov. 173 BCE == Greg. Calendar 29 Oct. 173 BCE

The year -172 astronomical counting style corresponds to year 173 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 173 BCE
geocentric

DECEMBER 173 BCE (-172) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	4 26 9	6♐33'45	2♒11	14♏43	25♎46	14♏ 9	15♓27	19♌14	7♓56	1♏ 7	14♒43	27°R49	27♓ 2	28♋29	n.a.	F 1
S 2	4 30 5	7°35'02	16°37	15°55	26°58	14°53	15°31	19°R14	7°56	1° 9	14°44	27♓45	26°58	28°36	n.a.	S 2
S 3	4 34 2	8°36'18	0♓45	17°10	28°10	15°37	15°35	19°14	7°57	1°11	14°45	27°44	26°55	28°42	n.a.	S 3
M 4	4 37 58	9°37'33	14°37	18°26	29°22	16°21	15°39	19°14	7°58	1°13	14°45	27°D43	26°52	28°49	n.a.	M 4
T 5	4 41 55	10°38'48	28°11	19°43	0♏35	17° 5	15°43	19°14	7°58	1°15	14°46	27°R44	26°49	28°56	n.a.	T 5
W 6	4 45 51	11°40'03	11♈30	21° 3	1°47	17°49	15°48	19°13	7°59	1°17	14°47	27°43	26°46	29° 3	n.a.	W 6
T 7	4 49 48	12°41'17	24°36	22°23	2°59	18°33	15°53	19°13	8° 0	1°19	14°48	27°40	26°43	29° 9	n.a.	T 7
F 8	4 53 45	13°42'30	7♉30	23°44	4°11	19°17	15°57	19°12	8° 1	1°20	14°49	27°34	26°39	29°16	n.a.	F 8
S 9	4 57 41	14°43'44	20°13	25° 7	5°24	20° 1	16° 3	19°12	8° 2	1°22	14°50	27°26	26°36	29°23	n.a.	S 9
S 10	5 1 38	15°44'56	2♊46	26°31	6°36	20°46	16° 8	19°11	8° 3	1°24	14°51	27°14	26°33	29°29	n.a.	S 10
M11	5 5 34	16°46'09	15°10	27°55	7°49	21°30	16°13	19°10	8° 4	1°26	14°52	27° 0	26°30	29°36	n.a.	M11
T 12	5 9 31	17°47'21	27°25	29°20	9° 2	22°14	16°19	19° 9	8° 5	1°27	14°52	26°46	26°27	29°43	n.a.	T 12
W13	5 13 27	18°48'32	9♋30	0♐46	10°14	22°58	16°25	19° 8	8° 6	1°29	14°53	26°32	26°24	29°49	n.a.	W13
T 14	5 17 24	19°49'43	21°28	2°13	11°27	23°43	16°31	19° 7	8° 7	1°31	14°54	26°19	26°20	29°56	n.a.	T 14
F 15	5 21 21	20°50'54	3♌20	3°40	12°40	24°27	16°37	19° 5	8° 9	1°32	14°56	26° 8	26°17	0♌ 3	n.a.	F 15
S 16	5 25 17	21°52'04	15° 9	5° 8	13°53	25°11	16°43	19° 4	8°10	1°34	14°57	26° 1	26°14	0°10	n.a.	S 16
S 17	5 29 14	22°53'14	26°58	6°37	15° 5	25°56	16°49	19° 2	8°11	1°36	14°58	25°56	26°11	0°16	n.a.	S 17
M18	5 33 10	23°54'23	8♍53	8° 6	16°18	26°40	16°56	19° 1	8°13	1°37	14°59	25°54	26° 8	0°23	n.a.	M18
T 19	5 37 7	24°55'32	20°57	9°36	17°31	27°25	17° 3	18°59	8°14	1°39	15° 0	25°53	26° 4	0°30	n.a.	T 19
W20	5 41 3	25°56'40	3♎17	11° 7	18°44	28° 9	17°10	18°57	8°16	1°40	15° 1	25°53	26° 1	0°36	n.a.	W20
T 21	5 45 0	26°57'48	15°57	12°38	19°58	28°54	17°17	18°55	8°17	1°42	15° 2	25°52	25°58	0°43	n.a.	T 21
F 22	5 48 56	27°58'56	29° 3	14°10	21°11	29°38	17°24	18°53	8°19	1°43	15° 3	25°50	25°55	0°50	n.a.	F 22
S 23	5 52 53	29° 0'03	12♏38	15°42	22°24	0♐23	17°32	18°51	8°20	1°45	15° 4	25°44	25°52	0°56	n.a.	S 23
S 24	5 56 50	0♑ 1'09	26°44	17°15	23°37	1° 8	17°39	18°49	8°22	1°46	15° 6	25°36	25°49	1° 3	n.a.	S 24
M25	6 0 46	1° 2'14	11♐17	18°48	24°50	1°53	17°47	18°46	8°24	1°47	15° 7	25°26	25°45	1°10	n.a.	M25
T 26	6 4 43	2° 3'19	26°12	20°23	26° 4	2°37	17°55	18°44	8°26	1°49	15° 8	25°14	25°42	1°17	n.a.	T 26
W27	6 8 39	3° 4'23	11♑20	21°57	27°17	3°22	18° 3	18°41	8°27	1°50	15° 9	25° 2	25°39	1°23	n.a.	W27
T 28	6 12 36	4° 5'26	26°31	23°33	28°30	4° 7	18°11	18°39	8°29	1°51	15°10	24°52	25°36	1°30	n.a.	T 28
F 29	6 16 32	5° 6'27	11♒34	25° 9	29°43	4°52	18°19	18°36	8°31	1°53	15°12	24°44	25°33	1°37	n.a.	F 29
S 30	6 20 29	6° 7'27	26°21	26°45	0♐57	5°37	18°28	18°33	8°33	1°54	15°13	24°39	25°30	1°43	n.a.	S 30
S 31	6 24 25	7♑ 8'26	10♓46	28♐23	2♐10	6♐22	18♓37	18♌30	8♓35	1♏55	15♒14	24♓36	25♓26	1♌50	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21s39	23s58	4s10	14s47	1n44	7s58	2n16	16s13	0n 4	7s10	1s29	16n49	1n40	9s24	0s46	10s15	1n53	30s 2	14s 7	0s53	1s12	25n 0		n.a.
S 2	21 50	19 13	3 20	15 15	1 37	8 25	2 15	16 27	0 3	7 8	1 29	16 49	1 41	9 24	0 46	10 15	1 53	30 2	14 7	0 54	1 13	24 58		n.a.
S 3	22 0	13 29	2 18	15 44	1 29	8 51	2 15	16 40	0 2	7 6	1 28	16 49	1 41	9 24	0 46	10 16	1 53	30 1	14 7	0 55	1 14	24 56		n.a.
M 4	22 9	7 11	1 9	16 13	1 21	9 18	2 14	16 54	0 2	7 4	1 28	16 50	1 41	9 23	0 46	10 17	1 53	30 1	14 6	0 55	1 16	24 54		n.a.
T 5	22 18	0 42	0n 2	16 42	1 13	9 44	2 13	17 7	0 1	7 2	1 28	16 50	1 41	9 23	0 46	10 17	1 53	30 0	14 6	0 55	1 17	24 53		n.a.
W 6	22 27	5n42	1 12	17 11	1 5	10 10	2 12	17 20	0 0	7 0	1 27	16 50	1 42	9 23	0 46	10 18	1 53	30 0	14 6	0 55	1 18	24 51		n.a.
T 7	22 35	11 46	2 17	17 40	0 57	10 36	2 11	17 33	0s 0	6 58	1 27	16 51	1 42	9 22	0 46	10 18	1 53	29 59	14 6	0 56	1 19	24 49		n.a.
F 8	22 43	17 13	3 14	18 8	0 49	11 2	2 10	17 46	0 1	6 56	1 27	16 51	1 42	9 22	0 46	10 19	1 53	29 59	14 5	0 59	1 21	24 47		n.a.
S 9	22 50	21 51	4 0	18 36	0 41	11 27	2 9	17 59	0 2	6 54	1 26	16 51	1 42	9 22	0 46	10 19	1 53	29 58	14 5	1 2	1 22	24 45		n.a.
S 10	22 57	25 25	4 33	19 4	0 33	11 52	2 8	18 11	0 2	6 51	1 26	16 52	1 43	9 21	0 46	10 20	1 53	29 57	14 5	1 7	1 23	24 43		n.a.
M11	23 3	27 44	4 53	19 31	0 25	12 17	2 6	18 24	0 3	6 49	1 26	16 52	1 43	9 21	0 46	10 21	1 53	29 57	14 5	1 12	1 24	24 41		n.a.
T 12	23 9	28 41	4 59	19 57	0 18	12 42	2 5	18 36	0 4	6 46	1 26	16 53	1 43	9 20	0 46	10 21	1 53	29 56	14 4	1 18	1 26	24 39		n.a.
W13	23 14	28 14	4 52	20 23	0 10	13 7	2 3	18 48	0 4	6 44	1 25	16 54	1 43	9 20	0 46	10 22	1 53	29 56	14 4	1 24	1 27	24 37		n.a.
T 14	23 19	26 27	4 32	20 48	0 3	13 31	2 2	19 0	0 5	6 41	1 25	16 54	1 44	9 19	0 46	10 22	1 53	29 55	14 4	1 29	1 28	24 35		n.a.
F 15	23 24	23 31	4 0	21 13	0s 5	13 55	2 0	19 12	0 6	6 39	1 25	16 55	1 44	9 19	0 46	10 23	1 53	29 55	14 4	1 33	1 30	24 33		n.a.
S 16	23 28	19 37	3 17	21 36	0 12	14 19	1 58	19 23	0 6	6 36	1 24	16 56	1 44	9 18	0 45	10 23	1 53	29 54	14 3	1 36	1 31	24 31		n.a.
S 17	23 31	14 57	2 26	21 59	0 19	14 42	1 56	19 35	0 7	6 33	1 24	16 56	1 44	9 18	0 45	10 24	1 53	29 54	14 3	1 38	1 32	24 29		n.a.
M18	23 35	9 42	1 29	22 21	0 26	15 5	1 54	19 46	0 8	6 30	1 24	16 57	1 45	9 17	0 45	10 24	1 53	29 53	14 3	1 39	1 33	24 27		n.a.
T 19	23 37	4 2	0 26	22 41	0 33	15 28	1 52	19 57	0 9	6 27	1 24	16 58	1 45	9 17	0 45	10 25	1 53	29 52	14 3	1 39	1 35	24 25		n.a.
W20	23 39	1s55	0s39	23 1	0 39	15 50	1 50	20 8	0 9	6 24	1 23	16 59	1 45	9 16	0 45	10 25	1 53	29 52	14 2	1 39	1 36	24 23		n.a.
T 21	23 41	7 57	1 44	23 20	0 46	16 12	1 48	20 19	0 10	6 21	1 23	16 59	1 45	9 15	0 45	10 26	1 53	29 51	14 2	1 40	1 37	24 21		n.a.
F 22	23 42	13 50	2 46	23 38	0 52	16 33	1 46	20 29	0 11	6 18	1 23	17 0	1 45	9 15	0 45	10 26	1 53	29 51	14 2	1 41	1 39	24 19		n.a.
S 23	23 43	19 18	3 40	23 54	0 58	16 55	1 44	20 39	0 11	6 15	1 22	17 1	1 46	9 14	0 45	10 27	1 53	29 50	14 2	1 43	1 40	24 17		n.a.
S 24	23 43	23 55	4 23	24 10	1 4	17 15	1 42	20 49	0 12	6 11	1 22	17 2	1 46	9 13	0 45	10 27	1 54	29 50	14 2	1 46	1 41	24 15		n.a.
M25	23 43	27 12	4 51	24 24	1 10	17 36	1 39	20 59	0 13	6 8	1 22	17 3	1 46	9 13	0 45	10 28	1 54	29 49	14 1	1 50	1 42	24 13		n.a.
T 26	23 42	28 40	5 0	24 37	1 15	17 55	1 37	21 9	0 14	6 5	1 22	17 4	1 46	9 12	0 45	10 28	1 54	29 48	14 1	1 55	1 44	24 11		n.a.
W27	23 41	28 1	4 48	24 48	1 20	18 15	1 35	21 18	0 14	6 1	1 21	17 5	1 47	9 11	0 45	10 28	1 54	29 48	14 1	2 0	1 45	24 9		n.a.
T 28	23 39	25 17	4 16	24 59	1 25	18 34	1 32	21 28	0 15	5 58	1 21	17 6	1 47	9 11	0 45	10 29	1 54	29 47	14 1	2 4	1 46	24 7		n.a.
F 29	23 37	20 49	3 26	25 7	1 30	18 52	1 30	21 37	0 16	5 54	1 21	17 7	1 47	9 10	0 45	10 29	1 54	29 47	14 1	2 7	1 47	24 5		n.a.
S 30	23 34	15 7	2 23	25 15	1 34	19 10	1 27	21 46	0 16	5 51	1 21	17 8	1 47	9 9	0 45	10 30	1 54	29 46	14 0	2 9	1 49	24 3		n.a.
S 31	23s31	8s44	1s13	25s21	1s38	19s28	1n24	21s54	0s17	5s47	1s20	17n 9	1n48	9s 8	0s45	10s30	1n54	29s46	14s 0	2s10	1s50	24n 1		n.a.

Julian Day Number = 1658569.5, Delta T = 03h27m01s
Ecliptic obliquity = 23°43'06, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°26'37, Lahiri = - 6°19'36 Julian Calendar 1 Dec. 173 BCE == Greg. Calendar 28 Nov. 173 BCE

The year -172 astronomical counting style corresponds to year 173 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 172 BCE
geocentric

JANUARY 172 BCE (-171) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 28 22	8♉ 9'23	24♓46	0♉ 1	3♐24	7♐ 7	18♓45	18°R27	8♓37	1♏56	15♒16	24°D35	25♓23	1♌57	n.a.	M 1
T 2	6 32 19	9°10'19	8♈23	1°39	4°37	7°52	18°54	18♌24	8°39	1°57	15°17	24°R36	25°20	2° 3	n.a.	T 2
W 3	6 36 15	10°11'13	21°38	3°19	5°51	8°37	19° 3	18°21	8°41	1°58	15°18	24♓35	25°17	2°10	n.a.	W 3
T 4	6 40 12	11°12'06	4♊34	4°59	7° 4	9°22	19°12	18°18	8°43	2° 0	15°20	24°33	25°14	2°17	n.a.	T 4
F 5	6 44 8	12°12'57	17°15	6°40	8°18	10° 7	19°22	18°15	8°46	2° 1	15°21	24°28	25°10	2°24	n.a.	F 5
S 6	6 48 5	13°13'46	29°43	8°21	9°31	10°52	19°31	18°11	8°48	2° 2	15°22	24°20	25° 7	2°30	n.a.	S 6
S 7	6 52 1	14°14'34	12♋ 1	10° 4	10°45	11°37	19°41	18° 8	8°50	2° 3	15°24	24°10	25° 4	2°37	n.a.	S 7
M 8	6 55 58	15°15'21	24°11	11°47	11°58	12°22	19°50	18° 4	8°52	2° 4	15°25	23°57	25° 1	2°44	n.a.	M 8
T 9	6 59 55	16°16'06	6♌14	13°31	13°12	13° 7	20° 0	18° 1	8°55	2° 5	15°27	23°44	24°58	2°50	n.a.	T 9
W10	7 3 51	17°16'50	18°12	15°16	14°25	13°53	20°10	17°57	8°57	2° 5	15°28	23°31	24°55	2°57	n.a.	W10
T 11	7 7 48	18°17'32	0♍ 5	17° 1	15°39	14°38	20°20	17°53	9° 0	2° 6	15°30	23°19	24°51	3° 4	n.a.	T 11
F 12	7 11 44	19°18'12	11°56	18°48	16°52	15°23	20°30	17°49	9° 2	2° 7	15°31	23°10	24°48	3°10	n.a.	F 12
S 13	7 15 41	20°18'51	23°45	20°35	18° 6	16° 8	20°41	17°45	9° 5	2° 8	15°32	23° 3	24°45	3°17	n.a.	S 13
S 14	7 19 37	21°19'29	5♎36	22°23	19°20	16°54	20°51	17°41	9° 7	2° 9	15°34	22°58	24°42	3°24	n.a.	S 14
M15	7 23 34	22°20'05	17°31	24°11	20°33	17°39	21° 1	17°37	9°10	2° 9	15°35	22°D57	24°39	3°31	n.a.	M15
T 16	7 27 30	23°20'40	29°36	26° 1	21°47	18°25	21°12	17°33	9°12	2°10	15°37	22°57	24°36	3°37	n.a.	T 16
W17	7 31 27	24°21'13	11♏54	27°51	23° 1	19°10	21°23	17°29	9°15	2°11	15°38	22°58	24°32	3°44	n.a.	W17
T 18	7 35 24	25°21'45	24°31	29°42	24°14	19°55	21°34	17°25	9°18	2°11	15°40	22°R58	24°29	3°51	n.a.	T 18
F 19	7 39 20	26°22'16	7♏31	1♒33	25°28	20°41	21°44	17°21	9°20	2°12	15°41	22°57	24°26	3°57	n.a.	F 19
S 20	7 43 17	27°22'46	20°58	3°25	26°42	21°26	21°55	17°16	9°23	2°13	15°43	22°55	24°23	4° 4	n.a.	S 20
S 21	7 47 13	28°23'14	4♐54	5°17	27°56	22°12	22° 7	17°12	9°26	2°13	15°44	22°50	24°20	4°11	n.a.	S 21
M22	7 51 10	29°23'40	19°20	7° 9	29° 9	22°58	22°18	17° 8	9°28	2°14	15°46	22°43	24°16	4°17	n.a.	M22
T 23	7 55 6	0♒24'05	4♑12	9° 2	0♑23	23°43	22°29	17° 3	9°31	2°14	15°48	22°35	24°13	4°24	n.a.	T 23
W24	7 59 3	1°24'28	19°22	10°54	1°37	24°29	22°41	16°59	9°34	2°15	15°49	22°27	24°10	4°31	n.a.	W24
T 25	8 2 59	2°24'50	4♒40	12°46	2°51	25°14	22°52	16°54	9°37	2°15	15°51	22°20	24° 7	4°37	n.a.	T 25
F 26	8 6 56	3°25'10	19°56	14°37	4° 4	26° 0	23° 4	16°50	9°40	2°15	15°52	22°14	24° 4	4°44	n.a.	F 26
S 27	8 10 53	4°25'27	4♓58	16°28	5°18	26°46	23°15	16°45	9°43	2°16	15°54	22°10	24° 1	4°51	n.a.	S 27
S 28	8 14 49	5°25'43	19°39	18°17	6°32	27°31	23°27	16°41	9°46	2°16	15°55	22°D 9	23°57	4°58	n.a.	S 28
M29	8 18 46	6°25'56	3♈55	20° 4	7°46	28°17	23°39	16°36	9°49	2°16	15°57	22°10	23°54	5° 4	n.a.	M29
T 30	8 22 42	7°26'07	17°43	21°50	9° 0	29° 3	23°51	16°31	9°52	2°16	15°59	22°11	23°51	5°11	n.a.	T 30
W31	8 26 39	8♒26'16	1♉ 5	23♒33	10♑13	29♐49	24♓ 3	16♌27	9♓55	2♏17	16♒ 0	22♓12	23♓48	5♌18	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	23s28	2s 5	0n 1	25s25	1s42	19s44	1n22	22s 3	0s18	5s43	1s20	17n11	1n48	9s 8	0s45	10s30	1n54	29s45	14s 0	2s10	1s51	23n59			n.a.
T 2	23 24	4n28	1 12	25 28	1 46	20 1	1 19	22 11	0 19	5 40	1 20	17 12	1 48	9 7	0 45	10 31	1 54	29 44	14 0	2 10	1 53	23 57			n.a.
W 3	23 19	10 39	2 18	25 29	1 49	20 17	1 16	22 19	0 19	5 36	1 20	17 13	1 48	9 6	0 45	10 31	1 54	29 44	14 0	2 11	1 54	23 55			n.a.
T 4	23 14	16 15	3 15	25 29	1 52	20 32	1 14	22 27	0 20	5 32	1 19	17 14	1 48	9 5	0 45	10 31	1 54	29 43	14 0	2 11	1 55	23 53			n.a.
F 5	23 9	21 1	4 1	25 27	1 54	20 47	1 11	22 34	0 21	5 28	1 19	17 15	1 49	9 4	0 45	10 32	1 54	29 43	13 59	2 13	1 56	23 51			n.a.
S 6	23 3	24 47	4 34	25 23	1 56	21 1	1 8	22 41	0 22	5 24	1 19	17 17	1 49	9 3	0 45	10 32	1 54	29 42	13 59	2 16	1 58	23 49			n.a.
S 7	22 57	27 22	4 55	25 18	1 58	21 14	1 5	22 49	0 22	5 20	1 19	17 18	1 49	9 2	0 45	10 32	1 54	29 41	13 59	2 21	1 59	23 47			n.a.
M 8	22 50	28 36	5 1	25 11	2 0	21 27	1 2	22 55	0 23	5 16	1 18	17 19	1 49	9 1	0 45	10 32	1 54	29 41	13 59	2 26	2 0	23 44			n.a.
T 9	22 43	28 28	4 54	25 2	2 1	21 40	0 59	23 2	0 24	5 12	1 18	17 21	1 49	9 1	0 45	10 33	1 54	29 40	13 59	2 31	2 1	23 42			n.a.
W10	22 35	27 0	4 34	24 51	2 1	21 52	0 57	23 8	0 25	5 8	1 18	17 22	1 50	9 0	0 45	10 33	1 55	29 40	13 59	2 36	2 3	23 40			n.a.
T 11	22 27	24 19	4 3	24 38	2 2	22 3	0 54	23 14	0 25	5 4	1 18	17 23	1 50	8 59	0 45	10 33	1 55	29 39	13 59	2 41	2 4	23 38			n.a.
F 12	22 19	20 37	3 20	24 23	2 1	22 13	0 51	23 20	0 26	4 59	1 17	17 25	1 50	8 58	0 45	10 33	1 55	29 39	13 58	2 45	2 5	23 36			n.a.
S 13	22 10	16 6	2 29	24 7	2 1	22 23	0 48	23 26	0 27	4 55	1 17	17 26	1 50	8 57	0 45	10 34	1 55	29 38	13 58	2 48	2 7	23 34			n.a.
S 14	22 0	10 59	1 31	23 48	2 0	22 32	0 45	23 31	0 28	4 51	1 17	17 27	1 50	8 56	0 44	10 34	1 55	29 37	13 58	2 49	2 8	23 32			n.a.
M15	21 51	5 26	0 29	23 28	1 58	22 41	0 42	23 36	0 28	4 46	1 17	17 29	1 50	8 55	0 44	10 34	1 55	29 37	13 58	2 50	2 9	23 29			n.a.
T 16	21 40	0s23	0s36	23 5	1 56	22 49	0 39	23 41	0 29	4 42	1 16	17 30	1 51	8 54	0 44	10 34	1 55	29 36	13 58	2 50	2 10	23 27			n.a.
W17	21 30	6 17	1 40	22 41	1 53	22 56	0 36	23 46	0 30	4 37	1 16	17 32	1 51	8 53	0 44	10 34	1 55	29 36	13 58	2 50	2 12	23 25			n.a.
T 18	21 19	12 6	2 41	22 14	1 49	23 3	0 33	23 50	0 31	4 33	1 16	17 33	1 51	8 52	0 44	10 35	1 55	29 35	13 58	2 49	2 13	23 23			n.a.
F 19	21 7	17 34	3 35	21 46	1 46	23 8	0 30	23 55	0 31	4 28	1 16	17 35	1 51	8 51	0 44	10 35	1 55	29 35	13 58	2 50	2 14	23 21			n.a.
S 20	20 56	22 23	4 20	21 15	1 41	23 14	0 27	23 58	0 32	4 24	1 16	17 36	1 51	8 50	0 44	10 35	1 55	29 34	13 58	2 51	2 15	23 19			n.a.
S 21	20 43	26 8	4 51	20 43	1 36	23 18	0 24	24 2	0 33	4 19	1 15	17 38	1 51	8 48	0 44	10 35	1 55	29 33	13 58	2 53	2 17	23 16			n.a.
M22	20 31	28 22	5 6	20 9	1 30	23 22	0 21	24 5	0 34	4 14	1 15	17 39	1 52	8 47	0 44	10 35	1 55	29 33	13 57	2 55	2 18	23 14			n.a.
T 23	20 18	28 39	5 0	19 33	1 23	23 25	0 18	24 8	0 34	4 10	1 15	17 41	1 52	8 46	0 44	10 35	1 55	29 32	13 57	2 58	2 19	23 12			n.a.
W24	20 5	26 49	4 33	18 55	1 16	23 27	0 15	24 11	0 35	4 5	1 15	17 42	1 52	8 45	0 44	10 35	1 55	29 32	13 57	3 2	2 21	23 10			n.a.
T 25	19 51	22 59	3 47	18 16	1 8	23 29	0 12	24 14	0 36	4 0	1 15	17 44	1 52	8 44	0 44	10 35	1 55	29 31	13 57	3 5	2 22	23 8			n.a.
F 26	19 37	17 36	2 45	17 35	1 0	23 30	0 9	24 16	0 37	3 55	1 14	17 45	1 52	8 43	0 44	10 35	1 55	29 31	13 57	3 7	2 23	23 5			n.a.
S 27	19 23	11 13	1 31	16 53	0 50	23 30	0 6	24 18	0 37	3 51	1 14	17 47	1 52	8 42	0 44	10 36	1 56	29 30	13 57	3 8	2 24	23 3			n.a.
S 28	19 8	4 21	0 13	16 10	0 41	23 30	0 4	24 20	0 38	3 46	1 14	17 48	1 52	8 41	0 44	10 36	1 56	29 30	13 57	3 9	2 26	23 1			n.a.
M29	18 53	2n32	1n 3	15 26	0 30	23 29	0 1	24 21	0 39	3 41	1 14	17 50	1 53	8 40	0 44	10 36	1 56	29 29	13 57	3 9	2 27	22 59			n.a.
T 30	18 38	9 5	2 14	14 41	0 19	23 27	0s 2	24 23	0 40	3 36	1 14	17 51	1 53	8 38	0 44	10 36	1 56	29 29	13 57	3 8	2 28	22 56			n.a.
W31	18s22	15n 1	3n15	13s56	0s 7	23s24	0s 5	24s24	0s40	3s31	1s14	17n53	1n53	8s37	0s44	10s36	1n56	29s28	13s57	3s 8	2s29	22n54			n.a.

Julian Day Number = 1658600.5, Delta T = 03h27m00s
Ecliptic obliquity = 23°43'06, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°26'33, Lahiri = - 6°19'32 Julian Calendar 1 Jan. 172 BCE == Greg. Calendar 29 Dec. 173 BCE

The year -171 astronomical counting style corresponds to year 172 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 172 BCE
geocentric

FEBRUARY 172 BCE (-171) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 30 35	9♒26'23	14♉ 4	25♒12	11♑27	0♑34	24♓15	16°R22	9♓58	2♏17	16♒ 2	22°R12	23♓45	5♌24	n.a.	T 1
F 2	8 34 32	10°26'27	26°42	26°49	12°41	1°20	24°27	16♌17	10° 1	2°17	16° 3	22♓11	23°42	5°31	n.a.	F 2
S 3	8 38 28	11°26'29	9♊ 5	28°21	13°55	2° 6	24°40	16°12	10° 4	2°17	16° 5	22° 7	23°38	5°38	n.a.	S 3
S 4	8 42 25	12°26'30	21°15	29°48	15° 8	2°52	24°52	16° 8	10° 7	2°17	16° 6	22° 2	23°35	5°44	n.a.	S 4
M 5	8 46 22	13°26'28	3♋16	1♓10	16°22	3°38	25° 4	16° 3	10°10	2°R17	16° 8	21°56	23°32	5°51	n.a.	M 5
T 6	8 50 18	14°26'23	15°12	2°26	17°36	4°24	25°17	15°58	10°13	2°17	16°10	21°49	23°29	5°58	n.a.	T 6
W 7	8 54 15	15°26'17	27° 4	3°36	18°50	5° 9	25°29	15°53	10°17	2°17	16°11	21°41	23°26	6° 4	n.a.	W 7
T 8	8 58 11	16°26'08	8♌54	4°39	20° 4	5°55	25°42	15°49	10°20	2°17	16°13	21°35	23°22	6°11	n.a.	T 8
F 9	9 2 8	17°25'57	20°45	5°35	21°17	6°41	25°55	15°44	10°23	2°17	16°14	21°30	23°19	6°18	n.a.	F 9
S 10	9 6 4	18°25'44	2♍37	6°23	22°31	7°27	26° 7	15°39	10°26	2°17	16°16	21°27	23°16	6°24	n.a.	S 10
S 11	9 10 1	19°25'30	14°34	7° 3	23°45	8°13	26°20	15°34	10°29	2°17	16°18	21°25	23°13	6°31	n.a.	S 11
M12	9 13 57	20°25'13	26°37	7°35	24°59	8°59	26°33	15°30	10°33	2°16	16°19	21°D25	23°10	6°38	n.a.	M12
T 13	9 17 54	21°24'54	8♎49	7°58	26°12	9°45	26°46	15°25	10°36	2°16	16°21	21°26	23° 7	6°45	n.a.	T 13
W14	9 21 51	22°24'33	21°13	8°13	27°26	10°31	26°59	15°20	10°39	2°16	16°22	21°27	23° 3	6°51	n.a.	W14
T 15	9 25 47	23°24'10	3♏53	8°R20	28°40	11°17	27°12	15°16	10°43	2°16	16°24	21°29	23° 0	6°58	n.a.	T 15
F 16	9 29 44	24°23'46	16°53	8°18	29°54	12° 3	27°25	15°11	10°46	2°15	16°26	21°30	22°57	7° 5	n.a.	F 16
S 17	9 33 40	25°23'20	0♐14	8° 8	1♒ 8	12°49	27°38	15° 6	10°49	2°15	16°27	21°R30	22°54	7°11	n.a.	S 17
S 18	9 37 37	26°22'52	14° 1	7°50	2°21	13°35	27°52	15° 2	10°53	2°14	16°29	21°29	22°51	7°18	n.a.	S 18
M19	9 41 33	27°22'22	28°13	7°26	3°35	14°21	28° 5	14°57	10°56	2°14	16°30	21°27	22°48	7°25	n.a.	M19
T 20	9 45 30	28°21'51	12♑48	6°54	4°49	15° 7	28°18	14°52	10°59	2°14	16°32	21°24	22°44	7°31	n.a.	T 20
W21	9 49 26	29°21'17	27°43	6°17	6° 3	15°53	28°32	14°48	11° 3	2°13	16°34	21°21	22°41	7°38	n.a.	W21
T 22	9 53 23	0♓20'42	12♒49	5°35	7°17	16°39	28°45	14°43	11° 6	2°13	16°35	21°19	22°38	7°45	n.a.	T 22
F 23	9 57 20	1°20'04	27°58	4°49	8°30	17°25	28°58	14°39	11° 9	2°12	16°37	21°16	22°35	7°51	n.a.	F 23
S 24	10 1 16	2°19'24	13♓ 0	3°59	9°44	18°11	29°12	14°35	11°13	2°11	16°38	21°15	22°32	7°58	n.a.	S 24
S 25	10 5 13	3°18'42	27°47	3° 8	10°58	18°57	29°26	14°30	11°16	2°11	16°40	21°D15	22°28	8° 5	n.a.	S 25
M26	10 9 9	4°17'58	12♈11	2°17	12°12	19°43	29°39	14°26	11°20	2°10	16°41	21°16	22°25	8°11	n.a.	M26
T 27	10 13 6	5°17'11	26°10	1°25	13°26	20°29	29°53	14°21	11°23	2° 9	16°43	21°17	22°22	8°18	n.a.	T 27
W28	10 17 2	6♓16'22	9♉42	0♓35	14♒39	21♑15	0♈ 6	14♌17	11♓26	2♏ 9	16♒44	21♓19	22♓19	8♌25	n.a.	W28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s 6	20n 7	4n 4	13s11	0n 6	23s21	0s 8	24s24	0s41	3s26	1s13	17n54	1n53	8s36	0s44	10s36	1n56	29s27	13s57	3s 8	2s31	22n52		n.a.
F 2	17 50	24 10	4 40	12 26	0 19	23 17	0 11	24 25	0 42	3 21	1 13	17 56	1 53	8 35	0 44	10 36	1 56	29 27	13 57	3 8	2 32	22 50		n.a.
S 3	17 33	27 2	5 2	11 41	0 32	23 12	0 13	24 25	0 43	3 16	1 13	17 57	1 53	8 34	0 44	10 36	1 56	29 26	13 57	3 10	2 33	22 47		n.a.
S 4	17 16	28 34	5 10	10 57	0 46	23 7	0 16	24 25	0 44	3 11	1 13	17 59	1 53	8 32	0 44	10 36	1 56	29 26	13 57	3 12	2 35	22 45		n.a.
M 5	16 59	28 44	5 4	10 15	1 0	23 1	0 19	24 24	0 44	3 5	1 13	18 1	1 53	8 31	0 44	10 36	1 56	29 25	13 57	3 14	2 36	22 43		n.a.
T 6	16 41	27 33	4 45	9 34	1 15	22 54	0 21	24 24	0 45	3 0	1 12	18 2	1 53	8 30	0 44	10 35	1 56	29 25	13 57	3 17	2 37	22 41		n.a.
W 7	16 24	25 8	4 13	8 55	1 29	22 47	0 24	24 23	0 46	2 55	1 12	18 4	1 53	8 29	0 44	10 35	1 56	29 24	13 57	3 20	2 38	22 38		n.a.
T 8	16 6	21 38	3 31	8 19	1 43	22 38	0 27	24 22	0 47	2 50	1 12	18 5	1 53	8 27	0 44	10 35	1 56	29 24	13 57	3 23	2 40	22 36		n.a.
F 9	15 47	17 16	2 40	7 45	1 58	22 30	0 29	24 20	0 47	2 45	1 12	18 7	1 54	8 26	0 44	10 35	1 56	29 23	13 57	3 25	2 41	22 34		n.a.
S 10	15 29	12 14	1 41	7 14	2 12	22 20	0 32	24 18	0 48	2 39	1 12	18 8	1 54	8 25	0 44	10 35	1 56	29 23	13 57	3 26	2 42	22 31		n.a.
S 11	15 10	6 43	0 37	6 47	2 25	22 10	0 34	24 16	0 49	2 34	1 12	18 10	1 54	8 24	0 44	10 35	1 56	29 22	13 57	3 27	2 43	22 29		n.a.
M12	14 51	0 56	0s28	6 23	2 38	21 59	0 37	24 14	0 50	2 29	1 12	18 11	1 54	8 22	0 44	10 35	1 57	29 22	13 57	3 27	2 45	22 27		n.a.
T 13	14 32	4s58	1 34	6 3	2 50	21 48	0 39	24 11	0 50	2 23	1 11	18 13	1 54	8 21	0 44	10 35	1 57	29 22	13 57	3 26	2 46	22 24		n.a.
W14	14 12	10 47	2 36	5 47	3 1	21 36	0 41	24 9	0 51	2 18	1 11	18 14	1 54	8 20	0 44	10 35	1 57	29 21	13 57	3 26	2 47	22 22		n.a.
T 15	13 53	16 17	3 32	5 35	3 12	21 23	0 44	24 6	0 52	2 13	1 11	18 16	1 54	8 19	0 44	10 34	1 57	29 21	13 57	3 25	2 49	22 20		n.a.
F 16	13 33	21 12	4 19	5 27	3 21	21 10	0 46	24 2	0 52	2 7	1 11	18 17	1 54	8 17	0 44	10 34	1 57	29 20	13 58	3 24	2 50	22 17		n.a.
S 17	13 12	25 12	4 53	5 24	3 28	20 56	0 48	23 59	0 53	2 2	1 11	18 18	1 54	8 16	0 44	10 34	1 57	29 20	13 58	3 24	2 51	22 15		n.a.
S 18	12 52	27 54	5 12	5 25	3 34	20 41	0 50	23 55	0 54	1 56	1 11	18 20	1 54	8 15	0 44	10 34	1 57	29 19	13 58	3 25	2 52	22 13		n.a.
M19	12 32	28 55	5 12	5 30	3 39	20 26	0 53	23 51	0 55	1 51	1 11	18 21	1 54	8 13	0 44	10 34	1 57	29 19	13 58	3 26	2 54	22 10		n.a.
T 20	12 11	27 57	4 53	5 39	3 42	20 10	0 55	23 46	0 55	1 45	1 10	18 23	1 54	8 12	0 44	10 33	1 57	29 18	13 58	3 27	2 55	22 8		n.a.
W21	11 50	25 0	4 14	5 52	3 43	19 54	0 57	23 41	0 56	1 40	1 10	18 24	1 54	8 11	0 44	10 33	1 57	29 18	13 58	3 28	2 56	22 6		n.a.
T 22	11 29	20 18	3 16	6 8	3 42	19 37	0 59	23 36	0 57	1 34	1 10	18 25	1 54	8 10	0 44	10 33	1 57	29 18	13 58	3 29	2 57	22 3		n.a.
F 23	11 8	14 16	2 5	6 28	3 39	19 19	1 1	23 31	0 58	1 29	1 10	18 27	1 54	8 8	0 44	10 33	1 57	29 17	13 58	3 30	2 59	22 1		n.a.
S 24	10 46	7 27	0 45	6 50	3 35	19 1	1 2	23 26	0 58	1 23	1 10	18 28	1 54	8 7	0 44	10 32	1 57	29 17	13 58	3 30	3 0	21 59		n.a.
S 25	10 25	0 21	0n36	7 14	3 28	18 43	1 4	23 20	0 59	1 18	1 10	18 29	1 54	8 6	0 44	10 32	1 57	29 16	13 58	3 30	3 1	21 56		n.a.
M26	10 3	6n36	1 53	7 40	3 20	18 23	1 6	23 14	1 0	1 12	1 10	18 31	1 54	8 4	0 44	10 32	1 57	29 16	13 59	3 30	3 2	21 54		n.a.
T 27	9 41	13 1	3 1	8 8	3 11	18 4	1 8	23 8	1 1	1 7	1 10	18 32	1 54	8 3	0 44	10 32	1 57	29 16	13 59	3 30	3 4	21 51		n.a.
W28	9s19	18n37	3n57	8s36	3n 0	17s44	1s 9	23s 1	1s 1	1s 1	1s10	18n33	1n54	8s 2	0s44	10s31	1n57	29s15	13s59	3s29	3s 5	21n49		n.a.

Julian Day Number = 1658631.5, Delta T = 03h26m59s
Ecliptic obliquity = 23°43'07, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°26'28, Lahiri = - 6°19'28 Julian Calendar 1 Feb. 172 BCE == Greg. Calendar 29 Jan. 172 BCE

The year -171 astronomical counting style corresponds to year 172 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 172 BCE
geocentric

MARCH 172 BCE (-171) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 20 59	7♓15'31	22♉48	29°R46	15♒53	22♋ 1	0♈20	14°R13	11♓30	2°R 8	16♒46	21♓19	22♓16	8♌32	n.a.	T 1
F 2	10 24 55	8°14'37	5♊31	29♒ 1	17° 7	22°47	0°34	14♌ 9	11°33	2♏ 7	16°47	21°R20	22°13	8°38	n.a.	F 2
S 3	10 28 52	9°13'41	17°55	28°20	18°21	23°34	0°48	14° 5	11°37	2° 6	16°49	21°20	22° 9	8°45	n.a.	S 3
S 4	10 32 48	10°12'42	0♋ 4	27°42	19°34	24°20	1° 2	14° 1	11°40	2° 6	16°50	21°19	22° 6	8°52	n.a.	S 4
M 5	10 36 45	11°11'41	12° 3	27°10	20°48	25° 6	1°15	13°57	11°44	2° 5	16°52	21°18	22° 3	8°58	n.a.	M 5
T 6	10 40 42	12°10'38	23°55	26°42	22° 2	25°52	1°29	13°53	11°47	2° 4	16°53	21°17	22° 0	9° 5	n.a.	T 6
W 7	10 44 38	13° 9'32	5♌45	26°20	23°16	26°38	1°43	13°49	11°50	2° 3	16°55	21°15	21°57	9°12	n.a.	W 7
T 8	10 48 35	14° 8'24	17°35	26° 3	24°29	27°24	1°57	13°45	11°54	2° 2	16°56	21°14	21°54	9°18	n.a.	T 8
F 9	10 52 31	15° 7'14	29°28	25°52	25°43	28°10	2°11	13°42	11°57	2° 1	16°58	21°14	21°50	9°25	n.a.	F 9
S 10	10 56 28	16° 6'02	11♍27	25°46	26°57	28°56	2°25	13°38	12° 1	2° 0	16°59	21°13	21°47	9°32	n.a.	S 10
S 11	11 0 24	17° 4'47	23°34	25°D45	28°10	29°42	2°39	13°34	12° 4	1°59	17° 1	21°D13	21°44	9°38	n.a.	S 11
M12	11 4 21	18° 3'30	5♎50	25°50	29°24	0♒28	2°53	13°31	12° 7	1°58	17° 2	21°13	21°41	9°45	n.a.	M12
T 13	11 8 17	19° 2'12	18°16	26° 0	0♓38	1°14	3° 7	13°27	12°11	1°57	17° 3	21°14	21°38	9°52	n.a.	T 13
W14	11 12 14	20° 0'51	0♏56	26°15	1°52	2° 0	3°21	13°24	12°14	1°56	17° 5	21°14	21°34	9°58	n.a.	W14
T 15	11 16 10	20°59'29	13°49	26°35	3° 5	2°46	3°36	13°21	12°18	1°55	17° 6	21°R14	21°31	10° 5	n.a.	T 15
F 16	11 20 7	21°58'05	26°58	27° 0	4°19	3°32	3°50	13°18	12°21	1°54	17° 7	21°14	21°28	10°12	n.a.	F 16
S 17	11 24 4	22°56'39	10♐24	27°28	5°33	4°18	4° 4	13°14	12°24	1°53	17° 9	21°14	21°25	10°18	n.a.	S 17
S 18	11 28 0	23°55'11	24° 7	28° 2	6°46	5° 4	4°18	13°11	12°28	1°51	17°10	21°D14	21°22	10°25	n.a.	S 18
M19	11 31 57	24°53'42	8♑ 9	28°39	8° 0	5°50	4°32	13° 8	12°31	1°50	17°11	21°14	21°19	10°32	n.a.	M19
T 20	11 35 53	25°52'11	22°27	29°20	9°14	6°36	4°46	13° 6	12°35	1°49	17°13	21°14	21°15	10°38	n.a.	T 20
W21	11 39 50	26°50'39	7♒ 0	0♓ 4	10°27	7°22	5° 1	13° 3	12°38	1°48	17°14	21°14	21°12	10°45	n.a.	W21
T 22	11 43 46	27°49'04	21°43	0°52	11°41	8° 8	5°15	13° 0	12°41	1°47	17°15	21°15	21° 9	10°52	n.a.	T 22
F 23	11 47 43	28°47'28	6♓31	1°44	12°55	8°53	5°29	12°58	12°45	1°45	17°17	21°15	21° 6	10°58	n.a.	F 23
S 24	11 51 39	29°45'50	21°16	2°38	14° 9	9°39	5°43	12°55	12°48	1°44	17°18	21°R16	21° 3	11° 5	n.a.	S 24
S 25	11 55 36	0♈44'10	5♈51	3°36	15°22	10°25	5°58	12°53	12°51	1°43	17°19	21°15	20°59	11°12	n.a.	S 25
M26	11 59 33	1°42'28	20°11	4°37	16°36	11°11	6°12	12°50	12°55	1°41	17°20	21°15	20°56	11°19	n.a.	M26
T 27	12 3 29	2°40'44	4♉10	5°40	17°50	11°57	6°26	12°48	12°58	1°40	17°22	21°13	20°53	11°25	n.a.	T 27
W28	12 7 26	3°38'59	17°45	6°46	19° 3	12°43	6°40	12°46	13° 1	1°39	17°23	21°12	20°50	11°32	n.a.	W28
T 29	12 11 22	4°37'11	0♊56	7°55	20°17	13°28	6°55	12°44	13° 4	1°37	17°24	21°10	20°47	11°39	n.a.	T 29
F 30	12 15 19	5°35'21	13°44	9° 6	21°31	14°14	7° 9	12°42	13° 8	1°36	17°25	21° 9	20°44	11°45	n.a.	F 30
S 31	12 19 15	6♈33'29	26♊12	10♓19	22♓44	15♒ 0	7♈23	12♌40	13♓11	1♏34	17♒26	21♓ 8	20♓40	11♌52	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	8s57	23n10	4n38	9s 4	2n48	17s23	1s11	22s55	1s 2	0s55	1s 9	18n34	1n54	8s 0	0s44	10s31	1n58	29s15	13s59	3s29	3s 6	21n47			n.a.
F 2	8 34	26 28	5 5	9 32	2 34	17 2	1 12	22 48	1 3	0 50	1 9	18 36	1 54	7 59	0 44	10 31	1 58	29 15	13 59	3 29	3 8	21 44			n.a.
S 3	8 12	28 24	5 16	10 0	2 20	16 40	1 14	22 41	1 3	0 44	1 9	18 37	1 54	7 58	0 44	10 30	1 58	29 14	13 59	3 29	3 9	21 42			n.a.
S 4	7 50	28 56	5 13	10 27	2 6	16 18	1 15	22 33	1 4	0 38	1 9	18 38	1 54	7 56	0 44	10 30	1 58	29 14	13 59	3 29	3 10	21 39			n.a.
M 5	7 27	28 5	4 56	10 52	1 51	15 56	1 16	22 25	1 5	0 33	1 9	18 39	1 54	7 55	0 44	10 30	1 58	29 13	14 0	3 29	3 11	21 37			n.a.
T 6	7 4	25 57	4 27	11 16	1 35	15 33	1 18	22 18	1 5	0 27	1 9	18 40	1 54	7 54	0 44	10 29	1 58	29 13	14 0	3 30	3 13	21 34			n.a.
W 7	6 42	22 42	3 46	11 38	1 20	15 10	1 19	22 9	1 6	0 21	1 9	18 41	1 54	7 52	0 44	10 29	1 58	29 13	14 0	3 30	3 14	21 32			n.a.
T 8	6 19	18 32	2 56	11 59	1 4	14 46	1 20	22 1	1 7	0 16	1 9	18 43	1 54	7 51	0 44	10 29	1 58	29 13	14 0	3 31	3 15	21 29			n.a.
F 9	5 56	13 38	1 58	12 17	0 49	14 22	1 21	21 52	1 8	0 10	1 9	18 44	1 54	7 50	0 44	10 28	1 58	29 12	14 0	3 31	3 16	21 27			n.a.
S 10	5 33	8 11	0 54	12 33	0 34	13 57	1 22	21 43	1 8	0 4	1 9	18 45	1 54	7 48	0 44	10 28	1 58	29 12	14 0	3 31	3 18	21 25			n.a.
S 11	5 10	2 23	0s13	12 47	0 19	13 33	1 23	21 34	1 9	0n 1	1 8	18 46	1 54	7 47	0 44	10 27	1 58	29 12	14 1	3 31	3 19	21 22			n.a.
M12	4 46	3s34	1 20	12 59	0 4	13 7	1 24	21 25	1 10	0 7	1 8	18 47	1 54	7 46	0 44	10 27	1 58	29 11	14 1	3 31	3 20	21 20			n.a.
T 13	4 23	9 28	2 25	13 9	0s10	12 42	1 25	21 16	1 10	0 13	1 8	18 48	1 54	7 45	0 44	10 27	1 58	29 11	14 1	3 31	3 21	21 17			n.a.
W14	4 0	15 6	3 23	13 16	0 23	12 16	1 25	21 6	1 11	0 19	1 8	18 48	1 54	7 43	0 44	10 26	1 58	29 11	14 1	3 31	3 23	21 15			n.a.
T 15	3 37	20 10	4 12	13 22	0 36	11 50	1 26	20 56	1 12	0 24	1 8	18 49	1 54	7 42	0 44	10 26	1 58	29 11	14 1	3 31	3 24	21 12			n.a.
F 16	3 13	24 24	4 49	13 25	0 48	11 23	1 27	20 46	1 12	0 30	1 8	18 50	1 54	7 41	0 44	10 25	1 58	29 10	14 2	3 31	3 25	21 10			n.a.
S 17	2 50	27 24	5 12	13 26	1 0	10 56	1 27	20 35	1 13	0 36	1 8	18 51	1 54	7 39	0 44	10 25	1 58	29 10	14 2	3 31	3 27	21 7			n.a.
S 18	2 27	28 52	5 17	13 25	1 11	10 29	1 28	20 25	1 13	0 41	1 8	18 52	1 54	7 38	0 44	10 25	1 58	29 10	14 2	3 31	3 28	21 5			n.a.
M19	2 3	28 31	5 4	13 21	1 22	10 2	1 28	20 14	1 14	0 47	1 8	18 53	1 53	7 37	0 44	10 24	1 58	29 10	14 2	3 31	3 29	21 2			n.a.
T 20	1 40	26 17	4 32	13 16	1 32	9 34	1 28	20 3	1 15	0 53	1 8	18 53	1 53	7 35	0 44	10 24	1 58	29 9	14 2	3 31	3 30	21 0			n.a.
W21	1 16	22 18	3 42	13 9	1 41	9 6	1 29	19 52	1 15	0 59	1 8	18 54	1 53	7 34	0 44	10 23	1 58	29 9	14 3	3 31	3 32	20 57			n.a.
T 22	0 53	16 54	2 37	12 59	1 49	8 38	1 29	19 40	1 16	1 4	1 8	18 55	1 53	7 33	0 44	10 23	1 58	29 9	14 3	3 31	3 33	20 55			n.a.
F 23	0 29	10 29	1 21	12 48	1 57	8 9	1 29	19 29	1 17	1 10	1 8	18 56	1 53	7 32	0 44	10 22	1 59	29 9	14 3	3 30	3 34	20 52			n.a.
S 24	0 6	3 30	0n 0	12 35	2 4	7 41	1 29	19 17	1 17	1 16	1 8	18 56	1 53	7 30	0 44	10 22	1 59	29 9	14 3	3 30	3 35	20 50			n.a.
S 25	0n18	3n34	1 20	12 20	2 11	7 12	1 29	19 5	1 18	1 22	1 7	18 57	1 53	7 29	0 44	10 21	1 59	29 8	14 4	3 30	3 37	20 47			n.a.
M26	0 41	10 20	2 34	12 3	2 17	6 43	1 29	18 53	1 18	1 28	1 7	18 57	1 53	7 28	0 44	10 21	1 59	29 8	14 4	3 31	3 38	20 44			n.a.
T 27	1 5	16 26	3 36	11 45	2 22	6 14	1 29	18 40	1 19	1 33	1 7	18 58	1 53	7 26	0 44	10 20	1 59	29 8	14 4	3 31	3 39	20 42			n.a.
W28	1 28	21 32	4 24	11 24	2 27	5 44	1 29	18 28	1 20	1 39	1 7	18 59	1 53	7 25	0 44	10 20	1 59	29 8	14 4	3 32	3 40	20 39			n.a.
T 29	1 51	25 25	4 57	11 2	2 31	5 15	1 29	18 15	1 20	1 45	1 7	18 59	1 53	7 24	0 44	10 19	1 59	29 8	14 5	3 32	3 42	20 37			n.a.
F 30	2 15	27 54	5 14	10 38	2 35	4 45	1 28	18 2	1 21	1 50	1 7	19 0	1 53	7 23	0 44	10 19	1 59	29 8	14 5	3 33	3 43	20 34			n.a.
S 31	2n38	28n55	5n15	10s13	2s38	4s15	1s28	17s49	1s21	1n56	1s 7	19n 0	1n52	7s21	0s44	10s18	1n59	29s 8	14s 5	3s33	3s44	20n32			n.a.

Julian Day Number = 1658659.5, Delta T = 03h26m58s
Ecliptic obliquity = 23°43'07, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°26'25, Lahiri = - 6°19'24 Julian Calendar 1 March 172 BCE == Greg. Calendar 26 Feb. 172 BCE

The year -171 astronomical counting style corresponds to year 172 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 172 BCE
geocentric

APRIL 172 BCE (-171) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 23 12	7♈31'35	8♋23	11♓35	23♓58	15♒46	7♈37	12°R38	13♓14	1°R33	17♒27	21°D 7	20♓37	11♌59	n.a.	S 1
M 2	12 27 8	8°29'39	20°23	12°54	25°12	16°31	7°52	12♌37	13°17	1♏31	17°28	21♓ 8	20°34	12° 5	n.a.	M 2
T 3	12 31 5	9°27'41	2♌15	14°14	26°25	17°17	8° 6	12°35	13°20	1°30	17°29	21° 9	20°31	12°12	n.a.	T 3
W 4	12 35 2	10°25'41	14° 4	15°37	27°39	18° 3	8°20	12°34	13°23	1°29	17°31	21°10	20°28	12°19	n.a.	W 4
T 5	12 38 58	11°23'39	25°56	17° 2	28°52	18°48	8°34	12°32	13°27	1°27	17°32	21°12	20°25	12°25	n.a.	T 5
F 6	12 42 55	12°21'35	7♍53	18°28	0♈ 6	19°34	8°49	12°31	13°30	1°26	17°33	21°13	20°21	12°32	n.a.	F 6
S 7	12 46 51	13°19'29	19°59	19°57	1°20	20°19	9° 3	12°30	13°33	1°24	17°34	21°R14	20°18	12°39	n.a.	S 7
S 8	12 50 48	14°17'21	2♎17	21°29	2°33	21° 5	9°17	12°29	13°36	1°22	17°35	21°13	20°15	12°45	n.a.	S 8
M 9	12 54 44	15°15'12	14°49	23° 2	3°47	21°50	9°31	12°28	13°39	1°21	17°36	21°12	20°12	12°52	n.a.	M 9
T 10	12 58 41	16°13'01	27°35	24°37	5° 0	22°36	9°45	12°27	13°42	1°19	17°37	21° 9	20° 9	12°59	n.a.	T 10
W11	13 2 37	17°10'49	10♏35	26°14	6°14	23°21	10° 0	12°26	13°45	1°18	17°37	21° 5	20° 5	13° 5	n.a.	W11
T 12	13 6 34	18° 8'35	23°50	27°53	7°28	24° 7	10°14	12°25	13°48	1°16	17°38	21° 1	20° 2	13°12	n.a.	T 12
F 13	13 10 31	19° 6'20	7♐19	29°35	8°41	24°52	10°28	12°25	13°51	1°15	17°39	20°57	19°59	13°19	n.a.	F 13
S 14	13 14 27	20° 4'04	20°59	1♑18	9°55	25°37	10°42	12°24	13°54	1°13	17°40	20°54	19°56	13°25	n.a.	S 14
S 15	13 18 24	21° 1'46	4♑51	3° 3	11° 8	26°23	10°56	12°24	13°57	1°12	17°41	20°52	19°53	13°32	n.a.	S 15
M16	13 22 20	21°59'28	18°52	4°51	12°22	27° 8	11°10	12°24	14° 0	1°10	17°42	20°D51	19°50	13°39	n.a.	M16
T 17	13 26 17	22°57'08	3♒ 2	6°40	13°36	27°53	11°25	12°24	14° 2	1° 8	17°43	20°51	19°46	13°45	n.a.	T 17
W18	13 30 13	23°54'47	17°17	8°31	14°49	28°38	11°39	12°D24	14° 5	1° 7	17°43	20°52	19°43	13°52	n.a.	W18
T 19	13 34 10	24°52'25	1♓38	10°25	16° 3	29°23	11°53	12°24	14° 8	1° 5	17°44	20°54	19°40	13°59	n.a.	T 19
F 20	13 38 6	25°50'01	15°59	12°20	17°17	0♓ 8	12° 7	12°24	14°11	1° 4	17°45	20°R54	19°37	14° 5	n.a.	F 20
S 21	13 42 3	26°47'37	0♈19	14°18	18°30	0°53	12°21	12°24	14°14	1° 2	17°46	20°54	19°34	14°12	n.a.	S 21
S 22	13 46 0	27°45'11	14°31	16°17	19°44	1°38	12°35	12°24	14°16	1° 0	17°46	20°52	19°30	14°19	n.a.	S 22
M23	13 49 56	28°42'45	28°33	18°18	20°57	2°23	12°49	12°25	14°19	0°59	17°47	20°49	19°27	14°25	n.a.	M23
T 24	13 53 53	29°40'17	12♉19	20°21	22°11	3° 8	13° 3	12°26	14°22	0°57	17°48	20°43	19°24	14°32	n.a.	T 24
W25	13 57 49	0♉37'48	25°47	22°25	23°25	3°53	13°17	12°26	14°24	0°55	17°48	20°37	19°21	14°39	n.a.	W25
T 26	14 1 46	1°35'17	8♊55	24°32	24°38	4°38	13°30	12°27	14°27	0°54	17°49	20°30	19°18	14°45	n.a.	T 26
F 27	14 5 42	2°32'45	21°42	26°39	25°52	5°23	13°44	12°28	14°29	0°52	17°50	20°24	19°15	14°52	n.a.	F 27
S 28	14 9 39	3°30'12	4♋10	28°48	27° 5	6° 8	13°58	12°29	14°32	0°51	17°50	20°19	19°11	14°59	n.a.	S 28
S 29	14 13 35	4°27'38	16°22	0♌58	28°19	6°52	14°12	12°30	14°34	0°49	17°51	20°15	19° 8	15° 5	n.a.	S 29
M30	14 17 32	5♌25'02	28♋22	3♌ 9	29♈33	7♓37	14♈26	12♌31	14♓37	0♏47	17♒51	20♓13	19♓ 5	15♌12	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n 1	28n28	5n 2	9s46	2s40	3s45	1s27	17s36	1s22	2n 2	1s 7	19n 0	1n52	7s20	0s44	10s18	1n59	29s 8	14s 6	3s33	3s46	20n29		n.a.
M 2	3 24	26 42	4 36	9 17	2 42	3 15	1 27	17 23	1 22	2 8	1 7	19 1	1 52	7 19	0 44	10 17	1 59	29 7	14 6	3 33	3 47	20 27		n.a.
T 3	3 47	23 45	3 59	8 46	2 43	2 45	1 26	17 9	1 23	2 13	1 7	19 1	1 52	7 18	0 44	10 17	1 59	29 7	14 6	3 33	3 48	20 24		n.a.
W 4	4 11	19 50	3 11	8 14	2 43	2 15	1 26	16 55	1 24	2 19	1 7	19 1	1 52	7 17	0 44	10 16	1 59	29 7	14 6	3 32	3 49	20 21		n.a.
T 5	4 33	15 8	2 15	7 41	2 43	1 45	1 25	16 42	1 24	2 25	1 7	19 2	1 52	7 15	0 44	10 16	1 59	29 7	14 7	3 32	3 51	20 19		n.a.
F 6	4 56	9 50	1 13	7 6	2 42	1 15	1 24	16 28	1 25	2 30	1 7	19 2	1 52	7 14	0 44	10 15	1 59	29 7	14 7	3 31	3 52	20 16		n.a.
S 7	5 19	4 7	0 7	6 29	2 41	0 44	1 23	16 14	1 25	2 36	1 7	19 2	1 52	7 13	0 44	10 14	1 59	29 7	14 7	3 31	3 53	20 14		n.a.
S 8	5 42	1s51	1s 1	5 51	2 39	0 14	1 22	15 59	1 26	2 42	1 7	19 2	1 52	7 12	0 44	10 14	1 59	29 7	14 8	3 31	3 54	20 11		n.a.
M 9	6 4	7 50	2 6	5 12	2 37	0n16	1 22	15 45	1 26	2 48	1 7	19 3	1 52	7 11	0 44	10 13	1 59	29 7	14 8	3 32	3 56	20 8		n.a.
T 10	6 27	13 38	3 7	4 31	2 34	0 47	1 21	15 30	1 27	2 53	1 7	19 3	1 51	7 9	0 44	10 13	1 59	29 7	14 8	3 33	3 57	20 6		n.a.
W11	6 49	18 56	3 59	3 48	2 30	1 17	1 20	15 16	1 27	2 59	1 7	19 3	1 51	7 8	0 44	10 12	1 59	29 7	14 9	3 34	3 58	20 3		n.a.
T 12	7 12	23 27	4 39	3 5	2 26	1 48	1 18	15 1	1 28	3 4	1 7	19 3	1 51	7 7	0 44	10 12	1 59	29 7	14 9	3 36	3 59	20 0		n.a.
F 13	7 34	26 47	5 4	2 20	2 21	2 18	1 17	14 46	1 28	3 10	1 7	19 3	1 51	7 6	0 44	10 11	1 59	29 7	14 9	3 38	4 1	19 58		n.a.
S 14	7 56	28 37	5 13	1 33	2 16	2 49	1 16	14 31	1 29	3 16	1 7	19 3	1 51	7 5	0 44	10 11	1 59	29 7	14 9	3 39	4 2	19 55		n.a.
S 15	8 18	28 41	5 4	0 46	2 10	3 19	1 15	14 16	1 29	3 21	1 7	19 3	1 51	7 4	0 44	10 10	1 59	29 7	14 10	3 40	4 3	19 53		n.a.
M16	8 40	26 56	4 36	0n 3	2 4	3 49	1 13	14 1	1 30	3 27	1 7	19 3	1 51	7 3	0 44	10 9	1 59	29 7	14 10	3 40	4 4	19 50		n.a.
T 17	9 1	23 28	3 52	0 53	1 57	4 19	1 12	13 45	1 30	3 32	1 7	19 3	1 51	7 2	0 44	10 9	1 59	29 7	14 10	3 40	4 6	19 47		n.a.
W18	9 23	18 35	2 53	1 44	1 50	4 49	1 11	13 30	1 31	3 38	1 7	19 3	1 51	7 1	0 44	10 8	1 59	29 7	14 11	3 40	4 7	19 45		n.a.
T 19	9 44	12 38	1 43	2 36	1 42	5 19	1 9	13 14	1 31	3 44	1 7	19 3	1 50	6 59	0 44	10 8	1 59	29 7	14 11	3 39	4 8	19 42		n.a.
F 20	10 6	6 0	0 27	3 29	1 34	5 49	1 8	12 59	1 31	3 49	1 7	19 3	1 50	6 58	0 44	10 7	1 59	29 7	14 11	3 39	4 10	19 39		n.a.
S 21	10 27	0n54	0n51	4 23	1 25	6 19	1 6	12 43	1 32	3 55	1 7	19 2	1 50	6 57	0 44	10 7	1 59	29 7	14 12	3 39	4 11	19 37		n.a.
S 22	10 48	7 42	2 5	5 18	1 16	6 49	1 4	12 27	1 32	4 0	1 7	19 2	1 50	6 56	0 44	10 6	1 59	29 7	14 12	3 40	4 12	19 34		n.a.
M23	11 9	14 2	3 10	6 13	1 7	7 18	1 3	12 11	1 33	4 6	1 7	19 2	1 50	6 55	0 44	10 5	1 59	29 8	14 12	3 41	4 13	19 31		n.a.
T 24	11 29	19 34	4 3	7 9	0 57	7 48	1 1	11 55	1 33	4 11	1 7	19 2	1 50	6 54	0 44	10 5	1 59	29 8	14 13	3 43	4 15	19 29		n.a.
W25	11 50	23 58	4 41	8 6	0 47	8 17	0 59	11 39	1 33	4 17	1 7	19 1	1 50	6 53	0 44	10 4	1 59	29 8	14 13	3 46	4 16	19 26		n.a.
T 26	12 10	27 2	5 3	9 2	0 37	8 46	0 57	11 23	1 34	4 22	1 7	19 1	1 50	6 52	0 44	10 4	1 59	29 8	14 14	3 48	4 17	19 23		n.a.
F 27	12 30	28 36	5 9	9 59	0 27	9 15	0 56	11 6	1 34	4 27	1 7	19 1	1 49	6 51	0 44	10 3	1 59	29 8	14 14	3 51	4 18	19 21		n.a.
S 28	12 50	28 39	5 1	10 55	0 16	9 43	0 54	10 50	1 35	4 33	1 7	19 0	1 49	6 50	0 44	10 3	1 59	29 8	14 14	3 53	4 20	19 18		n.a.
S 29	13 9	27 18	4 38	11 52	0 5	10 12	0 52	10 33	1 35	4 38	1 7	19 0	1 49	6 49	0 44	10 2	1 59	29 8	14 15	3 54	4 21	19 15		n.a.
M30	13n29	24n42	4n 4	12n47	0n 5	10n40	0s50	10s17	1s35	4n44	1s 7	18n59	1n49	6s48	0s44	10s 1	1n59	29s 8	14s15	3s55	4s22	19n12		n.a.

Julian Day Number = 1658690.5, Delta T = 03h26m57s
Ecliptic obliquity = 23°43'07, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°26'20, Lahiri = - 6°19'20 Julian Calendar 1 Apr. 172 BCE == Greg. Calendar 29 March 172 BCE

The year -171 astronomical counting style corresponds to year 172 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 172 BCE
geocentric

MAY 172 BCE (-171) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 21 29	6♉22'25	10♌15	5♉20	0♉46	8♓21	14♈39	12♌32	14♓39	0°R46	17♒52	20°D13	19♓ 2	15♌19	n.a.	T 1
W 2	14 25 25	7°19'47	22° 5	7°32	2° 0	9° 6	14°53	12°34	14°42	0♏44	17°52	20♓14	18°59	15°25	n.a.	W 2
T 3	14 29 22	8°17'07	3♍57	9°43	3°13	9°50	15° 7	12°35	14°44	0°42	17°53	20°15	18°56	15°32	n.a.	T 3
F 4	14 33 18	9°14'26	15°57	11°55	4°27	10°35	15°20	12°37	14°46	0°41	17°53	20°R16	18°52	15°39	n.a.	F 4
S 5	14 37 15	10°11'44	28° 9	14° 6	5°41	11°19	15°34	12°39	14°49	0°39	17°54	20°16	18°49	15°45	n.a.	S 5
S 6	14 41 11	11° 9'01	10♎37	16°16	6°54	12° 3	15°47	12°40	14°51	0°38	17°54	20°14	18°46	15°52	n.a.	S 6
M 7	14 45 8	12° 6'17	23°23	18°26	8° 8	12°47	16° 1	12°42	14°53	0°36	17°54	20°10	18°43	15°59	n.a.	M 7
T 8	14 49 4	13° 3'32	6♏27	20°34	9°21	13°32	16°14	12°44	14°55	0°35	17°55	20° 4	18°40	16° 5	n.a.	T 8
W 9	14 53 1	14° 0'46	19°51	22°41	10°35	14°16	16°28	12°46	14°57	0°33	17°55	19°56	18°36	16°12	n.a.	W 9
T 10	14 56 58	14°58'00	3♐32	24°46	11°49	15° 0	16°41	12°49	14°59	0°31	17°55	19°47	18°33	16°19	n.a.	T 10
F 11	15 0 54	15°55'13	17°26	26°49	13° 2	15°44	16°54	12°51	15° 1	0°30	17°56	19°38	18°30	16°25	n.a.	F 11
S 12	15 4 51	16°52'25	1♑30	28°51	14°16	16°28	17° 7	12°53	15° 3	0°28	17°56	19°30	18°27	16°32	n.a.	S 12
S 13	15 8 47	17°49'37	15°39	0♊50	15°29	17°12	17°21	12°56	15° 5	0°27	17°56	19°25	18°24	16°39	n.a.	S 13
M14	15 12 44	18°46'49	29°51	2°48	16°43	17°55	17°34	12°58	15° 7	0°25	17°56	19°21	18°21	16°45	n.a.	M14
T 15	15 16 40	19°44'00	14♒ 2	4°43	17°57	18°39	17°47	13° 1	15° 9	0°24	17°56	19°D19	18°17	16°52	n.a.	T 15
W16	15 20 37	20°41'11	28°11	6°36	19°10	19°23	18° 0	13° 4	15°11	0°22	17°57	19°19	18°14	16°59	n.a.	W16
T 17	15 24 33	21°38'22	12♓16	8°26	20°24	20° 6	18°13	13° 6	15°13	0°21	17°57	19°R20	18°11	17° 5	n.a.	T 17
F 18	15 28 30	22°35'32	26°17	10°15	21°38	20°50	18°26	13° 9	15°15	0°19	17°57	19°20	18° 8	17°12	n.a.	F 18
S 19	15 32 27	23°32'42	10♈12	12° 1	22°51	21°33	18°39	13°12	15°16	0°18	17°57	19°18	18° 5	17°19	n.a.	S 19
S 20	15 36 23	24°29'52	23°59	13°44	24° 5	22°17	18°52	13°15	15°18	0°16	17°57	19°14	18° 2	17°25	n.a.	S 20
M21	15 40 20	25°27'02	7♉36	15°26	25°19	23° 0	19° 4	13°19	15°20	0°15	17°57	19° 7	17°58	17°32	n.a.	M21
T 22	15 44 16	26°24'12	21° 2	17° 4	26°32	23°43	19°17	13°22	15°21	0°13	17°R57	18°58	17°55	17°39	n.a.	T 22
W23	15 48 13	27°21'21	4♊13	18°41	27°46	24°26	19°30	13°25	15°23	0°12	17°57	18°47	17°52	17°45	n.a.	W23
T 24	15 52 9	28°18'30	17° 9	20°15	29° 0	25°10	19°42	13°29	15°24	0°11	17°57	18°36	17°49	17°52	n.a.	T 24
F 25	15 56 6	29°15'39	29°48	21°47	0♊13	25°53	19°55	13°32	15°26	0° 9	17°57	18°25	17°46	17°59	n.a.	F 25
S 26	16 0 3	0♊12'47	12♋11	23°16	1°27	26°35	20° 7	13°36	15°27	0° 8	17°57	18°15	17°42	18° 5	n.a.	S 26
S 27	16 3 59	1° 9'55	24°20	24°43	2°41	27°18	20°20	13°40	15°29	0° 7	17°57	18° 7	17°39	18°12	n.a.	S 27
M28	16 7 56	2° 7'02	6♌18	26° 7	3°55	28° 1	20°32	13°44	15°30	0° 5	17°57	18° 2	17°36	18°19	n.a.	M28
T 29	16 11 52	3° 4'09	18°10	27°28	5° 8	28°44	20°44	13°47	15°31	0° 4	17°57	17°59	17°33	18°25	n.a.	T 29
W30	16 15 49	4° 1'16	29°59	28°48	6°22	29°26	20°56	13°51	15°33	0° 3	17°56	17°D58	17°30	18°32	n.a.	W30
T 31	16 19 45	4♊58'22	11♍51	0♋ 4	7♊36	0♈ 9	21♈ 8	13♌55	15♓34	0♏ 1	17♒56	17°R58	17♓27	18♌39	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	13n48	21n 4	3n19	13n42	0n16	11n 8	0s48	10s 0	1s36	4n49	1s 7	18n59	1n49	6s48	0s44	10s 1	1n59	29s 9	14s15	3s55	4s23	19n10			n.a.
W 2	14 7	16 37	2 26	14 36	0 26	11 35	0 46	9 44	1 36	4 54	1 7	18 58	1 49	6 47	0 44	10 0	1 59	29 9	14 16	3 55	4 25	19 7			n.a.
T 3	14 26	11 31	1 27	15 28	0 36	12 3	0 44	9 27	1 36	5 0	1 7	18 58	1 49	6 46	0 44	10 0	1 59	29 9	14 16	3 54	4 26	19 4			n.a.
F 4	14 44	5 58	0 23	16 19	0 46	12 30	0 42	9 10	1 37	5 5	1 7	18 57	1 49	6 45	0 45	9 59	1 59	29 9	14 16	3 54	4 27	19 2			n.a.
S 5	15 3	0 6	0s42	17 8	0 56	12 57	0 40	8 54	1 37	5 10	1 7	18 57	1 48	6 44	0 45	9 59	1 59	29 9	14 17	3 54	4 28	18 59			n.a.
S 6	15 21	5s53	1 47	17 56	1 5	13 23	0 38	8 37	1 37	5 15	1 7	18 56	1 48	6 43	0 45	9 58	1 59	29 10	14 17	3 55	4 30	18 56			n.a.
M 7	15 39	11 47	2 48	18 41	1 13	13 49	0 35	8 20	1 37	5 20	1 7	18 55	1 48	6 42	0 45	9 58	1 59	29 10	14 17	3 56	4 31	18 53			n.a.
T 8	15 56	17 19	3 42	19 24	1 21	14 15	0 33	8 3	1 38	5 26	1 7	18 55	1 48	6 42	0 45	9 57	1 59	29 10	14 18	3 59	4 32	18 51			n.a.
W 9	16 14	22 9	4 25	20 5	1 29	14 41	0 31	7 46	1 38	5 31	1 7	18 54	1 48	6 41	0 45	9 57	1 59	29 10	14 18	4 2	4 33	18 48			n.a.
T 10	16 31	25 54	4 53	20 44	1 36	15 6	0 29	7 29	1 38	5 36	1 7	18 53	1 48	6 40	0 45	9 56	1 59	29 11	14 19	4 6	4 35	18 45			n.a.
F 11	16 48	28 10	5 5	21 19	1 42	15 31	0 26	7 12	1 39	5 41	1 7	18 52	1 48	6 39	0 45	9 55	1 59	29 11	14 19	4 9	4 36	18 42			n.a.
S 12	17 4	28 41	4 59	21 53	1 47	15 55	0 24	6 55	1 39	5 46	1 7	18 52	1 48	6 38	0 45	9 55	1 59	29 11	14 19	4 12	4 37	18 40			n.a.
S 13	17 21	27 19	4 34	22 24	1 52	16 19	0 22	6 38	1 39	5 51	1 7	18 51	1 47	6 38	0 45	9 54	1 59	29 11	14 20	4 14	4 38	18 37			n.a.
M14	17 37	24 12	3 53	22 52	1 56	16 43	0 20	6 21	1 39	5 56	1 7	18 50	1 47	6 37	0 45	9 54	1 59	29 12	14 20	4 16	4 40	18 34			n.a.
T 15	17 52	19 38	2 57	23 17	2 0	17 6	0 17	6 4	1 39	6 1	1 7	18 49	1 47	6 36	0 45	9 53	1 59	29 12	14 20	4 16	4 41	18 31			n.a.
W16	18 8	13 58	1 50	23 40	2 3	17 29	0 15	5 47	1 40	6 6	1 7	18 48	1 47	6 35	0 45	9 53	1 59	29 12	14 21	4 16	4 42	18 28			n.a.
T 17	18 23	7 37	0 38	24 1	2 5	17 51	0 13	5 29	1 40	6 11	1 7	18 47	1 47	6 35	0 45	9 52	1 59	29 12	14 21	4 16	4 43	18 26			n.a.
F 18	18 38	0 56	0n37	24 19	2 6	18 13	0 10	5 12	1 40	6 16	1 7	18 46	1 47	6 34	0 45	9 52	1 59	29 13	14 22	4 16	4 45	18 23			n.a.
S 19	18 53	5n45	1 49	24 35	2 6	18 34	0 8	4 55	1 40	6 21	1 8	18 45	1 47	6 33	0 45	9 51	1 59	29 13	14 22	4 17	4 46	18 20			n.a.
S 20	19 7	12 5	2 53	24 48	2 6	18 55	0 6	4 38	1 40	6 26	1 8	18 44	1 47	6 33	0 45	9 51	1 59	29 13	14 22	4 18	4 47	18 17			n.a.
M21	19 21	17 47	3 47	24 59	2 5	19 16	0 3	4 21	1 41	6 31	1 8	18 43	1 47	6 32	0 45	9 50	1 59	29 14	14 23	4 21	4 48	18 14			n.a.
T 22	19 35	22 31	4 27	25 8	2 4	19 36	0 1	4 4	1 41	6 35	1 8	18 42	1 46	6 32	0 45	9 50	1 59	29 14	14 23	4 25	4 50	18 12			n.a.
W23	19 48	26 1	4 52	25 15	2 2	19 55	0n 2	3 46	1 41	6 40	1 8	18 41	1 46	6 31	0 45	9 50	1 59	29 14	14 23	4 29	4 51	18 9			n.a.
T 24	20 1	28 6	5 2	25 20	1 59	20 14	0 4	3 29	1 41	6 45	1 8	18 40	1 46	6 30	0 45	9 49	1 59	29 15	14 24	4 34	4 52	18 6			n.a.
F 25	20 14	28 39	4 56	25 23	1 55	20 32	0 6	3 12	1 41	6 50	1 8	18 39	1 46	6 30	0 45	9 49	1 59	29 15	14 24	4 38	4 53	18 3			n.a.
S 26	20 26	27 44	4 36	25 24	1 51	20 50	0 9	2 55	1 41	6 54	1 8	18 38	1 46	6 29	0 45	9 48	1 59	29 15	14 24	4 42	4 55	18 0			n.a.
S 27	20 38	25 30	4 4	25 23	1 46	21 7	0 11	2 38	1 41	6 59	1 8	18 36	1 46	6 29	0 45	9 48	1 58	29 16	14 25	4 45	4 56	17 58			n.a.
M28	20 50	22 10	3 22	25 20	1 41	21 24	0 13	2 21	1 41	7 4	1 8	18 35	1 46	6 28	0 45	9 47	1 58	29 16	14 25	4 47	4 57	17 55			n.a.
T 29	21 1	17 57	2 31	25 16	1 35	21 40	0 16	2 4	1 41	7 8	1 8	18 34	1 46	6 28	0 45	9 47	1 58	29 17	14 26	4 48	4 59	17 52			n.a.
W30	21 12	13 4	1 34	25 11	1 28	21 55	0 18	1 47	1 42	7 13	1 8	18 33	1 46	6 27	0 45	9 46	1 58	29 17	14 26	4 48	5 0	17 49			n.a.
T 31	21n23	7n42	0n32	25n 4	1n21	22n10	0n20	1s29	1s42	7n17	1s 8	18n31	1n45	6s27	0s45	9s46	1n58	29s17	14s26	4s48	5s 1	17n46			n.a.

Julian Day Number = 1658720.5, Delta T = 03h26m56s
Ecliptic obliquity = 23°43'07, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°26'16, Lahiri = - 6°19'16 Julian Calendar 1 May 172 BCE == Greg. Calendar 28 Apr. 172 BCE

The year -171 astronomical counting style corresponds to year 172 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 172 BCE
geocentric

JUNE 172 BCE (-171) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 23 42	5♊55'28	23♍51	1♋18	8♊49	0♈51	21♈20	14♌ 0	15♓35	0°R 0	17°R56	17°R58	17♓23	18♌45	n.a.	F 1
S 2	16 27 38	6°52'34	6♎ 6	2°29	10° 3	1°34	21°32	14° 4	15°36	29♎59	17♒56	17♓57	17°20	18°52	n.a.	S 2
S 3	16 31 35	7°49'39	18°38	3°37	11°17	2°16	21°44	14° 8	15°37	29°58	17°55	17°54	17°17	18°59	n.a.	S 3
M 4	16 35 32	8°46'45	1♏33	4°43	12°31	2°58	21°56	14°12	15°38	29°57	17°55	17°49	17°14	19° 5	n.a.	M 4
T 5	16 39 28	9°43'50	14°51	5°45	13°44	3°40	22° 8	14°17	15°39	29°55	17°55	17°41	17°11	19°12	n.a.	T 5
W 6	16 43 25	10°40'56	28°33	6°45	14°58	4°22	22°19	14°21	15°40	29°54	17°55	17°30	17° 8	19°19	n.a.	W 6
T 7	16 47 21	11°38'01	12♐37	7°41	16°12	5° 4	22°31	14°26	15°41	29°53	17°54	17°19	17° 4	19°25	n.a.	T 7
F 8	16 51 18	12°35'07	26°57	8°34	17°26	5°46	22°42	14°31	15°42	29°52	17°54	17° 8	17° 1	19°32	n.a.	F 8
S 9	16 55 14	13°32'13	11♑27	9°23	18°39	6°27	22°54	14°35	15°43	29°51	17°53	16°58	16°58	19°39	n.a.	S 9
S 10	16 59 11	14°29'20	26° 0	10°10	19°53	7° 9	23° 5	14°40	15°43	29°50	17°53	16°50	16°55	19°45	n.a.	S 10
M11	17 3 7	15°26'27	10♒31	10°52	21° 7	7°50	23°16	14°45	15°44	29°49	17°53	16°45	16°52	19°52	n.a.	M11
T 12	17 7 4	16°23'34	24°55	11°31	22°21	8°32	23°27	14°50	15°45	29°48	17°52	16°42	16°48	19°59	n.a.	T 12
W13	17 11 1	17°20'43	9♓ 8	12° 6	23°34	9°13	23°38	14°55	15°45	29°47	17°52	16°41	16°45	20° 5	n.a.	W13
T 14	17 14 57	18°17'51	23° 9	12°37	24°48	9°54	23°49	15° 0	15°46	29°46	17°51	16°41	16°42	20°12	n.a.	T 14
F 15	17 18 54	19°15'01	6♈58	13° 3	26° 2	10°35	24° 0	15° 5	15°46	29°45	17°51	16°40	16°39	20°19	n.a.	F 15
S 16	17 22 50	20°12'11	20°36	13°25	27°16	11°16	24°11	15°11	15°47	29°44	17°50	16°38	16°36	20°25	n.a.	S 16
S 17	17 26 47	21° 9'22	4♉ 2	13°43	28°30	11°57	24°21	15°16	15°47	29°43	17°49	16°33	16°33	20°32	n.a.	S 17
M18	17 30 43	22° 6'34	17°17	13°56	29°44	12°38	24°32	15°21	15°47	29°42	17°49	16°26	16°29	20°39	n.a.	M18
T 19	17 34 40	23° 3'47	0♊20	14° 5	0♋57	13°19	24°42	15°27	15°48	29°42	17°48	16°15	16°26	20°45	n.a.	T 19
W20	17 38 37	24° 1'01	13°12	14°R 8	2°11	13°59	24°53	15°32	15°48	29°41	17°48	16° 3	16°23	20°52	n.a.	W20
T 21	17 42 33	24°58'15	25°50	14° 7	3°25	14°40	25° 3	15°38	15°48	29°40	17°47	15°50	16°20	20°59	n.a.	T 21
F 22	17 46 30	25°55'30	8♋16	14° 1	4°39	15°20	25°13	15°43	15°48	29°39	17°46	15°38	16°17	21° 5	n.a.	F 22
S 23	17 50 26	26°52'45	20°30	13°50	5°53	16° 0	25°23	15°49	15°48	29°39	17°46	15°26	16°14	21°12	n.a.	S 23
S 24	17 54 23	27°50'01	2♌33	13°34	7° 7	16°40	25°33	15°55	15°49	29°38	17°45	15°18	16°10	21°19	n.a.	S 24
M25	17 58 19	28°47'18	14°27	13°13	8°21	17°20	25°43	16° 1	15°R49	29°37	17°44	15°11	16° 7	21°25	n.a.	M25
T 26	18 2 16	29°44'35	26°16	12°48	9°35	18° 0	25°52	16° 7	15°49	29°37	17°43	15° 8	16° 4	21°32	n.a.	T 26
W27	18 6 12	0♋41'53	8♍ 3	12°18	10°48	18°40	26° 2	16°12	15°48	29°36	17°43	15° 6	16° 1	21°39	n.a.	W27
T 28	18 10 9	1°39'11	19°54	11°44	12° 2	19°19	26°11	16°18	15°48	29°36	17°42	15°D 6	15°58	21°45	n.a.	T 28
F 29	18 14 6	2°36'30	1♎53	11° 7	13°16	19°58	26°21	16°24	15°48	29°35	17°41	15°R 6	15°54	21°52	n.a.	F 29
S 30	18 18 2	3♋33'50	14♎ 6	10♋27	14♋30	20♈38	26♈30	16♌30	15♓48	29♎35	17♒40	15♓ 6	15♓51	21♌59	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n33	1n59	0s31	24n56	1n13	22n24	0n23	1s12	1s42	7n22	1s 8	18n30	1n45	6s27	0s45	9s46	1n58	29s18	14s27	4s48	5s 2	17n43		n.a.
S 2	21 43	3s53	1 35	24 46	1 5	22 38	0 25	0 56	1 42	7 26	1 9	18 29	1 45	6 26	0 45	9 45	1 58	29 18	14 27	4 49	5 4	17 40		n.a.
S 3	21 52	9 46	2 35	24 36	0 56	22 50	0 27	0 39	1 42	7 30	1 9	18 27	1 45	6 26	0 45	9 45	1 58	29 19	14 27	4 50	5 5	17 38		n.a.
M 4	22 1	15 24	3 29	24 24	0 46	23 3	0 29	0 22	1 42	7 35	1 9	18 26	1 45	6 25	0 46	9 44	1 58	29 19	14 28	4 52	5 6	17 35		n.a.
T 5	22 10	20 30	4 13	24 12	0 36	23 14	0 32	0 5	1 42	7 39	1 9	18 24	1 45	6 25	0 46	9 44	1 58	29 20	14 28	4 56	5 7	17 32		n.a.
W 6	22 18	24 41	4 44	23 58	0 26	23 25	0 34	0n12	1 42	7 43	1 9	18 23	1 45	6 25	0 46	9 44	1 58	29 20	14 28	5 0	5 9	17 29		n.a.
T 7	22 27	27 31	4 59	23 44	0 15	23 35	0 36	0 29	1 42	7 48	1 9	18 22	1 45	6 24	0 46	9 43	1 58	29 20	14 29	5 4	5 10	17 26		n.a.
F 8	22 34	28 37	4 56	23 29	0 3	23 45	0 38	0 46	1 42	7 52	1 9	18 20	1 45	6 24	0 46	9 43	1 58	29 21	14 29	5 8	5 11	17 23		n.a.
S 9	22 41	27 46	4 34	23 14	0s 9	23 54	0 40	1 2	1 42	7 56	1 9	18 19	1 45	6 24	0 46	9 43	1 58	29 21	14 29	5 12	5 12	17 20		n.a.
S 10	22 48	25 1	3 54	22 58	0 21	24 2	0 42	1 19	1 42	8 0	1 9	18 17	1 45	6 24	0 46	9 42	1 58	29 22	14 30	5 16	5 14	17 18		n.a.
M11	22 55	20 40	2 59	22 42	0 34	24 9	0 45	1 36	1 42	8 4	1 9	18 16	1 44	6 23	0 46	9 42	1 58	29 22	14 30	5 18	5 15	17 15		n.a.
T 12	23 1	15 8	1 52	22 26	0 47	24 16	0 47	1 52	1 42	8 8	1 9	18 14	1 44	6 23	0 46	9 42	1 58	29 23	14 30	5 19	5 16	17 12		n.a.
W13	23 6	8 51	0 40	22 10	1 0	24 22	0 49	2 9	1 41	8 12	1 10	18 12	1 44	6 23	0 46	9 41	1 58	29 23	14 31	5 19	5 17	17 9		n.a.
T 14	23 12	2 14	0n34	21 53	1 14	24 27	0 51	2 25	1 41	8 16	1 10	18 11	1 44	6 23	0 46	9 41	1 58	29 24	14 31	5 19	5 19	17 6		n.a.
F 15	23 17	4n24	1 45	21 36	1 28	24 32	0 53	2 41	1 41	8 20	1 10	18 9	1 44	6 23	0 46	9 41	1 58	29 24	14 31	5 19	5 20	17 3		n.a.
S 16	23 21	10 44	2 49	21 20	1 42	24 36	0 54	2 58	1 41	8 24	1 10	18 8	1 44	6 23	0 46	9 41	1 58	29 25	14 32	5 20	5 21	17 0		n.a.
S 17	23 25	16 29	3 42	21 4	1 57	24 39	0 56	3 14	1 41	8 28	1 10	18 6	1 44	6 22	0 46	9 40	1 57	29 25	14 32	5 22	5 22	16 57		n.a.
M18	23 29	21 23	4 23	20 48	2 11	24 41	0 58	3 30	1 41	8 32	1 10	18 4	1 44	6 22	0 46	9 40	1 57	29 26	14 32	5 25	5 24	16 54		n.a.
T 19	23 32	25 10	4 49	20 33	2 26	24 43	1 0	3 46	1 41	8 35	1 10	18 3	1 44	6 22	0 46	9 40	1 57	29 26	14 33	5 29	5 25	16 51		n.a.
W20	23 35	27 36	5 0	20 18	2 40	24 44	1 2	4 2	1 41	8 39	1 10	18 1	1 44	6 22	0 46	9 40	1 57	29 27	14 33	5 34	5 26	16 48		n.a.
T 21	23 37	28 35	4 56	20 5	2 54	24 44	1 3	4 18	1 41	8 43	1 10	17 59	1 44	6 22	0 46	9 39	1 57	29 27	14 33	5 39	5 27	16 46		n.a.
F 22	23 39	28 4	4 38	19 51	3 8	24 43	1 5	4 34	1 40	8 46	1 11	17 57	1 44	6 22	0 46	9 39	1 57	29 28	14 34	5 44	5 29	16 43		n.a.
S 23	23 41	26 12	4 7	19 39	3 21	24 42	1 7	4 50	1 40	8 50	1 11	17 55	1 44	6 22	0 46	9 39	1 57	29 28	14 34	5 48	5 30	16 40		n.a.
S 24	23 42	23 9	3 25	19 28	3 34	24 40	1 8	5 5	1 40	8 54	1 11	17 54	1 43	6 22	0 46	9 39	1 57	29 29	14 34	5 52	5 31	16 37		n.a.
M25	23 43	19 9	2 35	19 18	3 47	24 37	1 10	5 21	1 40	8 57	1 11	17 52	1 43	6 22	0 46	9 39	1 57	29 29	14 35	5 54	5 32	16 34		n.a.
T 26	23 43	14 27	1 38	19 9	3 58	24 33	1 11	5 36	1 40	9 0	1 11	17 50	1 43	6 22	0 46	9 39	1 57	29 30	14 35	5 56	5 33	16 31		n.a.
W27	23 43	9 13	0 37	19 1	4 9	24 29	1 13	5 52	1 39	9 4	1 11	17 48	1 43	6 22	0 46	9 38	1 57	29 30	14 35	5 56	5 35	16 28		n.a.
T 28	23 42	3 39	0s25	18 54	4 18	24 24	1 14	6 7	1 39	9 7	1 11	17 46	1 43	6 22	0 46	9 38	1 57	29 31	14 35	5 56	5 36	16 25		n.a.
F 29	23 42	2s 6	1 28	18 49	4 26	24 18	1 15	6 22	1 39	9 10	1 11	17 44	1 43	6 22	0 46	9 38	1 57	29 31	14 36	5 56	5 37	16 22		n.a.
S 30	23n40	7s54	2s28	18n46	4s33	24n11	1n17	6n38	1s39	9n14	1s12	17n43	1n43	6s23	0s46	9s38	1n57	29s32	14s36	5s56	5s38	16n19		n.a.

Julian Day Number = 1658751.5, Delta T = 03h26m55s
Ecliptic obliquity = 23°43'06, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°26'12, Lahiri = - 6°19'11 Julian Calendar 1 June 172 BCE == Greg. Calendar 29 May 172 BCE

The year -171 astronomical counting style corresponds to year 172 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 172 BCE
geocentric

JULY 172 BCE (-171) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 21 59	4♋31'10	26♎39	9°R44	15♋44	21♈17	26♈39	16♌37	15°R48	29°R34	17°R40	15°R 4	15♓48	22♌ 5	n.a.	S 1
M 2	18 25 55	5°28'31	9♏35	8♋59	16°58	21°56	26°48	16°43	15♓47	29♎34	17♒39	15♓ 0	15°45	22°12	n.a.	M 2
T 3	18 29 52	6°25'53	22°58	8°14	18°12	22°35	26°57	16°49	15°47	29°33	17°38	14°53	15°42	22°19	n.a.	T 3
W 4	18 33 48	7°23'16	6♐49	7°28	19°26	23°14	27° 5	16°55	15°46	29°33	17°37	14°44	15°39	22°25	n.a.	W 4
T 5	18 37 45	8°20'40	21° 6	6°43	20°40	23°52	27°14	17° 2	15°46	29°33	17°36	14°35	15°35	22°32	n.a.	T 5
F 6	18 41 41	9°18'05	5♑43	6° 0	21°54	24°31	27°22	17° 8	15°45	29°32	17°35	14°25	15°32	22°39	n.a.	F 6
S 7	18 45 38	10°15'31	20°35	5°19	23° 8	25° 9	27°31	17°14	15°45	29°32	17°34	14°16	15°29	22°45	n.a.	S 7
S 8	18 49 35	11°12'58	5♒31	4°41	24°21	25°47	27°39	17°21	15°44	29°32	17°33	14° 9	15°26	22°52	n.a.	S 8
M 9	18 53 31	12°10'26	20°25	4° 7	25°35	26°25	27°47	17°27	15°44	29°31	17°32	14° 5	15°23	22°59	n.a.	M 9
T 10	18 57 28	13° 7'56	5♓ 7	3°37	26°49	27° 3	27°55	17°34	15°43	29°31	17°31	14° 3	15°20	23° 5	n.a.	T 10
W11	19 1 24	14° 5'27	19°34	3°13	28° 3	27°41	28° 2	17°40	15°42	29°31	17°30	14°D 3	15°16	23°12	n.a.	W11
T 12	19 5 21	15° 3'00	3♈42	2°55	29°17	28°19	28°10	17°47	15°41	29°31	17°29	14° 3	15°13	23°18	n.a.	T 12
F 13	19 9 17	16° 0'34	17°31	2°43	0♌31	28°56	28°18	17°54	15°40	29°31	17°28	14°R 4	15°10	23°25	n.a.	F 13
S 14	19 13 14	16°58'10	1♉ 2	2°D37	1°45	29°33	28°25	18° 0	15°40	29°31	17°27	14° 3	15° 7	23°32	n.a.	S 14
S 15	19 17 10	17°55'48	14°16	2°39	2°59	0♉11	28°32	18° 7	15°39	29°D31	17°26	14° 0	15° 4	23°38	n.a.	S 15
M16	19 21 7	18°53'27	27°15	2°47	4°13	0°48	28°39	18°14	15°38	29°31	17°25	13°54	15° 0	23°45	n.a.	M16
T 17	19 25 4	19°51'08	10♊ 0	3° 3	5°27	1°24	28°46	18°21	15°37	29°31	17°24	13°47	14°57	23°52	n.a.	T 17
W18	19 29 0	20°48'51	22°34	3°26	6°41	2° 1	28°53	18°28	15°36	29°31	17°23	13°38	14°54	23°58	n.a.	W18
T 19	19 32 57	21°46'35	4♋56	3°57	7°55	2°37	28°59	18°35	15°34	29°31	17°22	13°28	14°51	24° 5	n.a.	T 19
F 20	19 36 53	22°44'21	17° 8	4°35	9° 9	3°14	29° 6	18°42	15°33	29°31	17°21	13°19	14°48	24°12	n.a.	F 20
S 21	19 40 50	23°42'08	29°11	5°20	10°23	3°50	29°12	18°48	15°32	29°31	17°20	13°11	14°45	24°18	n.a.	S 21
S 22	19 44 46	24°39'57	11♌ 6	6°12	11°37	4°26	29°18	18°55	15°31	29°31	17°19	13° 4	14°41	24°25	n.a.	S 22
M23	19 48 43	25°37'47	22°56	7°10	12°51	5° 1	29°24	19° 2	15°30	29°32	17°17	13° 0	14°38	24°32	n.a.	M23
T 24	19 52 40	26°35'39	4♍43	8°16	14° 5	5°37	29°30	19°10	15°28	29°32	17°16	12°58	14°35	24°38	n.a.	T 24
W25	19 56 36	27°33'32	16°29	9°27	15°19	6°12	29°36	19°17	15°27	29°32	17°15	12°D58	14°32	24°45	n.a.	W25
T 26	20 0 33	28°31'26	28°20	10°45	16°33	6°48	29°41	19°24	15°25	29°33	17°14	12°58	14°29	24°52	n.a.	T 26
F 27	20 4 29	29°29'22	10♎19	12° 8	17°47	7°22	29°46	19°31	15°24	29°33	17°13	13° 0	14°26	24°58	n.a.	F 27
S 28	20 8 26	0♌27'20	22°31	13°36	19° 1	7°57	29°52	19°38	15°23	29°33	17°12	13° 1	14°22	25° 5	n.a.	S 28
S 29	20 12 22	1°25'18	5♏ 1	15° 9	20°15	8°32	29°57	19°45	15°21	29°34	17°10	13°R 1	14°19	25°12	n.a.	S 29
M30	20 16 19	2°23'19	17°54	16°47	21°29	9° 6	0♉ 1	19°52	15°19	29°34	17° 9	13° 0	14°16	25°18	n.a.	M30
T 31	20 20 15	3♌21'21	1♐13	18♋28	22♌43	9♉40	0♉ 6	20♌ 0	15♓18	29♎35	17♒ 8	12♓57	14♓13	25♌25	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	23n38	13s32	3s22	18n44	4s38	24n 4	1n18	6n53	1s38	9n17	1s12	17n41	1n43	6s23	0s47	9s38	1n57	29s32	14s36	5s57	5s40	16n16			n.a.
M 2	23 36	18 46	4 8	18 43	4 42	23 56	1 19	7 8	1 38	9 20	1 12	17 39	1 43	6 23	0 47	9 38	1 57	29 33	14 36	5 59	5 41	16 13			n.a.
T 3	23 34	23 16	4 42	18 44	4 44	23 47	1 20	7 22	1 38	9 23	1 12	17 37	1 43	6 23	0 47	9 38	1 57	29 33	14 37	6 1	5 42	16 10			n.a.
W 4	23 31	26 38	5 0	18 47	4 44	23 38	1 21	7 37	1 38	9 26	1 12	17 35	1 43	6 23	0 47	9 38	1 56	29 34	14 37	6 5	5 43	16 7			n.a.
T 5	23 27	28 25	5 1	18 51	4 43	23 28	1 22	7 52	1 37	9 29	1 12	17 33	1 43	6 23	0 47	9 38	1 56	29 34	14 37	6 8	5 45	16 4			n.a.
F 6	23 23	28 18	4 43	18 56	4 39	23 17	1 23	8 6	1 37	9 32	1 12	17 31	1 43	6 24	0 47	9 38	1 56	29 35	14 37	6 12	5 46	16 1			n.a.
S 7	23 19	26 9	4 5	19 3	4 34	23 5	1 24	8 21	1 37	9 35	1 13	17 29	1 43	6 24	0 47	9 37	1 56	29 36	14 38	6 16	5 47	15 58			n.a.
S 8	23 14	22 11	3 10	19 11	4 27	22 53	1 24	8 35	1 36	9 38	1 13	17 27	1 43	6 24	0 47	9 37	1 56	29 36	14 38	6 18	5 48	15 55			n.a.
M 9	23 9	16 47	2 3	19 21	4 19	22 40	1 25	8 49	1 36	9 40	1 13	17 25	1 43	6 25	0 47	9 37	1 56	29 37	14 38	6 20	5 50	15 52			n.a.
T 10	23 4	10 29	0 48	19 32	4 9	22 26	1 26	9 4	1 35	9 43	1 13	17 23	1 43	6 25	0 47	9 37	1 56	29 37	14 38	6 21	5 51	15 49			n.a.
W11	22 58	3 44	0n30	19 43	3 57	22 12	1 26	9 18	1 35	9 46	1 13	17 20	1 43	6 25	0 47	9 37	1 56	29 38	14 39	6 21	5 52	15 46			n.a.
T 12	22 51	3n 4	1 43	19 56	3 45	21 57	1 27	9 31	1 35	9 48	1 13	17 18	1 43	6 26	0 47	9 37	1 56	29 38	14 39	6 21	5 53	15 43			n.a.
F 13	22 45	9 33	2 49	20 10	3 31	21 42	1 27	9 45	1 34	9 51	1 13	17 16	1 43	6 26	0 47	9 37	1 56	29 39	14 39	6 21	5 55	15 40			n.a.
S 14	22 38	15 28	3 44	20 25	3 17	21 26	1 28	9 59	1 34	9 53	1 14	17 14	1 43	6 26	0 47	9 38	1 56	29 39	14 39	6 21	5 56	15 37			n.a.
S 15	22 30	20 32	4 26	20 40	3 2	21 9	1 28	10 12	1 33	9 56	1 14	17 12	1 43	6 27	0 47	9 38	1 56	29 40	14 40	6 22	5 57	15 34			n.a.
M16	22 22	24 31	4 53	20 55	2 46	20 52	1 29	10 26	1 33	9 58	1 14	17 10	1 43	6 27	0 47	9 38	1 56	29 40	14 40	6 24	5 58	15 31			n.a.
T 17	22 14	27 14	5 5	21 11	2 30	20 34	1 29	10 39	1 33	10 1	1 14	17 8	1 42	6 28	0 47	9 38	1 56	29 41	14 40	6 27	6 0	15 28			n.a.
W18	22 5	28 32	5 2	21 27	2 13	20 15	1 29	10 52	1 32	10 3	1 14	17 6	1 42	6 28	0 47	9 38	1 56	29 41	14 40	6 30	6 1	15 25			n.a.
T 19	21 56	28 22	4 45	21 43	1 57	19 56	1 29	11 5	1 32	10 5	1 14	17 3	1 42	6 28	0 47	9 38	1 55	29 42	14 40	6 34	6 2	15 22			n.a.
F 20	21 47	26 49	4 15	21 58	1 40	19 36	1 29	11 18	1 31	10 7	1 15	17 1	1 42	6 29	0 47	9 38	1 55	29 42	14 40	6 38	6 3	15 19			n.a.
S 21	21 37	24 2	3 34	22 13	1 24	19 16	1 29	11 31	1 31	10 9	1 15	16 59	1 42	6 29	0 47	9 38	1 55	29 43	14 41	6 41	6 5	15 16			n.a.
S 22	21 26	20 15	2 43	22 27	1 7	18 55	1 29	11 44	1 30	10 11	1 15	16 57	1 42	6 30	0 47	9 38	1 55	29 44	14 41	6 44	6 6	15 13			n.a.
M23	21 16	15 42	1 46	22 40	0 51	18 34	1 29	11 56	1 30	10 13	1 15	16 54	1 42	6 30	0 47	9 38	1 55	29 44	14 41	6 45	6 7	15 10			n.a.
T 24	21 5	10 35	0 45	22 52	0 36	18 12	1 28	12 9	1 29	10 15	1 15	16 52	1 42	6 31	0 47	9 39	1 55	29 45	14 41	6 46	6 8	15 7			n.a.
W25	20 53	5 6	0s19	23 2	0 21	17 50	1 28	12 21	1 29	10 17	1 15	16 50	1 42	6 32	0 47	9 39	1 55	29 45	14 41	6 46	6 10	15 4			n.a.
T 26	20 42	0s35	1 22	23 10	0 7	17 27	1 27	12 33	1 28	10 19	1 16	16 48	1 42	6 32	0 47	9 39	1 55	29 46	14 41	6 46	6 11	15 1			n.a.
F 27	20 30	6 19	2 23	23 16	0n 7	17 4	1 27	12 45	1 27	10 21	1 16	16 45	1 42	6 33	0 47	9 39	1 55	29 46	14 42	6 45	6 12	14 58			n.a.
S 28	20 17	11 55	3 18	23 21	0 20	16 40	1 26	12 57	1 27	10 22	1 16	16 43	1 42	6 33	0 47	9 39	1 55	29 47	14 42	6 45	6 13	14 55			n.a.
S 29	20 5	17 11	4 5	23 23	0 32	16 16	1 26	13 9	1 26	10 24	1 16	16 41	1 42	6 34	0 47	9 39	1 55	29 47	14 42	6 45	6 14	14 52			n.a.
M30	19 51	21 52	4 42	23 22	0 43	15 51	1 25	13 21	1 26	10 25	1 16	16 39	1 42	6 35	0 47	9 40	1 55	29 48	14 42	6 45	6 16	14 49			n.a.
T 31	19n38	25s36	5s 5	23n19	0n54	15n26	1n24	13n32	1s25	10n27	1s16	16n36	1n42	6s35	0s47	9s40	1n55	29s48	14s42	6s46	6s17	14n46			n.a.

Julian Day Number = 1658781.5, Delta T = 03h26m54s
Ecliptic obliquity = 23°43'06, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°26'08, Lahiri = - 6°19'07 Julian Calendar 1 July 172 BCE == Greg. Calendar 28 June 172 BCE

The year -171 astronomical counting style corresponds to year 172 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 172 BCE
geocentric

AUGUST 172 BCE (-171) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 24 12	4♌19'24	15♐ 1	20♋12	23♌57	10♉14	0♉10	20♌ 7	15°R16	29♎35	17°R 7	12°R53	14♓10	25♌32	n.a.	W 1
T 2	20 28 9	5°17'29	29°18	22° 0	25°11	10°48	0°15	20°14	15♓15	29°36	17♒ 6	12♓48	14° 6	25°38	n.a.	T 2
F 3	20 32 5	6°15'35	13♑59	23°49	26°24	11°21	0°19	20°21	15°13	29°36	17° 4	12°42	14° 3	25°45	n.a.	F 3
S 4	20 36 2	7°13'44	29° 0	25°41	27°38	11°55	0°23	20°29	15°11	29°37	17° 3	12°37	14° 0	25°52	n.a.	S 4
S 5	20 39 58	8°11'54	14♒10	27°34	28°52	12°28	0°26	20°36	15° 9	29°38	17° 2	12°33	13°57	25°58	n.a.	S 5
M 6	20 43 55	9°10'05	29°20	29°28	0♍ 6	13° 0	0°30	20°43	15° 8	29°38	17° 1	12°31	13°54	26° 5	n.a.	M 6
T 7	20 47 51	10° 8'19	14♓21	1♌23	1°20	13°33	0°33	20°51	15° 6	29°39	17° 0	12°D31	13°51	26°12	n.a.	T 7
W 8	20 51 48	11° 6'35	29° 5	3°19	2°34	14° 5	0°36	20°58	15° 4	29°40	16°58	12°31	13°47	26°18	n.a.	W 8
T 9	20 55 44	12° 4'53	13♈27	5°15	3°48	14°37	0°39	21° 5	15° 2	29°41	16°57	12°33	13°44	26°25	n.a.	T 9
F 10	20 59 41	13° 3'13	27°26	7°10	5° 2	15° 9	0°42	21°13	15° 0	29°41	16°56	12°34	13°41	26°31	n.a.	F 10
S 11	21 3 37	14° 1'35	11♉ 0	9° 6	6°16	15°41	0°45	21°20	14°58	29°42	16°55	12°R35	13°38	26°38	n.a.	S 11
S 12	21 7 34	15° 0'00	24°12	11° 1	7°30	16°12	0°47	21°28	14°56	29°43	16°53	12°35	13°35	26°45	n.a.	S 12
M13	21 11 31	15°58'27	7♊ 4	12°56	8°43	16°43	0°49	21°35	14°54	29°44	16°52	12°33	13°32	26°51	n.a.	M13
T 14	21 15 27	16°56'56	19°39	14°49	9°57	17°14	0°52	21°42	14°52	29°45	16°51	12°30	13°28	26°58	n.a.	T 14
W15	21 19 24	17°55'27	2♋ 0	16°43	11°11	17°45	0°53	21°50	14°50	29°46	16°50	12°27	13°25	27° 5	n.a.	W15
T 16	21 23 20	18°54'01	14° 9	18°35	12°25	18°15	0°55	21°57	14°48	29°47	16°48	12°23	13°22	27°11	n.a.	T 16
F 17	21 27 17	19°52'37	26°10	20°26	13°39	18°45	0°56	22° 5	14°46	29°48	16°47	12°19	13°19	27°18	n.a.	F 17
S 18	21 31 13	20°51'15	8♌ 4	22°17	14°53	19°15	0°58	22°12	14°44	29°49	16°46	12°16	13°16	27°25	n.a.	S 18
S 19	21 35 10	21°49'55	19°54	24° 6	16° 7	19°44	0°59	22°20	14°41	29°50	16°45	12°13	13°12	27°31	n.a.	S 19
M20	21 39 6	22°48'37	1♍41	25°55	17°20	20°13	1° 0	22°27	14°39	29°51	16°43	12°12	13° 9	27°38	n.a.	M20
T 21	21 43 3	23°47'21	13°28	27°43	18°34	20°42	1° 0	22°34	14°37	29°52	16°42	12°D12	13° 6	27°45	n.a.	T 21
W22	21 47 0	24°46'07	25°18	29°29	19°48	21°10	1° 1	22°42	14°35	29°53	16°41	12°12	13° 3	27°51	n.a.	W22
T 23	21 50 56	25°44'55	7♎12	1♍15	21° 2	21°38	1° 1	22°49	14°32	29°55	16°40	12°13	13° 0	27°58	n.a.	T 23
F 24	21 54 53	26°43'45	19°15	2°59	22°16	22° 6	1°R 1	22°57	14°30	29°56	16°39	12°15	12°57	28° 5	n.a.	F 24
S 25	21 58 49	27°42'37	1♏30	4°43	23°29	22°33	1° 1	23° 4	14°28	29°57	16°37	12°16	12°53	28°11	n.a.	S 25
S 26	22 2 46	28°41'30	14° 0	6°26	24°43	23° 0	1° 0	23°11	14°26	29°58	16°36	12°17	12°50	28°18	n.a.	S 26
M27	22 6 42	29°40'26	26°50	8° 7	25°57	23°27	1° 0	23°19	14°23	29°59	16°35	12°R17	12°47	28°25	n.a.	M27
T 28	22 10 39	0♍39'23	10♐ 3	9°48	27°11	23°53	0°59	23°26	14°21	0♏ 1	16°34	12°17	12°44	28°31	n.a.	T 28
W29	22 14 35	1°38'23	23°42	11°28	28°24	24°19	0°58	23°34	14°19	0° 2	16°32	12°16	12°41	28°38	n.a.	W29
T 30	22 18 32	2°37'24	7♑48	13° 7	29°38	24°45	0°57	23°41	14°16	0° 4	16°31	12°15	12°38	28°45	n.a.	T 30
F 31	22 22 29	3♍36'27	22♑19	14♍45	0♎52	25♉10	0♉56	23♌48	14♓14	0♏ 5	16♒30	12♓14	12♓34	28♌51	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	19n24	28s 1	5s11	23n13	1n 3	15n 0	1n24	13n44	1s24	10n28	1s17	16n34	1n42	6s36	0s47	9s40	1n55	29s49	14s42	6s48	6s18	14n43			n.a.
T 2	19 10	28 41	4 58	23 5	1 12	14 35	1 23	13 55	1 24	10 30	1 17	16 32	1 42	6 37	0 48	9 40	1 55	29 49	14 42	6 50	6 19	14 39			n.a.
F 3	18 56	27 23	4 26	22 53	1 19	14 8	1 22	14 6	1 23	10 31	1 17	16 29	1 42	6 37	0 48	9 41	1 54	29 50	14 42	6 52	6 21	14 36			n.a.
S 4	18 41	24 6	3 35	22 40	1 26	13 42	1 21	14 17	1 22	10 32	1 17	16 27	1 43	6 38	0 48	9 41	1 54	29 50	14 42	6 54	6 22	14 33			n.a.
S 5	18 26	19 8	2 29	22 23	1 32	13 15	1 20	14 28	1 22	10 33	1 17	16 25	1 43	6 39	0 48	9 41	1 54	29 51	14 43	6 56	6 23	14 30			n.a.
M 6	18 10	12 57	1 12	22 4	1 36	12 47	1 18	14 38	1 21	10 34	1 17	16 22	1 43	6 39	0 48	9 42	1 54	29 51	14 43	6 56	6 24	14 27			n.a.
T 7	17 55	6 5	0n10	21 43	1 40	12 20	1 17	14 49	1 20	10 35	1 18	16 20	1 43	6 40	0 48	9 42	1 54	29 52	14 43	6 57	6 26	14 24			n.a.
W 8	17 39	1n 0	1 30	21 19	1 43	11 52	1 16	14 59	1 20	10 36	1 18	16 18	1 43	6 41	0 48	9 42	1 54	29 52	14 43	6 56	6 27	14 21			n.a.
T 9	17 22	7 51	2 42	20 53	1 46	11 23	1 15	15 10	1 19	10 37	1 18	16 15	1 43	6 42	0 48	9 43	1 54	29 53	14 43	6 56	6 28	14 18			n.a.
F 10	17 6	14 7	3 42	20 25	1 47	10 55	1 13	15 20	1 18	10 38	1 18	16 13	1 43	6 42	0 48	9 43	1 54	29 53	14 43	6 55	6 29	14 15			n.a.
S 11	16 49	19 32	4 28	19 56	1 48	10 26	1 12	15 30	1 17	10 39	1 18	16 10	1 43	6 43	0 48	9 43	1 54	29 53	14 43	6 55	6 31	14 12			n.a.
S 12	16 31	23 51	4 58	19 24	1 48	9 56	1 10	15 40	1 16	10 39	1 19	16 8	1 43	6 44	0 48	9 44	1 54	29 54	14 43	6 55	6 32	14 9			n.a.
M13	16 14	26 52	5 13	18 51	1 48	9 27	1 9	15 49	1 16	10 40	1 19	16 6	1 43	6 45	0 48	9 44	1 54	29 54	14 43	6 56	6 33	14 6			n.a.
T 14	15 56	28 29	5 12	18 17	1 47	8 57	1 7	15 59	1 15	10 41	1 19	16 3	1 43	6 46	0 48	9 44	1 54	29 55	14 43	6 57	6 34	14 2			n.a.
W15	15 38	28 38	4 56	17 41	1 45	8 27	1 5	16 8	1 14	10 41	1 19	16 1	1 43	6 46	0 48	9 45	1 54	29 55	14 43	6 58	6 35	13 59			n.a.
T 16	15 20	27 23	4 27	17 4	1 43	7 57	1 3	16 18	1 13	10 41	1 19	15 58	1 43	6 47	0 48	9 45	1 54	29 56	14 43	7 0	6 37	13 56			n.a.
F 17	15 1	24 53	3 47	16 26	1 40	7 27	1 2	16 27	1 12	10 42	1 19	15 56	1 43	6 48	0 48	9 46	1 54	29 56	14 43	7 1	6 38	13 53			n.a.
S 18	14 43	21 19	2 57	15 47	1 37	6 56	1 0	16 36	1 11	10 42	1 20	15 54	1 43	6 49	0 48	9 46	1 54	29 56	14 43	7 2	6 39	13 50			n.a.
S 19	14 24	16 55	2 0	15 7	1 34	6 26	0 58	16 45	1 10	10 42	1 20	15 51	1 43	6 50	0 48	9 47	1 53	29 57	14 43	7 3	6 40	13 47			n.a.
M20	14 4	11 54	0 58	14 26	1 30	5 55	0 56	16 53	1 10	10 42	1 20	15 49	1 43	6 51	0 48	9 47	1 53	29 57	14 43	7 4	6 42	13 44			n.a.
T 21	13 45	6 28	0s 7	13 45	1 26	5 24	0 54	17 2	1 9	10 42	1 20	15 46	1 43	6 52	0 48	9 47	1 53	29 58	14 43	7 4	6 43	13 41			n.a.
W22	13 25	0 48	1 12	13 3	1 21	4 52	0 51	17 10	1 8	10 42	1 20	15 44	1 43	6 52	0 48	9 48	1 53	29 58	14 43	7 4	6 44	13 37			n.a.
T 23	13 5	4s56	2 14	12 20	1 16	4 21	0 49	17 19	1 7	10 42	1 20	15 42	1 43	6 53	0 48	9 48	1 53	29 58	14 43	7 3	6 45	13 34			n.a.
F 24	12 45	10 34	3 11	11 38	1 11	3 49	0 47	17 27	1 6	10 42	1 21	15 39	1 43	6 54	0 48	9 49	1 53	29 59	14 43	7 3	6 47	13 31			n.a.
S 25	12 25	15 53	4 0	10 54	1 6	3 18	0 45	17 35	1 5	10 42	1 21	15 37	1 43	6 55	0 48	9 49	1 53	29 59	14 43	7 2	6 48	13 28			n.a.
S 26	12 4	20 40	4 40	10 11	1 0	2 46	0 42	17 43	1 4	10 42	1 21	15 34	1 44	6 56	0 48	9 50	1 53	30 0	14 43	7 2	6 49	13 25			n.a.
M27	11 43	24 38	5 6	9 27	0 54	2 14	0 40	17 51	1 3	10 41	1 21	15 32	1 44	6 57	0 48	9 50	1 53	30 0	14 43	7 2	6 50	13 22			n.a.
T 28	11 22	27 26	5 17	8 43	0 48	1 43	0 38	17 58	1 2	10 41	1 21	15 30	1 44	6 58	0 48	9 51	1 53	30 0	14 43	7 2	6 51	13 19			n.a.
W29	11 1	28 45	5 11	7 59	0 42	1 11	0 35	18 6	1 0	10 41	1 21	15 27	1 44	6 59	0 48	9 51	1 53	30 1	14 43	7 2	6 53	13 16			n.a.
T 30	10 40	28 15	4 46	7 15	0 35	0 39	0 33	18 13	0 59	10 40	1 22	15 25	1 44	7 0	0 48	9 52	1 53	30 1	14 43	7 2	6 54	13 12			n.a.
F 31	10n18	25s51	4s 3	6n31	0n29	0n 7	0n30	18n20	0s58	10n39	1s22	15n22	1n44	7s 1	0s48	9s53	1n53	30s 1	14s43	7s 3	6s55	13n 9			n.a.

Julian Day Number = 1658812.5, Delta T = 03h26m53s
Ecliptic obliquity = 23°43'06, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°26'04, Lahiri = - 6°19'03 Julian Calendar 1 Aug. 172 BCE == Greg. Calendar 29 July 172 BCE

The year -171 astronomical counting style corresponds to year 172 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 172 BCE
geocentric

SEPTEMBER 172 BCE (-171) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 26 25	4♍35'32	7♒11	16♍22	2♎ 5	25♉35	0°R54	23♌56	14°R11	0♏ 7	16°R29	12°R13	12♓31	28♌58	n.a.	S 1
S 2	22 30 22	5°34'39	22°19	17°58	3°19	26° 0	0♉52	24° 3	14♓ 9	0° 8	16♒28	12♓13	12°28	29° 4	n.a.	S 2
M 3	22 34 18	6°33'48	7♓32	19°34	4°33	26°24	0°50	24°10	14° 7	0°10	16°27	12°D13	12°25	29°11	n.a.	M 3
T 4	22 38 15	7°32'59	22°41	21° 8	5°46	26°47	0°48	24°18	14° 4	0°11	16°25	12°13	12°22	29°18	n.a.	T 4
W 5	22 42 11	8°32'12	7♈38	22°42	7° 0	27°11	0°46	24°25	14° 2	0°13	16°24	12°13	12°18	29°24	n.a.	W 5
T 6	22 46 8	9°31'27	22°14	24°15	8°13	27°34	0°43	24°32	13°59	0°14	16°23	12°13	12°15	29°31	n.a.	T 6
F 7	22 50 4	10°30'45	6♉25	25°47	9°27	27°56	0°41	24°40	13°57	0°16	16°22	12°13	12°12	29°38	n.a.	F 7
S 8	22 54 1	11°30'06	20°10	27°19	10°41	28°18	0°38	24°47	13°55	0°17	16°21	12°14	12° 9	29°44	n.a.	S 8
S 9	22 57 58	12°29'29	3♊27	28°49	11°54	28°39	0°35	24°54	13°52	0°19	16°20	12°R14	12° 6	29°51	n.a.	S 9
M10	23 1 54	13°28'54	16°20	0♎19	13° 8	29° 0	0°31	25° 1	13°50	0°21	16°19	12°D14	12° 3	29°58	n.a.	M10
T 11	23 5 51	14°28'22	28°53	1°48	14°21	29°21	0°28	25° 8	13°47	0°22	16°18	12°14	11°59	0♍ 4	n.a.	T 11
W12	23 9 47	15°27'52	11♋ 8	3°17	15°35	29°41	0°24	25°16	13°45	0°24	16°17	12°14	11°56	0°11	n.a.	W12
T 13	23 13 44	16°27'25	23°11	4°44	16°48	0♊ 1	0°20	25°23	13°42	0°26	16°16	12°14	11°53	0°18	n.a.	T 13
F 14	23 17 40	17°27'00	5♌ 5	6°11	18° 2	0°20	0°16	25°30	13°40	0°28	16°15	12°15	11°50	0°24	n.a.	F 14
S 15	23 21 37	18°26'37	16°54	7°37	19°15	0°38	0°12	25°37	13°38	0°29	16°14	12°15	11°47	0°31	n.a.	S 15
S 16	23 25 33	19°26'16	28°41	9° 2	20°29	0°56	0° 7	25°44	13°35	0°31	16°13	12°16	11°43	0°38	n.a.	S 16
M17	23 29 30	20°25'58	10♍29	10°26	21°42	1°14	0° 3	25°51	13°33	0°33	16°12	12°R16	11°40	0°44	n.a.	M17
T 18	23 33 26	21°25'41	22°20	11°50	22°55	1°30	29♈58	25°58	13°30	0°35	16°11	12°16	11°37	0°51	n.a.	T 18
W19	23 37 23	22°25'27	4♎17	13°12	24° 9	1°47	29°53	26° 5	13°28	0°37	16°10	12°15	11°34	0°57	n.a.	W19
T 20	23 41 20	23°25'15	16°21	14°33	25°22	2° 2	29°48	26°12	13°26	0°39	16° 9	12°14	11°31	1° 4	n.a.	T 20
F 21	23 45 16	24°25'05	28°35	15°54	26°35	2°18	29°42	26°19	13°23	0°40	16° 8	12°12	11°28	1°11	n.a.	F 21
S 22	23 49 13	25°24'56	10♏59	17°13	27°49	2°32	29°37	26°25	13°21	0°42	16° 7	12°10	11°24	1°17	n.a.	S 22
S 23	23 53 9	26°24'50	23°37	18°31	29° 2	2°46	29°31	26°32	13°18	0°44	16° 6	12° 9	11°21	1°24	n.a.	S 23
M24	23 57 6	27°24'46	6♐31	19°48	0♏15	2°59	29°25	26°39	13°16	0°46	16° 5	12° 7	11°18	1°31	n.a.	M24
T 25	0 1 2	28°24'43	19°42	21° 3	1°29	3°12	29°19	26°46	13°14	0°48	16° 4	12° 6	11°15	1°37	n.a.	T 25
W26	0 4 59	29°24'42	3♑14	22°17	2°42	3°24	29°13	26°52	13°11	0°50	16° 3	12°D 6	11°12	1°44	n.a.	W26
T 27	0 8 55	0♎24'43	17° 6	23°29	3°55	3°35	29° 7	26°59	13° 9	0°52	16° 2	12° 7	11° 9	1°51	n.a.	T 27
F 28	0 12 52	1°24'45	1♒20	24°39	5° 8	3°46	29° 1	27° 6	13° 7	0°54	16° 2	12° 8	11° 5	1°57	n.a.	F 28
S 29	0 16 49	2°24'50	15°53	25°48	6°21	3°56	28°54	27°12	13° 5	0°56	16° 1	12° 9	11° 2	2° 4	n.a.	S 29
S 30	0 20 45	3♎24'55	0♓42	26♎54	7♏34	4♊ 5	28♈48	27♌19	13♓ 2	0♏58	16♒ 0	12♓10	10♓59	2♍11	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n56	21s38	3s 3	5n47	0n22	0s25	0n28	18n27	0s57	10n39	1s22	15n20	1n44	7s 2	0s48	9s53	1n53	30s 1	14s43	7s 3	6s56	13n 6		n.a.
S 2	9 34	15 57	1 48	5 3	0 15	0 57	0 25	18 34	0 56	10 38	1 22	15 18	1 44	7 3	0 48	9 54	1 53	30 2	14 42	7 3	6 58	13 3		n.a.
M 3	9 12	9 15	0 26	4 19	0 9	1 29	0 22	18 41	0 55	10 37	1 22	15 15	1 44	7 4	0 48	9 54	1 53	30 2	14 42	7 4	6 59	13 0		n.a.
T 4	8 50	2 3	0n58	3 35	0 2	2 1	0 20	18 48	0 54	10 36	1 22	15 13	1 44	7 4	0 48	9 55	1 53	30 2	14 42	7 4	7 0	12 57		n.a.
W 5	8 28	5n 9	2 17	2 51	0s 5	2 33	0 17	18 55	0 52	10 35	1 23	15 10	1 44	7 5	0 48	9 55	1 53	30 3	14 42	7 3	7 1	12 53		n.a.
T 6	8 5	11 55	3 25	2 7	0 12	3 5	0 14	19 1	0 51	10 34	1 23	15 8	1 45	7 6	0 48	9 56	1 52	30 3	14 42	7 3	7 3	12 50		n.a.
F 7	7 43	17 52	4 18	1 24	0 19	3 37	0 11	19 7	0 50	10 33	1 23	15 6	1 45	7 7	0 48	9 57	1 52	30 3	14 42	7 3	7 4	12 47		n.a.
S 8	7 20	22 43	4 55	0 41	0 27	4 9	0 8	19 14	0 48	10 32	1 23	15 3	1 45	7 8	0 48	9 57	1 52	30 3	14 42	7 3	7 5	12 44		n.a.
S 9	6 57	26 13	5 14	0s 2	0 34	4 40	0 6	19 20	0 47	10 31	1 23	15 1	1 45	7 9	0 48	9 58	1 52	30 4	14 42	7 3	7 6	12 41		n.a.
M10	6 34	28 16	5 17	0 45	0 41	5 12	0 3	19 26	0 46	10 29	1 23	14 59	1 45	7 10	0 48	9 58	1 52	30 4	14 42	7 3	7 7	12 38		n.a.
T 11	6 11	28 47	5 5	1 27	0 48	5 44	0s 0	19 31	0 44	10 28	1 23	14 56	1 45	7 11	0 48	9 59	1 52	30 4	14 41	7 3	7 9	12 34		n.a.
W12	5 48	27 52	4 38	2 9	0 55	6 15	0 3	19 37	0 43	10 27	1 23	14 54	1 45	7 12	0 48	10 0	1 52	30 4	14 41	7 3	7 10	12 31		n.a.
T 13	5 24	25 39	4 0	2 51	1 2	6 46	0 6	19 43	0 42	10 25	1 24	14 52	1 45	7 13	0 48	10 0	1 52	30 4	14 41	7 3	7 11	12 28		n.a.
F 14	5 1	22 19	3 12	3 32	1 9	7 17	0 9	19 48	0 40	10 24	1 24	14 49	1 45	7 14	0 48	10 1	1 52	30 5	14 41	7 3	7 12	12 25		n.a.
S 15	4 37	18 7	2 16	4 13	1 16	7 48	0 12	19 53	0 39	10 22	1 24	14 47	1 46	7 15	0 48	10 2	1 52	30 5	14 41	7 2	7 14	12 22		n.a.
S 16	4 14	13 14	1 15	4 53	1 23	8 19	0 15	19 59	0 37	10 20	1 24	14 45	1 46	7 16	0 48	10 2	1 52	30 5	14 41	7 2	7 15	12 18		n.a.
M17	3 50	7 53	0 10	5 33	1 30	8 50	0 18	20 4	0 36	10 18	1 24	14 42	1 46	7 17	0 48	10 3	1 52	30 5	14 41	7 2	7 16	12 15		n.a.
T 18	3 26	2 13	0s56	6 12	1 36	9 20	0 21	20 9	0 34	10 17	1 24	14 40	1 46	7 18	0 48	10 4	1 52	30 5	14 40	7 2	7 17	12 12		n.a.
W19	3 2	3s32	1 59	6 51	1 43	9 51	0 24	20 14	0 33	10 15	1 24	14 38	1 46	7 19	0 48	10 4	1 52	30 6	14 40	7 3	7 18	12 9		n.a.
T 20	2 38	9 14	2 58	7 29	1 49	10 21	0 27	20 18	0 31	10 13	1 24	14 36	1 46	7 20	0 48	10 5	1 52	30 6	14 40	7 3	7 20	12 6		n.a.
F 21	2 15	14 39	3 49	8 6	1 56	10 50	0 30	20 23	0 29	10 11	1 24	14 33	1 46	7 20	0 48	10 6	1 52	30 6	14 40	7 4	7 21	12 2		n.a.
S 22	1 51	19 35	4 31	8 42	2 2	11 20	0 33	20 28	0 28	10 9	1 25	14 31	1 46	7 21	0 48	10 7	1 52	30 6	14 40	7 4	7 22	11 59		n.a.
S 23	1 26	23 44	5 0	9 18	2 8	11 49	0 36	20 32	0 26	10 7	1 25	14 29	1 47	7 22	0 48	10 7	1 52	30 6	14 39	7 5	7 23	11 56		n.a.
M24	1 2	26 49	5 15	9 53	2 13	12 18	0 39	20 36	0 24	10 5	1 25	14 27	1 47	7 23	0 48	10 8	1 52	30 6	14 39	7 6	7 25	11 53		n.a.
T 25	0 38	28 31	5 14	10 27	2 19	12 47	0 42	20 40	0 22	10 3	1 25	14 24	1 47	7 24	0 48	10 9	1 52	30 6	14 39	7 6	7 26	11 50		n.a.
W26	0 14	28 36	4 55	11 0	2 24	13 15	0 45	20 44	0 21	10 0	1 25	14 22	1 47	7 25	0 48	10 9	1 52	30 6	14 39	7 6	7 27	11 46		n.a.
T 27	0s10	26 54	4 19	11 31	2 29	13 44	0 48	20 48	0 19	9 58	1 25	14 20	1 47	7 26	0 48	10 10	1 52	30 6	14 39	7 6	7 28	11 43		n.a.
F 28	0 34	23 27	3 27	12 2	2 33	14 11	0 51	20 52	0 17	9 56	1 25	14 18	1 47	7 27	0 48	10 11	1 52	30 6	14 38	7 5	7 29	11 40		n.a.
S 29	0 58	18 29	2 20	12 31	2 38	14 39	0 54	20 56	0 15	9 53	1 25	14 16	1 47	7 28	0 48	10 12	1 52	30 6	14 38	7 5	7 31	11 37		n.a.
S 30	1s22	12s20	1s 3	12s59	2s41	15s 6	0s57	21n 0	0s13	9n51	1s25	14n14	1n48	7s28	0s48	10s12	1n51	30s 6	14s38	7s 5	7s32	11n33		n.a.

Julian Day Number = 1658843.5, Delta T = 03h26m52s
Ecliptic obliquity = 23°43'06, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'59, Lahiri = - 6°18'59 Julian Calendar 1 Sept. 172 BCE == Greg. Calendar 29 Aug. 172 BCE

The year -171 astronomical counting style corresponds to year 172 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 172 BCE
geocentric

OCTOBER 172 BCE (-171) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 24 42	4♎25'03	15♓41	27♎58	8♏47	4♊14	28°R41	27♌25	13°R 0	1♏ 0	15°R59	12°R10	10♓56	2♍17	n.a.	M 1
T 2	0 28 38	5°25'12	0♈42	28°59	10° 0	4°22	28♈34	27°32	12♓58	1° 2	15♒59	12♓10	10°53	2°24	n.a.	T 2
W 3	0 32 35	6°25'23	15°37	29°57	11°13	4°29	28°27	27°38	12°56	1° 4	15°58	12° 7	10°49	2°31	n.a.	W 3
T 4	0 36 31	7°25'36	0♉17	0♏51	12°26	4°35	28°20	27°44	12°54	1° 7	15°57	12° 4	10°46	2°37	n.a.	T 4
F 5	0 40 28	8°25'52	14°35	1°42	13°39	4°41	28°13	27°50	12°51	1° 9	15°56	12° 0	10°43	2°44	n.a.	F 5
S 6	0 44 24	9°26'09	28°28	2°29	14°52	4°46	28° 5	27°57	12°49	1°11	15°56	11°56	10°40	2°50	n.a.	S 6
S 7	0 48 21	10°26'28	11♊53	3°11	16° 5	4°50	27°58	28° 3	12°47	1°13	15°55	11°53	10°37	2°57	n.a.	S 7
M 8	0 52 18	11°26'50	24°52	3°48	17°18	4°53	27°50	28° 9	12°45	1°15	15°54	11°50	10°34	3° 4	n.a.	M 8
T 9	0 56 14	12°27'14	7♋28	4°18	18°31	4°56	27°43	28°15	12°43	1°17	15°54	11°D49	10°30	3°10	n.a.	T 9
W10	1 0 11	13°27'39	19°44	4°43	19°44	4°57	27°35	28°21	12°41	1°19	15°53	11°49	10°27	3°17	n.a.	W10
T 11	1 4 7	14°28'07	1♌45	5° 0	20°57	4°58	27°27	28°27	12°39	1°22	15°53	11°50	10°24	3°24	n.a.	T 11
F 12	1 8 4	15°28'36	13°37	5°10	22° 9	4°R58	27°19	28°33	12°37	1°24	15°52	11°52	10°21	3°30	n.a.	F 12
S 13	1 12 0	16°29'08	25°24	5°R11	23°22	4°57	27°11	28°39	12°35	1°26	15°52	11°54	10°18	3°37	n.a.	S 13
S 14	1 15 57	17°29'41	7♍11	5° 2	24°35	4°56	27° 4	28°44	12°33	1°28	15°51	11°R55	10°15	3°44	n.a.	S 14
M15	1 19 53	18°30'16	19° 1	4°44	25°47	4°53	26°56	28°50	12°32	1°30	15°51	11°55	10°11	3°50	n.a.	M15
T 16	1 23 50	19°30'53	0♎59	4°16	27° 0	4°50	26°47	28°56	12°30	1°33	15°50	11°53	10° 8	3°57	n.a.	T 16
W17	1 27 46	20°31'32	13° 6	3°38	28°12	4°45	26°39	29° 1	12°28	1°35	15°50	11°49	10° 5	4° 4	n.a.	W17
T 18	1 31 43	21°32'12	25°25	2°49	29°25	4°40	26°31	29° 7	12°26	1°37	15°50	11°43	10° 2	4°10	n.a.	T 18
F 19	1 35 40	22°32'54	7♏55	1°51	0♐37	4°34	26°23	29°12	12°25	1°39	15°49	11°36	9°59	4°17	n.a.	F 19
S 20	1 39 36	23°33'37	20°38	0°44	1°50	4°27	26°15	29°17	12°23	1°41	15°49	11°28	9°55	4°24	n.a.	S 20
S 21	1 43 33	24°34'22	3♐33	29♎30	3° 2	4°19	26° 7	29°23	12°21	1°44	15°48	11°20	9°52	4°30	n.a.	S 21
M22	1 47 29	25°35'08	16°41	28°11	4°15	4°11	25°58	29°28	12°20	1°46	15°48	11°14	9°49	4°37	n.a.	M22
T 23	1 51 26	26°35'56	0♑ 2	26°50	5°27	4° 1	25°50	29°33	12°18	1°48	15°48	11° 9	9°46	4°43	n.a.	T 23
W24	1 55 22	27°36'44	13°36	25°28	6°39	3°51	25°42	29°38	12°17	1°50	15°48	11° 6	9°43	4°50	n.a.	W24
T 25	1 59 19	28°37'34	27°22	24°10	7°51	3°40	25°34	29°43	12°15	1°53	15°47	11°D 5	9°40	4°57	n.a.	T 25
F 26	2 3 16	29°38'24	11♒22	22°57	9° 4	3°28	25°26	29°48	12°14	1°55	15°47	11° 5	9°36	5° 3	n.a.	F 26
S 27	2 7 12	0♏39'16	25°36	21°51	10°16	3°15	25°18	29°53	12°12	1°57	15°47	11° 6	9°33	5°10	n.a.	S 27
S 28	2 11 9	1°40'08	10♓ 1	20°55	11°28	3° 1	25°10	29°57	12°11	2° 0	15°47	11°R 7	9°30	5°17	n.a.	S 28
M29	2 15 5	2°41'02	24°34	20°10	12°40	2°47	25° 2	0♍ 2	12°10	2° 2	15°47	11° 6	9°27	5°23	n.a.	M29
T 30	2 19 2	3°41'56	9♈12	19°36	13°52	2°32	24°53	0° 7	12° 8	2° 4	15°47	11° 3	9°24	5°30	n.a.	T 30
W31	2 22 58	4♏42'52	23♈48	19♎14	15♐ 3	2♊16	24♈46	0♍11	12♓ 7	2♏ 6	15♒47	10♓58	9♓20	5♍37	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	1s47	5s25	0n19	13s26	2s45	15s33	1s 0	21n 3	0s11	9n48	1s25	14n12	1n48	7s29	0s48	10s13	1n51	30s 6	14s38	7s 4	7s33	11n30			n.a.
T 2	2 11	1n49	1 40	13 51	2 48	15 59	1 3	21 7	0 9	9 46	1 25	14 10	1 48	7 30	0 48	10 14	1 51	30 7	14 37	7 5	7 34	11 27			n.a.
W 3	2 35	8 53	2 54	14 14	2 50	16 25	1 6	21 10	0 7	9 43	1 25	14 7	1 48	7 31	0 48	10 15	1 51	30 7	14 37	7 6	7 36	11 24			n.a.
T 4	2 59	15 21	3 55	14 35	2 52	16 51	1 9	21 13	0 5	9 41	1 25	14 5	1 48	7 32	0 48	10 15	1 51	30 7	14 37	7 7	7 37	11 21			n.a.
F 5	3 23	20 50	4 39	14 54	2 53	17 16	1 12	21 16	0 3	9 38	1 25	14 3	1 48	7 33	0 48	10 16	1 51	30 6	14 37	7 8	7 38	11 17			n.a.
S 6	3 47	25 0	5 5	15 11	2 53	17 41	1 15	21 19	0 1	9 36	1 25	14 1	1 49	7 33	0 48	10 17	1 51	30 6	14 36	7 10	7 39	11 14			n.a.
S 7	4 11	27 39	5 14	15 25	2 53	18 5	1 18	21 22	0n 1	9 33	1 25	13 59	1 49	7 34	0 48	10 18	1 51	30 6	14 36	7 11	7 40	11 11			n.a.
M 8	4 35	28 43	5 6	15 37	2 51	18 29	1 20	21 25	0 3	9 30	1 25	13 57	1 49	7 35	0 48	10 18	1 51	30 6	14 36	7 12	7 42	11 8			n.a.
T 9	4 59	28 13	4 43	15 45	2 49	18 52	1 23	21 27	0 5	9 27	1 25	13 55	1 49	7 36	0 48	10 19	1 51	30 6	14 36	7 13	7 43	11 4			n.a.
W10	5 22	26 20	4 8	15 50	2 46	19 15	1 26	21 30	0 8	9 25	1 25	13 54	1 49	7 36	0 48	10 20	1 51	30 6	14 35	7 13	7 44	11 1			n.a.
T 11	5 46	23 17	3 22	15 52	2 41	19 37	1 29	21 32	0 10	9 22	1 25	13 52	1 50	7 37	0 48	10 21	1 51	30 6	14 35	7 12	7 45	10 58			n.a.
F 12	6 10	19 18	2 29	15 49	2 35	19 59	1 31	21 35	0 12	9 19	1 25	13 50	1 50	7 38	0 48	10 22	1 51	30 6	14 35	7 12	7 46	10 55			n.a.
S 13	6 33	14 36	1 29	15 43	2 27	20 21	1 34	21 37	0 15	9 16	1 25	13 48	1 50	7 39	0 48	10 22	1 51	30 6	14 35	7 11	7 48	10 51			n.a.
S 14	6 57	9 23	0 26	15 31	2 18	20 42	1 37	21 39	0 17	9 13	1 25	13 46	1 50	7 39	0 47	10 23	1 51	30 6	14 34	7 10	7 49	10 48			n.a.
M15	7 20	3 48	0s39	15 15	2 8	21 2	1 39	21 41	0 19	9 11	1 25	13 44	1 50	7 40	0 47	10 24	1 51	30 6	14 34	7 10	7 50	10 45			n.a.
T 16	7 43	1s57	1 42	14 54	1 55	21 22	1 42	21 42	0 22	9 8	1 25	13 42	1 51	7 41	0 47	10 25	1 51	30 6	14 34	7 11	7 51	10 42			n.a.
W17	8 6	7 42	2 42	14 27	1 41	21 41	1 44	21 44	0 24	9 5	1 25	13 41	1 51	7 41	0 47	10 26	1 51	30 6	14 33	7 13	7 53	10 38			n.a.
T 18	8 29	13 15	3 34	13 56	1 25	21 59	1 46	21 45	0 27	9 2	1 25	13 39	1 51	7 42	0 47	10 26	1 51	30 5	14 33	7 15	7 54	10 35			n.a.
F 19	8 52	18 22	4 18	13 19	1 8	22 17	1 49	21 47	0 29	8 59	1 25	13 37	1 51	7 43	0 47	10 27	1 51	30 5	14 33	7 18	7 55	10 32			n.a.
S 20	9 15	22 45	4 49	12 38	0 49	22 35	1 51	21 48	0 32	8 56	1 25	13 35	1 51	7 43	0 47	10 28	1 51	30 5	14 33	7 21	7 56	10 28			n.a.
S 21	9 38	26 7	5 6	11 53	0 30	22 51	1 53	21 49	0 34	8 53	1 24	13 34	1 52	7 44	0 47	10 29	1 51	30 5	14 32	7 24	7 57	10 25			n.a.
M22	10 0	28 8	5 7	11 6	0 9	23 8	1 55	21 50	0 37	8 50	1 24	13 32	1 52	7 44	0 47	10 29	1 51	30 5	14 32	7 26	7 59	10 22			n.a.
T 23	10 23	28 35	4 52	10 17	0n12	23 23	1 57	21 51	0 40	8 47	1 24	13 30	1 52	7 45	0 47	10 30	1 51	30 5	14 32	7 28	8 0	10 19			n.a.
W24	10 45	27 20	4 21	9 28	0 32	23 38	1 59	21 51	0 42	8 45	1 24	13 29	1 52	7 46	0 47	10 31	1 51	30 4	14 31	7 29	8 1	10 15			n.a.
T 25	11 7	24 25	3 34	8 41	0 52	23 52	2 1	21 52	0 45	8 42	1 24	13 27	1 52	7 46	0 47	10 32	1 51	30 4	14 31	7 30	8 2	10 12			n.a.
F 26	11 28	20 1	2 33	7 56	1 10	24 6	2 3	21 52	0 48	8 39	1 24	13 26	1 53	7 47	0 47	10 33	1 51	30 4	14 31	7 30	8 3	10 9			n.a.
S 27	11 50	14 26	1 23	7 16	1 27	24 18	2 5	21 52	0 50	8 36	1 24	13 24	1 53	7 47	0 47	10 33	1 51	30 4	14 30	7 29	8 5	10 6			n.a.
S 28	12 11	8 0	0 6	6 41	1 43	24 31	2 7	21 52	0 53	8 33	1 24	13 23	1 53	7 48	0 47	10 34	1 51	30 3	14 30	7 29	8 6	10 2			n.a.
M29	12 33	1 5	1n12	6 11	1 56	24 42	2 8	21 52	0 56	8 30	1 24	13 21	1 53	7 48	0 47	10 35	1 51	30 3	14 30	7 29	8 7	9 59			n.a.
T 30	12 54	5n54	2 25	5 48	2 7	24 53	2 10	21 52	0 58	8 27	1 23	13 20	1 54	7 49	0 47	10 36	1 51	30 3	14 30	7 30	8 8	9 56			n.a.
W31	13s15	12n34	3n28	5s31	2n16	25s 3	2s11	21n51	1n 1	8n25	1s23	13n18	1n54	7s49	0s47	10s37	1n51	30s 3	14s29	7s32	8s10	9n52			n.a.

Julian Day Number = 1658873.5, Delta T = 03h26m51s
Ecliptic obliquity = 23°43'07, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'55, Lahiri = - 6°18'55 Julian Calendar 1 Oct. 172 BCE == Greg. Calendar 28 Sept. 172 BCE

The year -171 astronomical counting style corresponds to year 172 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 172 BCE
geocentric

NOVEMBER 172 BCE (-171) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 26 55	5♏43'48	8♉15	19°D 3	16♐15	1°R59	24°R38	0♍16	12°R 6	2♏ 9	15°R46	10°R50	9♓17	5♍43	n.a.	T 1
F 2	2 30 51	6°44'46	22°27	19♎ 3	17°27	1♊42	24♈30	0°20	12♓ 5	2°11	15♒46	10♓40	9°14	5°50	n.a.	F 2
S 3	2 34 48	7°45'45	6♊18	19°13	18°38	1°23	24°22	0°24	12° 4	2°13	15°D46	10°30	9°11	5°57	n.a.	S 3
S 4	2 38 45	8°46'45	19°45	19°33	19°50	1° 5	24°14	0°28	12° 3	2°15	15°46	10°21	9° 8	6° 3	n.a.	S 4
M 5	2 42 41	9°47'47	2♋47	20° 2	21° 1	0°45	24° 7	0°33	12° 2	2°18	15°47	10°13	9° 5	6°10	n.a.	M 5
T 6	2 46 38	10°48'50	15°26	20°38	22°13	0°25	23°59	0°37	12° 1	2°20	15°47	10° 8	9° 1	6°16	n.a.	T 6
W 7	2 50 34	11°49'54	27°45	21°21	23°24	0° 5	23°52	0°41	12° 0	2°22	15°47	10° 4	8°58	6°23	n.a.	W 7
T 8	2 54 31	12°50'59	9♌48	22°10	24°35	29♉44	23°44	0°44	11°59	2°24	15°47	10°D 3	8°55	6°30	n.a.	T 8
F 9	2 58 27	13°52'05	21°40	23° 5	25°47	29°22	23°37	0°48	11°58	2°27	15°47	10° 3	8°52	6°36	n.a.	F 9
S 10	3 2 24	14°53'12	3♍28	24° 4	26°58	29° 0	23°30	0°52	11°58	2°29	15°47	10° 4	8°49	6°43	n.a.	S 10
S 11	3 6 20	15°54'20	15°15	25° 7	28° 9	28°38	23°23	0°55	11°57	2°31	15°47	10°R 4	8°46	6°50	n.a.	S 11
M12	3 10 17	16°55'29	27° 9	26°14	29°20	28°15	23°16	0°59	11°56	2°33	15°48	10° 2	8°42	6°56	n.a.	M12
T 13	3 14 14	17°56'40	9♎12	27°24	0♏31	27°52	23° 9	1° 2	11°56	2°35	15°48	9°58	8°39	7° 3	n.a.	T 13
W14	3 18 10	18°57'51	21°28	28°37	1°41	27°29	23° 3	1° 5	11°55	2°38	15°48	9°51	8°36	7°10	n.a.	W14
T 15	3 22 7	19°59'02	4♏ 1	29°52	2°52	27° 5	22°56	1° 9	11°55	2°40	15°48	9°42	8°33	7°16	n.a.	T 15
F 16	3 26 3	21° 0'15	16°50	1♏ 9	4° 2	26°42	22°50	1°12	11°54	2°42	15°49	9°30	8°30	7°23	n.a.	F 16
S 17	3 30 0	22° 1'28	29°55	2°28	5°13	26°18	22°43	1°15	11°54	2°44	15°49	9°17	8°26	7°30	n.a.	S 17
S 18	3 33 56	23° 2'42	13♐14	3°49	6°23	25°54	22°37	1°18	11°53	2°46	15°49	9° 5	8°23	7°36	n.a.	S 18
M19	3 37 53	24° 3'56	26°46	5°11	7°33	25°30	22°31	1°20	11°53	2°48	15°50	8°53	8°20	7°43	n.a.	M19
T 20	3 41 49	25° 5'11	10♑28	6°34	8°44	25° 6	22°26	1°23	11°53	2°51	15°50	8°44	8°17	7°50	n.a.	T 20
W21	3 45 46	26° 6'26	24°17	7°58	9°54	24°42	22°20	1°26	11°53	2°53	15°51	8°38	8°14	7°56	n.a.	W21
T 22	3 49 43	27° 7'40	8♒12	9°23	11° 3	24°19	22°15	1°28	11°53	2°55	15°51	8°34	8°11	8° 3	n.a.	T 22
F 23	3 53 39	28° 8'55	22°12	10°48	12°13	23°55	22° 9	1°31	11°52	2°57	15°52	8°33	8° 7	8° 9	n.a.	F 23
S 24	3 57 36	29°10'10	6♓16	12°15	13°23	23°32	22° 4	1°33	11°D52	2°59	15°52	8°33	8° 4	8°16	n.a.	S 24
S 25	4 1 32	0♐11'24	20°23	13°42	14°32	23°10	21°59	1°35	11°52	3° 1	15°53	8°33	8° 1	8°23	n.a.	S 25
M26	4 5 29	1°12'39	4♈33	15°10	15°42	22°47	21°54	1°37	11°52	3° 3	15°53	8°31	7°58	8°29	n.a.	M26
T 27	4 9 25	2°13'53	18°43	16°38	16°51	22°25	21°50	1°39	11°53	3° 5	15°54	8°26	7°55	8°36	n.a.	T 27
W28	4 13 22	3°15'08	2♉51	18° 7	18° 0	22° 3	21°45	1°41	11°53	3° 7	15°54	8°19	7°52	8°43	n.a.	W28
T 29	4 17 18	4°16'22	16°53	19°36	19° 9	21°42	21°41	1°43	11°53	3° 9	15°55	8° 8	7°48	8°49	n.a.	T 29
F 30	4 21 15	5♐17'37	0♊44	21♏ 6	20♑17	21♉21	21♈37	1♍44	11♓53	3♏11	15♒56	7♓56	7♓45	8♍56	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s35	18n29	4n18	5s20	2n23	25s12	2s13	21n51	1n 4	8n22	1s23	13n17	1n54	7s49	0s47	10s37	1n51	30s 2	14s29	7s35	8s11	9n49		n.a.
F 2	13 55	23 16	4 50	5 15	2 29	25 21	2 14	21 50	1 7	8 19	1 23	13 16	1 54	7 50	0 47	10 38	1 51	30 2	14 29	7 39	8 12	9 46		n.a.
S 3	14 16	26 36	5 4	5 16	2 32	25 28	2 15	21 49	1 9	8 16	1 23	13 14	1 54	7 50	0 47	10 39	1 51	30 2	14 28	7 43	8 13	9 42		n.a.
S 4	14 35	28 19	5 1	5 21	2 35	25 36	2 17	21 47	1 12	8 14	1 22	13 13	1 55	7 51	0 47	10 40	1 51	30 1	14 28	7 46	8 14	9 39		n.a.
M 5	14 55	28 23	4 42	5 31	2 35	25 42	2 18	21 46	1 15	8 11	1 22	13 12	1 55	7 51	0 47	10 40	1 51	30 1	14 28	7 49	8 16	9 36		n.a.
T 6	15 15	26 57	4 10	5 46	2 35	25 48	2 19	21 44	1 18	8 8	1 22	13 11	1 55	7 51	0 47	10 41	1 51	30 1	14 27	7 52	8 17	9 33		n.a.
W 7	15 34	24 13	3 26	6 3	2 33	25 52	2 20	21 43	1 20	8 6	1 22	13 9	1 55	7 52	0 47	10 42	1 51	30 1	14 27	7 53	8 18	9 29		n.a.
T 8	15 53	20 29	2 34	6 24	2 31	25 57	2 20	21 41	1 23	8 3	1 22	13 8	1 56	7 52	0 47	10 43	1 51	30 0	14 27	7 53	8 19	9 26		n.a.
F 9	16 11	15 58	1 37	6 47	2 28	26 0	2 21	21 39	1 26	8 1	1 21	13 7	1 56	7 52	0 47	10 44	1 51	30 0	14 26	7 53	8 20	9 23		n.a.
S 10	16 29	10 54	0 35	7 13	2 24	26 3	2 22	21 36	1 28	7 58	1 21	13 6	1 56	7 52	0 47	10 44	1 51	29 59	14 26	7 53	8 22	9 19		n.a.
S 11	16 47	5 27	0s28	7 41	2 19	26 4	2 22	21 34	1 31	7 56	1 21	13 5	1 56	7 53	0 47	10 45	1 51	29 59	14 26	7 53	8 23	9 16		n.a.
M12	17 5	0s13	1 30	8 10	2 14	26 6	2 23	21 31	1 33	7 54	1 21	13 4	1 57	7 53	0 46	10 46	1 51	29 59	14 25	7 54	8 24	9 13		n.a.
T 13	17 23	5 57	2 29	8 40	2 8	26 6	2 23	21 28	1 36	7 51	1 21	13 3	1 57	7 53	0 46	10 47	1 51	29 58	14 25	7 55	8 25	9 9		n.a.
W14	17 40	11 34	3 21	9 12	2 3	26 5	2 23	21 25	1 38	7 49	1 20	13 2	1 57	7 53	0 46	10 47	1 51	29 58	14 25	7 58	8 26	9 6		n.a.
T 15	17 57	16 51	4 6	9 45	1 56	26 4	2 23	21 22	1 41	7 47	1 20	13 1	1 57	7 53	0 46	10 48	1 51	29 58	14 25	8 1	8 28	9 3		n.a.
F 16	18 13	21 30	4 38	10 18	1 50	26 2	2 23	21 19	1 43	7 45	1 20	13 0	1 58	7 53	0 46	10 49	1 51	29 57	14 24	8 6	8 29	9 0		n.a.
S 17	18 29	25 12	4 57	10 52	1 43	26 0	2 23	21 16	1 46	7 43	1 20	12 59	1 58	7 54	0 46	10 49	1 51	29 57	14 24	8 11	8 30	8 56		n.a.
S 18	18 45	27 37	5 0	11 26	1 36	25 56	2 23	21 12	1 48	7 40	1 19	12 59	1 58	7 54	0 46	10 50	1 51	29 56	14 24	8 16	8 31	8 53		n.a.
M19	19 0	28 27	4 47	12 0	1 29	25 52	2 22	21 9	1 50	7 39	1 19	12 58	1 58	7 54	0 46	10 51	1 51	29 56	14 23	8 20	8 32	8 50		n.a.
T 20	19 16	27 34	4 17	12 35	1 22	25 47	2 22	21 5	1 52	7 37	1 19	12 57	1 59	7 54	0 46	10 52	1 51	29 56	14 23	8 23	8 34	8 46		n.a.
W21	19 30	24 58	3 31	13 9	1 15	25 42	2 21	21 1	1 55	7 35	1 19	12 56	1 59	7 54	0 46	10 52	1 51	29 55	14 23	8 26	8 35	8 43		n.a.
T 22	19 45	20 53	2 33	13 43	1 7	25 35	2 21	20 57	1 57	7 33	1 18	12 56	1 59	7 54	0 46	10 53	1 51	29 55	14 22	8 27	8 36	8 40		n.a.
F 23	19 59	15 37	1 25	14 18	1 0	25 28	2 20	20 53	1 59	7 31	1 18	12 55	2 0	7 54	0 46	10 54	1 51	29 54	14 22	8 28	8 37	8 36		n.a.
S 24	20 12	9 30	0 12	14 52	0 53	25 20	2 19	20 49	2 1	7 30	1 18	12 55	2 0	7 54	0 46	10 54	1 51	29 54	14 22	8 28	8 38	8 33		n.a.
S 25	20 26	2 54	1n 2	15 25	0 45	25 12	2 18	20 45	2 3	7 28	1 17	12 54	2 0	7 54	0 46	10 55	1 51	29 53	14 21	8 28	8 40	8 30		n.a.
M26	20 38	3n51	2 13	15 58	0 38	25 3	2 17	20 41	2 4	7 26	1 17	12 54	2 0	7 54	0 46	10 56	1 51	29 53	14 21	8 28	8 41	8 26		n.a.
T 27	20 51	10 25	3 15	16 31	0 30	24 53	2 15	20 37	2 6	7 25	1 17	12 53	2 1	7 54	0 46	10 56	1 51	29 52	14 21	8 30	8 42	8 23		n.a.
W28	21 3	16 26	4 5	17 3	0 23	24 42	2 14	20 33	2 8	7 24	1 17	12 53	2 1	7 54	0 46	10 57	1 51	29 52	14 21	8 33	8 43	8 20		n.a.
T 29	21 15	21 32	4 40	17 35	0 16	24 31	2 12	20 29	2 10	7 22	1 16	12 52	2 1	7 53	0 46	10 58	1 51	29 51	14 20	8 37	8 44	8 16		n.a.
F 30	21s26	25n23	4n58	18s 6	0n 9	24s19	2s11	20n25	2n11	7n21	1s16	12n52	2n 1	7s53	0s46	10s58	1n51	29s51	14s20	8s42	8s46	8n13		n.a.

Julian Day Number = 1658904.5, Delta T = 03h26m50s
Ecliptic obliquity = 23°43'06, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'51, Lahiri = - 6°18'51 Julian Calendar 1 Nov. 172 BCE == Greg. Calendar 29 Oct. 172 BCE

The year -171 astronomical counting style corresponds to year 172 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 172 BCE
geocentric

DECEMBER 172 BCE (-171) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 25 12	6♐18'51	14♊20	22♏36	21♑26	21°R 1	21°R33	1♍46	11♓54	3♏13	15♒56	7°R42	7♓42	9♍ 3	n.a.	S 1
S 2	4 29 8	7°20'05	27°37	24° 7	22°34	20♉41	21♈30	1°47	11°54	3°15	15°57	7♓29	7°39	9° 9	n.a.	S 2
M 3	4 33 5	8°21'20	10♋34	25°38	23°42	20°22	21°26	1°49	11°54	3°17	15°58	7°18	7°36	9°16	n.a.	M 3
T 4	4 37 1	9°22'34	23°11	27° 9	24°50	20° 4	21°23	1°50	11°55	3°19	15°59	7° 9	7°32	9°23	n.a.	T 4
W 5	4 40 58	10°23'49	5♌29	28°41	25°58	19°46	21°20	1°51	11°55	3°21	15°59	7° 3	7°29	9°29	n.a.	W 5
T 6	4 44 54	11°25'04	17°33	0♐13	27° 6	19°29	21°17	1°52	11°56	3°23	16° 0	7° 0	7°26	9°36	n.a.	T 6
F 7	4 48 51	12°26'18	29°26	1°46	28°13	19°13	21°14	1°53	11°57	3°25	16° 1	6°59	7°23	9°43	n.a.	F 7
S 8	4 52 48	13°27'33	11♍14	3°18	29°20	18°57	21°12	1°54	11°57	3°26	16° 2	6°59	7°20	9°49	n.a.	S 8
S 9	4 56 44	14°28'47	23° 2	4°52	0♒27	18°42	21°10	1°55	11°58	3°28	16° 3	6°58	7°17	9°56	n.a.	S 9
M10	5 0 41	15°30'01	4♎56	6°25	1°34	18°28	21° 7	1°55	11°59	3°30	16° 4	6°57	7°13	10° 2	n.a.	M10
T 11	5 4 37	16°31'16	17° 2	7°59	2°41	18°14	21° 6	1°56	12° 0	3°32	16° 4	6°53	7°10	10° 9	n.a.	T 11
W12	5 8 34	17°32'30	29°23	9°34	3°47	18° 2	21° 4	1°56	12° 1	3°34	16° 5	6°47	7° 7	10°16	n.a.	W12
T 13	5 12 30	18°33'43	12♏ 3	11° 9	4°53	17°50	21° 2	1°56	12° 2	3°35	16° 6	6°38	7° 4	10°22	n.a.	T 13
F 14	5 16 27	19°34'57	25° 5	12°44	5°59	17°39	21° 1	1°57	12° 3	3°37	16° 7	6°27	7° 1	10°29	n.a.	F 14
S 15	5 20 23	20°36'10	8♐28	14°20	7° 4	17°28	21° 0	1°R57	12° 4	3°39	16° 8	6°14	6°58	10°36	n.a.	S 15
S 16	5 24 20	21°37'23	22°11	15°57	8°10	17°19	20°59	1°57	12° 5	3°40	16° 9	6° 1	6°54	10°42	n.a.	S 16
M17	5 28 17	22°38'35	6♑ 9	17°34	9°15	17°10	20°59	1°56	12° 6	3°42	16°10	5°50	6°51	10°49	n.a.	M17
T 18	5 32 13	23°39'47	20°18	19°11	10°19	17° 3	20°58	1°56	12° 7	3°44	16°11	5°41	6°48	10°56	n.a.	T 18
W19	5 36 10	24°40'57	4♒34	20°49	11°24	16°56	20°58	1°56	12° 8	3°45	16°12	5°34	6°45	11° 2	n.a.	W19
T 20	5 40 6	25°42'07	18°50	22°27	12°28	16°49	20°D58	1°55	12°10	3°47	16°14	5°31	6°42	11° 9	n.a.	T 20
F 21	5 44 3	26°43'15	3♓ 5	24° 6	13°32	16°44	20°58	1°55	12°11	3°48	16°15	5°D30	6°38	11°16	n.a.	F 21
S 22	5 47 59	27°44'23	17°15	25°46	14°35	16°39	20°59	1°54	12°12	3°50	16°16	5°30	6°35	11°22	n.a.	S 22
S 23	5 51 56	28°45'29	1♈19	27°26	15°38	16°36	20°59	1°53	12°14	3°51	16°17	5°R30	6°32	11°29	n.a.	S 23
M24	5 55 53	29°46'34	15°17	29° 7	16°41	16°33	21° 0	1°52	12°15	3°53	16°18	5°29	6°29	11°35	n.a.	M24
T 25	5 59 49	0♑47'37	29° 8	0♑48	17°43	16°31	21° 1	1°51	12°17	3°54	16°19	5°26	6°26	11°42	n.a.	T 25
W26	6 3 46	1°48'40	12♉52	2°30	18°45	16°29	21° 2	1°50	12°18	3°56	16°20	5°20	6°23	11°49	n.a.	W26
T 27	6 7 42	2°49'41	26°26	4°13	19°47	16°D29	21° 4	1°49	12°20	3°57	16°22	5°12	6°19	11°55	n.a.	T 27
F 28	6 11 39	3°50'42	9♊50	5°56	20°48	16°29	21° 5	1°47	12°22	3°59	16°23	5° 1	6°16	12° 2	n.a.	F 28
S 29	6 15 35	4°51'41	23° 2	7°40	21°49	16°30	21° 7	1°46	12°23	4° 0	16°24	4°50	6°13	12° 9	n.a.	S 29
S 30	6 19 32	5°52'39	6♋ 0	9°24	22°49	16°32	21° 9	1°44	12°25	4° 1	16°25	4°39	6°10	12°15	n.a.	S 30
M31	6 23 28	6♑53'35	18♋42	11♑ 9	23♒49	16♉34	21♈12	1♍43	12♓27	4♏ 2	16♒27	4♓30	6♓ 7	12♍22	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s37	27n43	4n58	18s37	0n 2	24s 7	2s 9	20n21	2n13	7n20	1s16	12n52	2n 2	7s53	0s46	10s59	1n51	29s50	14s20	8s47	8s47	8n10		n.a.
S 2	21 47	28 24	4 42	19 6	0s 5	23 54	2 7	20 17	2 14	7 19	1 15	12 51	2 2	7 53	0 46	11 0	1 52	29 50	14 19	8 52	8 48	8 6		n.a.
M 3	21 57	27 28	4 12	19 36	0 12	23 40	2 5	20 13	2 15	7 18	1 15	12 51	2 2	7 53	0 46	11 0	1 52	29 49	14 19	8 56	8 49	8 3		n.a.
T 4	22 7	25 8	3 30	20 4	0 19	23 25	2 3	20 9	2 17	7 17	1 15	12 51	2 3	7 52	0 46	11 1	1 52	29 49	14 19	8 59	8 50	8 0		n.a.
W 5	22 16	21 40	2 38	20 31	0 26	23 10	2 1	20 6	2 18	7 16	1 14	12 51	2 3	7 52	0 46	11 2	1 52	29 48	14 19	9 1	8 52	7 56		n.a.
T 6	22 25	17 21	1 41	20 58	0 32	22 55	1 58	20 2	2 19	7 15	1 14	12 51	2 3	7 52	0 46	11 2	1 52	29 48	14 18	9 3	8 53	7 53		n.a.
F 7	22 33	12 25	0 40	21 23	0 39	22 39	1 56	19 58	2 20	7 14	1 14	12 51	2 3	7 52	0 45	11 3	1 52	29 47	14 18	9 3	8 54	7 50		n.a.
S 8	22 41	7 5	0s23	21 48	0 45	22 22	1 53	19 55	2 21	7 14	1 14	12 50	2 4	7 51	0 45	11 3	1 52	29 47	14 18	9 3	8 55	7 46		n.a.
S 9	22 48	1 31	1 24	22 12	0 51	22 5	1 50	19 52	2 22	7 13	1 13	12 51	2 4	7 51	0 45	11 4	1 52	29 46	14 17	9 3	8 56	7 43		n.a.
M10	22 55	4s 9	2 22	22 34	0 57	21 47	1 47	19 49	2 23	7 13	1 13	12 51	2 4	7 51	0 45	11 5	1 52	29 46	14 17	9 4	8 58	7 39		n.a.
T 11	23 2	9 46	3 15	22 56	1 3	21 29	1 44	19 46	2 24	7 12	1 13	12 51	2 4	7 50	0 45	11 5	1 52	29 45	14 17	9 5	8 59	7 36		n.a.
W12	23 8	15 7	4 0	23 16	1 8	21 10	1 41	19 43	2 25	7 12	1 12	12 51	2 5	7 50	0 45	11 6	1 52	29 45	14 17	9 7	9 0	7 33		n.a.
T 13	23 13	19 58	4 34	23 35	1 14	20 50	1 37	19 40	2 25	7 12	1 12	12 51	2 5	7 50	0 45	11 6	1 52	29 44	14 16	9 11	9 1	7 29		n.a.
F 14	23 18	24 2	4 55	23 53	1 19	20 31	1 34	19 37	2 26	7 11	1 12	12 51	2 5	7 49	0 45	11 7	1 52	29 44	14 16	9 15	9 2	7 26		n.a.
S 15	23 23	26 55	5 1	24 10	1 24	20 10	1 30	19 35	2 27	7 11	1 11	12 51	2 6	7 49	0 45	11 7	1 52	29 43	14 16	9 20	9 3	7 23		n.a.
S 16	23 27	28 18	4 49	24 26	1 28	19 50	1 26	19 33	2 27	7 11	1 11	12 52	2 6	7 48	0 45	11 8	1 52	29 42	14 16	9 24	9 5	7 19		n.a.
M17	23 31	27 55	4 21	24 40	1 33	19 28	1 22	19 31	2 28	7 11	1 11	12 52	2 6	7 48	0 45	11 8	1 52	29 42	14 15	9 29	9 6	7 16		n.a.
T 18	23 34	25 43	3 35	24 53	1 37	19 7	1 18	19 29	2 28	7 11	1 10	12 52	2 6	7 47	0 45	11 9	1 52	29 41	14 15	9 32	9 7	7 13		n.a.
W19	23 37	21 52	2 36	25 4	1 41	18 45	1 14	19 27	2 28	7 12	1 10	12 53	2 7	7 47	0 45	11 9	1 52	29 41	14 15	9 35	9 8	7 9		n.a.
T 20	23 39	16 44	1 27	25 14	1 45	18 23	1 10	19 26	2 29	7 12	1 10	12 53	2 7	7 46	0 45	11 10	1 52	29 40	14 15	9 36	9 9	7 6		n.a.
F 21	23 41	10 42	0 13	25 23	1 48	18 0	1 5	19 25	2 29	7 12	1 9	12 54	2 7	7 46	0 45	11 10	1 52	29 40	14 14	9 36	9 11	7 3		n.a.
S 22	23 42	4 9	1n 2	25 30	1 51	17 37	1 1	19 24	2 29	7 13	1 9	12 54	2 7	7 45	0 45	11 11	1 52	29 39	14 14	9 36	9 12	6 59		n.a.
S 23	23 43	2n33	2 13	25 35	1 54	17 13	0 56	19 23	2 30	7 13	1 9	12 55	2 8	7 44	0 45	11 11	1 52	29 38	14 14	9 36	9 13	6 56		n.a.
M24	23 43	9 5	3 15	25 39	1 56	16 50	0 51	19 22	2 30	7 14	1 8	12 55	2 8	7 44	0 45	11 12	1 52	29 38	14 14	9 36	9 14	6 52		n.a.
T 25	23 43	15 6	4 5	25 41	1 58	16 26	0 46	19 22	2 30	7 15	1 8	12 56	2 8	7 43	0 45	11 12	1 52	29 37	14 14	9 38	9 15	6 49		n.a.
W26	23 42	20 20	4 41	25 41	2 0	16 1	0 41	19 21	2 30	7 15	1 8	12 57	2 9	7 43	0 45	11 13	1 53	29 37	14 13	9 40	9 17	6 46		n.a.
T 27	23 41	24 26	5 0	25 40	2 1	15 37	0 35	19 21	2 30	7 16	1 8	12 57	2 9	7 42	0 45	11 13	1 53	29 36	14 13	9 43	9 18	6 42		n.a.
F 28	23 40	27 10	5 3	25 37	2 2	15 12	0 30	19 21	2 30	7 17	1 7	12 58	2 9	7 41	0 45	11 14	1 53	29 36	14 13	9 47	9 19	6 39		n.a.
S 29	23 38	28 20	4 49	25 32	2 2	14 47	0 24	19 22	2 30	7 18	1 7	12 59	2 9	7 41	0 45	11 14	1 53	29 35	14 13	9 51	9 20	6 36		n.a.
S 30	23 35	27 55	4 20	25 25	2 2	14 21	0 18	19 22	2 30	7 19	1 7	13 0	2 10	7 40	0 45	11 14	1 53	29 34	14 13	9 55	9 21	6 32		n.a.
M31	23s32	26n 0	3n39	25s16	2s 2	13s56	0s13	19n23	2n30	7n20	1s 6	13n 0	2n10	7s39	0s45	11s15	1n53	29s34	14s12	9s58	9s22	6n29		n.a.

Julian Day Number = 1658934.5, Delta T = 03h26m49s
Ecliptic obliquity = 23°43'05, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'47, Lahiri = - 6°18'47 Julian Calendar 1 Dec. 172 BCE == Greg. Calendar 28 Nov. 172 BCE

The year -171 astronomical counting style corresponds to year 172 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 171 BCE
geocentric

JANUARY 171 BCE (-170) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 27 25	7♉54'31	1♌ 9	12♉54	24♒49	16♉37	21♈14	1°R41	12♓29	4♏ 4	16♒28	4°R22	6♓ 4	12♍29	n.a.	T 1
W 2	6 31 22	8°55'26	13°22	14°40	25°48	16°41	21°17	1♍39	12°31	4° 5	16°29	4♓17	6° 0	12°35	n.a.	W 2
T 3	6 35 18	9°56'19	25°23	16°27	26°46	16°46	21°19	1°37	12°33	4° 6	16°31	4°15	5°57	12°42	n.a.	T 3
F 4	6 39 15	10°57'11	7♍16	18°14	27°44	16°51	21°22	1°35	12°35	4° 7	16°32	4°D14	5°54	12°49	n.a.	F 4
S 5	6 43 11	11°58'03	19° 3	20° 1	28°41	16°57	21°26	1°33	12°37	4° 8	16°33	4°15	5°51	12°55	n.a.	S 5
S 6	6 47 8	12°58'53	0♎51	21°48	29°38	17° 3	21°29	1°31	12°39	4°10	16°35	4°17	5°48	13° 2	n.a.	S 6
M 7	6 51 4	13°59'42	12°45	23°35	0♓34	17°11	21°33	1°29	12°41	4°11	16°36	4°R17	5°44	13° 9	n.a.	M 7
T 8	6 55 1	15° 0'30	24°49	25°22	1°30	17°18	21°36	1°26	12°43	4°12	16°37	4°17	5°41	13°15	n.a.	T 8
W 9	6 58 57	16° 1'16	7♏10	27° 9	2°25	17°27	21°40	1°24	12°45	4°13	16°39	4°14	5°38	13°22	n.a.	W 9
T 10	7 2 54	17° 2'02	19°51	28°56	3°19	17°36	21°45	1°21	12°47	4°14	16°40	4°10	5°35	13°28	n.a.	T 10
F 11	7 6 51	18° 2'47	2♐56	0♒41	4°13	17°46	21°49	1°18	12°50	4°15	16°42	4° 3	5°32	13°35	n.a.	F 11
S 12	7 10 47	19° 3'30	16°26	2°26	5° 6	17°56	21°53	1°16	12°52	4°15	16°43	3°56	5°29	13°42	n.a.	S 12
S 13	7 14 44	20° 4'12	0♉21	4° 9	5°59	18° 7	21°58	1°13	12°54	4°16	16°44	3°48	5°25	13°48	n.a.	S 13
M14	7 18 40	21° 4'53	14°37	5°51	6°50	18°18	22° 3	1°10	12°57	4°17	16°46	3°41	5°22	13°55	n.a.	M14
T 15	7 22 37	22° 5'32	29°10	7°30	7°41	18°30	22° 8	1° 7	12°59	4°18	16°47	3°36	5°19	14° 2	n.a.	T 15
W16	7 26 33	23° 6'09	13♒52	9° 6	8°31	18°43	22°13	1° 4	13° 1	4°19	16°49	3°32	5°16	14° 8	n.a.	W16
T 17	7 30 30	24° 6'44	28°35	10°39	9°20	18°56	22°19	1° 0	13° 4	4°20	16°50	3°D31	5°13	14°15	n.a.	T 17
F 18	7 34 27	25° 7'18	13♓15	12° 9	10° 9	19° 9	22°24	0°57	13° 6	4°20	16°52	3°31	5°10	14°22	n.a.	F 18
S 19	7 38 23	26° 7'49	27°44	13°34	10°56	19°23	22°30	0°54	13° 9	4°21	16°53	3°32	5° 6	14°28	n.a.	S 19
S 20	7 42 20	27° 8'19	12♈ 1	14°53	11°43	19°38	22°36	0°50	13°12	4°22	16°55	3°34	5° 3	14°35	n.a.	S 20
M21	7 46 16	28° 8'46	26° 2	16° 7	12°28	19°53	22°42	0°47	13°14	4°22	16°56	3°R34	5° 0	14°42	n.a.	M21
T 22	7 50 13	29° 9'12	9♉48	17°14	13°13	20° 9	22°48	0°43	13°17	4°23	16°58	3°34	4°57	14°48	n.a.	T 22
W23	7 54 9	0♒ 9'35	23°18	18°15	13°56	20°25	22°55	0°39	13°20	4°23	16°59	3°32	4°54	14°55	n.a.	W23
T 24	7 58 6	1° 9'57	6♊34	19° 7	14°39	20°41	23° 1	0°36	13°22	4°24	17° 1	3°28	4°50	15° 2	n.a.	T 24
F 25	8 2 2	2°10'16	19°36	19°51	15°20	20°58	23° 8	0°32	13°25	4°24	17° 2	3°23	4°47	15° 8	n.a.	F 25
S 26	8 5 59	3°10'34	2♋24	20°26	16° 0	21°15	23°15	0°28	13°28	4°25	17° 4	3°18	4°44	15°15	n.a.	S 26
S 27	8 9 56	4°10'49	15° 0	20°52	16°39	21°33	23°22	0°24	13°31	4°25	17° 5	3°13	4°41	15°22	n.a.	S 27
M28	8 13 52	5°11'02	27°24	21° 9	17°16	21°51	23°29	0°20	13°33	4°26	17° 7	3° 9	4°38	15°28	n.a.	M28
T 29	8 17 49	6°11'14	9♌37	21°R16	17°52	22°10	23°36	0°16	13°36	4°26	17° 9	3° 5	4°35	15°35	n.a.	T 29
W30	8 21 45	7°11'23	21°41	21°13	18°27	22°29	23°44	0°12	13°39	4°26	17°10	3° 3	4°31	15°41	n.a.	W30
T 31	8 25 42	8♒11'31	3♍36	21♒ 0	19♓ 1	22♉48	23♈52	0♍ 8	13♓42	4♏27	17♒12	3°D 3	4♓28	15♍48	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	23s29	22n52	2n48	25s 5	2s 1	13s30	0s 6	19n24	2n30	7n22	1s 6	13n 1	2n10	7s38	0s44	11s15	1n53	29s33	14s12	10s 1	9s24	6n25			n.a.
W 2	23 25	18 45	1 50	24 52	1 59	13 4	0 0	19 25	2 30	7 23	1 6	13 2	2 10	7 38	0 44	11 15	1 53	29 33	14 12	10 3	9 25	6 22			n.a.
T 3	23 20	13 57	0 47	24 38	1 57	12 38	0n 6	19 26	2 30	7 24	1 5	13 3	2 11	7 37	0 44	11 16	1 53	29 32	14 12	10 4	9 26	6 19			n.a.
F 4	23 16	8 42	0s16	24 21	1 55	12 12	0 13	19 27	2 30	7 26	1 5	13 4	2 11	7 36	0 44	11 16	1 53	29 31	14 12	10 4	9 27	6 15			n.a.
S 5	23 10	3 10	1 19	24 3	1 51	11 46	0 19	19 29	2 30	7 27	1 5	13 5	2 11	7 35	0 44	11 17	1 53	29 31	14 12	10 4	9 28	6 12			n.a.
S 6	23 5	2s27	2 18	23 42	1 48	11 20	0 26	19 30	2 29	7 29	1 4	13 6	2 11	7 34	0 44	11 17	1 53	29 30	14 11	10 3	9 30	6 9			n.a.
M 7	22 58	8 2	3 12	23 19	1 43	10 53	0 33	19 32	2 29	7 30	1 4	13 7	2 12	7 34	0 44	11 17	1 53	29 30	14 11	10 3	9 31	6 5			n.a.
T 8	22 52	13 25	3 59	22 55	1 38	10 27	0 40	19 34	2 29	7 32	1 4	13 8	2 12	7 33	0 44	11 17	1 53	29 29	14 11	10 3	9 32	6 2			n.a.
W 9	22 45	18 23	4 35	22 29	1 32	10 0	0 47	19 37	2 29	7 34	1 3	13 9	2 12	7 32	0 44	11 18	1 53	29 28	14 11	10 4	9 33	5 58			n.a.
T 10	22 37	22 42	4 59	22 0	1 26	9 34	0 54	19 39	2 28	7 36	1 3	13 11	2 12	7 31	0 44	11 18	1 53	29 28	14 11	10 6	9 34	5 55			n.a.
F 11	22 29	26 2	5 8	21 31	1 18	9 7	1 2	19 42	2 28	7 38	1 3	13 12	2 13	7 30	0 44	11 18	1 53	29 27	14 11	10 8	9 35	5 52			n.a.
S 12	22 21	28 1	5 1	20 59	1 10	8 40	1 10	19 44	2 28	7 40	1 3	13 13	2 13	7 29	0 44	11 19	1 53	29 27	14 10	10 11	9 37	5 48			n.a.
S 13	22 12	28 20	4 36	20 26	1 1	8 14	1 17	19 47	2 28	7 42	1 2	13 14	2 13	7 28	0 44	11 19	1 54	29 26	14 10	10 14	9 38	5 45			n.a.
M14	22 3	26 47	3 54	19 52	0 52	7 47	1 25	19 50	2 27	7 44	1 2	13 16	2 13	7 27	0 44	11 19	1 54	29 25	14 10	10 16	9 39	5 41			n.a.
T 15	21 53	23 25	2 56	19 17	0 41	7 21	1 33	19 53	2 27	7 46	1 2	13 17	2 14	7 26	0 44	11 19	1 54	29 25	14 10	10 18	9 40	5 38			n.a.
W16	21 43	18 32	1 45	18 40	0 30	6 54	1 41	19 56	2 27	7 48	1 1	13 18	2 14	7 25	0 44	11 19	1 54	29 24	14 10	10 20	9 41	5 35			n.a.
T 17	21 32	12 31	0 27	18 3	0 18	6 28	1 50	20 0	2 26	7 50	1 1	13 20	2 14	7 24	0 44	11 20	1 54	29 24	14 10	10 20	9 43	5 31			n.a.
F 18	21 21	5 51	0n53	17 26	0 5	6 2	1 58	20 3	2 26	7 53	1 1	13 21	2 14	7 23	0 44	11 20	1 54	29 23	14 10	10 20	9 44	5 28			n.a.
S 19	21 10	1n 3	2 8	16 49	0n 8	5 36	2 7	20 7	2 25	7 55	1 1	13 22	2 14	7 22	0 44	11 20	1 54	29 23	14 10	10 20	9 45	5 25			n.a.
S 20	20 58	7 47	3 14	16 13	0 22	5 10	2 15	20 10	2 25	7 58	1 0	13 24	2 15	7 21	0 44	11 20	1 54	29 22	14 10	10 19	9 46	5 21			n.a.
M21	20 46	14 0	4 8	15 37	0 37	4 44	2 24	20 14	2 25	8 0	1 0	13 25	2 15	7 20	0 44	11 20	1 54	29 21	14 10	10 19	9 47	5 18			n.a.
T 22	20 34	19 26	4 46	15 2	0 52	4 19	2 33	20 18	2 24	8 3	1 0	13 27	2 15	7 19	0 44	11 20	1 54	29 21	14 9	10 19	9 48	5 14			n.a.
W23	20 21	23 46	5 7	14 28	1 7	3 54	2 42	20 22	2 24	8 5	0 59	13 28	2 15	7 18	0 44	11 21	1 54	29 20	14 9	10 20	9 50	5 11			n.a.
T 24	20 8	26 46	5 12	13 57	1 23	3 29	2 52	20 26	2 24	8 8	0 59	13 30	2 15	7 17	0 44	11 21	1 54	29 20	14 9	10 21	9 51	5 8			n.a.
F 25	19 54	28 17	5 0	13 28	1 39	3 4	3 1	20 30	2 23	8 11	0 59	13 31	2 16	7 16	0 44	11 21	1 54	29 19	14 9	10 23	9 52	5 4			n.a.
S 26	19 40	28 15	4 33	13 2	1 55	2 40	3 10	20 35	2 23	8 14	0 59	13 33	2 16	7 15	0 44	11 21	1 54	29 19	14 9	10 25	9 53	5 1			n.a.
S 27	19 26	26 44	3 54	12 39	2 10	2 16	3 20	20 39	2 22	8 17	0 58	13 34	2 16	7 14	0 44	11 21	1 54	29 18	14 9	10 27	9 54	4 57			n.a.
M28	19 12	23 55	3 3	12 19	2 25	1 53	3 29	20 43	2 22	8 20	0 58	13 36	2 16	7 12	0 44	11 21	1 54	29 18	14 9	10 28	9 55	4 54			n.a.
T 29	18 57	20 3	2 5	12 3	2 40	1 29	3 39	20 48	2 21	8 23	0 58	13 38	2 16	7 11	0 44	11 21	1 54	29 17	14 9	10 29	9 57	4 51			n.a.
W30	18 41	15 25	1 2	11 51	2 54	1 7	3 49	20 52	2 21	8 26	0 58	13 39	2 16	7 10	0 44	11 21	1 55	29 16	14 9	10 30	9 58	4 47			n.a.
T 31	18s26	10n15	0s 3	11s43	3n 6	0s44	3n59	20n57	2n20	8n29	0s57	13n41	2n17	7s 9	0s44	11s21	1n55	29s16	14s 9	10s30	9s59	4n44			n.a.

Julian Day Number = 1658965.5, Delta T = 03h26m48s
Ecliptic obliquity = 23°43'05, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'43, Lahiri = - 6°18'42 Julian Calendar 1 Jan. 171 BCE == Greg. Calendar 29 Dec. 172 BCE

The year -170 astronomical counting style corresponds to year 171 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 171 BCE
geocentric

FEBRUARY 171 BCE (-170) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 29 38	9♒11'37	15♍26	20°R39	19♓32	23♉ 8	23♈59	0°R 4	13♓45	4♏27	17♒13	3♓ 3	4♓25	15♍55	n.a.	F 1
S 2	8 33 35	10°11'41	27°14	20♒ 9	20° 3	23°28	24° 7	29♌59	13°48	4°27	17°15	3° 5	4°22	16° 1	n.a.	S 2
S 3	8 37 31	11°11'43	9♎ 2	19°31	20°31	23°48	24°15	29°55	13°51	4°27	17°16	3° 6	4°19	16° 8	n.a.	S 3
M 4	8 41 28	12°11'43	20°56	18°47	20°58	24° 9	24°23	29°51	13°54	4°27	17°18	3° 8	4°16	16°15	n.a.	M 4
T 5	8 45 24	13°11'42	3♏ 0	17°57	21°24	24°30	24°32	29°47	13°57	4°27	17°20	3° 9	4°12	16°21	n.a.	T 5
W 6	8 49 21	14°11'39	15°18	17° 2	21°47	24°51	24°40	29°42	14° 0	4°27	17°21	3°R10	4° 9	16°28	n.a.	W 6
T 7	8 53 18	15°11'34	27°55	16° 5	22° 9	25°13	24°49	29°38	14° 3	4°28	17°23	3° 9	4° 6	16°35	n.a.	T 7
F 8	8 57 14	16°11'27	10♐56	15° 6	22°29	25°35	24°58	29°33	14° 6	4°R28	17°24	3° 8	4° 3	16°41	n.a.	F 8
S 9	9 1 11	17°11'19	24°22	14° 6	22°47	25°58	25° 6	29°29	14° 9	4°28	17°26	3° 6	4° 0	16°48	n.a.	S 9
S 10	9 5 7	18°11'09	8♑16	13° 7	23° 3	26°20	25°15	29°24	14°13	4°27	17°28	3° 4	3°56	16°55	n.a.	S 10
M11	9 9 4	19°10'57	22°35	12°11	23°16	26°43	25°25	29°20	14°16	4°27	17°29	3° 2	3°53	17° 1	n.a.	M11
T 12	9 13 0	20°10'43	7♒17	11°18	23°28	27° 6	25°34	29°15	14°19	4°27	17°31	3° 1	3°50	17° 8	n.a.	T 12
W13	9 16 57	21°10'27	22°14	10°29	23°38	27°30	25°43	29°10	14°22	4°27	17°32	3° 0	3°47	17°15	n.a.	W13
T 14	9 20 53	22°10'09	7♓18	9°45	23°45	27°54	25°53	29° 6	14°25	4°27	17°34	3°D 0	3°44	17°21	n.a.	T 14
F 15	9 24 50	23° 9'48	22°21	9° 6	23°50	28°18	26° 2	29° 1	14°29	4°27	17°36	3° 0	3°41	17°28	n.a.	F 15
S 16	9 28 47	24° 9'26	7♈14	8°33	23°52	28°42	26°12	28°56	14°32	4°26	17°37	3° 1	3°37	17°34	n.a.	S 16
S 17	9 32 43	25° 9'01	21°50	8° 7	23°R52	29° 7	26°22	28°52	14°35	4°26	17°39	3° 1	3°34	17°41	n.a.	S 17
M18	9 36 40	26° 8'33	6♉ 6	7°46	23°50	29°31	26°32	28°47	14°38	4°26	17°40	3° 2	3°31	17°48	n.a.	M18
T 19	9 40 36	27° 8'03	19°59	7°32	23°45	29°57	26°42	28°42	14°42	4°25	17°42	3° 2	3°28	17°54	n.a.	T 19
W20	9 44 33	28° 7'31	3♊29	7°23	23°37	0♊22	26°52	28°38	14°45	4°25	17°43	3°R 2	3°25	18° 1	n.a.	W20
T 21	9 48 29	29° 6'57	16°37	7°D21	23°27	0°47	27° 2	28°33	14°48	4°25	17°45	3° 2	3°22	18° 8	n.a.	T 21
F 22	9 52 26	0♓ 6'20	29°27	7°25	23°15	1°13	27°13	28°28	14°52	4°24	17°47	3° 2	3°18	18°14	n.a.	F 22
S 23	9 56 22	1° 5'40	12♋ 0	7°34	23° 0	1°39	27°23	28°24	14°55	4°24	17°48	3° 2	3°15	18°21	n.a.	S 23
S 24	10 0 19	2° 4'58	24°20	7°48	22°42	2° 5	27°34	28°19	14°58	4°23	17°50	3° 1	3°12	18°28	n.a.	S 24
M25	10 4 16	3° 4'14	6♌29	8° 8	22°23	2°32	27°44	28°14	15° 2	4°23	17°51	3°D 1	3° 9	18°34	n.a.	M25
T 26	10 8 12	4° 3'28	18°29	8°32	22° 0	2°59	27°55	28°10	15° 5	4°22	17°53	3° 1	3° 6	18°41	n.a.	T 26
W27	10 12 9	5° 2'39	0♍23	9° 1	21°36	3°25	28° 6	28° 5	15° 9	4°21	17°54	3°R 1	3° 2	18°48	n.a.	W27
T 28	10 16 5	6♓ 1'48	12♍14	9♒35	21♓ 9	3♊52	28♈17	28♌ 0	15♓12	4♏21	17♒56	3♓ 1	2♓59	18♍54	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	18s10	4n46	1s 8	11s39	3n18	0s23	4n 9	21n 2	2n20	8n32	0s57	13n43	2n17	7s 8	0s44	11s21	1n55	29s15	14s 9	10s30	10s 0	4n40		n.a.
S 2	17 54	0s52	2 9	11 39	3 28	0 1	4 19	21 6	2 20	8 35	0 57	13 44	2 17	7 7	0 44	11 21	1 55	29 15	14 9	10 30	10 1	4 37		n.a.
S 3	17 37	6 28	3 6	11 43	3 36	0n19	4 29	21 11	2 19	8 38	0 57	13 46	2 17	7 6	0 44	11 21	1 55	29 14	14 9	10 29	10 2	4 34		n.a.
M 4	17 20	11 53	3 55	11 51	3 43	0 39	4 40	21 16	2 19	8 41	0 56	13 48	2 17	7 4	0 44	11 21	1 55	29 14	14 9	10 28	10 4	4 30		n.a.
T 5	17 3	16 56	4 34	12 2	3 47	0 59	4 50	21 21	2 18	8 45	0 56	13 49	2 17	7 3	0 43	11 21	1 55	29 13	14 9	10 28	10 5	4 27		n.a.
W 6	16 46	21 24	5 1	12 16	3 50	1 18	5 0	21 26	2 18	8 48	0 56	13 51	2 18	7 2	0 43	11 21	1 55	29 13	14 9	10 28	10 6	4 23		n.a.
T 7	16 28	25 2	5 15	12 33	3 50	1 36	5 10	21 30	2 17	8 52	0 56	13 53	2 18	7 1	0 43	11 21	1 55	29 12	14 9	10 28	10 7	4 20		n.a.
F 8	16 10	27 31	5 13	12 52	3 48	1 53	5 21	21 35	2 17	8 55	0 55	13 54	2 18	6 59	0 43	11 21	1 55	29 12	14 9	10 28	10 8	4 17		n.a.
S 9	15 52	28 30	4 55	13 13	3 44	2 10	5 31	21 40	2 16	8 58	0 55	13 56	2 18	6 58	0 43	11 21	1 55	29 11	14 9	10 29	10 9	4 13		n.a.
S 10	15 33	27 46	4 19	13 35	3 39	2 25	5 41	21 45	2 16	9 2	0 55	13 58	2 18	6 57	0 43	11 21	1 55	29 11	14 9	10 30	10 11	4 10		n.a.
M11	15 15	25 11	3 26	13 58	3 31	2 40	5 52	21 50	2 15	9 6	0 55	14 0	2 18	6 56	0 43	11 21	1 55	29 10	14 9	10 31	10 12	4 6		n.a.
T 12	14 56	20 53	2 18	14 21	3 22	2 54	6 2	21 55	2 15	9 9	0 54	14 1	2 18	6 54	0 43	11 21	1 55	29 10	14 9	10 31	10 13	4 3		n.a.
W13	14 36	15 12	0 59	14 44	3 12	3 7	6 12	22 0	2 14	9 13	0 54	14 3	2 18	6 53	0 43	11 21	1 55	29 9	14 9	10 31	10 14	4 0		n.a.
T 14	14 17	8 34	0n24	15 7	3 1	3 19	6 22	22 5	2 14	9 17	0 54	14 5	2 18	6 52	0 43	11 20	1 55	29 9	14 9	10 31	10 15	3 56		n.a.
F 15	13 57	1 28	1 45	15 29	2 48	3 30	6 32	22 11	2 13	9 20	0 54	14 7	2 19	6 51	0 43	11 20	1 56	29 8	14 9	10 31	10 16	3 53		n.a.
S 16	13 37	5n38	2 59	15 51	2 35	3 40	6 41	22 16	2 13	9 24	0 53	14 8	2 19	6 49	0 43	11 20	1 56	29 8	14 9	10 31	10 18	3 49		n.a.
S 17	13 17	12 18	3 59	16 11	2 21	3 48	6 51	22 21	2 12	9 28	0 53	14 10	2 19	6 48	0 43	11 20	1 56	29 7	14 9	10 31	10 19	3 46		n.a.
M18	12 57	18 9	4 43	16 30	2 7	3 56	7 0	22 26	2 12	9 32	0 53	14 12	2 19	6 47	0 43	11 20	1 56	29 7	14 9	10 31	10 20	3 43		n.a.
T 19	12 36	22 54	5 9	16 47	1 53	4 2	7 9	22 31	2 11	9 36	0 53	14 13	2 19	6 45	0 43	11 20	1 56	29 6	14 10	10 30	10 21	3 39		n.a.
W20	12 16	26 17	5 18	17 3	1 38	4 7	7 17	22 36	2 11	9 39	0 52	14 15	2 19	6 44	0 43	11 20	1 56	29 6	14 10	10 30	10 22	3 36		n.a.
T 21	11 55	28 9	5 9	17 18	1 24	4 10	7 25	22 41	2 10	9 43	0 52	14 17	2 19	6 43	0 43	11 19	1 56	29 6	14 10	10 31	10 23	3 32		n.a.
F 22	11 34	28 28	4 45	17 31	1 9	4 13	7 33	22 46	2 10	9 47	0 52	14 19	2 19	6 42	0 43	11 19	1 56	29 5	14 10	10 31	10 25	3 29		n.a.
S 23	11 13	27 16	4 7	17 42	0 55	4 13	7 40	22 51	2 9	9 51	0 52	14 20	2 19	6 40	0 43	11 19	1 56	29 5	14 10	10 31	10 26	3 25		n.a.
S 24	10 51	24 46	3 19	17 52	0 41	4 13	7 47	22 55	2 9	9 55	0 52	14 22	2 19	6 39	0 43	11 19	1 56	29 4	14 10	10 31	10 27	3 22		n.a.
M25	10 30	21 10	2 22	18 0	0 28	4 11	7 53	23 0	2 8	9 59	0 51	14 24	2 19	6 38	0 43	11 18	1 56	29 4	14 10	10 31	10 28	3 19		n.a.
T 26	10 8	16 44	1 20	18 6	0 15	4 7	7 59	23 5	2 8	10 4	0 51	14 25	2 19	6 36	0 43	11 18	1 56	29 3	14 10	10 31	10 29	3 15		n.a.
W27	9 46	11 41	0 15	18 10	0 2	4 2	8 4	23 10	2 7	10 8	0 51	14 27	2 19	6 35	0 43	11 18	1 56	29 3	14 10	10 31	10 30	3 12		n.a.
T 28	9s24	6n16	0s51	18s13	0s10	3n55	8n 8	23n15	2n 7	10n12	0s51	14n29	2n19	6s34	0s43	11s18	1n56	29s 3	14s10	10s31	10s32	3n 8		n.a.

Julian Day Number = 1658996.5, Delta T = 03h26m47s
Ecliptic obliquity = 23°43'05, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'39, Lahiri = - 6°18'38 Julian Calendar 1 Feb. 171 BCE == Greg. Calendar 29 Jan. 171 BCE

The year -170 astronomical counting style corresponds to year 171 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 171 BCE
geocentric

MARCH 171 BCE (-170) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 20 2	7♓ 0'55	24♍ 2	10♒12	20°R41	4♊20	28♈28	27°R56	15♓15	4°R20	17♒57	3°R 1	2♓56	19♍ 1	n.a.	F 1
S 2	10 23 58	8° 0'00	5♎51	10°54	20♓10	4°47	28°39	27♌51	15°19	4♏19	17°59	3♓ 1	2°53	19° 8	n.a.	S 2
S 3	10 27 55	8°59'03	17°42	11°39	19°38	5°15	28°50	27°47	15°22	4°19	18° 0	3° 0	2°50	19°14	n.a.	S 3
M 4	10 31 51	9°58'04	29°39	12°27	19° 4	5°42	29° 1	27°42	15°26	4°18	18° 2	2°59	2°47	19°21	n.a.	M 4
T 5	10 35 48	10°57'03	11♏46	13°19	18°29	6°10	29°13	27°38	15°29	4°17	18° 3	2°58	2°43	19°28	n.a.	T 5
W 6	10 39 45	11°56'00	24° 5	14°14	17°53	6°38	29°24	27°33	15°32	4°16	18° 5	2°57	2°40	19°34	n.a.	W 6
T 7	10 43 41	12°54'56	6♐40	15°12	17°16	7° 7	29°36	27°29	15°36	4°16	18° 6	2°57	2°37	19°41	n.a.	T 7
F 8	10 47 38	13°53'49	19°35	16°13	16°39	7°35	29°47	27°24	15°39	4°15	18° 8	2°D57	2°34	19°48	n.a.	F 8
S 9	10 51 34	14°52'41	2♑54	17°16	16° 1	8° 4	29°59	27°20	15°43	4°14	18° 9	2°57	2°31	19°54	n.a.	S 9
S 10	10 55 31	15°51'31	16°38	18°22	15°23	8°33	0♉11	27°16	15°46	4°13	18°11	2°58	2°27	20° 1	n.a.	S 10
M11	10 59 27	16°50'20	0♒48	19°30	14°45	9° 2	0°23	27°11	15°50	4°12	18°12	2°59	2°24	20° 7	n.a.	M11
T 12	11 3 24	17°49'06	15°23	20°41	14° 7	9°31	0°35	27° 7	15°53	4°11	18°14	3° 0	2°21	20°14	n.a.	T 12
W13	11 7 20	18°47'50	0♓19	21°54	13°30	10° 0	0°47	27° 3	15°56	4°10	18°15	3°R 1	2°18	20°21	n.a.	W13
T 14	11 11 17	19°46'32	15°28	23° 9	12°54	10°29	0°59	26°59	16° 0	4° 9	18°16	3° 0	2°15	20°27	n.a.	T 14
F 15	11 15 13	20°45'13	0♈41	24°26	12°19	10°59	1°11	26°55	16° 3	4° 8	18°18	2°59	2°12	20°34	n.a.	F 15
S 16	11 19 10	21°43'51	15°49	25°46	11°46	11°28	1°23	26°51	16° 7	4° 7	18°19	2°57	2° 8	20°41	n.a.	S 16
S 17	11 23 7	22°42'27	0♉42	27° 7	11°13	11°58	1°36	26°47	16°10	4° 6	18°20	2°55	2° 5	20°47	n.a.	S 17
M18	11 27 3	23°41'01	15°13	28°30	10°43	12°28	1°48	26°43	16°13	4° 5	18°22	2°52	2° 2	20°54	n.a.	M18
T 19	11 31 0	24°39'33	29°18	29°55	10°14	12°58	2° 0	26°39	16°17	4° 4	18°23	2°50	1°59	21° 1	n.a.	T 19
W20	11 34 56	25°38'02	12♊56	1♓22	9°47	13°29	2°13	26°35	16°20	4° 2	18°24	2°48	1°56	21° 7	n.a.	W20
T 21	11 38 53	26°36'29	26° 7	2°51	9°22	13°59	2°25	26°31	16°24	4° 1	18°26	2°D48	1°53	21°14	n.a.	T 21
F 22	11 42 49	27°34'54	8♋54	4°21	9° 0	14°29	2°38	26°27	16°27	4° 0	18°27	2°48	1°49	21°21	n.a.	F 22
S 23	11 46 46	28°33'17	21°21	5°54	8°39	15° 0	2°51	26°24	16°30	3°59	18°28	2°49	1°46	21°27	n.a.	S 23
S 24	11 50 42	29°31'37	3♌33	7°28	8°21	15°31	3° 3	26°20	16°34	3°58	18°30	2°51	1°43	21°34	n.a.	S 24
M25	11 54 39	0♈29'56	15°33	9° 4	8° 6	16° 2	3°16	26°17	16°37	3°56	18°31	2°53	1°40	21°41	n.a.	M25
T 26	11 58 36	1°28'12	27°26	10°41	7°52	16°33	3°29	26°13	16°40	3°55	18°32	2°R54	1°37	21°47	n.a.	T 26
W27	12 2 32	2°26'26	9♍14	12°21	7°42	17° 4	3°42	26°10	16°44	3°54	18°33	2°54	1°33	21°54	n.a.	W27
T 28	12 6 29	3°24'38	21° 2	14° 2	7°33	17°35	3°55	26° 7	16°47	3°52	18°35	2°52	1°30	22° 1	n.a.	T 28
F 29	12 10 25	4°22'48	2♎51	15°45	7°27	18° 6	4° 8	26° 4	16°50	3°51	18°36	2°49	1°27	22° 7	n.a.	F 29
S 30	12 14 22	5°20'57	14°43	17°29	7°24	18°38	4°21	26° 1	16°54	3°50	18°37	2°45	1°24	22°14	n.a.	S 30
S 31	12 18 18	6♈19'03	26♎42	19♓16	7°D23	19♊ 9	4♉34	25♌58	16♓57	3♏48	18♒38	2♓39	1♓21	22♍21	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	9s 2	0n39	1s54	18s14	0s22	3n47	8n12	23n19	2n 6	10n16	0s51	14n30	2n19	6s32	0s43	11s17	1n56	29s 2	14s11	10s31	10s33	3n 5		n.a.
S 2	8 40	4s59	2 52	18 14	0 33	3 38	8 14	23 24	2 6	10 20	0 50	14 32	2 19	6 31	0 43	11 17	1 56	29 2	14 11	10 31	10 34	3 2		n.a.
S 3	8 18	10 28	3 44	18 12	0 44	3 27	8 16	23 29	2 5	10 24	0 50	14 34	2 19	6 30	0 43	11 17	1 56	29 2	14 11	10 31	10 35	2 58		n.a.
M 4	7 55	15 36	4 25	18 8	0 54	3 15	8 17	23 33	2 5	10 29	0 50	14 35	2 19	6 28	0 43	11 17	1 56	29 1	14 11	10 32	10 36	2 55		n.a.
T 5	7 33	20 13	4 56	18 2	1 4	3 1	8 18	23 38	2 4	10 33	0 50	14 37	2 19	6 27	0 43	11 16	1 57	29 1	14 11	10 32	10 37	2 51		n.a.
W 6	7 10	24 4	5 13	17 55	1 13	2 46	8 17	23 42	2 4	10 37	0 50	14 38	2 19	6 26	0 43	11 16	1 57	29 0	14 11	10 32	10 39	2 48		n.a.
T 7	6 47	26 52	5 17	17 46	1 22	2 30	8 15	23 47	2 3	10 41	0 49	14 40	2 19	6 24	0 43	11 16	1 57	29 0	14 11	10 32	10 40	2 45		n.a.
F 8	6 24	28 21	5 4	17 36	1 30	2 13	8 13	23 51	2 3	10 46	0 49	14 41	2 19	6 23	0 43	11 15	1 57	29 0	14 12	10 32	10 41	2 41		n.a.
S 9	6 1	28 16	4 35	17 24	1 38	1 55	8 9	23 55	2 2	10 50	0 49	14 43	2 19	6 22	0 43	11 15	1 57	29 0	14 12	10 32	10 42	2 38		n.a.
S 10	5 38	26 28	3 50	17 10	1 45	1 37	8 5	23 59	2 2	10 54	0 49	14 44	2 19	6 20	0 43	11 15	1 57	28 59	14 12	10 32	10 43	2 34		n.a.
M11	5 15	22 58	2 49	16 54	1 52	1 17	7 59	24 4	2 1	10 59	0 49	14 46	2 19	6 19	0 43	11 14	1 57	28 59	14 12	10 32	10 44	2 31		n.a.
T 12	4 52	17 56	1 36	16 37	1 58	0 57	7 53	24 8	2 1	11 3	0 49	14 47	2 19	6 17	0 43	11 14	1 57	28 59	14 12	10 31	10 45	2 27		n.a.
W13	4 29	11 43	0 15	16 19	2 3	0 37	7 46	24 12	2 0	11 7	0 48	14 49	2 19	6 16	0 43	11 13	1 57	28 58	14 13	10 31	10 47	2 24		n.a.
T 14	4 6	4 45	1n 8	15 59	2 9	0 16	7 39	24 15	2 0	11 12	0 48	14 50	2 19	6 15	0 43	11 13	1 57	28 58	14 13	10 31	10 48	2 21		n.a.
F 15	3 42	2n31	2 27	15 37	2 13	0s 6	7 30	24 19	1 59	11 16	0 48	14 52	2 19	6 13	0 43	11 13	1 57	28 58	14 13	10 32	10 49	2 17		n.a.
S 16	3 19	9 36	3 35	15 14	2 17	0 27	7 21	24 23	1 59	11 21	0 48	14 53	2 19	6 12	0 43	11 12	1 57	28 57	14 13	10 32	10 50	2 14		n.a.
S 17	2 56	16 1	4 27	14 49	2 21	0 48	7 11	24 27	1 58	11 25	0 48	14 54	2 19	6 11	0 43	11 12	1 57	28 57	14 13	10 33	10 51	2 10		n.a.
M18	2 32	21 22	5 1	14 22	2 23	1 9	7 0	24 30	1 58	11 30	0 47	14 56	2 19	6 9	0 43	11 11	1 57	28 57	14 14	10 34	10 52	2 7		n.a.
T 19	2 9	25 21	5 15	13 54	2 26	1 30	6 49	24 34	1 58	11 34	0 47	14 57	2 19	6 8	0 43	11 11	1 57	28 57	14 14	10 35	10 54	2 4		n.a.
W20	1 45	27 45	5 11	13 25	2 28	1 51	6 38	24 37	1 57	11 39	0 47	14 58	2 19	6 7	0 43	11 11	1 57	28 57	14 14	10 36	10 55	2 0		n.a.
T 21	1 22	28 29	4 50	12 53	2 29	2 12	6 26	24 40	1 57	11 43	0 47	14 59	2 19	6 5	0 43	11 10	1 57	28 56	14 14	10 36	10 56	1 57		n.a.
F 22	0 58	27 39	4 15	12 21	2 30	2 31	6 14	24 44	1 56	11 48	0 47	15 1	2 19	6 4	0 43	11 10	1 57	28 56	14 14	10 36	10 57	1 53		n.a.
S 23	0 35	25 26	3 29	11 47	2 30	2 51	6 1	24 47	1 56	11 52	0 47	15 2	2 19	6 3	0 43	11 9	1 57	28 56	14 15	10 35	10 58	1 50		n.a.
S 24	0 11	22 5	2 35	11 11	2 30	3 9	5 48	24 50	1 55	11 57	0 47	15 3	2 19	6 1	0 43	11 9	1 57	28 56	14 15	10 35	10 59	1 47		n.a.
M25	0n12	17 51	1 34	10 34	2 29	3 27	5 35	24 52	1 55	12 1	0 46	15 4	2 18	6 0	0 43	11 8	1 57	28 55	14 15	10 34	11 0	1 43		n.a.
T 26	0 35	12 59	0 30	9 55	2 28	3 44	5 22	24 55	1 54	12 6	0 46	15 5	2 18	5 59	0 43	11 8	1 57	28 55	14 15	10 34	11 2	1 40		n.a.
W27	0 59	7 40	0s35	9 15	2 26	4 0	5 9	24 58	1 54	12 10	0 46	15 6	2 18	5 58	0 43	11 7	1 57	28 55	14 16	10 34	11 3	1 36		n.a.
T 28	1 22	2 6	1 38	8 33	2 23	4 16	4 56	25 0	1 53	12 15	0 46	15 7	2 18	5 56	0 43	11 7	1 58	28 55	14 16	10 34	11 4	1 33		n.a.
F 29	1 46	3s32	2 37	7 50	2 20	4 30	4 42	25 3	1 53	12 19	0 46	15 8	2 18	5 55	0 43	11 6	1 58	28 55	14 16	10 35	11 5	1 30		n.a.
S 30	2 9	9 4	3 29	7 6	2 17	4 44	4 29	25 5	1 52	12 24	0 46	15 9	2 18	5 54	0 43	11 6	1 58	28 55	14 16	10 37	11 6	1 26		n.a.
S 31	2n32	14s19	4s12	6s20	2s13	4s57	4n16	25n 7	1n52	12n29	0s45	15n10	2n18	5s52	0s43	11s 5	1n58	28s55	14s17	10s39	11s 7	1n23		n.a.

Julian Day Number = 1659024.5, Delta T = 03h26m47s
Ecliptic obliquity = 23°43'06, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'35, Lahiri = - 6°18'34 Julian Calendar 1 March 171 BCE == Greg. Calendar 26 Feb. 171 BCE

The year -170 astronomical counting style corresponds to year 171 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 171 BCE
geocentric

APRIL 171 BCE (-170) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 22 15	7♈17'08	8♏47	21♓ 4	7♓24	19♊41	4♉47	25°R55	17♓ 0	3°R47	18♒39	2°R33	1♓18	22♍27	n.a.	M 1
T 2	12 26 11	8°15'11	21° 2	22°54	7°28	20°12	5° 0	25♌52	17° 4	3♏45	18°40	2♓27	1°14	22°34	n.a.	T 2
W 3	12 30 8	9°13'13	3♐28	24°45	7°34	20°44	5°13	25°49	17° 7	3°44	18°41	2°22	1°11	22°40	n.a.	W 3
T 4	12 34 5	10°11'14	16° 7	26°39	7°42	21°16	5°26	25°46	17°10	3°43	18°42	2°18	1° 8	22°47	n.a.	T 4
F 5	12 38 1	11° 9'13	29° 3	28°34	7°52	21°48	5°39	25°44	17°13	3°41	18°44	2°15	1° 5	22°54	n.a.	F 5
S 6	12 41 58	12° 7'10	12♑17	0♈31	8° 5	22°20	5°53	25°41	17°16	3°40	18°45	2°D15	1° 2	23° 0	n.a.	S 6
S 7	12 45 54	13° 5'06	25°53	2°30	8°19	22°52	6° 6	25°39	17°20	3°38	18°46	2°15	0°59	23° 7	n.a.	S 7
M 8	12 49 51	14° 3'01	9♒51	4°31	8°36	23°25	6°19	25°36	17°23	3°37	18°47	2°17	0°55	23°14	n.a.	M 8
T 9	12 53 47	15° 0'54	24°11	6°33	8°54	23°57	6°33	25°34	17°26	3°35	18°48	2°18	0°52	23°20	n.a.	T 9
W10	12 57 44	15°58'46	8♓53	8°36	9°14	24°29	6°46	25°32	17°29	3°34	18°49	2°R18	0°49	23°27	n.a.	W10
T 11	13 1 40	16°56'37	23°51	10°42	9°36	25° 2	7° 0	25°30	17°32	3°32	18°50	2°16	0°46	23°34	n.a.	T 11
F 12	13 5 37	17°54'26	8♈57	12°48	10° 0	25°35	7°13	25°28	17°35	3°31	18°51	2°12	0°43	23°40	n.a.	F 12
S 13	13 9 33	18°52'14	24° 4	14°56	10°26	26° 7	7°27	25°26	17°38	3°29	18°51	2° 7	0°39	23°47	n.a.	S 13
S 14	13 13 30	19°50'00	9♉ 1	17° 5	10°53	26°40	7°40	25°24	17°41	3°27	18°52	2° 0	0°36	23°54	n.a.	S 14
M15	13 17 27	20°47'44	23°39	19°14	11°21	27°13	7°54	25°23	17°44	3°26	18°53	1°52	0°33	24° 0	n.a.	M15
T 16	13 21 23	21°45'27	7♊52	21°25	11°51	27°46	8° 8	25°21	17°47	3°24	18°54	1°45	0°30	24° 7	n.a.	T 16
W17	13 25 20	22°43'09	21°37	23°36	12°23	28°19	8°21	25°19	17°50	3°23	18°55	1°40	0°27	24°14	n.a.	W17
T 18	13 29 16	23°40'49	4♋53	25°47	12°55	28°52	8°35	25°18	17°53	3°21	18°56	1°36	0°24	24°20	n.a.	T 18
F 19	13 33 13	24°38'27	17°43	27°58	13°29	29°26	8°48	25°17	17°56	3°20	18°57	1°34	0°20	24°27	n.a.	F 19
S 20	13 37 9	25°36'03	0♌11	0♉ 8	14° 5	29°59	9° 2	25°16	17°59	3°18	18°57	1°D34	0°17	24°34	n.a.	S 20
S 21	13 41 6	26°33'38	12°21	2°18	14°41	0♋32	9°16	25°14	18° 2	3°16	18°58	1°35	0°14	24°40	n.a.	S 21
M22	13 45 3	27°31'11	24°18	4°28	15°19	1° 6	9°30	25°13	18° 5	3°15	18°59	1°36	0°11	24°47	n.a.	M22
T 23	13 48 59	28°28'43	6♍ 8	6°36	15°58	1°39	9°43	25°13	18° 7	3°13	19° 0	1°R36	0° 8	24°54	n.a.	T 23
W24	13 52 56	29°26'13	17°55	8°42	16°38	2°13	9°57	25°12	18°10	3°11	19° 0	1°34	0° 4	25° 0	n.a.	W24
T 25	13 56 52	0♉23'42	29°43	10°47	17°19	2°47	10°11	25°11	18°13	3°10	19° 1	1°31	0° 1	25° 7	n.a.	T 25
F 26	14 0 49	1°21'09	11♎36	12°50	18° 1	3°20	10°25	25°10	18°16	3° 8	19° 2	1°25	29♒58	25°14	n.a.	F 26
S 27	14 4 45	2°18'35	23°36	14°51	18°44	3°54	10°38	25°10	18°18	3° 7	19° 2	1°16	29°55	25°20	n.a.	S 27
S 28	14 8 42	3°16'01	5♏44	16°50	19°28	4°28	10°52	25°10	18°21	3° 5	19° 3	1° 6	29°52	25°27	n.a.	S 28
M29	14 12 38	4°13'25	18° 2	18°46	20°13	5° 2	11° 6	25° 9	18°24	3° 3	19° 3	0°55	29°49	25°34	n.a.	M29
T 30	14 16 35	5♉10'48	0♐31	20♉40	20♓59	5♋36	11♉20	25♌ 9	18♓26	3♏ 2	19♒ 4	0♓43	29♒45	25♍40	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	2n55	19s 5	4s45	5s33	2s 8	5s 8	4n 3	25n10	1n51	12n33	0s45	15n11	2n18	5s51	0s43	11s 5	1n58	28s54	14s17	10s41	11s 8	1n19		n.a.
T 2	3 19	23 7	5 5	4 44	2 3	5 19	3 50	25 11	1 51	12 38	0 45	15 12	2 18	5 50	0 43	11 4	1 58	28 54	14 17	10 43	11 10	1 16		n.a.
W 3	3 42	26 10	5 11	3 54	1 58	5 29	3 37	25 13	1 50	12 42	0 45	15 13	2 17	5 49	0 43	11 4	1 58	28 54	14 18	10 45	11 11	1 12		n.a.
T 4	4 5	27 59	5 2	3 3	1 51	5 38	3 24	25 15	1 50	12 47	0 45	15 14	2 17	5 47	0 43	11 3	1 58	28 54	14 18	10 47	11 12	1 9		n.a.
F 5	4 28	28 21	4 38	2 10	1 45	5 45	3 12	25 17	1 49	12 51	0 45	15 14	2 17	5 46	0 43	11 3	1 58	28 54	14 18	10 48	11 13	1 6		n.a.
S 6	4 51	27 6	3 58	1 17	1 37	5 52	2 59	25 18	1 49	12 56	0 45	15 15	2 17	5 45	0 43	11 2	1 58	28 54	14 18	10 48	11 14	1 2		n.a.
S 7	5 13	24 14	3 5	0 22	1 30	5 58	2 47	25 20	1 48	13 1	0 45	15 16	2 17	5 44	0 43	11 2	1 58	28 54	14 19	10 48	11 15	0 59		n.a.
M 8	5 36	19 54	1 59	0n34	1 22	6 3	2 35	25 21	1 48	13 5	0 44	15 17	2 17	5 42	0 43	11 1	1 58	28 54	14 19	10 47	11 16	0 55		n.a.
T 9	5 59	14 18	0 44	1 31	1 13	6 7	2 23	25 22	1 47	13 10	0 44	15 17	2 17	5 41	0 43	11 1	1 58	28 54	14 19	10 47	11 18	0 52		n.a.
W10	6 21	7 47	0n36	2 28	1 4	6 10	2 12	25 23	1 47	13 14	0 44	15 18	2 17	5 40	0 43	11 0	1 58	28 54	14 20	10 47	11 19	0 49		n.a.
T 11	6 44	0 44	1 54	3 26	0 55	6 12	2 1	25 24	1 46	13 19	0 44	15 18	2 16	5 39	0 43	11 0	1 58	28 54	14 20	10 47	11 20	0 45		n.a.
F 12	7 6	6n25	3 5	4 25	0 45	6 13	1 50	25 24	1 46	13 24	0 44	15 19	2 16	5 37	0 43	10 59	1 58	28 54	14 20	10 49	11 21	0 42		n.a.
S 13	7 29	13 12	4 3	5 24	0 35	6 13	1 39	25 25	1 45	13 28	0 44	15 19	2 16	5 36	0 43	10 59	1 58	28 54	14 21	10 51	11 22	0 38		n.a.
S 14	7 51	19 8	4 44	6 24	0 25	6 13	1 28	25 25	1 45	13 33	0 44	15 20	2 16	5 35	0 43	10 58	1 58	28 54	14 21	10 53	11 23	0 35		n.a.
M15	8 13	23 48	5 5	7 24	0 15	6 11	1 18	25 26	1 44	13 37	0 43	15 20	2 16	5 34	0 43	10 57	1 58	28 54	14 21	10 56	11 24	0 32		n.a.
T 16	8 34	26 54	5 6	8 23	0 4	6 9	1 8	25 26	1 44	13 42	0 43	15 21	2 16	5 33	0 43	10 57	1 58	28 54	14 22	10 58	11 25	0 28		n.a.
W17	8 56	28 16	4 49	9 22	0n 6	6 6	0 58	25 26	1 43	13 46	0 43	15 21	2 16	5 32	0 43	10 56	1 58	28 54	14 22	11 0	11 27	0 25		n.a.
T 18	9 18	27 55	4 18	10 20	0 17	6 2	0 49	25 26	1 43	13 51	0 43	15 21	2 15	5 30	0 43	10 56	1 58	28 54	14 22	11 2	11 28	0 21		n.a.
F 19	9 39	26 4	3 34	11 18	0 28	5 57	0 40	25 26	1 43	13 55	0 43	15 22	2 15	5 29	0 43	10 55	1 58	28 54	14 22	11 2	11 29	0 18		n.a.
S 20	10 1	22 58	2 41	12 15	0 38	5 52	0 31	25 25	1 42	14 0	0 43	15 22	2 15	5 28	0 43	10 55	1 58	28 54	14 23	11 2	11 30	0 15		n.a.
S 21	10 22	18 55	1 42	13 10	0 48	5 46	0 22	25 25	1 42	14 4	0 43	15 22	2 15	5 27	0 43	10 54	1 58	28 54	14 23	11 2	11 31	0 11		n.a.
M22	10 43	14 11	0 39	14 4	0 58	5 39	0 13	25 24	1 41	14 9	0 43	15 22	2 15	5 26	0 43	10 54	1 58	28 54	14 23	11 2	11 32	0 8		n.a.
T 23	11 3	8 59	0s24	14 56	1 7	5 31	0 5	25 23	1 41	14 13	0 43	15 23	2 15	5 25	0 44	10 53	1 58	28 54	14 24	11 2	11 33	0 4		n.a.
W24	11 24	3 30	1 26	15 46	1 16	5 23	0s 3	25 22	1 40	14 18	0 42	15 23	2 14	5 24	0 44	10 52	1 58	28 54	14 24	11 2	11 35	0 1		n.a.
T 25	11 45	2s 6	2 25	16 34	1 25	5 14	0 11	25 21	1 40	14 22	0 42	15 23	2 14	5 23	0 44	10 52	1 58	28 54	14 25	11 4	11 36	0s 2		n.a.
F 26	12 5	7 39	3 17	17 20	1 33	5 4	0 18	25 20	1 39	14 27	0 42	15 23	2 14	5 22	0 44	10 51	1 58	28 54	14 25	11 6	11 37	0 6		n.a.
S 27	12 25	12 59	4 1	18 4	1 40	4 54	0 26	25 18	1 39	14 31	0 42	15 23	2 14	5 21	0 44	10 51	1 58	28 54	14 25	11 9	11 38	0 9		n.a.
S 28	12 45	17 53	4 34	18 46	1 47	4 43	0 33	25 17	1 38	14 36	0 42	15 23	2 14	5 20	0 44	10 50	1 58	28 55	14 26	11 13	11 39	0 13		n.a.
M29	13 4	22 7	4 56	19 25	1 53	4 32	0 40	25 15	1 38	14 40	0 42	15 23	2 14	5 19	0 44	10 50	1 58	28 55	14 26	11 17	11 40	0 16		n.a.
T 30	13n24	25s26	5s 3	20n 2	1n58	4s20	0s46	25n13	1n37	14n45	0s42	15n23	2n13	5s18	0s44	10s49	1n58	28s55	14s26	11s21	11s41	0s19		n.a.

Julian Day Number = 1659055.5, Delta T = 03h26m46s
Ecliptic obliquity = 23°43'06, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'30, Lahiri = - 6°18'30 Julian Calendar 1 Apr. 171 BCE == Greg. Calendar 29 March 171 BCE

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ASTRODIENST EPHEMERIS for the year 171 BCE
geocentric

MAY 171 BCE (-170) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 20 31	6♉ 8'10	13♐11	22♉32	21♓45	6♋10	11♉34	25°D 9	18♓29	3°R 0	19♒ 4	0°R33	29♒42	25♍47	n.a.	W 1
T 2	14 24 28	7° 5'31	26° 3	24°21	22°32	6°44	11°48	25♌ 9	18°31	2♏59	19° 5	0♓25	29°39	25°54	n.a.	T 2
F 3	14 28 25	8° 2'52	9♑ 7	26° 7	23°21	7°19	12° 2	25° 9	18°34	2°57	19° 5	0°19	29°36	26° 0	n.a.	F 3
S 4	14 32 21	9° 0'12	22°26	27°51	24° 9	7°53	12°15	25° 9	18°36	2°55	19° 6	0°16	29°33	26° 7	n.a.	S 4
S 5	14 36 18	9°57'31	6♒ 0	29°31	24°59	8°27	12°29	25°10	18°39	2°54	19° 6	0°D15	29°30	26°14	n.a.	S 5
M 6	14 40 14	10°54'50	19°50	1♊ 9	25°49	9° 2	12°43	25°10	18°41	2°52	19° 7	0°15	29°26	26°20	n.a.	M 6
T 7	14 44 11	11°52'08	3♓58	2°45	26°40	9°36	12°57	25°10	18°44	2°50	19° 7	0°R15	29°23	26°27	n.a.	T 7
W 8	14 48 7	12°49'25	18°22	4°17	27°32	10°11	13°11	25°11	18°46	2°49	19° 8	0°14	29°20	26°34	n.a.	W 8
T 9	14 52 4	13°46'42	3♈ 1	5°47	28°24	10°45	13°25	25°12	18°48	2°47	19° 8	0°11	29°17	26°40	n.a.	T 9
F 10	14 56 1	14°43'58	17°49	7°14	29°17	11°20	13°39	25°13	18°50	2°46	19° 8	0° 5	29°14	26°47	n.a.	F 10
S 11	14 59 57	15°41'14	2♉39	8°37	0♈10	11°55	13°52	25°13	18°53	2°44	19° 9	29♒57	29°10	26°54	n.a.	S 11
S 12	15 3 54	16°38'29	17°24	9°58	1° 4	12°30	14° 6	25°14	18°55	2°43	19° 9	29°47	29° 7	27° 0	n.a.	S 12
M13	15 7 50	17°35'44	1♊54	11°16	1°58	13° 4	14°20	25°16	18°57	2°41	19° 9	29°36	29° 4	27° 7	n.a.	M13
T 14	15 11 47	18°32'58	16° 4	12°31	2°53	13°39	14°34	25°17	18°59	2°39	19° 9	29°25	29° 1	27°14	n.a.	T 14
W15	15 15 43	19°30'11	29°49	13°43	3°48	14°14	14°48	25°18	19° 1	2°38	19°10	29°16	28°58	27°20	n.a.	W15
T 16	15 19 40	20°27'24	13♋ 6	14°52	4°44	14°49	15° 2	25°20	19° 3	2°36	19°10	29° 9	28°55	27°27	n.a.	T 16
F 17	15 23 36	21°24'35	25°59	15°58	5°40	15°25	15°15	25°21	19° 5	2°35	19°10	29° 5	28°51	27°34	n.a.	F 17
S 18	15 27 33	22°21'46	8♌28	17° 0	6°37	16° 0	15°29	25°23	19° 7	2°33	19°10	29° 3	28°48	27°40	n.a.	S 18
S 19	15 31 30	23°18'56	20°39	17°59	7°34	16°35	15°43	25°24	19° 9	2°32	19°10	29° 2	28°45	27°47	n.a.	S 19
M20	15 35 26	24°16'06	2♍37	18°54	8°32	17°10	15°57	25°26	19°11	2°30	19°10	29° 2	28°42	27°54	n.a.	M20
T 21	15 39 23	25°13'14	14°28	19°46	9°30	17°46	16°11	25°28	19°13	2°29	19°10	29° 2	28°39	28° 0	n.a.	T 21
W22	15 43 19	26°10'22	26°16	20°35	10°28	18°21	16°24	25°30	19°15	2°27	19°10	29° 0	28°36	28° 7	n.a.	W22
T 23	15 47 16	27° 7'30	8♎ 7	21°19	11°27	18°56	16°38	25°32	19°16	2°26	19°10	28°55	28°32	28°13	n.a.	T 23
F 24	15 51 12	28° 4'37	20° 4	22° 0	12°26	19°32	16°52	25°34	19°18	2°25	19°R10	28°48	28°29	28°20	n.a.	F 24
S 25	15 55 9	29° 1'43	2♏12	22°37	13°25	20° 8	17° 5	25°37	19°20	2°23	19°10	28°38	28°26	28°27	n.a.	S 25
S 26	15 59 5	29°58'49	14°31	23° 9	14°25	20°43	17°19	25°39	19°21	2°22	19°10	28°27	28°23	28°33	n.a.	S 26
M27	16 3 2	0♊55'55	27° 4	23°38	15°25	21°19	17°33	25°41	19°23	2°20	19°10	28°14	28°20	28°40	n.a.	M27
T 28	16 6 59	1°53'01	9♐50	24° 2	16°26	21°55	17°46	25°44	19°24	2°19	19°10	28° 1	28°16	28°47	n.a.	T 28
W29	16 10 55	2°50'07	22°49	24°22	17°26	22°30	18° 0	25°47	19°26	2°18	19°10	27°49	28°13	28°53	n.a.	W29
T 30	16 14 52	3°47'13	6♑ 0	24°37	18°27	23° 6	18°14	25°49	19°27	2°16	19°10	27°40	28°10	29° 0	n.a.	T 30
F 31	16 18 48	4♊44'18	19♑23	24♊48	19♈29	23♋42	18♉27	25♌52	19♓29	2♏15	19♒10	27♒33	28♒ 7	29♍ 7	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	13n43	27s32	4s56	20n36	2n 3	4s 7	0s53	25n11	1n37	14n49	0s42	15n23	2n13	5s17	0s44	10s49	1n58	28s55	14s27	11s24	11s42	0s23			n.a.
T 2	14 2	28 13	4 34	21 8	2 7	3 54	0 59	25 9	1 36	14 53	0 42	15 22	2 13	5 16	0 44	10 48	1 58	28 55	14 27	11 27	11 44	0 26			n.a.
F 3	14 21	27 20	3 57	21 37	2 10	3 40	1 5	25 6	1 36	14 58	0 42	15 22	2 13	5 15	0 44	10 47	1 58	28 55	14 27	11 29	11 45	0 30			n.a.
S 4	14 40	24 54	3 7	22 4	2 13	3 26	1 11	25 4	1 35	15 2	0 41	15 22	2 13	5 14	0 44	10 47	1 58	28 56	14 28	11 30	11 46	0 33			n.a.
S 5	14 58	21 1	2 5	22 28	2 14	3 11	1 16	25 1	1 35	15 7	0 41	15 22	2 13	5 13	0 44	10 46	1 58	28 56	14 28	11 31	11 47	0 36			n.a.
M 6	15 16	15 54	0 55	22 50	2 15	2 56	1 22	24 59	1 34	15 11	0 41	15 21	2 12	5 12	0 44	10 46	1 58	28 56	14 28	11 31	11 48	0 40			n.a.
T 7	15 34	9 52	0n20	23 10	2 16	2 40	1 27	24 56	1 34	15 15	0 41	15 21	2 12	5 11	0 44	10 45	1 58	28 56	14 29	11 31	11 49	0 43			n.a.
W 8	15 52	3 12	1 35	23 28	2 15	2 24	1 32	24 52	1 33	15 19	0 41	15 21	2 12	5 10	0 44	10 45	1 58	28 56	14 29	11 31	11 50	0 47			n.a.
T 9	16 10	3n43	2 44	23 43	2 14	2 7	1 37	24 49	1 33	15 24	0 41	15 20	2 12	5 9	0 44	10 44	1 58	28 57	14 30	11 32	11 51	0 50			n.a.
F 10	16 27	10 30	3 44	23 56	2 12	1 50	1 41	24 46	1 32	15 28	0 41	15 20	2 12	5 8	0 44	10 44	1 58	28 57	14 30	11 34	11 53	0 53			n.a.
S 11	16 44	16 43	4 28	24 7	2 9	1 33	1 46	24 42	1 32	15 32	0 41	15 19	2 12	5 7	0 44	10 43	1 58	28 57	14 30	11 37	11 54	0 57			n.a.
S 12	17 0	21 55	4 54	24 16	2 6	1 15	1 50	24 38	1 32	15 37	0 41	15 19	2 11	5 7	0 44	10 43	1 58	28 57	14 31	11 41	11 55	1 0			n.a.
M13	17 17	25 42	5 1	24 24	2 1	0 57	1 54	24 35	1 31	15 41	0 41	15 18	2 11	5 6	0 44	10 42	1 58	28 58	14 31	11 45	11 56	1 4			n.a.
T 14	17 33	27 46	4 49	24 29	1 56	0 38	1 58	24 31	1 31	15 45	0 41	15 18	2 11	5 5	0 44	10 42	1 58	28 58	14 31	11 49	11 57	1 7			n.a.
W15	17 49	28 3	4 20	24 32	1 50	0 19	2 1	24 26	1 30	15 49	0 40	15 17	2 11	5 4	0 44	10 41	1 58	28 58	14 32	11 52	11 58	1 10			n.a.
T 16	18 4	26 41	3 38	24 34	1 44	0 0	2 5	24 22	1 30	15 53	0 40	15 17	2 11	5 3	0 44	10 41	1 58	28 58	14 32	11 54	11 59	1 14			n.a.
F 17	18 19	23 54	2 46	24 34	1 37	0n19	2 8	24 17	1 29	15 57	0 40	15 16	2 10	5 3	0 44	10 40	1 58	28 59	14 32	11 56	12 0	1 17			n.a.
S 18	18 34	20 4	1 47	24 33	1 29	0 39	2 11	24 13	1 29	16 2	0 40	15 15	2 10	5 2	0 44	10 40	1 58	28 59	14 33	11 56	12 2	1 21			n.a.
S 19	18 49	15 29	0 44	24 30	1 20	0 59	2 14	24 8	1 28	16 6	0 40	15 14	2 10	5 1	0 44	10 39	1 58	28 59	14 33	11 57	12 3	1 24			n.a.
M20	19 3	10 22	0s19	24 26	1 11	1 20	2 17	24 3	1 28	16 10	0 40	15 14	2 10	5 0	0 44	10 39	1 58	29 0	14 34	11 57	12 4	1 27			n.a.
T 21	19 17	4 57	1 21	24 20	1 1	1 40	2 20	23 58	1 27	16 14	0 40	15 13	2 10	5 0	0 44	10 38	1 58	29 0	14 34	11 57	12 5	1 31			n.a.
W22	19 31	0s37	2 19	24 13	0 51	2 1	2 22	23 53	1 27	16 18	0 40	15 12	2 10	4 59	0 44	10 38	1 58	29 0	14 34	11 57	12 6	1 34			n.a.
T 23	19 45	6 10	3 11	24 5	0 39	2 22	2 24	23 47	1 26	16 22	0 40	15 11	2 9	4 58	0 44	10 37	1 58	29 1	14 35	11 59	12 7	1 37			n.a.
F 24	19 58	11 33	3 55	23 56	0 27	2 43	2 27	23 41	1 26	16 26	0 40	15 10	2 9	4 58	0 44	10 37	1 58	29 1	14 35	12 2	12 8	1 41			n.a.
S 25	20 10	16 35	4 29	23 46	0 15	3 5	2 29	23 36	1 25	16 30	0 40	15 9	2 9	4 57	0 44	10 36	1 58	29 1	14 35	12 5	12 9	1 44			n.a.
S 26	20 23	21 1	4 51	23 34	0 2	3 26	2 30	23 30	1 25	16 34	0 40	15 8	2 9	4 56	0 44	10 36	1 57	29 2	14 36	12 9	12 10	1 48			n.a.
M27	20 35	24 35	5 0	23 22	0s12	3 48	2 32	23 24	1 24	16 38	0 40	15 7	2 9	4 56	0 44	10 35	1 57	29 2	14 36	12 14	12 12	1 51			n.a.
T 28	20 47	27 1	4 54	23 9	0 26	4 10	2 34	23 17	1 24	16 42	0 40	15 6	2 9	4 55	0 44	10 35	1 57	29 2	14 37	12 18	12 13	1 54			n.a.
W29	20 58	28 3	4 32	22 56	0 40	4 32	2 35	23 11	1 23	16 46	0 39	15 5	2 8	4 55	0 45	10 35	1 57	29 3	14 37	12 22	12 14	1 58			n.a.
T 30	21 9	27 31	3 56	22 41	0 55	4 55	2 36	23 4	1 23	16 50	0 39	15 4	2 8	4 54	0 45	10 34	1 57	29 3	14 37	12 25	12 15	2 1			n.a.
F 31	21n20	25s23	3s 7	22n27	1s10	5n17	2s37	22n58	1n22	16n53	0s39	15n 3	2n 8	4s54	0s45	10s34	1n57	29s 3	14s38	12s28	12s16	2s 4			n.a.

Julian Day Number = 1659085.5, Delta T = 03h26m45s
Ecliptic obliquity = 23°43'05, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'26, Lahiri = - 6°18'26 Julian Calendar 1 May 171 BCE == Greg. Calendar 28 Apr. 171 BCE

The year -170 astronomical counting style corresponds to year 171 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 171 BCE
geocentric

JUNE 171 BCE (-170) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 22 45	5♊41'24	2♒56	24♊55	20♈30	24♋18	18♉41	25♌55	19♓30	2°R14	19°R10	27°R29	28♒ 4	29♍13	n.a.	S 1
S 2	16 26 41	6°38'30	16°38	24°R56	21°32	24°54	18°54	25°58	19°31	2♏12	19♒ 9	27♒28	28° 1	29°20	n.a.	S 2
M 3	16 30 38	7°35'37	0♓31	24°53	22°34	25°30	19° 8	26° 1	19°33	2°11	19° 9	27°27	27°57	29°27	n.a.	M 3
T 4	16 34 35	8°32'44	14°34	24°45	23°37	26° 6	19°21	26° 4	19°34	2°10	19° 9	27°27	27°54	29°33	n.a.	T 4
W 5	16 38 31	9°29'51	28°46	24°33	24°40	26°42	19°34	26° 8	19°35	2° 9	19° 9	27°26	27°51	29°40	n.a.	W 5
T 6	16 42 28	10°26'58	13♈ 7	24°17	25°43	27°18	19°48	26°11	19°36	2° 8	19° 8	27°23	27°48	29°47	n.a.	T 6
F 7	16 46 24	11°24'06	27°32	23°56	26°46	27°55	20° 1	26°15	19°37	2° 6	19° 8	27°17	27°45	29°53	n.a.	F 7
S 8	16 50 21	12°21'15	11♉59	23°32	27°49	28°31	20°14	26°18	19°38	2° 5	19° 8	27° 9	27°42	0♎ 0	n.a.	S 8
S 9	16 54 17	13°18'24	26°20	23° 3	28°53	29° 7	20°28	26°22	19°39	2° 4	19° 7	26°59	27°38	0° 7	n.a.	S 9
M10	16 58 14	14°15'33	10♊30	22°32	29°57	29°44	20°41	26°25	19°40	2° 3	19° 7	26°48	27°35	0°14	n.a.	M10
T 11	17 2 10	15°12'43	24°24	21°58	1♉ 1	0♌20	20°54	26°29	19°41	2° 2	19° 7	26°38	27°32	0°20	n.a.	T 11
W12	17 6 7	16° 9'53	7♋58	21°22	2° 5	0°57	21° 7	26°33	19°42	2° 1	19° 6	26°28	27°29	0°27	n.a.	W12
T 13	17 10 4	17° 7'03	21° 9	20°44	3°10	1°33	21°20	26°37	19°43	2° 0	19° 6	26°21	27°26	0°34	n.a.	T 13
F 14	17 14 0	18° 4'13	3♌58	20° 5	4°14	2°10	21°33	26°41	19°44	1°59	19° 5	26°17	27°22	0°40	n.a.	F 14
S 15	17 17 57	19° 1'24	16°26	19°25	5°19	2°47	21°46	26°45	19°44	1°58	19° 5	26°15	27°19	0°47	n.a.	S 15
S 16	17 21 53	19°58'35	28°37	18°46	6°24	3°24	21°59	26°49	19°45	1°57	19° 4	26°D14	27°16	0°54	n.a.	S 16
M17	17 25 50	20°55'46	10♍36	18° 8	7°30	4° 0	22°12	26°54	19°46	1°56	19° 4	26°15	27°13	1° 0	n.a.	M17
T 18	17 29 46	21°52'57	22°28	17°31	8°35	4°37	22°25	26°58	19°46	1°55	19° 3	26°R15	27°10	1° 7	n.a.	T 18
W19	17 33 43	22°50'09	4♎18	16°57	9°41	5°14	22°38	27° 2	19°47	1°54	19° 3	26°14	27° 7	1°14	n.a.	W19
T 20	17 37 39	23°47'20	16°11	16°26	10°47	5°51	22°51	27° 7	19°47	1°53	19° 2	26°12	27° 3	1°20	n.a.	T 20
F 21	17 41 36	24°44'33	28°12	15°58	11°52	6°28	23° 4	27°11	19°48	1°52	19° 1	26° 7	27° 0	1°27	n.a.	F 21
S 22	17 45 33	25°41'45	10♏25	15°35	12°59	7° 5	23°16	27°16	19°48	1°52	19° 1	26° 0	26°57	1°34	n.a.	S 22
S 23	17 49 29	26°38'59	22°54	15°16	14° 5	7°42	23°29	27°21	19°48	1°51	19° 0	25°52	26°54	1°40	n.a.	S 23
M24	17 53 26	27°36'13	5♐39	15° 1	15°11	8°19	23°41	27°26	19°49	1°50	18°59	25°42	26°51	1°47	n.a.	M24
T 25	17 57 22	28°33'27	18°42	14°53	16°18	8°56	23°54	27°30	19°49	1°49	18°59	25°32	26°48	1°54	n.a.	T 25
W26	18 1 19	29°30'43	2♑ 1	14°D49	17°25	9°34	24° 6	27°35	19°49	1°49	18°58	25°23	26°44	2° 0	n.a.	W26
T 27	18 5 15	0♋27'59	15°35	14°52	18°32	10°11	24°19	27°40	19°49	1°48	18°57	25°16	26°41	2° 7	n.a.	T 27
F 28	18 9 12	1°25'16	29°21	15° 1	19°39	10°48	24°31	27°45	19°49	1°47	18°57	25°11	26°38	2°14	n.a.	F 28
S 29	18 13 9	2°22'34	13♒16	15°15	20°46	11°26	24°43	27°50	19°R49	1°47	18°56	25° 8	26°35	2°20	n.a.	S 29
S 30	18 17 5	3♋19'53	27♒18	15♊36	21♉53	12♌ 3	24♉56	27♌56	19♓49	1♏46	18♒55	25°D 8	26♒32	2♎27	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n30	21s46	2s 6	22n11	1s26	5n40	2s38	22n51	1n22	16n57	0s39	15n 2	2n 8	4s53	0s45	10s33	1n57	29s 4	14s38	12s29	12s17	2s 8		n.a.
S 2	21 40	16 56	0 57	21 56	1 42	6 2	2 39	22 44	1 21	17 1	0 39	15 1	2 8	4 53	0 45	10 33	1 57	29 4	14 38	12 30	12 18	2 11		n.a.
M 3	21 50	11 10	0n16	21 40	1 57	6 25	2 40	22 37	1 21	17 5	0 39	14 59	2 8	4 52	0 45	10 32	1 57	29 5	14 39	12 30	12 19	2 15		n.a.
T 4	21 59	4 46	1 29	21 24	2 13	6 47	2 40	22 29	1 20	17 9	0 39	14 58	2 7	4 52	0 45	10 32	1 57	29 5	14 39	12 30	12 20	2 18		n.a.
W 5	22 8	1n55	2 38	21 8	2 29	7 10	2 41	22 22	1 20	17 12	0 39	14 57	2 7	4 51	0 45	10 32	1 57	29 6	14 39	12 30	12 22	2 21		n.a.
T 6	22 16	8 33	3 37	20 52	2 44	7 33	2 41	22 14	1 19	17 16	0 39	14 55	2 7	4 51	0 45	10 31	1 57	29 6	14 40	12 31	12 23	2 25		n.a.
F 7	22 25	14 47	4 22	20 36	2 59	7 56	2 41	22 6	1 19	17 20	0 39	14 54	2 7	4 50	0 45	10 31	1 57	29 6	14 40	12 33	12 24	2 28		n.a.
S 8	22 32	20 13	4 51	20 20	3 14	8 19	2 41	21 59	1 18	17 23	0 39	14 53	2 7	4 50	0 45	10 31	1 57	29 7	14 40	12 36	12 25	2 31		n.a.
S 9	22 40	24 26	5 2	20 5	3 27	8 41	2 41	21 50	1 18	17 27	0 39	14 51	2 7	4 50	0 45	10 30	1 57	29 7	14 41	12 40	12 26	2 35		n.a.
M10	22 47	27 7	4 53	19 50	3 40	9 4	2 41	21 42	1 17	17 30	0 39	14 50	2 6	4 49	0 45	10 30	1 57	29 8	14 41	12 43	12 27	2 38		n.a.
T 11	22 53	28 3	4 27	19 36	3 52	9 27	2 41	21 34	1 17	17 34	0 39	14 48	2 6	4 49	0 45	10 30	1 57	29 8	14 41	12 47	12 28	2 42		n.a.
W12	22 59	27 15	3 47	19 23	4 3	9 50	2 41	21 25	1 16	17 38	0 39	14 47	2 6	4 49	0 45	10 29	1 57	29 9	14 42	12 50	12 29	2 45		n.a.
T 13	23 5	24 55	2 55	19 11	4 13	10 12	2 40	21 17	1 16	17 41	0 39	14 45	2 6	4 48	0 45	10 29	1 57	29 9	14 42	12 53	12 30	2 48		n.a.
F 14	23 11	21 22	1 56	19 0	4 21	10 35	2 39	21 8	1 15	17 45	0 39	14 44	2 6	4 48	0 45	10 29	1 57	29 10	14 43	12 54	12 31	2 52		n.a.
S 15	23 15	16 55	0 52	18 50	4 28	10 57	2 39	20 59	1 15	17 48	0 39	14 42	2 6	4 48	0 45	10 28	1 57	29 10	14 43	12 55	12 33	2 55		n.a.
S 16	23 20	11 53	0s13	18 42	4 33	11 20	2 38	20 50	1 14	17 51	0 38	14 41	2 6	4 48	0 45	10 28	1 57	29 11	14 43	12 55	12 34	2 58		n.a.
M17	23 24	6 30	1 16	18 35	4 37	11 42	2 37	20 40	1 14	17 55	0 38	14 39	2 5	4 47	0 45	10 28	1 56	29 11	14 44	12 55	12 35	3 2		n.a.
T 18	23 28	0 57	2 15	18 30	4 39	12 4	2 36	20 31	1 13	17 58	0 38	14 38	2 5	4 47	0 45	10 28	1 56	29 12	14 44	12 55	12 36	3 5		n.a.
W19	23 31	4s36	3 9	18 26	4 39	12 26	2 35	20 21	1 13	18 2	0 38	14 36	2 5	4 47	0 45	10 27	1 56	29 12	14 44	12 55	12 37	3 8		n.a.
T 20	23 34	10 2	3 54	18 25	4 38	12 48	2 33	20 12	1 12	18 5	0 38	14 34	2 5	4 47	0 45	10 27	1 56	29 13	14 44	12 56	12 38	3 12		n.a.
F 21	23 37	15 9	4 30	18 25	4 35	13 10	2 32	20 2	1 12	18 8	0 38	14 32	2 5	4 47	0 45	10 27	1 56	29 13	14 45	12 57	12 39	3 15		n.a.
S 22	23 39	19 45	4 53	18 26	4 31	13 31	2 31	19 52	1 11	18 11	0 38	14 31	2 5	4 47	0 45	10 27	1 56	29 14	14 45	13 0	12 40	3 18		n.a.
S 23	23 40	23 36	5 4	18 30	4 25	13 53	2 29	19 42	1 11	18 15	0 38	14 29	2 5	4 47	0 45	10 26	1 56	29 14	14 45	13 3	12 41	3 22		n.a.
M24	23 42	26 25	5 0	18 36	4 18	14 14	2 28	19 32	1 10	18 18	0 38	14 27	2 5	4 47	0 45	10 26	1 56	29 15	14 46	13 6	12 42	3 25		n.a.
T 25	23 43	27 53	4 40	18 43	4 9	14 35	2 26	19 21	1 10	18 21	0 38	14 25	2 4	4 46	0 45	10 26	1 56	29 15	14 46	13 9	12 44	3 28		n.a.
W26	23 43	27 47	4 5	18 52	4 0	14 55	2 24	19 11	1 9	18 24	0 38	14 23	2 4	4 46	0 45	10 26	1 56	29 16	14 46	13 13	12 45	3 32		n.a.
T 27	23 43	26 2	3 16	19 3	3 49	15 16	2 22	19 0	1 9	18 27	0 38	14 22	2 4	4 46	0 46	10 26	1 56	29 16	14 47	13 15	12 46	3 35		n.a.
F 28	23 43	22 42	2 14	19 16	3 38	15 36	2 20	18 49	1 8	18 30	0 38	14 20	2 4	4 46	0 46	10 25	1 56	29 17	14 47	13 17	12 47	3 39		n.a.
S 29	23 42	18 2	1 3	19 30	3 25	15 56	2 18	18 38	1 8	18 33	0 38	14 18	2 4	4 46	0 46	10 25	1 56	29 17	14 47	13 18	12 48	3 42		n.a.
S 30	23n41	12s22	0n12	19n45	3s12	16n15	2s16	18n27	1n 7	18n36	0s38	14n16	2n 4	4s47	0s46	10s25	1n56	29s18	14s47	13s18	12s49	3s45		n.a.

Julian Day Number = 1659116.5, Delta T = 03h26m44s
Ecliptic obliquity = 23°43'04, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'22, Lahiri = - 6°18'22 Julian Calendar 1 June 171 BCE == Greg. Calendar 29 May 171 BCE

The year -170 astronomical counting style corresponds to year 171 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 171 BCE
geocentric

JULY 171 BCE (-170) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 21 2	4♋17'13	11♓25	16♊ 3	23♉ 1	12♌41	25♉ 8	28♌ 1	19°R49	1°R46	18°R54	25♒ 8	26♒28	2♎34	n.a.	M 1
T 2	18 24 58	5°14'35	25°34	16°36	24° 9	13°18	25°20	28° 6	19♓49	1♏45	18♒53	25° 9	26°25	2°40	n.a.	T 2
W 3	18 28 55	6°11'58	9♈44	17°16	25°16	13°56	25°32	28°12	19°49	1°45	18°52	25°R10	26°22	2°47	n.a.	W 3
T 4	18 32 51	7° 9'22	23°53	18° 1	26°24	14°33	25°44	28°17	19°49	1°44	18°52	25° 8	26°19	2°54	n.a.	T 4
F 5	18 36 48	8° 6'47	8♉ 1	18°53	27°33	15°11	25°56	28°23	19°48	1°44	18°51	25° 5	26°16	3° 0	n.a.	F 5
S 6	18 40 44	9° 4'14	22° 4	19°51	28°41	15°49	26° 7	28°28	19°48	1°43	18°50	25° 0	26°13	3° 7	n.a.	S 6
S 7	18 44 41	10° 1'43	5♊59	20°54	29°49	16°27	26°19	28°34	19°48	1°43	18°49	24°54	26° 9	3°14	n.a.	S 7
M 8	18 48 38	10°59'12	19°43	22° 3	0♊58	17° 5	26°31	28°39	19°47	1°43	18°48	24°47	26° 6	3°20	n.a.	M 8
T 9	18 52 34	11°56'43	3♋13	23°18	2° 6	17°42	26°42	28°45	19°47	1°42	18°47	24°40	26° 3	3°27	n.a.	T 9
W10	18 56 31	12°54'16	16°27	24°38	3°15	18°20	26°54	28°51	19°46	1°42	18°46	24°34	26° 0	3°34	n.a.	W10
T 11	19 0 27	13°51'49	29°23	26° 3	4°24	18°58	27° 5	28°57	19°46	1°42	18°45	24°29	25°57	3°40	n.a.	T 11
F 12	19 4 24	14°49'24	12♌ 2	27°33	5°33	19°37	27°17	29° 3	19°45	1°42	18°44	24°27	25°54	3°47	n.a.	F 12
S 13	19 8 20	15°46'59	24°25	29° 7	6°42	20°15	27°28	29° 9	19°44	1°42	18°43	24°D26	25°50	3°54	n.a.	S 13
S 14	19 12 17	16°44'36	6♍33	0♋46	7°51	20°53	27°39	29°15	19°44	1°41	18°42	24°26	25°47	4° 0	n.a.	S 14
M15	19 16 13	17°42'14	18°31	2°28	9° 0	21°31	27°50	29°21	19°43	1°41	18°41	24°28	25°44	4° 7	n.a.	M15
T 16	19 20 10	18°39'53	0♎22	4°15	10°10	22° 9	28° 1	29°27	19°42	1°41	18°40	24°30	25°41	4°14	n.a.	T 16
W17	19 24 7	19°37'33	12°12	6° 4	11°19	22°48	28°12	29°33	19°41	1°41	18°39	24°31	25°38	4°20	n.a.	W17
T 18	19 28 3	20°35'15	24° 6	7°56	12°29	23°26	28°23	29°39	19°40	1°D41	18°38	24°R31	25°34	4°27	n.a.	T 18
F 19	19 32 0	21°32'57	6♏ 8	9°50	13°38	24° 4	28°34	29°46	19°40	1°41	18°37	24°30	25°31	4°34	n.a.	F 19
S 20	19 35 56	22°30'41	18°23	11°46	14°48	24°43	28°44	29°52	19°39	1°41	18°36	24°27	25°28	4°40	n.a.	S 20
S 21	19 39 53	23°28'26	0♐54	13°43	15°58	25°21	28°55	29°58	19°38	1°41	18°35	24°24	25°25	4°47	n.a.	S 21
M22	19 43 49	24°26'13	13°46	15°42	17° 8	26° 0	29° 5	0♍ 5	19°37	1°41	18°34	24°19	25°22	4°54	n.a.	M22
T 23	19 47 46	25°24'01	26°59	17°42	18°18	26°39	29°16	0°11	19°35	1°42	18°33	24°15	25°19	5° 0	n.a.	T 23
W24	19 51 42	26°21'50	10♑34	19°42	19°29	27°17	29°26	0°18	19°34	1°42	18°31	24°11	25°15	5° 7	n.a.	W24
T 25	19 55 39	27°19'41	24°28	21°42	20°39	27°56	29°36	0°24	19°33	1°42	18°30	24° 7	25°12	5°14	n.a.	T 25
F 26	19 59 36	28°17'33	8♒38	23°42	21°49	28°35	29°46	0°31	19°32	1°42	18°29	24° 5	25° 9	5°21	n.a.	F 26
S 27	20 3 32	29°15'28	22°59	25°42	23° 0	29°14	29°56	0°37	19°31	1°43	18°28	24°D 5	25° 6	5°27	n.a.	S 27
S 28	20 7 29	0♌13'23	7♓27	27°41	24°11	29°53	0♊ 6	0°44	19°29	1°43	18°27	24° 5	25° 3	5°34	n.a.	S 28
M29	20 11 25	1°11'21	21°56	29°40	25°21	0♍31	0°16	0°51	19°28	1°43	18°26	24° 6	25° 0	5°41	n.a.	M29
T 30	20 15 22	2° 9'20	6♈22	1♌38	26°32	1°10	0°25	0°57	19°27	1°44	18°25	24° 8	24°56	5°47	n.a.	T 30
W31	20 19 18	3♌ 7'22	20♈42	3♌35	27♊43	1♍50	0♊35	1♍ 4	19♓25	1♏44	18♒23	24♒ 9	24♒53	5♎54	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	23n39	6s 2	1n27	20n 1	2s59	16n35	2s14	18n16	1n 7	18n39	0s38	14n14	2n 4	4s47	0s46	10s25	1n56	29s18	14s48	13s17	12s50	3s49			n.a.
T 2	23 37	0n36	2 36	20 19	2 44	16 54	2 12	18 5	1 6	18 42	0 38	14 12	2 4	4 47	0 46	10 25	1 56	29 19	14 48	13 17	12 51	3 52			n.a.
W 3	23 34	7 13	3 37	20 37	2 30	17 13	2 10	17 53	1 6	18 45	0 38	14 10	2 3	4 47	0 46	10 25	1 56	29 19	14 48	13 17	12 52	3 55			n.a.
T 4	23 31	13 27	4 24	20 56	2 15	17 31	2 7	17 42	1 5	18 48	0 38	14 8	2 3	4 47	0 46	10 25	1 56	29 20	14 49	13 17	12 53	3 59			n.a.
F 5	23 28	18 59	4 55	21 15	2 0	17 49	2 5	17 30	1 5	18 51	0 38	14 6	2 3	4 47	0 46	10 25	1 55	29 20	14 49	13 19	12 55	4 2			n.a.
S 6	23 24	23 26	5 8	21 35	1 45	18 7	2 2	17 18	1 4	18 54	0 38	14 4	2 3	4 47	0 46	10 25	1 55	29 21	14 49	13 20	12 56	4 5			n.a.
S 7	23 20	26 31	5 2	21 54	1 30	18 24	2 0	17 6	1 4	18 57	0 38	14 2	2 3	4 47	0 46	10 24	1 55	29 21	14 49	13 22	12 57	4 9			n.a.
M 8	23 15	27 58	4 40	22 14	1 15	18 41	1 57	16 54	1 3	18 59	0 38	14 0	2 3	4 48	0 46	10 24	1 55	29 22	14 50	13 25	12 58	4 12			n.a.
T 9	23 10	27 42	4 2	22 32	1 0	18 57	1 55	16 42	1 3	19 2	0 38	13 57	2 3	4 48	0 46	10 24	1 55	29 23	14 50	13 27	12 59	4 15			n.a.
W10	23 5	25 51	3 11	22 51	0 46	19 13	1 52	16 30	1 2	19 5	0 38	13 55	2 3	4 48	0 46	10 24	1 55	29 23	14 50	13 29	13 0	4 19			n.a.
T 11	22 59	22 40	2 12	23 8	0 32	19 29	1 49	16 17	1 2	19 8	0 38	13 53	2 3	4 48	0 46	10 24	1 55	29 24	14 50	13 31	13 1	4 22			n.a.
F 12	22 53	18 27	1 7	23 24	0 18	19 44	1 46	16 4	1 1	19 10	0 38	13 51	2 3	4 48	0 46	10 24	1 55	29 24	14 51	13 32	13 2	4 25			n.a.
S 13	22 46	13 32	0 0	23 38	0 5	19 59	1 44	15 52	1 1	19 13	0 38	13 49	2 2	4 49	0 46	10 24	1 55	29 25	14 51	13 32	13 3	4 28			n.a.
S 14	22 39	8 12	1s 6	23 51	0n 8	20 13	1 41	15 39	1 0	19 15	0 38	13 47	2 2	4 49	0 46	10 24	1 55	29 25	14 51	13 32	13 4	4 32			n.a.
M15	22 32	2 39	2 8	24 2	0 20	20 27	1 38	15 26	1 0	19 18	0 38	13 44	2 2	4 49	0 46	10 24	1 55	29 26	14 51	13 31	13 5	4 35			n.a.
T 16	22 24	2s57	3 3	24 11	0 32	20 40	1 35	15 13	0 59	19 20	0 38	13 42	2 2	4 50	0 46	10 24	1 55	29 26	14 51	13 31	13 6	4 38			n.a.
W17	22 16	8 25	3 51	24 17	0 42	20 53	1 32	15 0	0 59	19 23	0 37	13 40	2 2	4 50	0 46	10 24	1 55	29 27	14 52	13 30	13 8	4 42			n.a.
T 18	22 7	13 37	4 30	24 21	0 52	21 5	1 29	14 47	0 58	19 25	0 37	13 37	2 2	4 50	0 46	10 24	1 55	29 27	14 52	13 30	13 9	4 45			n.a.
F 19	21 58	18 22	4 57	24 22	1 1	21 17	1 26	14 33	0 57	19 28	0 37	13 35	2 2	4 51	0 46	10 25	1 55	29 28	14 52	13 30	13 10	4 48			n.a.
S 20	21 49	22 28	5 11	24 21	1 10	21 28	1 23	14 20	0 57	19 30	0 37	13 33	2 2	4 51	0 46	10 25	1 54	29 28	14 52	13 31	13 11	4 52			n.a.
S 21	21 39	25 38	5 11	24 17	1 17	21 39	1 20	14 6	0 56	19 32	0 37	13 31	2 2	4 52	0 46	10 25	1 54	29 29	14 52	13 33	13 12	4 55			n.a.
M22	21 29	27 36	4 55	24 10	1 24	21 49	1 16	13 52	0 56	19 35	0 37	13 28	2 2	4 52	0 46	10 25	1 54	29 30	14 53	13 34	13 13	4 58			n.a.
T 23	21 18	28 4	4 23	24 0	1 29	21 59	1 13	13 39	0 55	19 37	0 37	13 26	2 2	4 53	0 46	10 25	1 54	29 30	14 53	13 36	13 14	5 2			n.a.
W24	21 7	26 53	3 36	23 48	1 34	22 8	1 10	13 25	0 55	19 39	0 37	13 23	2 2	4 53	0 46	10 25	1 54	29 31	14 53	13 37	13 15	5 5			n.a.
T 25	20 56	24 2	2 35	23 34	1 38	22 16	1 7	13 11	0 54	19 42	0 37	13 21	2 2	4 54	0 46	10 25	1 54	29 31	14 53	13 38	13 16	5 8			n.a.
F 26	20 45	19 40	1 24	23 17	1 42	22 24	1 4	12 57	0 54	19 44	0 37	13 19	2 1	4 54	0 46	10 25	1 54	29 32	14 53	13 39	13 17	5 12			n.a.
S 27	20 33	14 6	0 6	22 57	1 44	22 32	1 0	12 42	0 53	19 46	0 37	13 16	2 1	4 55	0 47	10 25	1 54	29 32	14 53	13 39	13 18	5 15			n.a.
S 28	20 20	7 45	1n13	22 36	1 46	22 38	0 57	12 28	0 53	19 48	0 37	13 14	2 1	4 55	0 47	10 26	1 54	29 33	14 53	13 39	13 19	5 18			n.a.
M29	20 8	0 59	2 27	22 12	1 47	22 44	0 54	12 14	0 52	19 50	0 37	13 11	2 1	4 56	0 47	10 26	1 54	29 33	14 54	13 38	13 21	5 21			n.a.
T 30	19 55	5n48	3 32	21 46	1 47	22 50	0 51	11 59	0 52	19 52	0 37	13 9	2 1	4 56	0 47	10 26	1 54	29 34	14 54	13 38	13 22	5 25			n.a.
W31	19n41	12n14	4n23	21n19	1n47	22n55	0s47	11n44	0n51	19n54	0s37	13n 6	2n 1	4s57	0s47	10s26	1n54	29s34	14s54	13s38	13s23	5s28			n.a.

Julian Day Number = 1659146.5, Delta T = 03h26m43s
Ecliptic obliquity = 23°43'04, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'18, Lahiri = - 6°18'18 Julian Calendar 1 July 171 BCE == Greg. Calendar 28 June 171 BCE

The year -170 astronomical counting style corresponds to year 171 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 171 BCE
geocentric

AUGUST 171 BCE (-170) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 23 15	4♌ 5'26	4♉51	5♌31	28♊54	2♍29	0♊44	1♍11	19°R24	1♏44	18°R22	24°R 9	24♒50	6♎ 1	n.a.	T 1
F 2	20 27 11	5° 3'31	18°50	7°26	0♋ 5	3° 8	0°53	1°18	19♓22	1°45	18♒21	24♒ 8	24°47	6° 7	n.a.	F 2
S 3	20 31 8	6° 1'39	2♊36	9°20	1°16	3°47	1° 3	1°25	19°21	1°45	18°20	24° 7	24°44	6°14	n.a.	S 3
S 4	20 35 5	6°59'50	16° 9	11°13	2°28	4°26	1°12	1°32	19°19	1°46	18°19	24° 5	24°40	6°21	n.a.	S 4
M 5	20 39 1	7°58'02	29°28	13° 4	3°39	5° 6	1°21	1°38	19°17	1°46	18°17	24° 3	24°37	6°27	n.a.	M 5
T 6	20 42 58	8°56'16	12♋33	14°55	4°51	5°45	1°29	1°45	19°16	1°47	18°16	24° 1	24°34	6°34	n.a.	T 6
W 7	20 46 54	9°54'32	25°25	16°44	6° 2	6°24	1°38	1°52	19°14	1°48	18°15	23°59	24°31	6°41	n.a.	W 7
T 8	20 50 51	10°52'50	8♌ 2	18°32	7°14	7° 4	1°47	1°59	19°12	1°48	18°14	23°58	24°28	6°47	n.a.	T 8
F 9	20 54 47	11°51'10	20°27	20°19	8°26	7°43	1°55	2° 6	19°11	1°49	18°12	23°D57	24°25	6°54	n.a.	F 9
S 10	20 58 44	12°49'32	2♍39	22° 5	9°38	8°23	2° 3	2°13	19° 9	1°50	18°11	23°57	24°21	7° 1	n.a.	S 10
S 11	21 2 40	13°47'55	14°42	23°50	10°49	9° 3	2°11	2°21	19° 7	1°51	18°10	23°58	24°18	7° 7	n.a.	S 11
M12	21 6 37	14°46'20	26°37	25°33	12° 1	9°42	2°19	2°28	19° 5	1°51	18° 9	23°59	24°15	7°14	n.a.	M12
T 13	21 10 34	15°44'48	8♎27	27°16	13°13	10°22	2°27	2°35	19° 3	1°52	18° 8	24° 0	24°12	7°21	n.a.	T 13
W14	21 14 30	16°43'16	20°17	28°57	14°26	11° 2	2°35	2°42	19° 1	1°53	18° 6	24° 1	24° 9	7°27	n.a.	W14
T 15	21 18 27	17°41'47	2♏ 9	0♍37	15°38	11°42	2°43	2°49	18°59	1°54	18° 5	24° 1	24° 6	7°34	n.a.	T 15
F 16	21 22 23	18°40'19	14°10	2°16	16°50	12°21	2°50	2°56	18°57	1°55	18° 4	24°R 1	24° 2	7°41	n.a.	F 16
S 17	21 26 20	19°38'54	26°22	3°54	18° 3	13° 1	2°58	3° 3	18°55	1°56	18° 3	24° 1	23°59	7°47	n.a.	S 17
S 18	21 30 16	20°37'30	8♐52	5°31	19°15	13°41	3° 5	3°11	18°53	1°57	18° 1	24° 1	23°56	7°54	n.a.	S 18
M19	21 34 13	21°36'08	21°42	7° 7	20°28	14°21	3°12	3°18	18°51	1°58	18° 0	24° 1	23°53	8° 1	n.a.	M19
T 20	21 38 9	22°34'47	4♑56	8°42	21°40	15° 2	3°19	3°25	18°49	1°59	17°59	24° 1	23°50	8° 8	n.a.	T 20
W21	21 42 6	23°33'29	18°35	10°16	22°53	15°42	3°25	3°32	18°47	2° 0	17°58	24°D 1	23°46	8°14	n.a.	W21
T 22	21 46 3	24°32'12	2♒39	11°48	24° 6	16°22	3°32	3°40	18°45	2° 1	17°56	24° 1	23°43	8°21	n.a.	T 22
F 23	21 49 59	25°30'57	17° 5	13°20	25°18	17° 2	3°38	3°47	18°43	2° 2	17°55	24°R 1	23°40	8°28	n.a.	F 23
S 24	21 53 56	26°29'45	1♓49	14°51	26°31	17°43	3°45	3°54	18°40	2° 3	17°54	24° 1	23°37	8°34	n.a.	S 24
S 25	21 57 52	27°28'34	16°42	16°21	27°44	18°23	3°51	4° 2	18°38	2° 4	17°53	24° 0	23°34	8°41	n.a.	S 25
M26	22 1 49	28°27'25	1♈37	17°50	28°57	19° 3	3°57	4° 9	18°36	2° 6	17°51	24° 0	23°31	8°48	n.a.	M26
T 27	22 5 45	29°26'19	16°27	19°18	0♌10	19°44	4° 3	4°16	18°34	2° 7	17°50	24° 0	23°27	8°54	n.a.	T 27
W28	22 9 42	0♍25'15	1♉ 5	20°44	1°24	20°24	4° 8	4°24	18°31	2° 8	17°49	23°59	23°24	9° 1	n.a.	W28
T 29	22 13 38	1°24'14	15°25	22°10	2°37	21° 5	4°14	4°31	18°29	2° 9	17°48	23°58	23°21	9° 8	n.a.	T 29
F 30	22 17 35	2°23'15	29°26	23°35	3°50	21°46	4°19	4°38	18°27	2°11	17°47	23°D58	23°18	9°14	n.a.	F 30
S 31	22 21 31	3♍22'18	13♊ 6	24♍58	5♌ 4	22♍26	4♊24	4♍46	18♓24	2♏12	17♒45	23♒58	23♒15	9♎21	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	19n27	17n57	4n58	20n50	1n46	22n59	0s44	11n30	0n51	19n56	0s37	13n 4	2n 1	4s58	0s47	10s26	1n54	29s35	14s54	13s38	13s24	5s31			n.a.
F 2	19 13	22 39	5 14	20 19	1 45	23 2	0 41	11 15	0 50	19 58	0 37	13 1	2 1	4 58	0 47	10 27	1 54	29 35	14 54	13 38	13 25	5 35			n.a.
S 3	18 59	26 1	5 12	19 47	1 43	23 5	0 38	11 0	0 49	20 0	0 37	12 59	2 1	4 59	0 47	10 27	1 54	29 36	14 54	13 38	13 26	5 38			n.a.
S 4	18 44	27 50	4 52	19 13	1 40	23 7	0 34	10 45	0 49	20 2	0 37	12 56	2 1	4 59	0 47	10 27	1 53	29 36	14 54	13 39	13 27	5 41			n.a.
M 5	18 29	28 0	4 17	18 39	1 37	23 9	0 31	10 30	0 48	20 4	0 37	12 54	2 1	5 0	0 47	10 27	1 53	29 37	14 54	13 40	13 28	5 44			n.a.
T 6	18 14	26 35	3 29	18 3	1 34	23 10	0 28	10 15	0 48	20 5	0 37	12 51	2 1	5 1	0 47	10 28	1 53	29 37	14 54	13 40	13 29	5 48			n.a.
W 7	17 58	23 47	2 31	17 26	1 30	23 10	0 25	10 0	0 47	20 7	0 37	12 49	2 1	5 2	0 47	10 28	1 53	29 38	14 55	13 41	13 30	5 51			n.a.
T 8	17 42	19 52	1 27	16 49	1 26	23 10	0 21	9 44	0 47	20 9	0 37	12 46	2 1	5 2	0 47	10 28	1 53	29 38	14 55	13 41	13 31	5 54			n.a.
F 9	17 26	15 9	0 19	16 10	1 22	23 9	0 18	9 29	0 46	20 11	0 37	12 43	2 1	5 3	0 47	10 29	1 53	29 39	14 55	13 41	13 32	5 58			n.a.
S 10	17 9	9 54	0s48	15 31	1 17	23 7	0 15	9 13	0 46	20 12	0 37	12 41	2 1	5 4	0 47	10 29	1 53	29 39	14 55	13 41	13 33	6 1			n.a.
S 11	16 53	4 22	1 52	14 52	1 12	23 5	0 12	8 58	0 45	20 14	0 37	12 38	2 1	5 4	0 47	10 29	1 53	29 40	14 55	13 41	13 34	6 4			n.a.
M12	16 35	1s15	2 51	14 11	1 6	23 1	0 9	8 42	0 44	20 16	0 37	12 36	2 1	5 5	0 47	10 30	1 53	29 40	14 55	13 41	13 36	6 7			n.a.
T 13	16 18	6 47	3 42	13 31	1 1	22 58	0 5	8 27	0 44	20 17	0 37	12 33	2 1	5 6	0 47	10 30	1 53	29 41	14 55	13 41	13 37	6 11			n.a.
W14	16 0	12 5	4 24	12 50	0 55	22 53	0 2	8 11	0 43	20 19	0 37	12 30	2 1	5 7	0 47	10 30	1 53	29 41	14 55	13 40	13 38	6 14			n.a.
T 15	15 42	16 57	4 55	12 8	0 49	22 48	0n 1	7 55	0 43	20 20	0 37	12 28	2 1	5 8	0 47	10 31	1 53	29 41	14 55	13 40	13 39	6 17			n.a.
F 16	15 24	21 14	5 13	11 27	0 42	22 42	0 4	7 39	0 42	20 22	0 37	12 25	2 1	5 8	0 47	10 31	1 53	29 42	14 55	13 40	13 40	6 20			n.a.
S 17	15 6	24 42	5 17	10 45	0 36	22 36	0 7	7 23	0 42	20 23	0 37	12 22	2 1	5 9	0 47	10 31	1 53	29 42	14 55	13 40	13 41	6 24			n.a.
S 18	14 47	27 5	5 7	10 3	0 29	22 29	0 10	7 7	0 41	20 25	0 37	12 20	2 1	5 10	0 47	10 32	1 53	29 43	14 55	13 40	13 42	6 27			n.a.
M19	14 28	28 8	4 41	9 21	0 22	22 21	0 13	6 51	0 40	20 26	0 37	12 17	2 1	5 11	0 47	10 32	1 52	29 43	14 55	13 40	13 43	6 30			n.a.
T 20	14 9	27 37	4 0	8 38	0 15	22 13	0 16	6 35	0 40	20 27	0 37	12 15	2 1	5 12	0 47	10 33	1 52	29 44	14 55	13 40	13 44	6 33			n.a.
W21	13 49	25 27	3 4	7 56	0 8	22 4	0 19	6 18	0 39	20 29	0 37	12 12	2 1	5 13	0 47	10 33	1 52	29 44	14 55	13 40	13 45	6 37			n.a.
T 22	13 30	21 40	1 56	7 14	0 1	21 54	0 22	6 2	0 39	20 30	0 37	12 9	2 1	5 13	0 47	10 33	1 52	29 44	14 55	13 40	13 46	6 40			n.a.
F 23	13 10	16 30	0 38	6 31	0s 6	21 43	0 24	5 46	0 38	20 31	0 37	12 7	2 1	5 14	0 47	10 34	1 52	29 45	14 55	13 40	13 47	6 43			n.a.
S 24	12 50	10 17	0n43	5 49	0 14	21 32	0 27	5 29	0 38	20 32	0 37	12 4	2 1	5 15	0 47	10 34	1 52	29 45	14 55	13 40	13 48	6 46			n.a.
S 25	12 29	3 26	2 3	5 7	0 21	21 21	0 30	5 13	0 37	20 33	0 37	12 1	2 1	5 16	0 47	10 35	1 52	29 46	14 55	13 40	13 49	6 50			n.a.
M26	12 9	3n37	3 14	4 25	0 29	21 8	0 33	4 56	0 36	20 35	0 37	11 58	2 1	5 17	0 47	10 35	1 52	29 46	14 55	13 41	13 50	6 53			n.a.
T 27	11 48	10 24	4 12	3 44	0 36	20 55	0 35	4 40	0 36	20 36	0 37	11 56	2 1	5 18	0 47	10 36	1 52	29 46	14 55	13 41	13 51	6 56			n.a.
W28	11 27	16 32	4 52	3 2	0 44	20 42	0 38	4 23	0 35	20 37	0 37	11 53	2 1	5 19	0 47	10 36	1 52	29 47	14 55	13 41	13 52	6 59			n.a.
T 29	11 6	21 38	5 14	2 21	0 52	20 28	0 40	4 6	0 35	20 38	0 37	11 50	2 1	5 20	0 47	10 37	1 52	29 47	14 55	13 41	13 54	7 3			n.a.
F 30	10 45	25 24	5 16	1 40	0 59	20 13	0 43	3 50	0 34	20 39	0 37	11 48	2 1	5 21	0 47	10 37	1 52	29 47	14 55	13 41	13 55	7 6			n.a.
S 31	10n23	27n35	5n 0	1n 0	1s 7	19n57	0n45	3n33	0n34	20n40	0s37	11n45	2n 1	5s21	0s47	10s38	1n52	29s48	14s55	13s41	13s56	7s 9			n.a.

Julian Day Number = 1659177.5, Delta T = 03h26m42s
Ecliptic obliquity = 23°43'04, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'14, Lahiri = - 6°18'13 Julian Calendar 1 Aug. 171 BCE == Greg. Calendar 29 July 171 BCE

The year -170 astronomical counting style corresponds to year 171 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 171 BCE
geocentric

SEPTEMBER 171 BCE (-170) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 25 28	4♍21'24	26♊26	26♍21	6♌17	23♍ 7	4♊29	4♍53	18°R22	2♏14	17°R44	23♒59	23♒11	9♎28	n.a.	S 1
M 2	22 29 25	5°20'33	9♋28	27°42	7°31	23°48	4°34	5° 0	18♓20	2°15	17♒43	24° 0	23° 8	9°34	n.a.	M 2
T 3	22 33 21	6°19'44	22°14	29° 3	8°44	24°29	4°39	5° 8	18°17	2°16	17°42	24° 1	23° 5	9°41	n.a.	T 3
W 4	22 37 18	7°18'57	4♌45	0♎22	9°58	25°10	4°43	5°15	18°15	2°18	17°41	24° 2	23° 2	9°48	n.a.	W 4
T 5	22 41 14	8°18'12	17° 5	1°39	11°12	25°51	4°48	5°22	18°13	2°19	17°40	24° 3	22°59	9°55	n.a.	T 5
F 6	22 45 11	9°17'30	29°15	2°56	12°25	26°32	4°52	5°30	18°10	2°21	17°39	24°R 3	22°56	10° 1	n.a.	F 6
S 7	22 49 7	10°16'49	11♍17	4°11	13°39	27°13	4°56	5°37	18° 8	2°22	17°37	24° 2	22°52	10° 8	n.a.	S 7
S 8	22 53 4	11°16'11	23°13	5°24	14°53	27°54	4°59	5°44	18° 5	2°24	17°36	24° 0	22°49	10°15	n.a.	S 8
M 9	22 57 0	12°15'35	5♎ 4	6°36	16° 7	28°35	5° 3	5°52	18° 3	2°25	17°35	23°58	22°46	10°21	n.a.	M 9
T 10	23 0 57	13°15'01	16°54	7°46	17°21	29°16	5° 6	5°59	18° 1	2°27	17°34	23°55	22°43	10°28	n.a.	T 10
W11	23 4 54	14°14'29	28°43	8°54	18°35	29°58	5°10	6° 6	17°58	2°29	17°33	23°51	22°40	10°35	n.a.	W11
T 12	23 8 50	15°13'59	10♏36	10° 0	19°49	0♎39	5°13	6°14	17°56	2°30	17°32	23°48	22°37	10°41	n.a.	T 12
F 13	23 12 47	16°13'31	22°36	11° 4	21° 3	1°21	5°15	6°21	17°53	2°32	17°31	23°45	22°33	10°48	n.a.	F 13
S 14	23 16 43	17°13'05	4♐46	12° 5	22°17	2° 2	5°18	6°28	17°51	2°34	17°30	23°44	22°30	10°55	n.a.	S 14
S 15	23 20 40	18°12'40	17°11	13° 4	23°32	2°44	5°21	6°35	17°48	2°35	17°29	23°D43	22°27	11° 1	n.a.	S 15
M16	23 24 36	19°12'18	29°55	14° 0	24°46	3°25	5°23	6°43	17°46	2°37	17°28	23°43	22°24	11° 8	n.a.	M16
T 17	23 28 33	20°11'57	13♑ 2	14°52	26° 0	4° 7	5°25	6°50	17°44	2°39	17°27	23°45	22°21	11°15	n.a.	T 17
W18	23 32 29	21°11'38	26°35	15°41	27°15	4°48	5°27	6°57	17°41	2°41	17°26	23°46	22°17	11°21	n.a.	W18
T 19	23 36 26	22°11'21	10♒36	16°27	28°29	5°30	5°28	7° 4	17°39	2°43	17°25	23°47	22°14	11°28	n.a.	T 19
F 20	23 40 23	23°11'06	25° 3	17° 8	29°44	6°12	5°30	7°11	17°36	2°44	17°24	23°R48	22°11	11°35	n.a.	F 20
S 21	23 44 19	24°10'53	9♓54	17°44	0♍58	6°54	5°31	7°18	17°34	2°46	17°23	23°47	22° 8	11°42	n.a.	S 21
S 22	23 48 16	25°10'42	25° 1	18°15	2°13	7°36	5°32	7°26	17°31	2°48	17°22	23°45	22° 5	11°48	n.a.	S 22
M23	23 52 12	26°10'32	10♈16	18°40	3°27	8°18	5°33	7°33	17°29	2°50	17°21	23°41	22° 2	11°55	n.a.	M23
T 24	23 56 9	27°10'25	25°28	18°59	4°42	9° 0	5°34	7°40	17°27	2°52	17°20	23°36	21°58	12° 2	n.a.	T 24
W25	0 0 5	28°10'20	10♉27	19°12	5°57	9°42	5°34	7°47	17°24	2°54	17°19	23°31	21°55	12° 8	n.a.	W25
T 26	0 4 2	29°10'18	25° 5	19°R17	7°11	10°24	5°35	7°54	17°22	2°56	17°18	23°27	21°52	12°15	n.a.	T 26
F 27	0 7 58	0♎10'17	9♊17	19°14	8°26	11° 6	5°R35	8° 1	17°19	2°58	17°17	23°23	21°49	12°22	n.a.	F 27
S 28	0 11 55	1°10'19	23° 2	19° 2	9°41	11°48	5°35	8° 8	17°17	3° 0	17°16	23°21	21°46	12°28	n.a.	S 28
S 29	0 15 51	2°10'24	6♋21	18°42	10°56	12°31	5°34	8°15	17°15	3° 2	17°16	23°D21	21°43	12°35	n.a.	S 29
M30	0 19 48	3♎10'30	19♋16	18♎12	12♍11	13♎13	5♊34	8♍22	17♓12	3♏ 4	17♒15	23♒22	21♒39	12♎42	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	10n 1	28n 8	4n28	0n20	1s14	19n41	0n48	3n16	0n33	20n41	0s37	11n42	2n 1	5s22	0s47	10s38	1n52	29s48	14s55	13s41	13s57	7s12		n.a.
M 2	9 40	27 5	3 43	0s20	1 22	19 25	0 50	2 59	0 32	20 42	0 37	11 40	2 1	5 23	0 47	10 39	1 52	29 48	14 55	13 41	13 58	7 16		n.a.
T 3	9 18	24 37	2 47	0 59	1 29	19 8	0 53	2 42	0 32	20 42	0 37	11 37	2 1	5 24	0 47	10 39	1 52	29 49	14 54	13 40	13 59	7 19		n.a.
W 4	8 55	21 0	1 45	1 37	1 37	18 50	0 55	2 25	0 31	20 43	0 37	11 34	2 1	5 25	0 47	10 40	1 52	29 49	14 54	13 40	14 0	7 22		n.a.
T 5	8 33	16 30	0 38	2 15	1 44	18 32	0 57	2 8	0 31	20 44	0 37	11 32	2 1	5 26	0 47	10 41	1 52	29 49	14 54	13 40	14 1	7 25		n.a.
F 6	8 11	11 25	0s29	2 53	1 51	18 13	0 59	1 51	0 30	20 45	0 37	11 29	2 1	5 27	0 47	10 41	1 51	29 49	14 54	13 40	14 2	7 28		n.a.
S 7	7 48	5 58	1 34	3 29	1 59	17 54	1 1	1 34	0 29	20 45	0 37	11 26	2 1	5 28	0 47	10 42	1 51	29 50	14 54	13 40	14 3	7 32		n.a.
S 8	7 25	0 22	2 34	4 5	2 5	17 34	1 3	1 17	0 29	20 46	0 37	11 24	2 1	5 29	0 47	10 42	1 51	29 50	14 54	13 41	14 4	7 35		n.a.
M 9	7 2	5s12	3 27	4 40	2 12	17 14	1 5	1 0	0 28	20 47	0 37	11 21	2 2	5 30	0 47	10 43	1 51	29 50	14 54	13 41	14 5	7 38		n.a.
T 10	6 39	10 34	4 12	5 14	2 19	16 53	1 7	0 43	0 28	20 47	0 37	11 18	2 2	5 31	0 47	10 43	1 51	29 51	14 54	13 42	14 6	7 41		n.a.
W11	6 16	15 34	4 45	5 47	2 25	16 31	1 9	0 26	0 27	20 48	0 37	11 16	2 2	5 32	0 47	10 44	1 51	29 51	14 54	13 44	14 7	7 45		n.a.
T 12	5 53	20 1	5 6	6 19	2 31	16 9	1 11	0 9	0 26	20 49	0 37	11 13	2 2	5 33	0 47	10 45	1 51	29 51	14 53	13 45	14 8	7 48		n.a.
F 13	5 30	23 42	5 14	6 50	2 37	15 47	1 12	0s 9	0 26	20 49	0 37	11 10	2 2	5 34	0 47	10 45	1 51	29 51	14 53	13 45	14 9	7 51		n.a.
S 14	5 6	26 23	5 9	7 19	2 43	15 24	1 14	0 26	0 25	20 50	0 37	11 8	2 2	5 35	0 47	10 46	1 51	29 51	14 53	13 46	14 10	7 54		n.a.
S 15	4 43	27 53	4 49	7 47	2 48	15 1	1 16	0 43	0 25	20 50	0 37	11 5	2 2	5 36	0 47	10 47	1 51	29 52	14 53	13 46	14 11	7 57		n.a.
M16	4 19	27 57	4 14	8 14	2 53	14 38	1 17	1 0	0 24	20 50	0 37	11 2	2 2	5 37	0 47	10 47	1 51	29 52	14 53	13 46	14 12	8 1		n.a.
T 17	3 56	26 29	3 25	8 39	2 57	14 13	1 18	1 18	0 23	20 51	0 37	11 0	2 2	5 38	0 47	10 48	1 51	29 52	14 53	13 46	14 14	8 4		n.a.
W18	3 32	23 26	2 24	9 2	3 1	13 49	1 20	1 35	0 23	20 51	0 37	10 57	2 2	5 39	0 47	10 49	1 51	29 52	14 52	13 45	14 15	8 7		n.a.
T 19	3 8	18 56	1 12	9 22	3 5	13 24	1 21	1 52	0 22	20 51	0 37	10 54	2 2	5 40	0 47	10 49	1 51	29 52	14 52	13 45	14 16	8 10		n.a.
F 20	2 44	13 13	0n 7	9 41	3 7	12 59	1 22	2 10	0 22	20 52	0 37	10 52	2 2	5 41	0 47	10 50	1 51	29 52	14 52	13 45	14 17	8 13		n.a.
S 21	2 20	6 36	1 27	9 57	3 9	12 33	1 23	2 27	0 21	20 52	0 37	10 49	2 3	5 42	0 47	10 51	1 51	29 53	14 52	13 45	14 18	8 16		n.a.
S 22	1 56	0n29	2 43	10 10	3 11	12 7	1 25	2 44	0 20	20 52	0 37	10 47	2 3	5 42	0 47	10 51	1 51	29 53	14 52	13 46	14 19	8 20		n.a.
M23	1 32	7 35	3 47	10 20	3 11	11 41	1 26	3 1	0 20	20 52	0 37	10 44	2 3	5 43	0 47	10 52	1 51	29 53	14 52	13 47	14 20	8 23		n.a.
T 24	1 8	14 13	4 35	10 27	3 10	11 14	1 27	3 19	0 19	20 53	0 37	10 41	2 3	5 44	0 47	10 53	1 51	29 53	14 51	13 49	14 21	8 26		n.a.
W25	0 44	19 55	5 3	10 30	3 9	10 47	1 27	3 36	0 19	20 53	0 37	10 39	2 3	5 45	0 47	10 53	1 51	29 53	14 51	13 50	14 22	8 29		n.a.
T 26	0 20	24 17	5 11	10 29	3 6	10 20	1 28	3 53	0 18	20 53	0 37	10 36	2 3	5 46	0 47	10 54	1 51	29 53	14 51	13 52	14 23	8 32		n.a.
F 27	0s 4	27 2	5 0	10 24	3 2	9 52	1 29	4 11	0 17	20 53	0 37	10 34	2 3	5 47	0 47	10 55	1 51	29 53	14 51	13 53	14 24	8 36		n.a.
S 28	0 28	28 2	4 31	10 14	2 56	9 25	1 30	4 28	0 17	20 53	0 37	10 31	2 3	5 48	0 47	10 55	1 51	29 53	14 51	13 53	14 25	8 39		n.a.
S 29	0 52	27 22	3 48	10 0	2 48	8 56	1 30	4 45	0 16	20 53	0 37	10 29	2 3	5 49	0 47	10 56	1 50	29 53	14 50	13 54	14 26	8 42		n.a.
M30	1s17	25n12	2n55	9s40	2s39	8n28	1n31	5s 2	0n16	20n53	0s37	10n26	2n 4	5s50	0s47	10s57	1n50	29s53	14s50	13s53	14s27	8s45		n.a.

Julian Day Number = 1659208.5, Delta T = 03h26m41s
Ecliptic obliquity = 23°43'05, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'10, Lahiri = - 6°18'09 Julian Calendar 1 Sept. 171 BCE == Greg. Calendar 29 Aug. 171 BCE

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ASTRODIENST EPHEMERIS for the year 171 BCE
geocentric

OCTOBER 171 BCE (-170) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 23 45	4♎10'39	1♌51	17°R32	13♍26	13♎55	5°R33	8♍29	17°R10	3♏ 6	17°R14	23♒24	21♒36	12♎48	n.a.	T 1
W 2	0 27 41	5°10'50	14°10	16♎44	14°41	14°38	5♊32	8°35	17♓ 8	3° 8	17♒13	23°25	21°33	12°55	n.a.	W 2
T 3	0 31 38	6°11'03	26°17	15°47	15°56	15°20	5°31	8°42	17° 6	3°10	17°13	23°R25	21°30	13° 2	n.a.	T 3
F 4	0 35 34	7°11'18	8♍16	14°42	17°11	16° 3	5°30	8°49	17° 3	3°12	17°12	23°24	21°27	13° 9	n.a.	F 4
S 5	0 39 31	8°11'35	20° 9	13°31	18°26	16°46	5°28	8°56	17° 1	3°14	17°11	23°21	21°23	13°15	n.a.	S 5
S 6	0 43 27	9°11'54	2♎ 0	12°15	19°41	17°28	5°27	9° 2	16°59	3°16	17°10	23°15	21°20	13°22	n.a.	S 6
M 7	0 47 24	10°12'14	13°50	10°56	20°56	18°11	5°25	9° 9	16°57	3°18	17°10	23° 7	21°17	13°29	n.a.	M 7
T 8	0 51 20	11°12'37	25°41	9°37	22°11	18°54	5°23	9°16	16°54	3°20	17° 9	22°58	21°14	13°35	n.a.	T 8
W 9	0 55 17	12°13'01	7♏34	8°21	23°26	19°37	5°20	9°22	16°52	3°22	17° 8	22°48	21°11	13°42	n.a.	W 9
T 10	0 59 14	13°13'28	19°31	7°10	24°41	20°20	5°18	9°29	16°50	3°25	17° 8	22°38	21° 8	13°49	n.a.	T 10
F 11	1 3 10	14°13'55	1♐35	6° 5	25°57	21° 3	5°15	9°35	16°48	3°27	17° 7	22°29	21° 4	13°55	n.a.	F 11
S 12	1 7 7	15°14'25	13°47	5°10	27°12	21°46	5°12	9°42	16°46	3°29	17° 7	22°22	21° 1	14° 2	n.a.	S 12
S 13	1 11 3	16°14'55	26°11	4°25	28°27	22°29	5° 9	9°48	16°44	3°31	17° 6	22°18	20°58	14° 9	n.a.	S 13
M14	1 15 0	17°15'28	8♑51	3°51	29°42	23°12	5° 6	9°55	16°42	3°33	17° 6	22°16	20°55	14°15	n.a.	M14
T 15	1 18 56	18°16'01	21°50	3°29	0♎58	23°55	5° 2	10° 1	16°40	3°35	17° 5	22°D15	20°52	14°22	n.a.	T 15
W16	1 22 53	19°16'36	5♒12	3°D19	2°13	24°38	4°59	10° 7	16°38	3°38	17° 5	22°16	20°48	14°29	n.a.	W16
T 17	1 26 49	20°17'13	19° 0	3°20	3°28	25°21	4°55	10°13	16°36	3°40	17° 4	22°R17	20°45	14°36	n.a.	T 17
F 18	1 30 46	21°17'50	3♓16	3°31	4°44	26° 5	4°51	10°19	16°34	3°42	17° 4	22°16	20°42	14°42	n.a.	F 18
S 19	1 34 43	22°18'29	17°57	3°53	5°59	26°48	4°47	10°26	16°32	3°44	17° 3	22°14	20°39	14°49	n.a.	S 19
S 20	1 38 39	23°19'09	3♈ 0	4°24	7°14	27°32	4°42	10°32	16°31	3°46	17° 3	22° 9	20°36	14°56	n.a.	S 20
M21	1 42 36	24°19'50	18°17	5° 3	8°30	28°15	4°38	10°38	16°29	3°49	17° 3	22° 1	20°33	15° 2	n.a.	M21
T 22	1 46 32	25°20'33	3♉37	5°50	9°45	28°59	4°33	10°44	16°27	3°51	17° 2	21°52	20°29	15° 9	n.a.	T 22
W23	1 50 29	26°21'18	18°48	6°43	11° 1	29°42	4°28	10°49	16°25	3°53	17° 2	21°42	20°26	15°16	n.a.	W23
T 24	1 54 25	27°22'04	3♊40	7°42	12°16	0♏26	4°23	10°55	16°24	3°55	17° 2	21°32	20°23	15°22	n.a.	T 24
F 25	1 58 22	28°22'52	18° 6	8°45	13°31	1°10	4°18	11° 1	16°22	3°58	17° 1	21°24	20°20	15°29	n.a.	F 25
S 26	2 2 18	29°23'41	2♋ 2	9°53	14°47	1°53	4°12	11° 7	16°20	4° 0	17° 1	21°18	20°17	15°36	n.a.	S 26
S 27	2 6 15	0♏24'32	15°27	11° 5	16° 2	2°37	4° 7	11°12	16°19	4° 2	17° 1	21°15	20°14	15°43	n.a.	S 27
M28	2 10 12	1°25'25	28°25	12°20	17°18	3°21	4° 1	11°18	16°17	4° 4	17° 1	21°D14	20°10	15°49	n.a.	M28
T 29	2 14 8	2°26'19	10♌59	13°38	18°33	4° 5	3°55	11°23	16°16	4° 7	17° 1	21°14	20° 7	15°56	n.a.	T 29
W30	2 18 5	3°27'14	23°14	14°58	19°49	4°49	3°49	11°29	16°14	4° 9	17° 1	21°R15	20° 4	16° 3	n.a.	W30
T 31	2 22 1	4♏28'11	5♍16	16♎20	21♎ 4	5♏33	3♊43	11♍34	16♓13	4♏11	17♒ 0	21♒14	20♒ 1	16♎ 9	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	1 s41	21n50	1n55	9 s15	2 s28	7n59	1n31	5 s20	0n15	20n52	0 s37	10n24	2n 4	5 s51	0 s47	10 s58	1n50	29 s53	14 s50	13 s53	14 s28	8 s48		n.a.
W 2	2 5	17 34	0 50	8 44	2 16	7 30	1 31	5 37	0 14	20 52	0 37	10 21	2 4	5 52	0 47	10 58	1 50	29 54	14 50	13 52	14 29	8 51		n.a.
T 3	2 29	12 40	0 s15	8 8	2 1	7 1	1 32	5 54	0 14	20 52	0 37	10 19	2 4	5 53	0 47	10 59	1 50	29 54	14 49	13 52	14 30	8 55		n.a.
F 4	2 53	7 20	1 20	7 28	1 45	6 32	1 32	6 11	0 13	20 52	0 37	10 16	2 4	5 53	0 47	11 0	1 50	29 54	14 49	13 53	14 31	8 58		n.a.
S 5	3 17	1 49	2 19	6 44	1 27	6 2	1 32	6 28	0 12	20 52	0 37	10 14	2 4	5 54	0 47	11 1	1 50	29 54	14 49	13 54	14 32	9 1		n.a.
S 6	3 41	3 s45	3 13	5 56	1 8	5 33	1 32	6 45	0 12	20 51	0 37	10 11	2 4	5 55	0 47	11 1	1 50	29 54	14 49	13 56	14 33	9 4		n.a.
M 7	4 5	9 10	3 58	5 7	0 48	5 3	1 32	7 2	0 11	20 51	0 37	10 9	2 4	5 56	0 47	11 2	1 50	29 54	14 48	13 58	14 34	9 7		n.a.
T 8	4 29	14 15	4 33	4 16	0 27	4 33	1 32	7 19	0 11	20 51	0 37	10 7	2 5	5 57	0 47	11 3	1 50	29 54	14 48	14 1	14 35	9 10		n.a.
W 9	4 53	18 50	4 55	3 27	0 7	4 2	1 32	7 36	0 10	20 50	0 37	10 4	2 5	5 58	0 47	11 4	1 50	29 53	14 48	14 5	14 36	9 13		n.a.
T 10	5 17	22 42	5 6	2 40	0n14	3 32	1 32	7 53	0 9	20 50	0 37	10 2	2 5	5 58	0 47	11 4	1 50	29 53	14 48	14 8	14 37	9 17		n.a.
F 11	5 41	25 39	5 2	1 56	0 33	3 2	1 32	8 10	0 9	20 50	0 37	9 59	2 5	5 59	0 47	11 5	1 50	29 53	14 47	14 11	14 38	9 20		n.a.
S 12	6 4	27 26	4 45	1 17	0 52	2 31	1 31	8 27	0 8	20 49	0 37	9 57	2 5	6 0	0 47	11 6	1 50	29 53	14 47	14 13	14 39	9 23		n.a.
S 13	6 28	27 54	4 15	0 44	1 8	2 1	1 31	8 44	0 7	20 49	0 37	9 55	2 5	6 1	0 47	11 7	1 50	29 53	14 47	14 14	14 40	9 26		n.a.
M14	6 51	26 56	3 31	0 16	1 24	1 30	1 30	9 1	0 7	20 48	0 37	9 53	2 6	6 2	0 47	11 7	1 50	29 53	14 46	14 15	14 41	9 29		n.a.
T 15	7 15	24 29	2 36	0n 5	1 37	0 59	1 30	9 17	0 6	20 47	0 36	9 50	2 6	6 2	0 47	11 8	1 50	29 53	14 46	14 15	14 42	9 32		n.a.
W16	7 38	20 39	1 30	0 19	1 48	0 28	1 29	9 34	0 6	20 47	0 36	9 48	2 6	6 3	0 47	11 9	1 50	29 53	14 46	14 15	14 43	9 35		n.a.
T 17	8 1	15 35	0 18	0 28	1 58	0 s 3	1 29	9 51	0 5	20 46	0 36	9 46	2 6	6 4	0 47	11 10	1 50	29 53	14 46	14 15	14 45	9 38		n.a.
F 18	8 24	9 31	0n58	0 30	2 6	0 34	1 28	10 7	0 4	20 45	0 36	9 44	2 6	6 5	0 47	11 10	1 50	29 53	14 45	14 15	14 46	9 42		n.a.
S 19	8 47	2 47	2 13	0 27	2 12	1 4	1 27	10 24	0 4	20 45	0 36	9 41	2 6	6 5	0 47	11 11	1 50	29 53	14 45	14 16	14 47	9 45		n.a.
S 20	9 10	4n15	3 19	0 19	2 17	1 35	1 26	10 40	0 3	20 44	0 36	9 39	2 7	6 6	0 47	11 12	1 50	29 52	14 45	14 17	14 48	9 48		n.a.
M21	9 32	11 8	4 13	0 6	2 20	2 6	1 25	10 56	0 2	20 43	0 36	9 37	2 7	6 7	0 47	11 13	1 50	29 52	14 44	14 20	14 49	9 51		n.a.
T 22	9 55	17 22	4 48	0 s11	2 22	2 37	1 24	11 13	0 2	20 42	0 36	9 35	2 7	6 7	0 47	11 13	1 50	29 52	14 44	14 23	14 50	9 54		n.a.
W23	10 17	22 27	5 3	0 31	2 22	3 8	1 23	11 29	0 1	20 41	0 36	9 33	2 7	6 8	0 47	11 14	1 50	29 52	14 44	14 26	14 51	9 57		n.a.
T 24	10 39	25 58	4 56	0 55	2 22	3 39	1 22	11 45	0 0	20 41	0 36	9 31	2 7	6 9	0 47	11 15	1 50	29 52	14 44	14 29	14 52	10 0		n.a.
F 25	11 1	27 41	4 31	1 21	2 21	4 9	1 21	12 1	0 s 0	20 40	0 36	9 29	2 8	6 9	0 47	11 16	1 50	29 51	14 43	14 32	14 53	10 3		n.a.
S 26	11 23	27 32	3 50	1 50	2 19	4 40	1 20	12 17	0 1	20 39	0 36	9 27	2 8	6 10	0 46	11 17	1 50	29 51	14 43	14 34	14 54	10 6		n.a.
S 27	11 45	25 46	2 58	2 21	2 16	5 11	1 18	12 33	0 2	20 38	0 36	9 25	2 8	6 10	0 46	11 17	1 50	29 51	14 43	14 35	14 55	10 9		n.a.
M28	12 6	22 39	1 58	2 54	2 13	5 41	1 17	12 49	0 2	20 37	0 36	9 23	2 8	6 11	0 46	11 18	1 50	29 51	14 42	14 35	14 56	10 13		n.a.
T 29	12 28	18 33	0 54	3 28	2 9	6 11	1 16	13 4	0 3	20 36	0 36	9 21	2 8	6 12	0 46	11 19	1 50	29 51	14 42	14 35	14 57	10 16		n.a.
W30	12 49	13 46	0 s11	4 3	2 4	6 42	1 14	13 20	0 3	20 35	0 36	9 19	2 9	6 12	0 46	11 20	1 50	29 50	14 42	14 35	14 58	10 19		n.a.
T 31	13 s10	8n33	1 s14	4 s40	1n59	7 s12	1n13	13 s35	0 s 4	20n34	0 s35	9n17	2n 9	6 s13	0 s46	11 s20	1n50	29 s50	14 s41	14 s35	14 s59	10 s22		n.a.

Julian Day Number = 1659238.5, Delta T = 03h26m40s
Ecliptic obliquity = 23°43'05, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'06, Lahiri = - 6°18'05 Julian Calendar 1 Oct. 171 BCE == Greg. Calendar 28 Sept. 171 BCE

The year -170 astronomical counting style corresponds to year 171 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 171 BCE
geocentric

NOVEMBER 171 BCE (-170) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 25 58	5♏29'09	17♍10	17♎43	22♎20	6♏17	3°R37	11♍40	16°R12	4♏14	17°R 0	21°R11	19♒58	16♎16	n.a.	F 1
S 2	2 29 54	6°30'09	28°59	19° 8	23°35	7° 1	3♊30	11°45	16♓10	4°16	17♒ 0	21♒ 5	19°54	16°23	n.a.	S 2
S 3	2 33 51	7°31'10	10♎48	20°35	24°51	7°45	3°24	11°50	16° 9	4°18	17° 0	20°56	19°51	16°29	n.a.	S 3
M 4	2 37 47	8°32'12	22°39	22° 2	26° 7	8°29	3°17	11°55	16° 8	4°20	17°D 0	20°44	19°48	16°36	n.a.	M 4
T 5	2 41 44	9°33'15	4♏33	23°30	27°22	9°14	3°10	12° 0	16° 7	4°23	17° 0	20°31	19°45	16°43	n.a.	T 5
W 6	2 45 41	10°34'19	16°33	24°59	28°38	9°58	3° 3	12° 5	16° 5	4°25	17° 0	20°16	19°42	16°50	n.a.	W 6
T 7	2 49 37	11°35'24	28°40	26°28	29°53	10°42	2°56	12°10	16° 4	4°27	17° 0	20° 1	19°39	16°56	n.a.	T 7
F 8	2 53 34	12°36'30	10♐53	27°58	1♏ 9	11°27	2°49	12°15	16° 3	4°29	17° 0	19°48	19°35	17° 3	n.a.	F 8
S 9	2 57 30	13°37'37	23°15	29°29	2°24	12°11	2°41	12°19	16° 2	4°32	17° 0	19°37	19°32	17°10	n.a.	S 9
S 10	3 1 27	14°38'45	5♑47	1♏ 0	3°40	12°56	2°34	12°24	16° 1	4°34	17° 1	19°29	19°29	17°16	n.a.	S 10
M11	3 5 23	15°39'53	18°31	2°31	4°56	13°40	2°27	12°29	16° 0	4°36	17° 1	19°24	19°26	17°23	n.a.	M11
T 12	3 9 20	16°41'02	1♒30	4° 2	6°11	14°25	2°19	12°33	16° 0	4°38	17° 1	19°22	19°23	17°30	n.a.	T 12
W13	3 13 16	17°42'11	14°47	5°34	7°27	15°10	2°11	12°38	15°59	4°40	17° 1	19°22	19°20	17°36	n.a.	W13
T 14	3 17 13	18°43'20	28°24	7° 6	8°42	15°54	2° 4	12°42	15°58	4°43	17° 1	19°22	19°16	17°43	n.a.	T 14
F 15	3 21 10	19°44'30	12♓24	8°38	9°58	16°39	1°56	12°46	15°57	4°45	17° 2	19°20	19°13	17°50	n.a.	F 15
S 16	3 25 6	20°45'40	26°48	10°10	11°13	17°24	1°48	12°50	15°57	4°47	17° 2	19°17	19°10	17°57	n.a.	S 16
S 17	3 29 3	21°46'50	11♈32	11°43	12°29	18° 9	1°40	12°54	15°56	4°49	17° 2	19°11	19° 7	18° 3	n.a.	S 17
M18	3 32 59	22°48'01	26°32	13°15	13°45	18°53	1°32	12°58	15°55	4°51	17° 3	19° 3	19° 4	18°10	n.a.	M18
T 19	3 36 56	23°49'12	11♉39	14°48	15° 0	19°38	1°24	13° 2	15°55	4°54	17° 3	18°52	19° 0	18°17	n.a.	T 19
W20	3 40 52	24°50'24	26°43	16°21	16°16	20°23	1°16	13° 6	15°54	4°56	17° 3	18°40	18°57	18°23	n.a.	W20
T 21	3 44 49	25°51'36	11♊35	17°54	17°31	21° 8	1° 8	13°10	15°54	4°58	17° 4	18°28	18°54	18°30	n.a.	T 21
F 22	3 48 46	26°52'49	26° 4	19°27	18°47	21°53	1° 0	13°13	15°54	5° 0	17° 4	18°18	18°51	18°37	n.a.	F 22
S 23	3 52 42	27°54'02	10♋ 7	21° 1	20° 2	22°39	0°52	13°17	15°53	5° 2	17° 5	18°11	18°48	18°44	n.a.	S 23
S 24	3 56 39	28°55'15	23°40	22°35	21°18	23°24	0°44	13°20	15°53	5° 4	17° 5	18° 6	18°45	18°50	n.a.	S 24
M25	4 0 35	29°56'29	6♌44	24° 9	22°34	24° 9	0°36	13°24	15°53	5° 6	17° 6	18° 4	18°41	18°57	n.a.	M25
T 26	4 4 32	0♐57'44	19°24	25°43	23°49	24°54	0°27	13°27	15°53	5° 9	17° 6	18°D 4	18°38	19° 4	n.a.	T 26
W27	4 8 28	1°58'59	1♍42	27°17	25° 5	25°39	0°19	13°30	15°53	5°11	17° 7	18°R 4	18°35	19°10	n.a.	W27
T 28	4 12 25	3° 0'14	13°46	28°52	26°20	26°25	0°11	13°33	15°53	5°13	17° 7	18° 3	18°32	19°17	n.a.	T 28
F 29	4 16 21	4° 1'30	25°40	0♐27	27°36	27°10	0° 3	13°36	15°D53	5°15	17° 8	18° 1	18°29	19°24	n.a.	F 29
S 30	4 20 18	5♐ 2'46	7♎29	2♐ 2	28♏51	27♏55	29♉55	13♍39	15♓53	5♏17	17♒ 8	17♒56	18♒26	19♎30	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13s30	3n 5	2s13	5s17	1n54	7s42	1n11	13s51	0s 5	20n32	0s35	9n15	2n 9	6s13	0s46	11s21	1n50	29s50	14s41	14s36	15s 0	10s25		n.a.
S 2	13 51	2s26	3 6	5 55	1 48	8 11	1 9	14 6	0 5	20 31	0 35	9 13	2 9	6 14	0 46	11 22	1 50	29 50	14 41	14 38	15 1	10 28		n.a.
S 3	14 11	7 51	3 50	6 33	1 42	8 41	1 8	14 21	0 6	20 30	0 35	9 12	2 9	6 14	0 46	11 23	1 50	29 49	14 40	14 41	15 2	10 31		n.a.
M 4	14 31	13 0	4 25	7 12	1 36	9 10	1 6	14 36	0 7	20 29	0 35	9 10	2 10	6 14	0 46	11 24	1 50	29 49	14 40	14 45	15 3	10 34		n.a.
T 5	14 50	17 42	4 48	7 50	1 30	9 39	1 4	14 51	0 7	20 28	0 35	9 8	2 10	6 15	0 46	11 24	1 50	29 49	14 40	14 49	15 4	10 37		n.a.
W 6	15 10	21 45	4 59	8 29	1 23	10 8	1 3	15 6	0 8	20 26	0 35	9 6	2 10	6 15	0 46	11 25	1 50	29 48	14 40	14 54	15 5	10 40		n.a.
T 7	15 29	24 54	4 56	9 8	1 17	10 37	1 1	15 21	0 9	20 25	0 35	9 5	2 10	6 16	0 46	11 26	1 50	29 48	14 39	14 59	15 6	10 43		n.a.
F 8	15 48	26 57	4 40	9 47	1 10	11 5	0 59	15 35	0 9	20 24	0 35	9 3	2 10	6 16	0 46	11 27	1 50	29 48	14 39	15 3	15 7	10 46		n.a.
S 9	16 7	27 43	4 10	10 26	1 3	11 34	0 57	15 50	0 10	20 22	0 35	9 1	2 11	6 16	0 46	11 27	1 50	29 47	14 39	15 6	15 8	10 49		n.a.
S 10	16 25	27 3	3 28	11 5	0 56	12 1	0 55	16 4	0 11	20 21	0 35	9 0	2 11	6 17	0 46	11 28	1 50	29 47	14 38	15 9	15 9	10 52		n.a.
M11	16 43	24 59	2 35	11 43	0 49	12 29	0 53	16 18	0 11	20 20	0 34	8 58	2 11	6 17	0 46	11 29	1 50	29 47	14 38	15 10	15 10	10 55		n.a.
T 12	17 1	21 34	1 33	12 21	0 42	12 56	0 51	16 32	0 12	20 18	0 34	8 57	2 11	6 17	0 46	11 30	1 50	29 46	14 38	15 11	15 11	10 58		n.a.
W13	17 19	16 58	0 24	12 59	0 35	13 23	0 49	16 46	0 12	20 17	0 34	8 55	2 12	6 18	0 46	11 30	1 50	29 46	14 37	15 11	15 12	11 2		n.a.
T 14	17 36	11 25	0n48	13 36	0 28	13 50	0 47	17 0	0 13	20 15	0 34	8 54	2 12	6 18	0 46	11 31	1 50	29 46	14 37	15 11	15 13	11 5		n.a.
F 15	17 53	5 10	1 58	14 12	0 21	14 16	0 45	17 14	0 14	20 14	0 34	8 52	2 12	6 18	0 46	11 32	1 50	29 45	14 37	15 12	15 14	11 8		n.a.
S 16	18 9	1n31	3 4	14 49	0 14	14 42	0 43	17 27	0 14	20 13	0 34	8 51	2 12	6 18	0 46	11 32	1 50	29 45	14 36	15 13	15 15	11 11		n.a.
S 17	18 25	8 15	3 58	15 24	0 7	15 7	0 40	17 40	0 15	20 11	0 34	8 50	2 13	6 19	0 46	11 33	1 50	29 44	14 36	15 14	15 16	11 14		n.a.
M18	18 41	14 39	4 37	15 59	0 1	15 32	0 38	17 54	0 16	20 10	0 34	8 48	2 13	6 19	0 46	11 34	1 50	29 44	14 36	15 17	15 17	11 17		n.a.
T 19	18 57	20 13	4 58	16 34	0s 6	15 57	0 36	18 7	0 16	20 8	0 33	8 47	2 13	6 19	0 46	11 35	1 50	29 44	14 35	15 21	15 18	11 20		n.a.
W20	19 12	24 27	4 57	17 7	0 13	16 21	0 34	18 19	0 17	20 7	0 33	8 46	2 13	6 19	0 46	11 35	1 50	29 43	14 35	15 24	15 19	11 23		n.a.
T 21	19 27	27 0	4 36	17 41	0 19	16 45	0 31	18 32	0 18	20 5	0 33	8 45	2 14	6 19	0 46	11 36	1 50	29 43	14 35	15 28	15 20	11 26		n.a.
F 22	19 41	27 37	3 58	18 13	0 26	17 9	0 29	18 45	0 18	20 3	0 33	8 43	2 14	6 19	0 45	11 37	1 50	29 42	14 34	15 31	15 21	11 29		n.a.
S 23	19 55	26 25	3 6	18 44	0 32	17 32	0 27	18 57	0 19	20 2	0 33	8 42	2 14	6 19	0 45	11 37	1 50	29 42	14 34	15 34	15 22	11 32		n.a.
S 24	20 9	23 40	2 5	19 15	0 39	17 54	0 25	19 9	0 20	20 0	0 33	8 41	2 14	6 20	0 45	11 38	1 50	29 41	14 34	15 35	15 23	11 35		n.a.
M25	20 22	19 46	1 0	19 45	0 45	18 16	0 22	19 21	0 20	19 59	0 33	8 40	2 15	6 20	0 45	11 39	1 50	29 41	14 33	15 36	15 24	11 38		n.a.
T 26	20 35	15 4	0s 7	20 14	0 51	18 37	0 20	19 33	0 21	19 57	0 33	8 39	2 15	6 20	0 45	11 40	1 50	29 40	14 33	15 36	15 25	11 41		n.a.
W27	20 48	9 53	1 12	20 42	0 57	18 58	0 17	19 45	0 21	19 56	0 32	8 38	2 15	6 20	0 45	11 40	1 50	29 40	14 33	15 36	15 26	11 44		n.a.
T 28	21 0	4 26	2 12	21 9	1 2	19 19	0 15	19 56	0 22	19 54	0 32	8 37	2 15	6 20	0 45	11 41	1 50	29 40	14 33	15 36	15 27	11 47		n.a.
F 29	21 12	1s 5	3 5	21 35	1 8	19 39	0 13	20 7	0 23	19 52	0 32	8 36	2 16	6 20	0 45	11 42	1 50	29 39	14 32	15 37	15 28	11 50		n.a.
S 30	21s23	6s31	3s50	22s 0	1s13	19s58	0n10	20s18	0s23	19n51	0s32	8n35	2n16	6s19	0s45	11s42	1n50	29s39	14s32	15s38	15s29	11s53		n.a.

Julian Day Number = 1659269.5, Delta T = 03h26m39s
Ecliptic obliquity = 23°43'04, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°25'01, Lahiri = - 6°18'01 Julian Calendar 1 Nov. 171 BCE == Greg. Calendar 29 Oct. 171 BCE

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ASTRODIENST EPHEMERIS for the year 171 BCE
geocentric

DECEMBER 171 BCE (-170) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 24 15	6♐ 4'02	19♎18	3♐37	0♐ 7	28♏41	29°R47	13♍42	15♓53	5♏19	17♒ 9	17°R49	18♒22	19♎37	n.a.	S 1
M 2	4 28 11	7° 5'19	1♏11	5°13	1°22	29°26	29♉39	13°45	15°53	5°21	17°10	17♒39	18°19	19°44	n.a.	M 2
T 3	4 32 8	8° 6'35	13°11	6°49	2°38	0♐12	29°31	13°47	15°53	5°23	17°10	17°26	18°16	19°51	n.a.	T 3
W 4	4 36 4	9° 7'52	25°19	8°26	3°53	0°58	29°23	13°50	15°53	5°25	17°11	17°13	18°13	19°57	n.a.	W 4
T 5	4 40 1	10° 9'09	7♐37	10° 2	5° 9	1°43	29°15	13°52	15°54	5°27	17°12	17° 0	18°10	20° 4	n.a.	T 5
F 6	4 43 57	11°10'25	20° 6	11°40	6°24	2°29	29° 7	13°55	15°54	5°29	17°13	16°48	18° 6	20°11	n.a.	F 6
S 7	4 47 54	12°11'41	2♑44	13°17	7°40	3°15	28°59	13°57	15°55	5°30	17°13	16°38	18° 3	20°17	n.a.	S 7
S 8	4 51 50	13°12'57	15°33	14°55	8°55	4° 0	28°52	13°59	15°55	5°32	17°14	16°31	18° 0	20°24	n.a.	S 8
M 9	4 55 47	14°14'13	28°33	16°33	10°11	4°46	28°44	14° 1	15°56	5°34	17°15	16°27	17°57	20°31	n.a.	M 9
T 10	4 59 44	15°15'28	11♒45	18°12	11°26	5°32	28°37	14° 3	15°56	5°36	17°16	16°D25	17°54	20°38	n.a.	T 10
W11	5 3 40	16°16'42	25° 9	19°51	12°42	6°18	28°29	14° 4	15°57	5°38	17°17	16°25	17°51	20°44	n.a.	W11
T 12	5 7 37	17°17'56	8♓47	21°31	13°57	7° 4	28°22	14° 6	15°57	5°40	17°18	16°26	17°47	20°51	n.a.	T 12
F 13	5 11 33	18°19'08	22°40	23°11	15°13	7°50	28°14	14° 8	15°58	5°42	17°19	16°R26	17°44	20°58	n.a.	F 13
S 14	5 15 30	19°20'20	6♈49	24°51	16°28	8°35	28° 7	14° 9	15°59	5°43	17°19	16°25	17°41	21° 4	n.a.	S 14
S 15	5 19 26	20°21'31	21°12	26°32	17°44	9°21	28° 0	14°11	16° 0	5°45	17°20	16°21	17°38	21°11	n.a.	S 15
M16	5 23 23	21°22'42	5♉46	28°13	18°59	10° 7	27°53	14°12	16° 1	5°47	17°21	16°15	17°35	21°18	n.a.	M16
T 17	5 27 20	22°23'51	20°27	29°54	20°14	10°53	27°47	14°13	16° 2	5°49	17°22	16° 7	17°32	21°25	n.a.	T 17
W18	5 31 16	23°25'00	5♊ 7	1♑36	21°30	11°40	27°40	14°14	16° 3	5°50	17°23	15°58	17°28	21°31	n.a.	W18
T 19	5 35 13	24°26'08	19°39	3°18	22°45	12°26	27°33	14°15	16° 4	5°52	17°24	15°50	17°25	21°38	n.a.	T 19
F 20	5 39 9	25°27'15	3♋56	5° 0	24° 1	13°12	27°27	14°16	16° 5	5°53	17°25	15°42	17°22	21°45	n.a.	F 20
S 21	5 43 6	26°28'22	17°51	6°42	25°16	13°58	27°21	14°17	16° 6	5°55	17°27	15°37	17°19	21°51	n.a.	S 21
S 22	5 47 2	27°29'27	1♌23	8°24	26°31	14°44	27°15	14°17	16° 7	5°57	17°28	15°33	17°16	21°58	n.a.	S 22
M23	5 50 59	28°30'33	14°29	10° 6	27°47	15°30	27° 9	14°18	16° 8	5°58	17°29	15°D32	17°12	22° 5	n.a.	M23
T 24	5 54 55	29°31'37	27°13	11°48	29° 2	16°17	27° 3	14°18	16°10	6° 0	17°30	15°33	17° 9	22°11	n.a.	T 24
W25	5 58 52	0♑32'41	9♍36	13°29	0♑17	17° 3	26°57	14°18	16°11	6° 1	17°31	15°34	17° 6	22°18	n.a.	W25
T 26	6 2 49	1°33'44	21°44	15°10	1°33	17°49	26°51	14°19	16°12	6° 3	17°32	15°36	17° 3	22°25	n.a.	T 26
F 27	6 6 45	2°34'46	3♎41	16°49	2°48	18°36	26°46	14°R19	16°14	6° 4	17°33	15°R36	17° 0	22°32	n.a.	F 27
S 28	6 10 42	3°35'47	15°32	18°27	4° 3	19°22	26°41	14°19	16°15	6° 6	17°35	15°35	16°57	22°38	n.a.	S 28
S 29	6 14 38	4°36'48	27°23	20° 4	5°18	20° 9	26°36	14°19	16°17	6° 7	17°36	15°33	16°53	22°45	n.a.	S 29
M30	6 18 35	5°37'48	9♏19	21°39	6°34	20°55	26°31	14°18	16°18	6° 8	17°37	15°28	16°50	22°52	n.a.	M30
T 31	6 22 31	6♑38'47	21♏22	23♑11	7♑49	21♐41	26♉26	14♍18	16♓20	6♏10	17♒38	15♒22	16♒47	22♎58	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	21 s34	11 s43	4 s25	22 s24	1 s18	20 s17	0n 8	20 s29	0 s24	19n49	0 s32	8n34	2n16	6 s19	0 s45	11 s43	1n50	29 s38	14 s32	15 s40	15 s30	11 s56			n.a.
M 2	21 45	16 32	4 49	22 47	1 23	20 35	0 6	20 40	0 25	19 48	0 32	8 34	2 17	6 19	0 45	11 43	1 50	29 38	14 31	15 43	15 31	11 59			n.a.
T 3	21 55	20 44	5 0	23 9	1 28	20 53	0 3	20 50	0 25	19 46	0 31	8 33	2 17	6 19	0 45	11 44	1 50	29 37	14 31	15 47	15 32	12 2			n.a.
W 4	22 5	24 8	4 58	23 29	1 33	21 10	0 1	21 1	0 26	19 45	0 31	8 32	2 17	6 19	0 45	11 45	1 50	29 37	14 31	15 51	15 33	12 5			n.a.
T 5	22 14	26 28	4 42	23 49	1 37	21 26	0s 2	21 11	0 26	19 43	0 31	8 31	2 17	6 19	0 45	11 45	1 50	29 36	14 30	15 55	15 34	12 8			n.a.
F 6	22 23	27 33	4 13	24 7	1 41	21 42	0 4	21 21	0 27	19 42	0 31	8 31	2 18	6 19	0 45	11 46	1 50	29 36	14 30	15 59	15 35	12 11			n.a.
S 7	22 31	27 12	3 30	24 23	1 45	21 57	0 6	21 30	0 28	19 40	0 31	8 30	2 18	6 18	0 45	11 47	1 50	29 35	14 30	16 2	15 36	12 14			n.a.
S 8	22 39	25 23	2 36	24 39	1 48	22 11	0 9	21 40	0 28	19 38	0 31	8 30	2 18	6 18	0 45	11 47	1 50	29 34	14 30	16 4	15 37	12 16			n.a.
M 9	22 46	22 13	1 34	24 53	1 51	22 25	0 11	21 49	0 29	19 37	0 30	8 29	2 19	6 18	0 45	11 48	1 51	29 34	14 29	16 5	15 38	12 19			n.a.
T 10	22 53	17 52	0 25	25 5	1 54	22 38	0 13	21 58	0 30	19 35	0 30	8 29	2 19	6 18	0 45	11 48	1 51	29 33	14 29	16 6	15 39	12 22			n.a.
W11	23 0	12 34	0n46	25 16	1 57	22 51	0 16	22 6	0 30	19 34	0 30	8 28	2 19	6 17	0 45	11 49	1 51	29 33	14 29	16 6	15 40	12 25			n.a.
T 12	23 6	6 34	1 57	25 25	1 59	23 2	0 18	22 15	0 31	19 33	0 30	8 28	2 19	6 17	0 45	11 50	1 51	29 32	14 29	16 6	15 41	12 28			n.a.
F 13	23 12	0 11	3 1	25 33	2 1	23 14	0 20	22 23	0 31	19 31	0 30	8 28	2 20	6 17	0 45	11 50	1 51	29 32	14 28	16 6	15 42	12 31			n.a.
S 14	23 17	6n20	3 56	25 39	2 2	23 24	0 23	22 31	0 32	19 30	0 29	8 27	2 20	6 16	0 45	11 51	1 51	29 31	14 28	16 6	15 43	12 34			n.a.
S 15	23 22	12 38	4 37	25 44	2 3	23 34	0 25	22 39	0 33	19 28	0 29	8 27	2 20	6 16	0 45	11 51	1 51	29 31	14 28	16 7	15 44	12 37			n.a.
M16	23 26	18 19	5 0	25 46	2 4	23 42	0 27	22 47	0 33	19 27	0 29	8 27	2 21	6 16	0 45	11 52	1 51	29 30	14 28	16 9	15 45	12 40			n.a.
T 17	23 30	22 57	5 5	25 47	2 4	23 51	0 30	22 54	0 34	19 25	0 29	8 27	2 21	6 15	0 44	11 52	1 51	29 30	14 27	16 11	15 46	12 43			n.a.
W18	23 33	26 8	4 49	25 46	2 4	23 58	0 32	23 1	0 35	19 24	0 29	8 26	2 21	6 15	0 44	11 53	1 51	29 29	14 27	16 14	15 47	12 46			n.a.
T 19	23 36	27 32	4 14	25 44	2 3	24 5	0 34	23 8	0 35	19 23	0 28	8 26	2 21	6 14	0 44	11 53	1 51	29 28	14 27	16 17	15 48	12 49			n.a.
F 20	23 38	27 4	3 24	25 39	2 2	24 11	0 36	23 14	0 36	19 22	0 28	8 26	2 22	6 14	0 44	11 54	1 51	29 28	14 27	16 19	15 49	12 52			n.a.
S 21	23 40	24 53	2 23	25 33	2 0	24 16	0 38	23 21	0 36	19 20	0 28	8 26	2 22	6 14	0 44	11 54	1 51	29 27	14 26	16 21	15 50	12 55			n.a.
S 22	23 42	21 19	1 16	25 24	1 58	24 21	0 40	23 27	0 37	19 19	0 28	8 26	2 22	6 13	0 44	11 55	1 51	29 27	14 26	16 21	15 50	12 58			n.a.
M23	23 43	16 46	0 6	25 14	1 55	24 24	0 42	23 32	0 38	19 18	0 28	8 26	2 23	6 12	0 44	11 55	1 51	29 26	14 26	16 22	15 51	13 0			n.a.
T 24	23 43	11 36	1s 3	25 2	1 51	24 27	0 44	23 38	0 38	19 17	0 28	8 26	2 23	6 12	0 44	11 56	1 51	29 25	14 26	16 22	15 52	13 3			n.a.
W25	23 43	6 7	2 6	24 47	1 46	24 29	0 46	23 43	0 39	19 16	0 27	8 27	2 23	6 11	0 44	11 56	1 51	29 25	14 25	16 21	15 53	13 6			n.a.
T 26	23 42	0 31	3 3	24 31	1 41	24 31	0 48	23 48	0 39	19 15	0 27	8 27	2 23	6 11	0 44	11 57	1 51	29 24	14 25	16 21	15 54	13 9			n.a.
F 27	23 42	5s 0	3 51	24 13	1 35	24 32	0 50	23 53	0 40	19 13	0 27	8 27	2 24	6 10	0 44	11 57	1 51	29 24	14 25	16 21	15 55	13 12			n.a.
S 28	23 40	10 18	4 28	23 54	1 29	24 32	0 52	23 58	0 41	19 12	0 27	8 27	2 24	6 10	0 44	11 57	1 51	29 23	14 25	16 21	15 56	13 15			n.a.
S 29	23 38	15 14	4 54	23 32	1 21	24 31	0 54	24 2	0 41	19 11	0 26	8 28	2 24	6 9	0 44	11 58	1 51	29 23	14 25	16 22	15 57	13 18			n.a.
M30	23 36	19 37	5 8	23 9	1 13	24 29	0 56	24 6	0 42	19 11	0 26	8 28	2 25	6 8	0 44	11 58	1 51	29 22	14 24	16 23	15 58	13 21			n.a.
T 31	23 s33	23 s15	5 s 8	22 s45	1 s 4	24 s27	0 s58	24 s 9	0 s42	19n10	0 s26	8n28	2n25	6 s 8	0 s44	11 s59	1n51	29 s21	14 s24	16 s25	15 s59	13 s24			n.a.

Julian Day Number = 1659299.5, Delta T = 03h26m38s
Ecliptic obliquity = 23°43'03, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°24'57, Lahiri = - 6°17'57 Julian Calendar 1 Dec. 171 BCE == Greg. Calendar 28 Nov. 171 BCE

The year -170 astronomical counting style corresponds to year 171 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 170 BCE
geocentric

JANUARY 170 BCE (-169) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 26 28	7♉39'45	3♐37	24♉40	9♉ 4	22♐28	26°R22	14°R18	16♓22	6♏11	17♒39	15°R15	16♒44	23♎ 5	n.a.	W 1
T 2	6 30 24	8°40'43	16° 5	26° 6	10°20	23°14	26♉17	14♍17	16°23	6°12	17°41	15♒ 8	16°41	23°12	n.a.	T 2
F 3	6 34 21	9°41'39	28°47	27°28	11°35	24° 1	26°13	14°16	16°25	6°14	17°42	15° 1	16°38	23°19	n.a.	F 3
S 4	6 38 18	10°42'34	11♉44	28°45	12°50	24°48	26° 9	14°16	16°27	6°15	17°43	14°56	16°34	23°25	n.a.	S 4
S 5	6 42 14	11°43'27	24°55	29°56	14° 5	25°34	26° 5	14°15	16°29	6°16	17°45	14°53	16°31	23°32	n.a.	S 5
M 6	6 46 11	12°44'19	8♒19	1♒ 1	15°20	26°21	26° 2	14°14	16°31	6°17	17°46	14°D51	16°28	23°39	n.a.	M 6
T 7	6 50 7	13°45'10	21°54	1°59	16°36	27° 7	25°58	14°13	16°32	6°18	17°47	14°51	16°25	23°45	n.a.	T 7
W 8	6 54 4	14°45'59	5♓40	2°49	17°51	27°54	25°55	14°12	16°34	6°20	17°49	14°52	16°22	23°52	n.a.	W 8
T 9	6 58 0	15°46'46	19°33	3°30	19° 6	28°41	25°52	14°10	16°36	6°21	17°50	14°54	16°18	23°59	n.a.	T 9
F 10	7 1 57	16°47'32	3♈34	4° 2	20°21	29°28	25°49	14° 9	16°38	6°22	17°51	14°55	16°15	24° 6	n.a.	F 10
S 11	7 5 54	17°48'16	17°42	4°24	21°36	0♉14	25°47	14° 7	16°41	6°23	17°53	14°R56	16°12	24°12	n.a.	S 11
S 12	7 9 50	18°48'58	1♉53	4°36	22°51	1° 1	25°44	14° 6	16°43	6°24	17°54	14°55	16° 9	24°19	n.a.	S 12
M13	7 13 47	19°49'38	16° 8	4°R37	24° 6	1°48	25°42	14° 4	16°45	6°25	17°56	14°53	16° 6	24°26	n.a.	M13
T 14	7 17 43	20°50'17	0♊22	4°27	25°22	2°34	25°40	14° 2	16°47	6°26	17°57	14°51	16° 3	24°32	n.a.	T 14
W15	7 21 40	21°50'54	14°32	4° 7	26°37	3°21	25°38	14° 0	16°49	6°26	17°59	14°47	15°59	24°39	n.a.	W15
T 16	7 25 36	22°51'29	28°34	3°37	27°52	4° 8	25°36	13°59	16°52	6°27	18° 0	14°44	15°56	24°46	n.a.	T 16
F 17	7 29 33	23°52'02	12♋24	2°58	29° 7	4°55	25°35	13°56	16°54	6°28	18° 1	14°41	15°53	24°53	n.a.	F 17
S 18	7 33 29	24°52'34	25°59	2°10	0♒22	5°42	25°34	13°54	16°56	6°29	18° 3	14°39	15°50	24°59	n.a.	S 18
S 19	7 37 26	25°53'03	9♌16	1°15	1°37	6°29	25°33	13°52	16°59	6°30	18° 4	14°D38	15°47	25° 6	n.a.	S 19
M20	7 41 23	26°53'31	22°14	0°15	2°52	7°15	25°32	13°50	17° 1	6°30	18° 6	14°38	15°44	25°13	n.a.	M20
T 21	7 45 19	27°53'58	4♍55	29♉10	4° 7	8° 2	25°31	13°47	17° 4	6°31	18° 7	14°39	15°40	25°19	n.a.	T 21
W22	7 49 16	28°54'23	17°18	28° 4	5°22	8°49	25°31	13°45	17° 6	6°32	18° 9	14°40	15°37	25°26	n.a.	W22
T 23	7 53 12	29°54'46	29°28	26°57	6°36	9°36	25°30	13°42	17° 9	6°32	18°10	14°42	15°34	25°33	n.a.	T 23
F 24	7 57 9	0♒55'08	11♎27	25°51	7°51	10°23	25°D30	13°39	17°11	6°33	18°12	14°43	15°31	25°40	n.a.	F 24
S 25	8 1 5	1°55'28	23°21	24°48	9° 6	11°10	25°31	13°37	17°14	6°34	18°13	14°44	15°28	25°46	n.a.	S 25
S 26	8 5 2	2°55'46	5♏13	23°50	10°21	11°57	25°31	13°34	17°17	6°34	18°15	14°R44	15°24	25°53	n.a.	S 26
M27	8 8 58	3°56'04	17° 9	22°56	11°36	12°44	25°31	13°31	17°19	6°35	18°17	14°44	15°21	26° 0	n.a.	M27
T 28	8 12 55	4°56'19	29°13	22° 8	12°51	13°31	25°32	13°28	17°22	6°35	18°18	14°43	15°18	26° 6	n.a.	T 28
W29	8 16 52	5°56'33	11♐30	21°26	14° 6	14°18	25°33	13°25	17°25	6°35	18°20	14°42	15°15	26°13	n.a.	W29
T 30	8 20 48	6°56'45	24° 2	20°52	15°20	15° 5	25°34	13°21	17°27	6°36	18°21	14°41	15°12	26°20	n.a.	T 30
F 31	8 24 45	7♒56'56	6♉53	20♉24	16♒35	15♉51	25♉36	13♍18	17♓30	6♏36	18♒23	14♒40	15♒ 9	26♎27	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	23s30	25s56	4s54	22s19	0s54	24s24	0s59	24s13	0s43	19n 9	0s26	8n29	2n25	6s 7	0s44	11s59	1n52	29s21	14s24	16s27	16s 0	13s26			n.a.
T 2	23 26	27 23	4 26	21 52	0 43	24 20	1 1	24 16	0 43	19 8	0 26	8 29	2 25	6 6	0 44	11 59	1 52	29 20	14 24	16 29	16 1	13 29			n.a.
F 3	23 22	27 27	3 45	21 25	0 31	24 15	1 3	24 19	0 44	19 7	0 25	8 30	2 26	6 6	0 44	12 0	1 52	29 20	14 24	16 31	16 2	13 32			n.a.
S 4	23 17	26 1	2 51	20 56	0 18	24 10	1 4	24 21	0 45	19 6	0 25	8 30	2 26	6 5	0 44	12 0	1 52	29 19	14 23	16 33	16 3	13 35			n.a.
S 5	23 12	23 8	1 47	20 28	0 4	24 3	1 6	24 24	0 45	19 6	0 25	8 31	2 26	6 4	0 44	12 1	1 52	29 18	14 23	16 34	16 4	13 38			n.a.
M 6	23 6	18 58	0 36	20 0	0n10	23 56	1 7	24 26	0 46	19 5	0 25	8 31	2 27	6 3	0 44	12 1	1 52	29 18	14 23	16 34	16 5	13 41			n.a.
T 7	23 0	13 46	0n39	19 32	0 26	23 49	1 9	24 27	0 46	19 4	0 25	8 32	2 27	6 2	0 44	12 1	1 52	29 17	14 23	16 34	16 6	13 44			n.a.
W 8	22 53	7 49	1 51	19 5	0 42	23 40	1 10	24 29	0 47	19 4	0 24	8 33	2 27	6 2	0 44	12 2	1 52	29 17	14 23	16 34	16 7	13 47			n.a.
T 9	22 46	1 27	2 59	18 39	0 58	23 31	1 12	24 30	0 47	19 3	0 24	8 34	2 27	6 1	0 44	12 2	1 52	29 16	14 23	16 33	16 8	13 49			n.a.
F 10	22 39	5n 2	3 56	18 15	1 15	23 21	1 13	24 31	0 48	19 3	0 24	8 34	2 28	6 0	0 44	12 2	1 52	29 15	14 22	16 33	16 9	13 52			n.a.
S 11	22 31	11 18	4 39	17 53	1 32	23 11	1 14	24 31	0 48	19 2	0 24	8 35	2 28	5 59	0 44	12 2	1 52	29 15	14 22	16 33	16 10	13 55			n.a.
S 12	22 23	17 2	5 6	17 34	1 50	23 0	1 15	24 32	0 49	19 2	0 24	8 36	2 28	5 58	0 43	12 3	1 52	29 14	14 22	16 33	16 11	13 58			n.a.
M13	22 14	21 51	5 14	17 17	2 7	22 48	1 17	24 32	0 49	19 2	0 23	8 37	2 28	5 57	0 43	12 3	1 52	29 14	14 22	16 33	16 12	14 1			n.a.
T 14	22 5	25 23	5 2	17 3	2 23	22 35	1 18	24 32	0 50	19 1	0 23	8 38	2 29	5 56	0 43	12 3	1 52	29 13	14 22	16 34	16 13	14 4			n.a.
W15	21 55	27 19	4 33	16 52	2 39	22 22	1 19	24 31	0 51	19 1	0 23	8 39	2 29	5 56	0 43	12 3	1 52	29 12	14 22	16 35	16 14	14 6			n.a.
T 16	21 45	27 29	3 47	16 45	2 54	22 8	1 20	24 30	0 51	19 1	0 23	8 40	2 29	5 55	0 43	12 4	1 52	29 12	14 22	16 36	16 15	14 9			n.a.
F 17	21 35	25 55	2 48	16 41	3 8	21 53	1 21	24 29	0 52	19 1	0 23	8 41	2 29	5 54	0 43	12 4	1 52	29 11	14 21	16 37	16 16	14 12			n.a.
S 18	21 24	22 51	1 41	16 39	3 20	21 38	1 21	24 28	0 52	19 1	0 22	8 42	2 30	5 53	0 43	12 4	1 52	29 11	14 21	16 38	16 17	14 15			n.a.
S 19	21 13	18 37	0 30	16 42	3 30	21 22	1 22	24 26	0 53	19 1	0 22	8 43	2 30	5 52	0 43	12 4	1 53	29 10	14 21	16 38	16 18	14 18			n.a.
M20	21 1	13 36	0s42	16 46	3 39	21 6	1 23	24 24	0 53	19 1	0 22	8 44	2 30	5 51	0 43	12 4	1 53	29 9	14 21	16 38	16 18	14 20			n.a.
T 21	20 49	8 7	1 50	16 54	3 45	20 48	1 24	24 22	0 54	19 1	0 22	8 45	2 30	5 50	0 43	12 5	1 53	29 9	14 21	16 38	16 19	14 23			n.a.
W22	20 37	2 27	2 51	17 3	3 48	20 31	1 24	24 19	0 54	19 1	0 22	8 47	2 31	5 49	0 43	12 5	1 53	29 8	14 21	16 37	16 20	14 26			n.a.
T 23	20 24	3s11	3 43	17 15	3 50	20 12	1 25	24 16	0 55	19 1	0 21	8 48	2 31	5 48	0 43	12 5	1 53	29 8	14 21	16 37	16 21	14 29			n.a.
F 24	20 11	8 38	4 25	17 28	3 49	19 53	1 25	24 13	0 55	19 1	0 21	8 49	2 31	5 47	0 43	12 5	1 53	29 7	14 21	16 36	16 22	14 32			n.a.
S 25	19 58	13 43	4 55	17 42	3 46	19 34	1 26	24 10	0 56	19 1	0 21	8 51	2 31	5 46	0 43	12 5	1 53	29 7	14 21	16 36	16 23	14 34			n.a.
S 26	19 44	18 18	5 12	17 57	3 42	19 14	1 26	24 6	0 56	19 2	0 21	8 52	2 32	5 45	0 43	12 5	1 53	29 6	14 21	16 36	16 24	14 37			n.a.
M27	19 30	22 11	5 16	18 13	3 35	18 53	1 26	24 2	0 57	19 2	0 21	8 53	2 32	5 43	0 43	12 5	1 53	29 5	14 21	16 36	16 25	14 40			n.a.
T 28	19 15	25 12	5 6	18 28	3 27	18 32	1 27	23 58	0 57	19 2	0 20	8 55	2 32	5 42	0 43	12 6	1 53	29 5	14 21	16 37	16 26	14 43			n.a.
W29	19 0	27 5	4 43	18 44	3 17	18 10	1 27	23 54	0 57	19 3	0 20	8 56	2 32	5 41	0 43	12 6	1 53	29 4	14 21	16 37	16 27	14 45			n.a.
T 30	18 45	27 40	4 5	19 0	3 7	17 48	1 27	23 49	0 58	19 3	0 20	8 57	2 33	5 40	0 43	12 6	1 53	29 4	14 20	16 37	16 28	14 48			n.a.
F 31	18s30	26s46	3s14	19s15	2n55	17s26	1s27	23s44	0s58	19n 4	0s20	8n59	2n33	5s39	0s43	12s 6	1n53	29s 3	14s20	16s37	16s29	14s51			n.a.

Julian Day Number = 1659330.5, Delta T = 03h26m37s
Ecliptic obliquity = 23°43'03, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°24'53, Lahiri = - 6°17'53 Julian Calendar 1 Jan. 170 BCE == Greg. Calendar 29 Dec. 171 BCE

The year -169 astronomical counting style corresponds to year 170 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 170 BCE
geocentric

FEBRUARY 170 BCE (-169) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 28 41	8♒57'04	20♉ 3	20°R 3	17♒50	16♉38	25♉37	13°R15	17♓33	6♏37	18♒24	14°R39	15♒ 5	26♎33	n.a.	S 1
S 2	8 32 38	9°57'11	3♒34	19♉50	19° 5	17°25	25°39	13♍11	17°36	6°37	18°26	14♒39	15° 2	26°40	n.a.	S 2
M 3	8 36 34	10°57'16	17°22	19°43	20°20	18°12	25°41	13° 8	17°39	6°37	18°27	14°D39	14°59	26°47	n.a.	M 3
T 4	8 40 31	11°57'19	1♓24	19°D43	21°34	18°59	25°43	13° 4	17°42	6°37	18°29	14°39	14°56	26°54	n.a.	T 4
W 5	8 44 27	12°57'20	15°38	19°49	22°49	19°46	25°45	13° 1	17°45	6°38	18°31	14°39	14°53	27° 0	n.a.	W 5
T 6	8 48 24	13°57'18	29°59	20° 1	24° 4	20°33	25°48	12°57	17°48	6°38	18°32	14°39	14°50	27° 7	n.a.	T 6
F 7	8 52 21	14°57'14	14♈21	20°19	25°18	21°20	25°50	12°53	17°51	6°38	18°34	14°R39	14°46	27°14	n.a.	F 7
S 8	8 56 17	15°57'08	28°41	20°41	26°33	22° 7	25°53	12°49	17°54	6°38	18°35	14°39	14°43	27°20	n.a.	S 8
S 9	9 0 14	16°56'59	12♉56	21° 9	27°48	22°54	25°56	12°46	17°57	6°38	18°37	14°D39	14°40	27°27	n.a.	S 9
M10	9 4 10	17°56'49	27° 3	21°42	29° 2	23°41	25°59	12°42	18° 0	6°R38	18°38	14°39	14°37	27°34	n.a.	M10
T 11	9 8 7	18°56'36	11♊ 1	22°18	0♓17	24°28	26° 3	12°38	18° 3	6°38	18°40	14°39	14°34	27°41	n.a.	T 11
W12	9 12 3	19°56'20	24°47	22°59	1°31	25°15	26° 6	12°34	18° 6	6°38	18°42	14°39	14°30	27°47	n.a.	W12
T 13	9 16 0	20°56'02	8♋22	23°44	2°46	26° 2	26°10	12°29	18° 9	6°38	18°43	14°40	14°27	27°54	n.a.	T 13
F 14	9 19 56	21°55'42	21°43	24°32	4° 0	26°49	26°14	12°25	18°12	6°38	18°45	14°41	14°24	28° 1	n.a.	F 14
S 15	9 23 53	22°55'20	4♌52	25°23	5°15	27°36	26°18	12°21	18°15	6°38	18°46	14°41	14°21	28° 7	n.a.	S 15
S 16	9 27 50	23°54'55	17°48	26°18	6°29	28°23	26°23	12°17	18°19	6°37	18°48	14°R41	14°18	28°14	n.a.	S 16
M17	9 31 46	24°54'28	0♍30	27°15	7°43	29°10	26°27	12°13	18°22	6°37	18°50	14°41	14°15	28°21	n.a.	M17
T 18	9 35 43	25°53'59	12°59	28°15	8°58	29°57	26°32	12° 8	18°25	6°37	18°51	14°40	14°11	28°28	n.a.	T 18
W19	9 39 39	26°53'28	25°16	29°18	10°12	0♒44	26°37	12° 4	18°28	6°37	18°53	14°38	14° 8	28°34	n.a.	W19
T 20	9 43 36	27°52'55	7♎23	0♒23	11°27	1°31	26°41	12° 0	18°31	6°36	18°54	14°36	14° 5	28°41	n.a.	T 20
F 21	9 47 32	28°52'20	19°22	1°31	12°41	2°17	26°47	11°55	18°35	6°36	18°56	14°34	14° 2	28°48	n.a.	F 21
S 22	9 51 29	29°51'43	1♏15	2°41	13°55	3° 4	26°52	11°51	18°38	6°36	18°57	14°32	13°59	28°54	n.a.	S 22
S 23	9 55 25	0♓51'05	13° 8	3°53	15° 9	3°51	26°57	11°46	18°41	6°35	18°59	14°31	13°55	29° 1	n.a.	S 23
M24	9 59 22	1°50'24	25° 3	5° 7	16°24	4°38	27° 3	11°42	18°45	6°35	19° 0	14°30	13°52	29° 8	n.a.	M24
T 25	10 3 18	2°49'41	7♐ 6	6°23	17°38	5°25	27° 9	11°37	18°48	6°34	19° 2	14°D30	13°49	29°15	n.a.	T 25
W26	10 7 15	3°48'57	19°21	7°41	18°52	6°12	27°15	11°33	18°51	6°34	19° 4	14°30	13°46	29°21	n.a.	W26
T 27	10 11 12	4°48'11	1♑52	9° 0	20° 6	6°59	27°21	11°28	18°55	6°33	19° 5	14°32	13°43	29°28	n.a.	T 27
F 28	10 15 8	5♓47'23	14♑43	10♒22	21♓20	7♒45	27♉27	11♍23	18♓58	6♏33	19♒ 7	14♒33	13♒40	29♎35	n.a.	F 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s14	24s23	2s12	19s30	2n43	17s 2	1s27	23s38	0s59	19n 4	0s20	9n 0	2n33	5s38	0s43	12s 6	1n53	29s 3	14s20	16s38	16s30	14s54		n.a.
S 2	17 58	20 34	1 1	19 45	2 31	16 39	1 27	23 33	0 59	19 5	0 19	9 2	2 33	5 37	0 43	12 6	1 53	29 2	14 20	16 38	16 31	14 56		n.a.
M 3	17 41	15 34	0n15	19 58	2 18	16 15	1 27	23 27	1 0	19 5	0 19	9 3	2 33	5 36	0 43	12 6	1 53	29 1	14 20	16 38	16 32	14 59		n.a.
T 4	17 24	9 40	1 32	20 11	2 5	15 50	1 26	23 21	1 0	19 6	0 19	9 5	2 34	5 34	0 43	12 6	1 54	29 1	14 20	16 38	16 33	15 2		n.a.
W 5	17 7	3 13	2 44	20 24	1 52	15 25	1 26	23 14	1 1	19 7	0 19	9 7	2 34	5 33	0 43	12 6	1 54	29 0	14 20	16 38	16 34	15 5		n.a.
T 6	16 50	3n26	3 46	20 35	1 39	15 0	1 26	23 8	1 1	19 8	0 19	9 8	2 34	5 32	0 43	12 6	1 54	29 0	14 20	16 38	16 35	15 7		n.a.
F 7	16 32	9 55	4 34	20 45	1 25	14 34	1 25	23 1	1 1	19 8	0 18	9 10	2 34	5 31	0 43	12 6	1 54	28 59	14 20	16 38	16 35	15 10		n.a.
S 8	16 14	15 52	5 5	20 55	1 13	14 8	1 25	22 54	1 2	19 9	0 18	9 12	2 34	5 30	0 43	12 6	1 54	28 59	14 20	16 38	16 36	15 13		n.a.
S 9	15 56	20 55	5 17	21 3	1 0	13 42	1 24	22 46	1 2	19 10	0 18	9 13	2 35	5 28	0 43	12 6	1 54	28 58	14 20	16 38	16 37	15 16		n.a.
M10	15 38	24 45	5 10	21 10	0 47	13 15	1 24	22 38	1 3	19 11	0 18	9 15	2 35	5 27	0 43	12 6	1 54	28 58	14 20	16 38	16 38	15 18		n.a.
T 11	15 19	27 3	4 44	21 16	0 35	12 48	1 23	22 30	1 3	19 12	0 18	9 17	2 35	5 26	0 43	12 6	1 54	28 57	14 20	16 38	16 39	15 21		n.a.
W12	15 0	27 39	4 3	21 21	0 23	12 20	1 22	22 22	1 3	19 13	0 18	9 18	2 35	5 25	0 43	12 6	1 54	28 57	14 20	16 38	16 40	15 24		n.a.
T 13	14 41	26 35	3 8	21 25	0 12	11 52	1 22	22 14	1 4	19 14	0 17	9 20	2 35	5 23	0 43	12 6	1 54	28 56	14 20	16 37	16 41	15 26		n.a.
F 14	14 22	23 59	2 4	21 27	0 1	11 24	1 21	22 5	1 4	19 15	0 17	9 22	2 35	5 22	0 43	12 5	1 54	28 56	14 20	16 37	16 42	15 29		n.a.
S 15	14 2	20 9	0 54	21 29	0s10	10 56	1 20	21 56	1 4	19 17	0 17	9 24	2 35	5 21	0 43	12 5	1 54	28 55	14 21	16 37	16 43	15 32		n.a.
S 16	13 42	15 24	0s17	21 28	0 21	10 27	1 19	21 47	1 5	19 18	0 17	9 25	2 36	5 20	0 43	12 5	1 54	28 55	14 21	16 37	16 44	15 35		n.a.
M17	13 22	10 5	1 26	21 27	0 31	9 58	1 18	21 38	1 5	19 19	0 17	9 27	2 36	5 18	0 43	12 5	1 54	28 54	14 21	16 37	16 45	15 37		n.a.
T 18	13 2	4 27	2 30	21 24	0 40	9 29	1 17	21 28	1 6	19 20	0 16	9 29	2 36	5 17	0 43	12 5	1 54	28 54	14 21	16 37	16 46	15 40		n.a.
W19	12 42	1s15	3 26	21 20	0 49	9 0	1 16	21 18	1 6	19 22	0 16	9 31	2 36	5 16	0 43	12 5	1 54	28 53	14 21	16 38	16 47	15 43		n.a.
T 20	12 21	6 48	4 12	21 15	0 58	8 30	1 14	21 8	1 6	19 23	0 16	9 33	2 36	5 14	0 43	12 5	1 54	28 53	14 21	16 38	16 48	15 45		n.a.
F 21	12 0	12 3	4 46	21 8	1 6	8 0	1 13	20 57	1 7	19 24	0 16	9 34	2 36	5 13	0 43	12 5	1 55	28 53	14 21	16 39	16 49	15 48		n.a.
S 22	11 39	16 50	5 7	21 0	1 14	7 30	1 12	20 47	1 7	19 26	0 16	9 36	2 36	5 12	0 42	12 4	1 55	28 52	14 21	16 40	16 49	15 51		n.a.
S 23	11 18	20 58	5 15	20 50	1 22	7 0	1 10	20 36	1 7	19 27	0 16	9 38	2 36	5 11	0 42	12 4	1 55	28 52	14 21	16 40	16 50	15 53		n.a.
M24	10 57	24 16	5 10	20 39	1 29	6 29	1 9	20 25	1 8	19 29	0 15	9 40	2 37	5 9	0 42	12 4	1 55	28 51	14 21	16 40	16 51	15 56		n.a.
T 25	10 35	26 32	4 51	20 26	1 36	5 58	1 7	20 14	1 8	19 30	0 15	9 42	2 37	5 8	0 42	12 4	1 55	28 51	14 21	16 40	16 52	15 59		n.a.
W26	10 13	27 35	4 19	20 12	1 42	5 28	1 6	20 2	1 8	19 32	0 15	9 44	2 37	5 7	0 42	12 4	1 55	28 50	14 21	16 40	16 53	16 1		n.a.
T 27	9 52	27 16	3 34	19 56	1 47	4 57	1 4	19 51	1 8	19 33	0 15	9 45	2 37	5 5	0 42	12 3	1 55	28 50	14 21	16 40	16 54	16 4		n.a.
F 28	9s30	25s30	2s37	19s39	1s53	4s26	1s 2	19s39	1s 9	19n35	0s15	9n47	2n37	5s 4	0s42	12s 3	1n55	28s50	14s22	16s39	16s55	16s 7		n.a.

Julian Day Number = 1659361.5, Delta T = 03h26m36s
Ecliptic obliquity = 23°43'03, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°24'49, Lahiri = - 6°17'48 Julian Calendar 1 Feb. 170 BCE == Greg. Calendar 29 Jan. 170 BCE

The year -169 astronomical counting style corresponds to year 170 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 170 BCE
geocentric

MARCH 170 BCE (-169) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 19 5	6♓46'33	27♉58	11♒45	22♓34	8♒32	27♉34	11°R19	19♓ 1	6°R32	19♒ 8	14♒35	13♒36	29♎41	n.a.	S 1
S 2	10 23 1	7°45'41	11♒37	13°10	23°48	9°19	27°40	11♍14	19° 5	6♏32	19°10	14°R35	13°33	29°48	n.a.	S 2
M 3	10 26 58	8°44'47	25°41	14°36	25° 2	10° 6	27°47	11°10	19° 8	6°31	19°11	14°35	13°30	29°55	n.a.	M 3
T 4	10 30 54	9°43'50	10♓ 6	16° 4	26°16	10°53	27°54	11° 5	19°11	6°30	19°13	14°33	13°27	0♏ 2	n.a.	T 4
W 5	10 34 51	10°42'52	24°46	17°34	27°30	11°39	28° 1	11° 0	19°15	6°30	19°14	14°31	13°24	0° 8	n.a.	W 5
T 6	10 38 47	11°41'51	9♈35	19° 5	28°44	12°26	28° 8	10°56	19°18	6°29	19°16	14°27	13°21	0°15	n.a.	T 6
F 7	10 42 44	12°40'49	24°24	20°38	29°58	13°13	28°15	10°51	19°22	6°28	19°17	14°23	13°17	0°22	n.a.	F 7
S 8	10 46 41	13°39'44	9♉ 7	22°12	1♈12	13°59	28°23	10°46	19°25	6°27	19°19	14°19	13°14	0°29	n.a.	S 8
S 9	10 50 37	14°38'36	23°36	23°48	2°26	14°46	28°30	10°42	19°29	6°26	19°20	14°17	13°11	0°35	n.a.	S 9
M10	10 54 34	15°37'26	7♊49	25°26	3°40	15°33	28°38	10°37	19°32	6°26	19°22	14°15	13° 8	0°42	n.a.	M10
T 11	10 58 30	16°36'14	21°42	27° 4	4°54	16°19	28°46	10°33	19°35	6°25	19°23	14°D15	13° 5	0°49	n.a.	T 11
W12	11 2 27	17°35'00	5♋17	28°45	6° 7	17° 6	28°54	10°28	19°39	6°24	19°24	14°16	13° 1	0°55	n.a.	W12
T 13	11 6 23	18°33'43	18°34	0♓27	7°21	17°52	29° 2	10°23	19°42	6°23	19°26	14°18	12°58	1° 2	n.a.	T 13
F 14	11 10 20	19°32'24	1♌35	2°10	8°35	18°39	29°10	10°19	19°46	6°22	19°27	14°19	12°55	1° 9	n.a.	F 14
S 15	11 14 16	20°31'02	14°22	3°55	9°49	19°25	29°19	10°14	19°49	6°21	19°29	14°R20	12°52	1°16	n.a.	S 15
S 16	11 18 13	21°29'38	26°57	5°42	11° 2	20°12	29°27	10°10	19°53	6°20	19°30	14°19	12°49	1°22	n.a.	S 16
M17	11 22 10	22°28'13	9♍21	7°30	12°16	20°58	29°36	10° 5	19°56	6°19	19°31	14°16	12°46	1°29	n.a.	M17
T 18	11 26 6	23°26'44	21°37	9°20	13°29	21°45	29°44	10° 1	19°59	6°18	19°33	14°12	12°42	1°36	n.a.	T 18
W19	11 30 3	24°25'14	3♎44	11°11	14°43	22°31	29°53	9°57	20° 3	6°17	19°34	14° 6	12°39	1°42	n.a.	W19
T 20	11 33 59	25°23'42	15°45	13° 4	15°56	23°17	0♊ 2	9°52	20° 6	6°16	19°35	13°58	12°36	1°49	n.a.	T 20
F 21	11 37 56	26°22'08	27°41	14°58	17°10	24° 4	0°11	9°48	20°10	6°14	19°37	13°50	12°33	1°56	n.a.	F 21
S 22	11 41 52	27°20'33	9♏34	16°54	18°23	24°50	0°20	9°44	20°13	6°13	19°38	13°42	12°30	2° 3	n.a.	S 22
S 23	11 45 49	28°18'55	21°26	18°52	19°36	25°36	0°30	9°39	20°16	6°12	19°39	13°36	12°27	2° 9	n.a.	S 23
M24	11 49 45	29°17'16	3♐21	20°51	20°50	26°22	0°39	9°35	20°20	6°11	19°41	13°30	12°23	2°16	n.a.	M24
T 25	11 53 42	0♈15'35	15°22	22°51	22° 3	27° 9	0°49	9°31	20°23	6°10	19°42	13°27	12°20	2°23	n.a.	T 25
W26	11 57 38	1°13'53	27°34	24°53	23°16	27°55	0°58	9°27	20°27	6° 9	19°43	13°D26	12°17	2°30	n.a.	W26
T 27	12 1 35	2°12'09	10♑ 1	26°57	24°30	28°41	1° 8	9°23	20°30	6° 7	19°44	13°26	12°14	2°36	n.a.	T 27
F 28	12 5 32	3°10'23	22°49	29° 2	25°43	29°27	1°18	9°19	20°33	6° 6	19°46	13°27	12°11	2°43	n.a.	F 28
S 29	12 9 28	4° 8'36	6♒ 0	1♈ 8	26°56	0♓13	1°28	9°15	20°37	6° 5	19°47	13°28	12° 7	2°50	n.a.	S 29
S 30	12 13 25	5° 6'47	19°39	3°15	28° 9	0°59	1°38	9°11	20°40	6° 3	19°48	13°R28	12° 4	2°56	n.a.	S 30
M31	12 17 21	6♈ 4'57	3♓45	5♈22	29♈22	1♓45	1♊48	9♍ 7	20♓43	6♏ 2	19♒49	13♒26	12♒ 1	3♏ 3	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9s 8	22s17	1s30	19s21	1s58	3s55	1s 1	19s27	1s 9	19n36	0s15	9n49	2n37	5s 3	0s42	12s 3	1n55	28s49	14s22	16s39	16s56	16s 9		n.a.
S 2	8 45	17 46	0 16	19 0	2 2	3 23	0 59	19 15	1 9	19 38	0 14	9 51	2 37	5 1	0 42	12 3	1 55	28 49	14 22	16 39	16 57	16 12		n.a.
M 3	8 23	12 9	1n 1	18 39	2 6	2 52	0 57	19 2	1 9	19 40	0 14	9 53	2 37	5 0	0 42	12 2	1 55	28 48	14 22	16 39	16 58	16 14		n.a.
T 4	8 1	5 47	2 16	18 15	2 9	2 20	0 55	18 49	1 10	19 42	0 14	9 55	2 37	4 58	0 42	12 2	1 55	28 48	14 22	16 39	16 59	16 17		n.a.
W 5	7 38	1n 0	3 23	17 51	2 12	1 49	0 53	18 37	1 10	19 43	0 14	9 56	2 37	4 57	0 42	12 2	1 55	28 48	14 22	16 40	17 0	16 20		n.a.
T 6	7 15	7 46	4 17	17 24	2 15	1 17	0 51	18 24	1 10	19 45	0 14	9 58	2 37	4 56	0 42	12 1	1 55	28 47	14 22	16 41	17 1	16 22		n.a.
F 7	6 53	14 7	4 54	16 56	2 17	0 46	0 49	18 10	1 10	19 47	0 14	10 0	2 37	4 54	0 42	12 1	1 55	28 47	14 23	16 42	17 1	16 25		n.a.
S 8	6 30	19 36	5 11	16 27	2 18	0 14	0 47	17 57	1 11	19 49	0 13	10 2	2 37	4 53	0 42	12 1	1 55	28 47	14 23	16 43	17 2	16 27		n.a.
S 9	6 7	23 52	5 9	15 56	2 19	0n17	0 45	17 43	1 11	19 51	0 13	10 4	2 37	4 52	0 42	12 1	1 55	28 46	14 23	16 44	17 3	16 30		n.a.
M10	5 44	26 35	4 47	15 23	2 20	0 49	0 43	17 30	1 11	19 52	0 13	10 5	2 37	4 50	0 42	12 0	1 55	28 46	14 23	16 45	17 4	16 33		n.a.
T 11	5 21	27 35	4 9	14 49	2 20	1 21	0 41	17 16	1 11	19 54	0 13	10 7	2 37	4 49	0 42	12 0	1 55	28 46	14 23	16 45	17 5	16 35		n.a.
W12	4 58	26 53	3 17	14 13	2 20	1 52	0 39	17 2	1 12	19 56	0 13	10 9	2 37	4 48	0 42	12 0	1 56	28 45	14 23	16 44	17 6	16 38		n.a.
T 13	4 35	24 39	2 16	13 36	2 19	2 24	0 36	16 47	1 12	19 58	0 13	10 11	2 37	4 46	0 42	11 59	1 56	28 45	14 24	16 44	17 7	16 40		n.a.
F 14	4 11	21 9	1 9	12 57	2 17	2 55	0 34	16 33	1 12	20 0	0 13	10 13	2 37	4 45	0 42	11 59	1 56	28 45	14 24	16 44	17 8	16 43		n.a.
S 15	3 48	16 42	0s 0	12 17	2 15	3 27	0 32	16 18	1 12	20 2	0 12	10 14	2 37	4 43	0 42	11 58	1 56	28 44	14 24	16 43	17 9	16 46		n.a.
S 16	3 25	11 36	1 8	11 35	2 13	3 58	0 29	16 4	1 12	20 4	0 12	10 16	2 37	4 42	0 42	11 58	1 56	28 44	14 24	16 44	17 10	16 48		n.a.
M17	3 1	6 7	2 12	10 52	2 10	4 29	0 27	15 49	1 12	20 6	0 12	10 18	2 37	4 41	0 42	11 58	1 56	28 44	14 24	16 44	17 11	16 51		n.a.
T 18	2 38	0 29	3 8	10 7	2 6	5 1	0 24	15 34	1 13	20 8	0 12	10 19	2 37	4 39	0 42	11 57	1 56	28 44	14 25	16 46	17 12	16 53		n.a.
W19	2 14	5s 6	3 56	9 20	2 2	5 32	0 22	15 19	1 13	20 10	0 12	10 21	2 37	4 38	0 42	11 57	1 56	28 43	14 25	16 47	17 12	16 56		n.a.
T 20	1 51	10 27	4 32	8 32	1 58	6 3	0 19	15 3	1 13	20 12	0 12	10 23	2 37	4 37	0 42	11 56	1 56	28 43	14 25	16 50	17 13	16 58		n.a.
F 21	1 28	15 22	4 56	7 43	1 53	6 33	0 17	14 48	1 13	20 14	0 12	10 24	2 37	4 35	0 42	11 56	1 56	28 43	14 25	16 52	17 14	17 1		n.a.
S 22	1 4	19 41	5 7	6 52	1 47	7 4	0 14	14 33	1 13	20 16	0 11	10 26	2 37	4 34	0 42	11 56	1 56	28 43	14 25	16 54	17 15	17 3		n.a.
S 23	0 41	23 14	5 5	6 0	1 41	7 35	0 12	14 17	1 13	20 18	0 11	10 27	2 37	4 33	0 42	11 55	1 56	28 42	14 26	16 56	17 16	17 6		n.a.
M24	0 17	25 49	4 50	5 6	1 34	8 5	0 9	14 1	1 13	20 21	0 11	10 29	2 37	4 31	0 42	11 55	1 56	28 42	14 26	16 58	17 17	17 9		n.a.
T 25	0n 6	27 15	4 22	4 12	1 27	8 35	0 7	13 45	1 13	20 23	0 11	10 31	2 37	4 30	0 42	11 54	1 56	28 42	14 26	16 59	17 18	17 11		n.a.
W26	0 30	27 23	3 42	3 16	1 19	9 5	0 4	13 29	1 14	20 25	0 11	10 32	2 37	4 29	0 42	11 54	1 56	28 42	14 26	16 59	17 19	17 14		n.a.
T 27	0 53	26 10	2 50	2 18	1 11	9 35	0 1	13 13	1 14	20 27	0 11	10 34	2 37	4 27	0 42	11 53	1 56	28 41	14 27	16 59	17 20	17 16		n.a.
F 28	1 17	23 33	1 49	1 20	1 2	10 4	0n 1	12 57	1 14	20 29	0 11	10 35	2 37	4 26	0 42	11 53	1 56	28 41	14 27	16 59	17 21	17 19		n.a.
S 29	1 40	19 38	0 40	0 21	0 53	10 34	0 4	12 40	1 14	20 31	0 10	10 37	2 37	4 25	0 42	11 53	1 56	28 41	14 27	16 58	17 21	17 21		n.a.
S 30	2 3	14 34	0n33	0n38	0 44	11 3	0 7	12 24	1 14	20 34	0 10	10 38	2 37	4 23	0 42	11 52	1 56	28 41	14 27	16 58	17 22	17 24		n.a.
M31	2n27	8s35	1n47	1n39	0s34	11n32	0n10	12s 7	1s14	20n36	0s10	10n39	2n36	4s22	0s42	11s52	1n56	28s41	14s28	16s59	17s23	17s26		n.a.

Julian Day Number = 1659389.5, Delta T = 03h26m35s
Ecliptic obliquity = 23°43'03, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°24'45, Lahiri = - 6°17'44 Julian Calendar 1 March 170 BCE == Greg. Calendar 26 Feb. 170 BCE

The year -169 astronomical counting style corresponds to year 170 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 170 BCE
geocentric

APRIL 170 BCE (-169) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 21 18	7♈ 3'04	18♓19	7♈31	0♉35	2♓31	1♊58	9°R 3	20♓47	6°R 1	19♒50	13°R23	11♒58	3♏10	n.a.	T 1
W 2	12 25 14	8° 1'10	3♈13	9°40	1°48	3°17	2° 8	8♍59	20°50	5♏59	19°51	13♒16	11°55	3°17	n.a.	W 2
T 3	12 29 11	8°59'15	18°21	11°50	3° 1	4° 3	2°19	8°56	20°53	5°58	19°53	13° 9	11°52	3°23	n.a.	T 3
F 4	12 33 7	9°57'18	3♉33	13°59	4°14	4°49	2°29	8°52	20°57	5°57	19°54	13° 0	11°48	3°30	n.a.	F 4
S 5	12 37 4	10°55'18	18°37	16° 8	5°27	5°34	2°40	8°48	21° 0	5°55	19°55	12°52	11°45	3°37	n.a.	S 5
S 6	12 41 1	11°53'17	3♊25	18°17	6°40	6°20	2°51	8°45	21° 3	5°54	19°56	12°45	11°42	3°43	n.a.	S 6
M 7	12 44 57	12°51'15	17°51	20°25	7°53	7° 6	3° 1	8°41	21° 6	5°52	19°57	12°41	11°39	3°50	n.a.	M 7
T 8	12 48 54	13°49'10	1♋51	22°32	9° 6	7°51	3°12	8°38	21°10	5°51	19°58	12°38	11°36	3°57	n.a.	T 8
W 9	12 52 50	14°47'03	15°25	24°37	10°19	8°37	3°23	8°35	21°13	5°49	19°59	12°D37	11°32	4° 4	n.a.	W 9
T 10	12 56 47	15°44'54	28°36	26°41	11°31	9°23	3°34	8°32	21°16	5°48	20° 0	12°38	11°29	4°10	n.a.	T 10
F 11	13 0 43	16°42'44	11♌27	28°42	12°44	10° 8	3°45	8°28	21°19	5°46	20° 1	12°R38	11°26	4°17	n.a.	F 11
S 12	13 4 40	17°40'31	24° 1	0♉42	13°57	10°54	3°57	8°25	21°22	5°45	20° 2	12°38	11°23	4°24	n.a.	S 12
S 13	13 8 36	18°38'17	6♍22	2°39	15° 9	11°39	4° 8	8°22	21°26	5°43	20° 3	12°35	11°20	4°31	n.a.	S 13
M14	13 12 33	19°36'01	18°34	4°34	16°22	12°24	4°19	8°19	21°29	5°42	20° 4	12°30	11°17	4°37	n.a.	M14
T 15	13 16 30	20°33'44	0♎38	6°26	17°34	13°10	4°31	8°17	21°32	5°40	20° 5	12°22	11°13	4°44	n.a.	T 15
W16	13 20 26	21°31'24	12°36	8°15	18°47	13°55	4°42	8°14	21°35	5°39	20° 6	12°12	11°10	4°51	n.a.	W16
T 17	13 24 23	22°29'04	24°32	10° 1	19°59	14°40	4°54	8°11	21°38	5°37	20° 6	12° 0	11° 7	4°57	n.a.	T 17
F 18	13 28 19	23°26'42	6♏25	11°44	21°12	15°26	5° 5	8° 9	21°41	5°36	20° 7	11°47	11° 4	5° 4	n.a.	F 18
S 19	13 32 16	24°24'18	18°18	13°23	22°24	16°11	5°17	8° 6	21°44	5°34	20° 8	11°34	11° 1	5°11	n.a.	S 19
S 20	13 36 12	25°21'54	0♐11	15° 0	23°36	16°56	5°29	8° 4	21°47	5°32	20° 9	11°23	10°58	5°18	n.a.	S 20
M21	13 40 9	26°19'28	12° 8	16°33	24°48	17°41	5°40	8° 1	21°50	5°31	20°10	11°14	10°54	5°24	n.a.	M21
T 22	13 44 5	27°17'02	24°11	18° 3	26° 1	18°26	5°52	7°59	21°53	5°29	20°10	11° 7	10°51	5°31	n.a.	T 22
W23	13 48 2	28°14'34	6♑23	19°30	27°13	19°11	6° 4	7°57	21°56	5°28	20°11	11° 3	10°48	5°38	n.a.	W23
T 24	13 51 59	29°12'05	18°49	20°53	28°25	19°56	6°16	7°55	21°59	5°26	20°12	11° 1	10°45	5°44	n.a.	T 24
F 25	13 55 55	0♉ 9'35	1♒32	22°13	29°37	20°41	6°28	7°53	22° 2	5°24	20°13	11°D 1	10°42	5°51	n.a.	F 25
S 26	13 59 52	1° 7'05	14°38	23°29	0♊49	21°25	6°40	7°51	22° 5	5°23	20°13	11°R 1	10°38	5°58	n.a.	S 26
S 27	14 3 48	2° 4'33	28°11	24°41	2° 1	22°10	6°53	7°49	22° 7	5°21	20°14	11° 0	10°35	6° 5	n.a.	S 27
M28	14 7 45	3° 2'00	12♓11	25°50	3°13	22°55	7° 5	7°48	22°10	5°19	20°15	10°57	10°32	6°11	n.a.	M28
T 29	14 11 41	3°59'27	26°40	26°56	4°25	23°39	7°17	7°46	22°13	5°18	20°15	10°52	10°29	6°18	n.a.	T 29
W30	14 15 38	4♉56'53	11♈34	27♉58	5♊36	24♓24	7♊30	7♍45	22♓16	5♏16	20♒16	10♒45	10♒26	6♏25	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	2n50	1s59	2n56	2n39	0s24	12n 0	0n12	11s51	1s14	20n38	0s10	10n41	2n36	4s21	0s42	11s51	1n56	28s41	14s28	17s 0	17s24	17s29		n.a.
W 2	3 13	4n52	3 54	3 40	0 13	12 28	0 15	11 34	1 14	20 40	0 10	10 42	2 36	4 19	0 42	11 51	1 56	28 41	14 28	17 2	17 25	17 31		n.a.
T 3	3 36	11 32	4 37	4 41	0 3	12 56	0 18	11 17	1 14	20 42	0 10	10 43	2 36	4 18	0 42	11 50	1 56	28 40	14 28	17 4	17 26	17 34		n.a.
F 4	3 59	17 32	5 1	5 42	0n 8	13 24	0 20	11 0	1 14	20 45	0 10	10 45	2 36	4 17	0 42	11 50	1 56	28 40	14 29	17 6	17 27	17 36		n.a.
S 5	4 22	22 25	5 3	6 42	0 19	13 51	0 23	10 43	1 14	20 47	0 9	10 46	2 36	4 15	0 42	11 49	1 56	28 40	14 29	17 9	17 28	17 39		n.a.
S 6	4 45	25 45	4 45	7 42	0 29	14 18	0 26	10 26	1 14	20 49	0 9	10 47	2 36	4 14	0 42	11 49	1 56	28 40	14 29	17 11	17 29	17 41		n.a.
M 7	5 8	27 18	4 10	8 41	0 40	14 45	0 29	10 9	1 14	20 51	0 9	10 48	2 36	4 13	0 42	11 48	1 56	28 40	14 30	17 12	17 29	17 43		n.a.
T 8	5 31	27 2	3 20	9 39	0 50	15 11	0 31	9 52	1 14	20 54	0 9	10 50	2 36	4 11	0 42	11 48	1 56	28 40	14 30	17 13	17 30	17 46		n.a.
W 9	5 53	25 8	2 20	10 35	1 1	15 37	0 34	9 34	1 14	20 56	0 9	10 51	2 35	4 10	0 42	11 47	1 57	28 40	14 30	17 13	17 31	17 48		n.a.
T 10	6 16	21 53	1 14	11 30	1 11	16 3	0 37	9 17	1 14	20 58	0 9	10 52	2 35	4 9	0 42	11 47	1 57	28 40	14 31	17 13	17 32	17 51		n.a.
F 11	6 39	17 39	0 6	12 23	1 20	16 28	0 39	9 0	1 14	21 0	0 9	10 53	2 35	4 8	0 42	11 46	1 57	28 40	14 31	17 13	17 33	17 53		n.a.
S 12	7 1	12 43	1s 0	13 15	1 29	16 53	0 42	8 42	1 14	21 3	0 9	10 54	2 35	4 6	0 42	11 46	1 57	28 40	14 31	17 13	17 34	17 56		n.a.
S 13	7 23	7 23	2 3	14 4	1 38	17 17	0 45	8 25	1 14	21 5	0 8	10 55	2 35	4 5	0 42	11 45	1 57	28 40	14 31	17 14	17 35	17 58		n.a.
M14	7 45	1 50	2 59	14 51	1 46	17 41	0 48	8 7	1 14	21 7	0 8	10 56	2 35	4 4	0 42	11 45	1 57	28 40	14 32	17 15	17 36	18 1		n.a.
T 15	8 7	3s42	3 46	15 36	1 53	18 4	0 50	7 49	1 14	21 9	0 8	10 57	2 35	4 3	0 42	11 44	1 57	28 40	14 32	17 17	17 37	18 3		n.a.
W16	8 29	9 3	4 22	16 19	2 0	18 27	0 53	7 32	1 14	21 12	0 8	10 58	2 34	4 2	0 43	11 43	1 57	28 40	14 32	17 20	17 37	18 5		n.a.
T 17	8 51	14 3	4 47	16 59	2 6	18 50	0 55	7 14	1 14	21 14	0 8	10 59	2 34	4 0	0 43	11 43	1 57	28 40	14 33	17 24	17 38	18 8		n.a.
F 18	9 13	18 31	5 0	17 37	2 12	19 12	0 58	6 56	1 13	21 16	0 8	10 59	2 34	3 59	0 43	11 42	1 57	28 40	14 33	17 27	17 39	18 10		n.a.
S 19	9 34	22 15	4 59	18 12	2 16	19 33	1 0	6 38	1 13	21 18	0 8	11 0	2 34	3 58	0 43	11 42	1 57	28 40	14 33	17 31	17 40	18 13		n.a.
S 20	9 55	25 4	4 45	18 45	2 20	19 54	1 3	6 21	1 13	21 20	0 8	11 1	2 34	3 57	0 43	11 41	1 57	28 40	14 34	17 34	17 41	18 15		n.a.
M21	10 16	26 47	4 19	19 16	2 23	20 15	1 6	6 3	1 13	21 23	0 7	11 2	2 34	3 56	0 43	11 41	1 57	28 40	14 34	17 37	17 42	18 17		n.a.
T 22	10 37	27 16	3 41	19 44	2 25	20 35	1 8	5 45	1 13	21 25	0 7	11 2	2 33	3 54	0 43	11 40	1 57	28 40	14 34	17 38	17 43	18 20		n.a.
W23	10 58	26 26	2 52	20 10	2 27	20 54	1 10	5 27	1 13	21 27	0 7	11 3	2 33	3 53	0 43	11 40	1 57	28 40	14 35	17 40	17 44	18 22		n.a.
T 24	11 19	24 16	1 55	20 33	2 28	21 13	1 13	5 9	1 13	21 29	0 7	11 4	2 33	3 52	0 43	11 39	1 57	28 40	14 35	17 40	17 45	18 25		n.a.
F 25	11 40	20 52	0 50	20 54	2 27	21 32	1 15	4 51	1 13	21 32	0 7	11 4	2 33	3 51	0 43	11 39	1 57	28 40	14 35	17 40	17 45	18 27		n.a.
S 26	12 0	16 19	0n19	21 13	2 26	21 49	1 17	4 33	1 12	21 34	0 7	11 5	2 33	3 50	0 43	11 38	1 57	28 40	14 36	17 40	17 46	18 29		n.a.
S 27	12 20	10 51	1 29	21 30	2 25	22 6	1 20	4 15	1 12	21 36	0 7	11 5	2 33	3 49	0 43	11 38	1 57	28 40	14 36	17 40	17 47	18 32		n.a.
M28	12 40	4 39	2 37	21 44	2 22	22 23	1 22	3 57	1 12	21 38	0 7	11 6	2 32	3 48	0 43	11 37	1 57	28 40	14 36	17 41	17 48	18 34		n.a.
T 29	13 0	1n58	3 36	21 56	2 18	22 39	1 24	3 39	1 12	21 40	0 7	11 6	2 32	3 47	0 43	11 36	1 57	28 41	14 37	17 42	17 49	18 36		n.a.
W30	13n19	8n39	4n23	22n 6	2n14	22n54	1n26	3s21	1s12	21n43	0s 6	11n 7	2n32	3s45	0s43	11s36	1n57	28s41	14s37	17s45	17s50	18s39		n.a.

Julian Day Number = 1659420.5, Delta T = 03h26m34s
Ecliptic obliquity = 23°43'04, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°24'41, Lahiri = - 6°17'40 Julian Calendar 1 Apr. 170 BCE == Greg. Calendar 29 March 170 BCE

The year -169 astronomical counting style corresponds to year 170 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 170 BCE
geocentric

MAY 170 BCE (-169) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 19 34	5♉54'18	26♈46	28♉55	6♊48	25♓ 9	7♊42	7°R43	22♓18	5°R15	20♒16	10°R35	10♒23	6♏32	n.a.	T 1
F 2	14 23 31	6°51'41	12♉ 5	29°49	8° 0	25°53	7°54	7♍42	22°21	5♏13	20°17	10♒24	10°19	6°38	n.a.	F 2
S 3	14 27 28	7°49'04	27°21	0♊40	9°12	26°37	8° 7	7°41	22°24	5°11	20°17	10°13	10°16	6°45	n.a.	S 3
S 4	14 31 24	8°46'26	12♊22	1°26	10°23	27°22	8°19	7°40	22°26	5°10	20°18	10° 4	10°13	6°52	n.a.	S 4
M 5	14 35 21	9°43'47	26°59	2° 8	11°35	28° 6	8°32	7°39	22°29	5° 8	20°18	9°58	10°10	6°58	n.a.	M 5
T 6	14 39 17	10°41'07	11♋ 9	2°45	12°46	28°50	8°45	7°38	22°31	5° 7	20°19	9°54	10° 7	7° 5	n.a.	T 6
W 7	14 43 14	11°38'26	24°50	3°19	13°58	29°35	8°57	7°37	22°34	5° 5	20°19	9°52	10° 4	7°12	n.a.	W 7
T 8	14 47 10	12°35'43	8♌ 4	3°48	15° 9	0♈19	9°10	7°36	22°36	5° 3	20°20	9°51	10° 0	7°19	n.a.	T 8
F 9	14 51 7	13°32'59	20°53	4°13	16°21	1° 3	9°23	7°35	22°39	5° 2	20°20	9°51	9°57	7°25	n.a.	F 9
S 10	14 55 3	14°30'15	3♍24	4°33	17°32	1°47	9°36	7°35	22°41	5° 0	20°20	9°50	9°54	7°32	n.a.	S 10
S 11	14 59 0	15°27'29	15°39	4°48	18°43	2°31	9°48	7°35	22°44	4°59	20°21	9°48	9°51	7°39	n.a.	S 11
M12	15 2 57	16°24'42	27°43	5° 0	19°54	3°14	10° 1	7°34	22°46	4°57	20°21	9°42	9°48	7°46	n.a.	M12
T 13	15 6 53	17°21'54	9♎41	5° 6	21° 5	3°58	10°14	7°34	22°48	4°55	20°21	9°34	9°44	7°52	n.a.	T 13
W14	15 10 50	18°19'06	21°35	5°R 8	22°17	4°42	10°27	7°34	22°51	4°54	20°22	9°23	9°41	7°59	n.a.	W14
T 15	15 14 46	19°16'17	3♏27	5° 5	23°28	5°26	10°40	7°D34	22°53	4°52	20°22	9°11	9°38	8° 6	n.a.	T 15
F 16	15 18 43	20°13'27	15°20	4°58	24°38	6° 9	10°53	7°34	22°55	4°51	20°22	8°58	9°35	8°12	n.a.	F 16
S 17	15 22 39	21°10'36	27°15	4°47	25°49	6°53	11° 6	7°34	22°57	4°49	20°22	8°44	9°32	8°19	n.a.	S 17
S 18	15 26 36	22° 7'46	9♐13	4°32	27° 0	7°36	11°19	7°34	22°59	4°48	20°23	8°32	9°29	8°26	n.a.	S 18
M19	15 30 32	23° 4'55	21°16	4°13	28°11	8°20	11°32	7°35	23° 1	4°46	20°23	8°23	9°25	8°33	n.a.	M19
T 20	15 34 29	24° 2'03	3♑25	3°50	29°22	9° 3	11°45	7°35	23° 3	4°45	20°23	8°15	9°22	8°39	n.a.	T 20
W21	15 38 26	24°59'11	15°44	3°24	0♋32	9°46	11°59	7°36	23° 5	4°43	20°23	8°11	9°19	8°46	n.a.	W21
T 22	15 42 22	25°56'20	28°14	2°55	1°43	10°30	12°12	7°36	23° 7	4°42	20°23	8° 9	9°16	8°53	n.a.	T 22
F 23	15 46 19	26°53'28	11♒ 0	2°24	2°53	11°13	12°25	7°37	23° 9	4°40	20°23	8°D 9	9°13	8°59	n.a.	F 23
S 24	15 50 15	27°50'35	24° 5	1°51	4° 4	11°56	12°38	7°38	23°11	4°39	20°23	8°R 9	9°10	9° 6	n.a.	S 24
S 25	15 54 12	28°47'43	7♓32	1°17	5°14	12°39	12°51	7°39	23°13	4°37	20°R23	8° 9	9° 6	9°13	n.a.	S 25
M26	15 58 8	29°44'51	21°24	0°42	6°24	13°22	13° 5	7°40	23°15	4°36	20°23	8° 7	9° 3	9°20	n.a.	M26
T 27	16 2 5	0♊41'59	5♈43	0° 7	7°34	14° 5	13°18	7°41	23°17	4°34	20°23	8° 3	9° 0	9°26	n.a.	T 27
W28	16 6 1	1°39'07	20°24	29♉32	8°44	14°48	13°31	7°43	23°18	4°33	20°23	7°57	8°57	9°33	n.a.	W28
T 29	16 9 58	2°36'15	5♉25	28°59	9°54	15°30	13°45	7°44	23°20	4°32	20°23	7°49	8°54	9°40	n.a.	T 29
F 30	16 13 55	3°33'24	20°36	28°27	11° 4	16°13	13°58	7°45	23°22	4°30	20°23	7°39	8°50	9°47	n.a.	F 30
S 31	16 17 51	4♊30'32	5♊46	27♉57	12♋14	16♈56	14♊11	7♍47	23♓23	4♏29	20♒23	7♒30	8♒47	9♏53	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	13n39	14n57	4n52	22n14	2n 9	23n 9	1n28	3s 3	1s12	21n45	0s 6	11n 7	2n32	3s44	0s43	11s35	1n57	28s41	14s37	17s47	17s51	18s41			n.a.
F 2	13 58	20 23	5 0	22 20	2 2	23 23	1 30	2 45	1 11	21 47	0 6	11 7	2 32	3 43	0 43	11 35	1 57	28 41	14 38	17 50	17 51	18 43			n.a.
S 3	14 17	24 27	4 47	22 24	1 55	23 37	1 32	2 27	1 11	21 49	0 6	11 7	2 31	3 42	0 43	11 34	1 57	28 41	14 38	17 53	17 52	18 46			n.a.
S 4	14 35	26 44	4 14	22 26	1 48	23 49	1 34	2 9	1 11	21 51	0 6	11 8	2 31	3 41	0 43	11 34	1 57	28 41	14 39	17 56	17 53	18 48			n.a.
M 5	14 54	27 6	3 26	22 26	1 39	24 1	1 36	1 51	1 11	21 53	0 6	11 8	2 31	3 40	0 43	11 33	1 57	28 41	14 39	17 57	17 54	18 50			n.a.
T 6	15 12	25 39	2 25	22 25	1 29	24 13	1 38	1 33	1 11	21 55	0 6	11 8	2 31	3 39	0 43	11 33	1 57	28 42	14 39	17 58	17 55	18 53			n.a.
W 7	15 30	22 42	1 19	22 21	1 19	24 24	1 40	1 15	1 10	21 57	0 6	11 8	2 31	3 38	0 43	11 32	1 57	28 42	14 40	17 59	17 56	18 55			n.a.
T 8	15 48	18 37	0 9	22 16	1 8	24 34	1 42	0 57	1 10	21 59	0 5	11 8	2 30	3 37	0 43	11 32	1 57	28 42	14 40	17 59	17 57	18 57			n.a.
F 9	16 5	13 47	0s58	22 9	0 56	24 43	1 43	0 39	1 10	22 2	0 5	11 8	2 30	3 36	0 43	11 31	1 57	28 42	14 40	17 59	17 58	19 0			n.a.
S 10	16 23	8 30	2 1	22 0	0 43	24 52	1 45	0 21	1 10	22 4	0 5	11 8	2 30	3 35	0 43	11 31	1 57	28 42	14 41	17 59	17 58	19 2			n.a.
S 11	16 40	3 0	2 57	21 49	0 29	25 0	1 46	0 3	1 9	22 6	0 5	11 8	2 30	3 35	0 43	11 30	1 57	28 43	14 41	18 0	17 59	19 4			n.a.
M12	16 56	2s30	3 44	21 38	0 15	25 7	1 48	0n15	1 9	22 8	0 5	11 8	2 30	3 34	0 43	11 30	1 57	28 43	14 41	18 2	18 0	19 7			n.a.
T 13	17 13	7 52	4 21	21 24	0 0	25 14	1 49	0 33	1 9	22 10	0 5	11 8	2 29	3 33	0 43	11 29	1 57	28 43	14 42	18 4	18 1	19 9			n.a.
W14	17 29	12 55	4 46	21 9	0s15	25 20	1 51	0 51	1 8	22 12	0 5	11 8	2 29	3 32	0 43	11 29	1 57	28 43	14 42	18 7	18 2	19 11			n.a.
T 15	17 45	17 28	4 58	20 53	0 31	25 25	1 52	1 8	1 8	22 14	0 5	11 8	2 29	3 31	0 43	11 28	1 57	28 44	14 43	18 10	18 3	19 13			n.a.
F 16	18 0	21 22	4 58	20 36	0 47	25 29	1 53	1 26	1 8	22 16	0 5	11 8	2 29	3 30	0 43	11 27	1 57	28 44	14 43	18 14	18 4	19 16			n.a.
S 17	18 16	24 23	4 45	20 18	1 4	25 33	1 54	1 44	1 7	22 18	0 5	11 7	2 28	3 29	0 43	11 27	1 56	28 44	14 43	18 17	18 4	19 18			n.a.
S 18	18 31	26 21	4 19	19 59	1 20	25 36	1 55	2 2	1 7	22 20	0 4	11 7	2 28	3 28	0 43	11 26	1 56	28 44	14 44	18 20	18 5	19 20			n.a.
M19	18 45	27 6	3 41	19 39	1 37	25 38	1 56	2 19	1 7	22 21	0 4	11 7	2 28	3 28	0 43	11 26	1 56	28 45	14 44	18 23	18 6	19 22			n.a.
T 20	19 0	26 33	2 53	19 18	1 54	25 40	1 57	2 37	1 6	22 23	0 4	11 6	2 28	3 27	0 43	11 26	1 56	28 45	14 44	18 25	18 7	19 25			n.a.
W21	19 14	24 42	1 56	18 57	2 10	25 41	1 58	2 54	1 6	22 25	0 4	11 6	2 28	3 26	0 43	11 25	1 56	28 45	14 45	18 26	18 8	19 27			n.a.
T 22	19 28	21 37	0 52	18 36	2 26	25 41	1 58	3 12	1 6	22 27	0 4	11 5	2 27	3 25	0 43	11 25	1 56	28 46	14 45	18 26	18 9	19 29			n.a.
F 23	19 41	17 26	0n15	18 14	2 42	25 40	1 59	3 29	1 5	22 29	0 4	11 5	2 27	3 25	0 43	11 24	1 56	28 46	14 46	18 26	18 10	19 31			n.a.
S 24	19 55	12 20	1 24	17 53	2 57	25 39	2 0	3 46	1 5	22 31	0 4	11 4	2 27	3 24	0 43	11 24	1 56	28 46	14 46	18 26	18 10	19 34			n.a.
S 25	20 7	6 32	2 29	17 33	3 11	25 37	2 0	4 4	1 5	22 33	0 4	11 4	2 27	3 23	0 43	11 23	1 56	28 47	14 46	18 26	18 11	19 36			n.a.
M26	20 20	0 15	3 28	17 13	3 24	25 34	2 0	4 21	1 4	22 34	0 4	11 3	2 27	3 22	0 43	11 23	1 56	28 47	14 47	18 27	18 12	19 38			n.a.
T 27	20 32	6n12	4 16	16 54	3 36	25 30	2 1	4 38	1 4	22 36	0 3	11 3	2 26	3 22	0 43	11 22	1 56	28 47	14 47	18 28	18 13	19 40			n.a.
W28	20 44	12 31	4 49	16 36	3 47	25 26	2 1	4 55	1 4	22 38	0 3	11 2	2 26	3 21	0 43	11 22	1 56	28 48	14 47	18 30	18 14	19 42			n.a.
T 29	20 55	18 13	5 3	16 19	3 56	25 21	2 1	5 12	1 3	22 40	0 3	11 1	2 26	3 20	0 44	11 21	1 56	28 48	14 48	18 32	18 15	19 45			n.a.
F 30	21 7	22 51	4 55	16 5	4 4	25 15	2 1	5 29	1 3	22 41	0 3	11 0	2 26	3 20	0 44	11 21	1 56	28 49	14 48	18 34	18 15	19 47			n.a.
S 31	21n17	25n54	4n27	15n51	4s11	25n 9	2n 1	5n46	1s 2	22n43	0s 3	11n 0	2n25	3s19	0s44	11s21	1n56	28s49	14s49	18s36	18s16	19s49			n.a.

Julian Day Number = 1659450.5, Delta T = 03h26m33s
Ecliptic obliquity = 23°43'03, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°24'37, Lahiri = - 6°17'36 Julian Calendar 1 May 170 BCE == Greg. Calendar 28 Apr. 170 BCE

The year -169 astronomical counting style corresponds to year 170 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 170 BCE
geocentric

JUNE 170 BCE (-169) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 21 48	5♊27'40	20♊47	27°R30	13♋24	17♈38	14♊25	7♍49	23♓25	4°R27	20°R23	7°R22	8♒44	10♏ 0	n.a.	S 1
M 2	16 25 44	6°24'49	5♋27	27♉ 7	14°34	18°21	14°38	7°50	23°26	4♏26	20♒22	7♒17	8°41	10° 7	n.a.	M 2
T 3	16 29 41	7°21'57	19°42	26°46	15°44	19° 3	14°52	7°52	23°28	4°25	20°22	7°13	8°38	10°13	n.a.	T 3
W 4	16 33 37	8°19'05	3♌29	26°30	16°53	19°46	15° 5	7°54	23°29	4°24	20°22	7°D12	8°35	10°20	n.a.	W 4
T 5	16 37 34	9°16'12	16°48	26°18	18° 3	20°28	15°18	7°56	23°31	4°22	20°22	7°12	8°31	10°27	n.a.	T 5
F 6	16 41 31	10°13'20	29°41	26°11	19°12	21°10	15°32	7°58	23°32	4°21	20°22	7°13	8°28	10°34	n.a.	F 6
S 7	16 45 27	11°10'27	12♍14	26°D 8	20°21	21°52	15°45	8° 0	23°33	4°20	20°21	7°R13	8°25	10°40	n.a.	S 7
S 8	16 49 24	12° 7'34	24°29	26°11	21°30	22°34	15°59	8° 3	23°35	4°19	20°21	7°12	8°22	10°47	n.a.	S 8
M 9	16 53 20	13° 4'41	6♎32	26°18	22°40	23°16	16°12	8° 5	23°36	4°17	20°21	7°10	8°19	10°54	n.a.	M 9
T 10	16 57 17	14° 1'49	18°28	26°31	23°49	23°58	16°26	8° 8	23°37	4°16	20°20	7° 5	8°16	11° 1	n.a.	T 10
W11	17 1 13	14°58'56	0♏21	26°48	24°57	24°40	16°39	8°10	23°38	4°15	20°20	6°58	8°12	11° 7	n.a.	W11
T 12	17 5 10	15°56'03	12°13	27°11	26° 6	25°21	16°52	8°13	23°39	4°14	20°19	6°49	8° 9	11°14	n.a.	T 12
F 13	17 9 6	16°53'11	24° 8	27°40	27°15	26° 3	17° 6	8°16	23°40	4°13	20°19	6°40	8° 6	11°21	n.a.	F 13
S 14	17 13 3	17°50'19	6♐ 7	28°13	28°24	26°45	17°19	8°19	23°41	4°12	20°19	6°31	8° 3	11°27	n.a.	S 14
S 15	17 17 0	18°47'28	18°13	28°52	29°32	27°26	17°33	8°22	23°42	4°11	20°18	6°23	8° 0	11°34	n.a.	S 15
M16	17 20 56	19°44'37	0♑26	29°36	0♌40	28° 7	17°46	8°25	23°43	4°10	20°18	6°16	7°56	11°41	n.a.	M16
T 17	17 24 53	20°41'46	12°48	0♊25	1°49	28°49	18° 0	8°28	23°44	4° 9	20°17	6°12	7°53	11°48	n.a.	T 17
W18	17 28 49	21°38'56	25°19	1°19	2°57	29°30	18°13	8°31	23°44	4° 8	20°17	6° 9	7°50	11°54	n.a.	W18
T 19	17 32 46	22°36'07	8♒ 2	2°18	4° 5	0♉11	18°26	8°34	23°45	4° 7	20°16	6°D 9	7°47	12° 1	n.a.	T 19
F 20	17 36 42	23°33'18	20°59	3°22	5°13	0°52	18°40	8°38	23°46	4° 6	20°16	6° 9	7°44	12° 8	n.a.	F 20
S 21	17 40 39	24°30'31	4♓11	4°31	6°20	1°33	18°53	8°41	23°46	4° 5	20°15	6°11	7°41	12°15	n.a.	S 21
S 22	17 44 35	25°27'44	17°41	5°45	7°28	2°14	19° 7	8°45	23°47	4° 4	20°14	6°12	7°37	12°21	n.a.	S 22
M23	17 48 32	26°24'58	1♈30	7° 3	8°36	2°55	19°20	8°48	23°48	4° 3	20°14	6°R12	7°34	12°28	n.a.	M23
T 24	17 52 29	27°22'13	15°38	8°26	9°43	3°36	19°33	8°52	23°48	4° 3	20°13	6°11	7°31	12°35	n.a.	T 24
W25	17 56 25	28°19'29	0♉ 5	9°54	10°50	4°17	19°47	8°56	23°49	4° 2	20°12	6° 8	7°28	12°41	n.a.	W25
T 26	18 0 22	29°16'47	14°46	11°25	11°57	4°57	20° 0	9° 0	23°49	4° 1	20°12	6° 4	7°25	12°48	n.a.	T 26
F 27	18 4 18	0♋14'05	29°36	13° 1	13° 4	5°38	20°14	9° 4	23°49	4° 0	20°11	5°59	7°21	12°55	n.a.	F 27
S 28	18 8 15	1°11'25	14♊27	14°41	14°11	6°18	20°27	9° 8	23°50	4° 0	20°10	5°53	7°18	13° 2	n.a.	S 28
S 29	18 12 11	2° 8'45	29°12	16°25	15°18	6°58	20°40	9°12	23°50	3°59	20°10	5°49	7°15	13° 8	n.a.	S 29
M30	18 16 8	3♋ 6'07	13♋42	18♊12	16♌25	7♉39	20♊53	9♍16	23♓50	3♏58	20♒ 9	5♒46	7♒12	13♏15	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n28	27n 4	3n41	15n40	4s16	25n 2	2n 1	6n 3	1s 2	22n45	0s 3	10n59	2n25	3s19	0s44	11s20	1n56	28s49	14s49	18s38	18s17	19s51		n.a.
M 2	21 38	26 17	2 41	15 31	4 20	24 54	2 0	6 20	1 1	22 46	0 3	10 58	2 25	3 18	0 44	11 20	1 56	28 50	14 49	18 40	18 18	19 53		n.a.
T 3	21 48	23 46	1 32	15 24	4 23	24 46	2 0	6 36	1 1	22 48	0 3	10 57	2 25	3 17	0 44	11 19	1 56	28 50	14 50	18 41	18 19	19 55		n.a.
W 4	21 57	19 55	0 20	15 20	4 24	24 37	2 0	6 53	1 1	22 50	0 3	10 56	2 25	3 17	0 44	11 19	1 56	28 51	14 50	18 41	18 20	19 58		n.a.
T 5	22 6	15 10	0s51	15 17	4 23	24 27	1 59	7 9	1 0	22 51	0 3	10 55	2 24	3 16	0 44	11 19	1 56	28 51	14 50	18 41	18 20	20 0		n.a.
F 6	22 14	9 53	1 57	15 17	4 21	24 17	1 58	7 26	1 0	22 53	0 2	10 54	2 24	3 16	0 44	11 18	1 56	28 51	14 51	18 41	18 21	20 2		n.a.
S 7	22 23	4 21	2 56	15 20	4 18	24 5	1 58	7 42	0 59	22 54	0 2	10 53	2 24	3 15	0 44	11 18	1 56	28 52	14 51	18 41	18 22	20 4		n.a.
S 8	22 30	1s14	3 45	15 24	4 14	23 54	1 57	7 58	0 59	22 56	0 2	10 52	2 24	3 15	0 44	11 17	1 56	28 52	14 51	18 41	18 23	20 6		n.a.
M 9	22 38	6 39	4 24	15 31	4 9	23 41	1 56	8 15	0 58	22 57	0 2	10 51	2 24	3 14	0 44	11 17	1 56	28 53	14 52	18 42	18 24	20 8		n.a.
T 10	22 45	11 47	4 50	15 41	4 2	23 28	1 55	8 31	0 58	22 59	0 2	10 50	2 23	3 14	0 44	11 17	1 56	28 53	14 52	18 43	18 25	20 10		n.a.
W11	22 52	16 27	5 4	15 52	3 55	23 15	1 53	8 47	0 57	23 0	0 2	10 49	2 23	3 14	0 44	11 16	1 56	28 54	14 52	18 45	18 26	20 13		n.a.
T 12	22 58	20 30	5 5	16 5	3 46	23 1	1 52	9 2	0 57	23 2	0 2	10 47	2 23	3 13	0 44	11 16	1 56	28 54	14 53	18 47	18 26	20 15		n.a.
F 13	23 4	23 44	4 52	16 21	3 37	22 46	1 51	9 18	0 56	23 3	0 2	10 46	2 23	3 13	0 44	11 16	1 56	28 54	14 53	18 49	18 27	20 17		n.a.
S 14	23 9	25 57	4 27	16 38	3 27	22 30	1 49	9 34	0 56	23 5	0 2	10 45	2 23	3 13	0 44	11 15	1 55	28 55	14 53	18 52	18 28	20 19		n.a.
S 15	23 14	26 59	3 49	16 57	3 16	22 14	1 48	9 49	0 55	23 6	0 1	10 44	2 22	3 12	0 44	11 15	1 55	28 55	14 54	18 54	18 29	20 21		n.a.
M16	23 19	26 43	3 0	17 17	3 5	21 58	1 46	10 5	0 55	23 7	0 1	10 42	2 22	3 12	0 44	11 15	1 55	28 56	14 54	18 55	18 30	20 23		n.a.
T 17	23 23	25 8	2 3	17 39	2 53	21 41	1 44	10 20	0 54	23 9	0 1	10 41	2 22	3 12	0 44	11 14	1 55	28 56	14 54	18 56	18 30	20 25		n.a.
W18	23 27	22 16	0 58	18 2	2 41	21 23	1 42	10 35	0 54	23 10	0 1	10 39	2 22	3 11	0 44	11 14	1 55	28 57	14 55	18 57	18 31	20 27		n.a.
T 19	23 30	18 18	0n10	18 26	2 28	21 5	1 40	10 51	0 53	23 11	0 1	10 38	2 22	3 11	0 44	11 14	1 55	28 57	14 55	18 57	18 32	20 29		n.a.
F 20	23 33	13 25	1 20	18 51	2 15	20 46	1 38	11 6	0 52	23 13	0 1	10 37	2 21	3 11	0 44	11 14	1 55	28 58	14 55	18 57	18 33	20 31		n.a.
S 21	23 36	7 49	2 26	19 17	2 2	20 27	1 36	11 21	0 52	23 14	0 1	10 35	2 21	3 11	0 44	11 13	1 55	28 58	14 56	18 57	18 34	20 34		n.a.
S 22	23 38	1 46	3 26	19 44	1 49	20 7	1 34	11 35	0 51	23 15	0 1	10 33	2 21	3 10	0 44	11 13	1 55	28 59	14 56	18 56	18 35	20 36		n.a.
M23	23 40	4n30	4 16	20 11	1 35	19 47	1 31	11 50	0 51	23 16	0 1	10 32	2 21	3 10	0 44	11 13	1 55	28 59	14 56	18 56	18 35	20 38		n.a.
T 24	23 41	10 41	4 51	20 37	1 22	19 27	1 29	12 5	0 50	23 18	0 1	10 30	2 21	3 10	0 44	11 13	1 55	29 0	14 57	18 57	18 36	20 40		n.a.
W25	23 42	16 26	5 9	21 4	1 8	19 6	1 26	12 19	0 50	23 19	0 0	10 29	2 20	3 10	0 44	11 12	1 55	29 0	14 57	18 57	18 37	20 42		n.a.
T 26	23 43	21 20	5 7	21 31	0 55	18 44	1 23	12 33	0 49	23 20	0 0	10 27	2 20	3 10	0 44	11 12	1 55	29 1	14 57	18 59	18 38	20 44		n.a.
F 27	23 43	24 56	4 45	21 57	0 41	18 22	1 20	12 48	0 48	23 21	0 0	10 25	2 20	3 10	0 44	11 12	1 55	29 1	14 58	19 0	18 39	20 46		n.a.
S 28	23 43	26 50	4 3	22 22	0 28	18 0	1 17	13 2	0 48	23 22	0 0	10 24	2 20	3 10	0 45	11 12	1 55	29 2	14 58	19 1	18 40	20 48		n.a.
S 29	23 42	26 49	3 6	22 46	0 15	17 37	1 14	13 16	0 47	23 23	0 0	10 22	2 20	3 9	0 45	11 12	1 55	29 2	14 58	19 2	18 40	20 50		n.a.
M30	23n41	24n57	1n57	23n 8	0s 3	17n14	1n11	13n29	0s46	23n24	0n 0	10n20	2n19	3s 9	0s45	11s12	1n55	29s 3	14s58	19s 3	18s41	20s52		n.a.

Julian Day Number = 1659481.5, Delta T = 03h26m32s
Ecliptic obliquity = 23°43'02, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°24'32, Lahiri = - 6°17'32 Julian Calendar 1 June 170 BCE == Greg. Calendar 29 May 170 BCE

The year -169 astronomical counting style corresponds to year 170 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 170 BCE
geocentric

JULY 170 BCE (-169) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 20 5	4♋ 3'29	27♋52	20♊ 2	17♌31	8♉19	21♊ 7	9♍20	23♓50	3°R58	20°R 8	5°R44	7♒ 9	13♏22	n.a.	T 1
W 2	18 24 1	5° 0'52	11♌38	21°55	18°37	8°59	21°20	9°25	23°50	3♏57	20♒ 7	5°D44	7° 6	13°29	n.a.	W 2
T 3	18 27 58	5°58'16	24°58	23°51	19°43	9°39	21°33	9°29	23°R50	3°56	20° 6	5♒45	7° 2	13°35	n.a.	T 3
F 4	18 31 54	6°55'40	7♍55	25°48	20°49	10°19	21°46	9°33	23°50	3°56	20° 6	5°47	6°59	13°42	n.a.	F 4
S 5	18 35 51	7°53'06	20°30	27°48	21°55	10°59	22° 0	9°38	23°50	3°55	20° 5	5°48	6°56	13°49	n.a.	S 5
S 6	18 39 47	8°50'32	2♎49	29°50	23° 1	11°38	22°13	9°43	23°50	3°55	20° 4	5°49	6°53	13°55	n.a.	S 6
M 7	18 43 44	9°47'59	14°54	1♋52	24° 6	12°18	22°26	9°47	23°50	3°55	20° 3	5°R49	6°50	14° 2	n.a.	M 7
T 8	18 47 40	10°45'27	26°51	3°55	25°11	12°57	22°39	9°52	23°50	3°54	20° 2	5°48	6°47	14° 9	n.a.	T 8
W 9	18 51 37	11°42'56	8♏44	5°59	26°16	13°37	22°52	9°57	23°49	3°54	20° 1	5°46	6°43	14°16	n.a.	W 9
T 10	18 55 34	12°40'26	20°37	8° 3	27°21	14°16	23° 5	10° 2	23°49	3°53	20° 0	5°43	6°40	14°22	n.a.	T 10
F 11	18 59 30	13°37'57	2♐35	10° 7	28°26	14°55	23°18	10° 7	23°49	3°53	19°59	5°40	6°37	14°29	n.a.	F 11
S 12	19 3 27	14°35'29	14°40	12°11	29°30	15°34	23°31	10°12	23°48	3°53	19°58	5°36	6°34	14°36	n.a.	S 12
S 13	19 7 23	15°33'02	26°54	14°14	0♍34	16°13	23°44	10°17	23°48	3°53	19°57	5°33	6°31	14°42	n.a.	S 13
M14	19 11 20	16°30'36	9♑19	16°16	1°38	16°52	23°57	10°22	23°48	3°52	19°56	5°31	6°28	14°49	n.a.	M14
T 15	19 15 16	17°28'12	21°57	18°18	2°42	17°31	24°10	10°27	23°47	3°52	19°55	5°30	6°24	14°56	n.a.	T 15
W16	19 19 13	18°25'49	4♒47	20°19	3°46	18°10	24°22	10°33	23°46	3°52	19°54	5°D29	6°21	15° 3	n.a.	W16
T 17	19 23 9	19°23'28	17°51	22°18	4°49	18°49	24°35	10°38	23°46	3°52	19°53	5°29	6°18	15° 9	n.a.	T 17
F 18	19 27 6	20°21'08	1♓ 7	24°17	5°52	19°27	24°48	10°44	23°45	3°52	19°52	5°30	6°15	15°16	n.a.	F 18
S 19	19 31 3	21°18'49	14°37	26°14	6°55	20° 5	25° 1	10°49	23°44	3°52	19°51	5°31	6°12	15°23	n.a.	S 19
S 20	19 34 59	22°16'33	28°19	28°10	7°57	20°44	25°13	10°55	23°44	3°D52	19°50	5°32	6° 8	15°30	n.a.	S 20
M21	19 38 56	23°14'18	12♈14	0♌ 4	8°59	21°22	25°26	11° 0	23°43	3°52	19°49	5°33	6° 5	15°36	n.a.	M21
T 22	19 42 52	24°12'05	26°20	1°58	10° 1	22° 0	25°38	11° 6	23°42	3°52	19°48	5°R33	6° 2	15°43	n.a.	T 22
W23	19 46 49	25° 9'54	10♉35	3°50	11° 3	22°38	25°51	11°12	23°41	3°52	19°47	5°33	5°59	15°50	n.a.	W23
T 24	19 50 45	26° 7'44	24°58	5°40	12° 4	23°16	26° 3	11°17	23°40	3°52	19°46	5°32	5°56	15°56	n.a.	T 24
F 25	19 54 42	27° 5'37	9♊24	7°29	13° 5	23°54	26°16	11°23	23°39	3°52	19°45	5°31	5°53	16° 3	n.a.	F 25
S 26	19 58 38	28° 3'32	23°48	9°17	14° 6	24°32	26°28	11°29	23°38	3°52	19°44	5°30	5°49	16°10	n.a.	S 26
S 27	20 2 35	29° 1'28	8♋ 7	11° 4	15° 7	25° 9	26°40	11°35	23°37	3°52	19°43	5°30	5°46	16°17	n.a.	S 27
M28	20 6 32	29°59'26	22°15	12°49	16° 7	25°47	26°53	11°41	23°36	3°53	19°41	5°29	5°43	16°23	n.a.	M28
T 29	20 10 28	0♌57'26	6♌ 8	14°33	17° 7	26°24	27° 5	11°47	23°35	3°53	19°40	5°D29	5°40	16°30	n.a.	T 29
W30	20 14 25	1°55'28	19°42	16°15	18° 6	27° 1	27°17	11°53	23°33	3°53	19°39	5°29	5°37	16°37	n.a.	W30
T 31	20 18 21	2♌53'31	2♍57	17♌57	19♍ 5	27♉38	27♊29	11♍59	23♓32	3♏53	19♒38	5♒30	5♒33	16♏43	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23n39	21n32	0n43	23n29	0n 9	16n50	1n 8	13n43	0s46	23n25	0n 0	10n18	2n19	3s 9	0s45	11s11	1n55	29s 4	14s59	19s 3	18s42	20s54		n.a.
W 2	23 37	16 59	0s32	23 49	0 21	16 26	1 4	13 57	0 45	23 26	0 0	10 17	2 19	3 9	0 45	11 11	1 54	29 4	14 59	19 3	18 43	20 56		n.a.
T 3	23 35	11 44	1 43	24 6	0 32	16 2	1 1	14 10	0 45	23 27	0 0	10 15	2 19	3 9	0 45	11 11	1 54	29 5	14 59	19 3	18 44	20 58		n.a.
F 4	23 32	6 7	2 47	24 21	0 42	15 37	0 57	14 23	0 44	23 28	0 0	10 13	2 19	3 9	0 45	11 11	1 54	29 5	15 0	19 3	18 44	21 0		n.a.
S 5	23 29	0 25	3 41	24 33	0 51	15 12	0 53	14 37	0 43	23 29	0 1	10 11	2 19	3 10	0 45	11 11	1 54	29 6	15 0	19 2	18 45	21 2		n.a.
S 6	23 25	5s 9	4 23	24 43	1 0	14 47	0 49	14 50	0 43	23 30	0 1	10 9	2 18	3 10	0 45	11 11	1 54	29 6	15 0	19 2	18 46	21 4		n.a.
M 7	23 21	10 26	4 53	24 51	1 8	14 21	0 45	15 2	0 42	23 31	0 1	10 7	2 18	3 10	0 45	11 11	1 54	29 7	15 0	19 2	18 47	21 6		n.a.
T 8	23 17	15 16	5 10	24 55	1 16	13 55	0 41	15 15	0 41	23 32	0 1	10 5	2 18	3 10	0 45	11 11	1 54	29 7	15 1	19 2	18 48	21 8		n.a.
W 9	23 12	19 30	5 13	24 57	1 22	13 29	0 37	15 28	0 40	23 32	0 1	10 3	2 18	3 10	0 45	11 11	1 54	29 8	15 1	19 3	18 48	21 10		n.a.
T 10	23 6	22 59	5 3	24 56	1 28	13 3	0 33	15 40	0 40	23 33	0 1	10 1	2 18	3 10	0 45	11 10	1 54	29 8	15 1	19 4	18 49	21 12		n.a.
F 11	23 1	25 29	4 40	24 52	1 33	12 36	0 29	15 53	0 39	23 34	0 1	9 59	2 18	3 10	0 45	11 10	1 54	29 9	15 1	19 4	18 50	21 14		n.a.
S 12	22 54	26 52	4 4	24 46	1 37	12 9	0 24	16 5	0 38	23 35	0 1	9 57	2 17	3 10	0 45	11 10	1 54	29 9	15 2	19 5	18 51	21 16		n.a.
S 13	22 48	26 57	3 17	24 37	1 41	11 42	0 19	16 17	0 38	23 35	0 1	9 55	2 17	3 11	0 45	11 10	1 54	29 10	15 2	19 6	18 52	21 18		n.a.
M14	22 41	25 42	2 19	24 25	1 44	11 15	0 15	16 29	0 37	23 36	0 2	9 53	2 17	3 11	0 45	11 10	1 54	29 11	15 2	19 7	18 52	21 19		n.a.
T 15	22 34	23 7	1 14	24 12	1 46	10 47	0 10	16 41	0 36	23 37	0 2	9 50	2 17	3 11	0 45	11 10	1 54	29 11	15 2	19 7	18 53	21 21		n.a.
W16	22 26	19 21	0 4	23 55	1 47	10 19	0 5	16 52	0 35	23 37	0 2	9 48	2 17	3 11	0 45	11 10	1 54	29 12	15 3	19 7	18 54	21 23		n.a.
T 17	22 18	14 35	1n 8	23 37	1 47	9 51	0 0	17 4	0 35	23 38	0 2	9 46	2 17	3 12	0 45	11 10	1 54	29 12	15 3	19 7	18 55	21 25		n.a.
F 18	22 9	9 4	2 17	23 16	1 47	9 23	0s 5	17 15	0 34	23 39	0 2	9 44	2 17	3 12	0 45	11 10	1 53	29 13	15 3	19 7	18 56	21 27		n.a.
S 19	22 0	3 4	3 20	22 54	1 47	8 55	0 10	17 26	0 33	23 39	0 2	9 42	2 16	3 12	0 45	11 10	1 53	29 13	15 3	19 7	18 56	21 29		n.a.
S 20	21 51	3n10	4 12	22 30	1 46	8 27	0 15	17 37	0 32	23 40	0 2	9 39	2 16	3 13	0 45	11 11	1 53	29 14	15 3	19 6	18 57	21 31		n.a.
M21	21 41	9 20	4 51	22 4	1 44	7 58	0 21	17 48	0 32	23 40	0 2	9 37	2 16	3 13	0 45	11 11	1 53	29 14	15 4	19 6	18 58	21 33		n.a.
T 22	21 31	15 7	5 12	21 36	1 42	7 30	0 26	17 59	0 31	23 41	0 2	9 35	2 16	3 13	0 45	11 11	1 53	29 15	15 4	19 6	18 59	21 35		n.a.
W23	21 21	20 9	5 15	21 7	1 39	7 1	0 32	18 10	0 30	23 42	0 2	9 32	2 16	3 14	0 45	11 11	1 53	29 15	15 4	19 6	19 0	21 37		n.a.
T 24	21 10	24 3	4 58	20 37	1 36	6 32	0 38	18 20	0 29	23 42	0 3	9 30	2 16	3 14	0 45	11 11	1 53	29 16	15 4	19 6	19 0	21 38		n.a.
F 25	20 59	26 27	4 23	20 6	1 32	6 3	0 43	18 30	0 28	23 43	0 3	9 28	2 16	3 15	0 45	11 11	1 53	29 17	15 4	19 7	19 1	21 40		n.a.
S 26	20 47	27 5	3 31	19 33	1 28	5 34	0 49	18 40	0 28	23 43	0 3	9 25	2 16	3 15	0 45	11 11	1 53	29 17	15 4	19 7	19 2	21 42		n.a.
S 27	20 36	25 54	2 26	18 59	1 23	5 5	0 55	18 50	0 27	23 43	0 3	9 23	2 15	3 15	0 45	11 11	1 53	29 18	15 5	19 7	19 3	21 44		n.a.
M28	20 23	23 3	1 13	18 25	1 19	4 36	1 1	19 0	0 26	23 44	0 3	9 21	2 15	3 16	0 45	11 11	1 53	29 18	15 5	19 7	19 4	21 46		n.a.
T 29	20 11	18 54	0s 4	17 50	1 13	4 7	1 7	19 10	0 25	23 44	0 3	9 18	2 15	3 16	0 46	11 11	1 53	29 19	15 5	19 7	19 4	21 48		n.a.
W30	19 58	13 51	1 18	17 14	1 8	3 38	1 14	19 19	0 24	23 45	0 3	9 16	2 15	3 17	0 46	11 12	1 53	29 19	15 5	19 7	19 5	21 50		n.a.
T 31	19n44	8n16	2s26	16n37	1n 2	3n 9	1s20	19n29	0s23	23n45	0n 3	9n13	2n15	3s17	0s46	11s12	1n53	29s20	15s 5	19s 7	19s 6	21s51		n.a.

Julian Day Number = 1659511.5, Delta T = 03h26m31s
Ecliptic obliquity = 23°43'02, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°24'28, Lahiri = - 6°17'28 Julian Calendar 1 July 170 BCE == Greg. Calendar 28 June 170 BCE

The year -169 astronomical counting style corresponds to year 170 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 170 BCE
geocentric

AUGUST 170 BCE (-169) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 22 18	3♌51'35	15♍52	19♌37	20♍ 4	28♉15	27♊41	12♍ 6	23°R31	3♏54	19°R37	5♒30	5♒30	16♏50	n.a.	F 1
S 2	20 26 14	4°49'41	28°27	21°15	21° 2	28°52	27°53	12°12	23♓29	3°54	19♒36	5°30	5°27	16°57	n.a.	S 2
S 3	20 30 11	5°47'49	10♎47	22°53	22° 0	29°29	28° 5	12°18	23°28	3°55	19°34	5°R30	5°24	17° 4	n.a.	S 3
M 4	20 34 7	6°45'58	22°53	24°29	22°58	0♊ 5	28°17	12°24	23°27	3°55	19°33	5°30	5°21	17°10	n.a.	M 4
T 5	20 38 4	7°44'09	4♏51	26° 4	23°55	0°42	28°29	12°31	23°25	3°56	19°32	5°D30	5°18	17°17	n.a.	T 5
W 6	20 42 1	8°42'21	16°45	27°38	24°52	1°18	28°40	12°37	23°24	3°56	19°31	5°30	5°14	17°24	n.a.	W 6
T 7	20 45 57	9°40'36	28°39	29°10	25°48	1°54	28°52	12°44	23°22	3°57	19°30	5°30	5°11	17°31	n.a.	T 7
F 8	20 49 54	10°38'51	10♐37	0♍42	26°44	2°31	29° 4	12°50	23°21	3°57	19°28	5°30	5° 8	17°37	n.a.	F 8
S 9	20 53 50	11°37'09	22°45	2°12	27°39	3° 7	29°15	12°57	23°19	3°58	19°27	5°31	5° 5	17°44	n.a.	S 9
S 10	20 57 47	12°35'28	5♑ 6	3°40	28°33	3°42	29°26	13° 3	23°17	3°59	19°26	5°32	5° 2	17°51	n.a.	S 10
M11	21 1 43	13°33'49	17°41	5° 8	29°28	4°18	29°38	13°10	23°16	3°59	19°25	5°32	4°59	17°57	n.a.	M11
T 12	21 5 40	14°32'12	0♒34	6°34	0♎21	4°54	29°49	13°16	23°14	4° 0	19°23	5°R33	4°55	18° 4	n.a.	T 12
W13	21 9 36	15°30'36	13°45	8° 0	1°14	5°29	0♋ 0	13°23	23°12	4° 1	19°22	5°33	4°52	18°11	n.a.	W13
T 14	21 13 33	16°29'02	27°12	9°23	2° 7	6° 4	0°11	13°30	23°10	4° 1	19°21	5°32	4°49	18°18	n.a.	T 14
F 15	21 17 30	17°27'31	10♓55	10°46	2°58	6°40	0°22	13°37	23° 9	4° 2	19°20	5°31	4°46	18°24	n.a.	F 15
S 16	21 21 26	18°26'01	24°51	12° 7	3°50	7°15	0°33	13°43	23° 7	4° 3	19°18	5°29	4°43	18°31	n.a.	S 16
S 17	21 25 23	19°24'34	8♈57	13°27	4°40	7°49	0°44	13°50	23° 5	4° 4	19°17	5°28	4°39	18°38	n.a.	S 17
M18	21 29 19	20°23'09	23° 8	14°45	5°30	8°24	0°55	13°57	23° 3	4° 5	19°16	5°26	4°36	18°44	n.a.	M18
T 19	21 33 16	21°21'46	7♉23	16° 2	6°19	8°59	1° 6	14° 4	23° 1	4° 6	19°15	5°25	4°33	18°51	n.a.	T 19
W20	21 37 12	22°20'26	21°37	17°17	7° 7	9°33	1°16	14°11	22°59	4° 7	19°14	5°D25	4°30	18°58	n.a.	W20
T 21	21 41 9	23°19'08	5♊48	18°31	7°55	10° 8	1°27	14°18	22°57	4° 8	19°12	5°25	4°27	19° 5	n.a.	T 21
F 22	21 45 5	24°17'53	19°54	19°43	8°42	10°42	1°37	14°25	22°55	4° 9	19°11	5°26	4°24	19°11	n.a.	F 22
S 23	21 49 2	25°16'40	3♋53	20°53	9°27	11°16	1°48	14°32	22°53	4°10	19°10	5°27	4°20	19°18	n.a.	S 23
S 24	21 52 59	26°15'29	17°44	22° 1	10°13	11°49	1°58	14°39	22°51	4°11	19° 9	5°28	4°17	19°25	n.a.	S 24
M25	21 56 55	27°14'21	1♌25	23° 7	10°57	12°23	2° 8	14°46	22°49	4°12	19° 7	5°R29	4°14	19°32	n.a.	M25
T 26	22 0 52	28°13'14	14°54	24°11	11°40	12°57	2°18	14°53	22°46	4°13	19° 6	5°29	4°11	19°38	n.a.	T 26
W27	22 4 48	29°12'10	28° 9	25°13	12°22	13°30	2°28	15° 0	22°44	4°14	19° 5	5°28	4° 8	19°45	n.a.	W27
T 28	22 8 45	0♍11'08	11♍10	26°12	13° 4	14° 3	2°38	15° 7	22°42	4°16	19° 4	5°25	4° 5	19°52	n.a.	T 28
F 29	22 12 41	1°10'08	23°55	27° 9	13°44	14°36	2°48	15°14	22°40	4°17	19° 3	5°21	4° 1	19°58	n.a.	F 29
S 30	22 16 38	2° 9'10	6♎26	28° 3	14°23	15° 9	2°57	15°21	22°38	4°18	19° 1	5°17	3°58	20° 5	n.a.	S 30
S 31	22 20 34	3♍ 8'14	18♎42	28♍53	15♎ 1	15♊41	3♋ 7	15♍28	22♓35	4♏19	19♒ 0	5♒12	3♒55	20♏12	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	19n31	2n29	3s26	16n 0	0n56	2n40	1s26	19n38	0s23	23n45	0n 3	9n11	2n15	3s18	0s46	11s12	1n53	29s20	15s 5	19s 7	19s 7	21s53		n.a.
S 2	19 17	3s15	4 13	15 22	0 50	2 11	1 33	19 47	0 22	23 46	0 4	9 8	2 15	3 19	0 46	11 12	1 52	29 21	15 5	19 7	19 8	21 55		n.a.
S 3	19 2	8 43	4 48	14 44	0 43	1 41	1 39	19 56	0 21	23 46	0 4	9 6	2 15	3 19	0 46	11 12	1 52	29 21	15 5	19 7	19 8	21 57		n.a.
M 4	18 48	13 46	5 9	14 5	0 37	1 12	1 46	20 5	0 20	23 46	0 4	9 3	2 15	3 20	0 46	11 13	1 52	29 22	15 6	19 7	19 9	21 59		n.a.
T 5	18 33	18 15	5 17	13 26	0 30	0 44	1 52	20 13	0 19	23 46	0 4	9 1	2 15	3 20	0 46	11 13	1 52	29 22	15 6	19 7	19 10	22 0		n.a.
W 6	18 18	21 59	5 11	12 47	0 22	0 15	1 59	20 22	0 18	23 47	0 4	8 58	2 14	3 21	0 46	11 13	1 52	29 23	15 6	19 7	19 11	22 2		n.a.
T 7	18 2	24 49	4 51	12 8	0 15	0s14	2 6	20 30	0 17	23 47	0 4	8 55	2 14	3 22	0 46	11 13	1 52	29 23	15 6	19 7	19 11	22 4		n.a.
F 8	17 46	26 35	4 19	11 28	0 8	0 43	2 13	20 38	0 16	23 47	0 4	8 53	2 14	3 22	0 46	11 14	1 52	29 24	15 6	19 7	19 12	22 6		n.a.
S 9	17 30	27 6	3 35	10 49	0s 0	1 11	2 20	20 46	0 15	23 47	0 4	8 50	2 14	3 23	0 46	11 14	1 52	29 24	15 6	19 7	19 13	22 8		n.a.
S 10	17 13	26 18	2 41	10 9	0 8	1 40	2 27	20 54	0 14	23 47	0 4	8 48	2 14	3 24	0 46	11 14	1 52	29 25	15 6	19 6	19 14	22 9		n.a.
M11	16 57	24 8	1 37	9 30	0 16	2 8	2 34	21 2	0 14	23 48	0 5	8 45	2 14	3 24	0 46	11 14	1 52	29 25	15 6	19 6	19 15	22 11		n.a.
T 12	16 40	20 43	0 28	8 50	0 24	2 36	2 41	21 9	0 13	23 48	0 5	8 42	2 14	3 25	0 46	11 15	1 52	29 26	15 6	19 6	19 15	22 13		n.a.
W13	16 22	16 10	0n45	8 11	0 32	3 4	2 48	21 17	0 12	23 48	0 5	8 40	2 14	3 26	0 46	11 15	1 52	29 26	15 6	19 6	19 16	22 15		n.a.
T 14	16 5	10 45	1 57	7 32	0 40	3 32	2 56	21 24	0 11	23 48	0 5	8 37	2 14	3 27	0 46	11 15	1 52	29 27	15 6	19 6	19 17	22 16		n.a.
F 15	15 47	4 44	3 3	6 52	0 48	3 59	3 3	21 31	0 10	23 48	0 5	8 34	2 14	3 27	0 46	11 16	1 52	29 27	15 6	19 7	19 18	22 18		n.a.
S 16	15 29	1n36	4 0	6 14	0 56	4 26	3 10	21 38	0 9	23 48	0 5	8 32	2 14	3 28	0 46	11 16	1 52	29 28	15 6	19 7	19 18	22 20		n.a.
S 17	15 10	7 54	4 43	5 35	1 5	4 54	3 18	21 44	0 8	23 48	0 5	8 29	2 14	3 29	0 46	11 16	1 51	29 28	15 6	19 7	19 19	22 22		n.a.
M18	14 52	13 51	5 8	4 57	1 13	5 20	3 25	21 51	0 7	23 48	0 5	8 26	2 14	3 30	0 46	11 17	1 51	29 28	15 6	19 8	19 20	22 23		n.a.
T 19	14 33	19 5	5 15	4 20	1 21	5 47	3 33	21 58	0 6	23 48	0 6	8 23	2 14	3 30	0 46	11 17	1 51	29 29	15 6	19 8	19 21	22 25		n.a.
W20	14 14	23 15	5 3	3 42	1 30	6 13	3 40	22 4	0 5	23 48	0 6	8 21	2 13	3 31	0 46	11 18	1 51	29 29	15 6	19 8	19 22	22 27		n.a.
T 21	13 54	25 59	4 32	3 6	1 38	6 39	3 48	22 10	0 4	23 48	0 6	8 18	2 13	3 32	0 46	11 18	1 51	29 30	15 7	19 8	19 22	22 28		n.a.
F 22	13 35	27 4	3 45	2 30	1 46	7 5	3 55	22 16	0 3	23 48	0 6	8 15	2 13	3 33	0 46	11 18	1 51	29 30	15 6	19 8	19 23	22 30		n.a.
S 23	13 15	26 25	2 45	1 55	1 54	7 30	4 3	22 22	0 2	23 48	0 6	8 12	2 13	3 34	0 46	11 19	1 51	29 30	15 6	19 8	19 24	22 32		n.a.
S 24	12 55	24 7	1 36	1 20	2 2	7 55	4 10	22 28	0 0	23 48	0 6	8 10	2 13	3 35	0 46	11 19	1 51	29 31	15 6	19 7	19 25	22 33		n.a.
M25	12 34	20 26	0 22	0 46	2 10	8 20	4 18	22 33	0n 1	23 48	0 6	8 7	2 13	3 35	0 46	11 20	1 51	29 31	15 6	19 7	19 25	22 35		n.a.
T 26	12 14	15 44	0s52	0 13	2 18	8 44	4 26	22 39	0 2	23 48	0 6	8 4	2 13	3 36	0 46	11 20	1 51	29 32	15 6	19 7	19 26	22 37		n.a.
W27	11 53	10 22	2 1	0s18	2 26	9 8	4 33	22 44	0 3	23 48	0 7	8 1	2 13	3 37	0 46	11 21	1 51	29 32	15 6	19 7	19 27	22 38		n.a.
T 28	11 32	4 38	3 3	0 49	2 33	9 31	4 41	22 49	0 4	23 48	0 7	7 58	2 13	3 38	0 46	11 21	1 51	29 32	15 6	19 8	19 28	22 40		n.a.
F 29	11 11	1s 9	3 55	1 18	2 40	9 54	4 49	22 54	0 5	23 48	0 7	7 56	2 13	3 39	0 46	11 21	1 51	29 33	15 6	19 9	19 28	22 42		n.a.
S 30	10 50	6 46	4 34	1 46	2 47	10 16	4 56	22 59	0 6	23 48	0 7	7 53	2 13	3 40	0 46	11 22	1 51	29 33	15 6	19 10	19 29	22 43		n.a.
S 31	10n28	12s 1	5s 0	2s13	2s54	10s38	5s 4	23n 4	0n 7	23n48	0n 7	7n50	2n13	3s41	0s46	11s22	1n51	29s33	15s 6	19s11	19s30	22s45		n.a.

Julian Day Number = 1659542.5, Delta T = 03h26m30s
Ecliptic obliquity = 23°43'02, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°24'24, Lahiri = - 6°17'24 Julian Calendar 1 Aug. 170 BCE == Greg. Calendar 29 July 170 BCE

The year -169 astronomical counting style corresponds to year 170 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 170 BCE
geocentric

SEPTEMBER 170 BCE (-169) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 24 31	4♍ 7'19	0♏48	29♍40	15♎38	16♊14	3♋16	15♍35	22°R33	4♏21	18°R59	5°R 8	3♒52	20♏19	n.a.	M 1
T 2	22 28 27	5° 6'27	12°45	0♎24	16°13	16°46	3°25	15°43	22♓31	4°22	18♒58	5♒ 4	3°49	20°25	n.a.	T 2
W 3	22 32 24	6° 5'37	24°37	1° 3	16°47	17°18	3°35	15°50	22°28	4°23	18°57	5° 2	3°45	20°32	n.a.	W 3
T 4	22 36 21	7° 4'48	6♐30	1°38	17°20	17°50	3°44	15°57	22°26	4°25	18°55	5°D 2	3°42	20°39	n.a.	T 4
F 5	22 40 17	8° 4'02	18°27	2° 8	17°52	18°22	3°53	16° 4	22°24	4°26	18°54	5° 2	3°39	20°45	n.a.	F 5
S 6	22 44 14	9° 3'17	0♑34	2°33	18°22	18°53	4° 2	16°11	22°21	4°28	18°53	5° 4	3°36	20°52	n.a.	S 6
S 7	22 48 10	10° 2'35	12°55	2°53	18°50	19°24	4°10	16°19	22°19	4°29	18°52	5° 5	3°33	20°59	n.a.	S 7
M 8	22 52 7	11° 1'54	25°35	3° 6	19°17	19°55	4°19	16°26	22°17	4°31	18°51	5° 7	3°30	21° 6	n.a.	M 8
T 9	22 56 3	12° 1'15	8♒37	3°R13	19°43	20°26	4°27	16°33	22°14	4°32	18°50	5°R 7	3°26	21°12	n.a.	T 9
W10	23 0 0	13° 0'38	22° 2	3°12	20° 6	20°57	4°36	16°40	22°12	4°34	18°49	5° 6	3°23	21°19	n.a.	W10
T 11	23 3 56	14° 0'03	5♓50	3° 4	20°28	21°27	4°44	16°48	22°10	4°35	18°47	5° 3	3°20	21°26	n.a.	T 11
F 12	23 7 53	14°59'30	19°58	2°49	20°48	21°58	4°52	16°55	22° 7	4°37	18°46	4°58	3°17	21°32	n.a.	F 12
S 13	23 11 50	15°58'59	4♈23	2°25	21° 6	22°28	5° 0	17° 2	22° 5	4°38	18°45	4°52	3°14	21°39	n.a.	S 13
S 14	23 15 46	16°58'31	18°58	1°52	21°22	22°57	5° 8	17° 9	22° 2	4°40	18°44	4°45	3°11	21°46	n.a.	S 14
M15	23 19 43	17°58'05	3♉35	1°12	21°37	23°27	5°16	17°17	22° 0	4°42	18°43	4°39	3° 7	21°53	n.a.	M15
T 16	23 23 39	18°57'41	18° 9	0°23	21°49	23°56	5°23	17°24	21°57	4°43	18°42	4°34	3° 4	21°59	n.a.	T 16
W17	23 27 36	19°57'19	2♊33	29♍26	21°59	24°25	5°31	17°31	21°55	4°45	18°41	4°30	3° 1	22° 6	n.a.	W17
T 18	23 31 32	20°57'00	16°45	28°23	22° 7	24°54	5°38	17°38	21°52	4°47	18°40	4°D29	2°58	22°13	n.a.	T 18
F 19	23 35 29	21°56'44	0♋43	27°15	22°12	25°23	5°45	17°46	21°50	4°49	18°39	4°29	2°55	22°19	n.a.	F 19
S 20	23 39 25	22°56'30	14°27	26° 2	22°16	25°51	5°52	17°53	21°48	4°50	18°38	4°30	2°51	22°26	n.a.	S 20
S 21	23 43 22	23°56'18	27°56	24°48	22°R17	26°19	5°59	18° 0	21°45	4°52	18°37	4°R31	2°48	22°33	n.a.	S 21
M22	23 47 19	24°56'09	11♌13	23°33	22°15	26°47	6° 6	18° 7	21°43	4°54	18°36	4°31	2°45	22°40	n.a.	M22
T 23	23 51 15	25°56'01	24°17	22°21	22°12	27°14	6°12	18°15	21°40	4°56	18°35	4°29	2°42	22°46	n.a.	T 23
W24	23 55 12	26°55'56	7♍10	21°13	22° 6	27°42	6°19	18°22	21°38	4°58	18°34	4°25	2°39	22°53	n.a.	W24
T 25	23 59 8	27°55'53	19°52	20°12	21°57	28° 9	6°25	18°29	21°35	5° 0	18°33	4°18	2°36	23° 0	n.a.	T 25
F 26	0 3 5	28°55'52	2♎24	19°19	21°46	28°35	6°31	18°36	21°33	5° 2	18°32	4° 9	2°32	23° 6	n.a.	F 26
S 27	0 7 1	29°55'53	14°44	18°36	21°33	29° 2	6°37	18°43	21°31	5° 3	18°32	3°58	2°29	23°13	n.a.	S 27
S 28	0 10 58	0♎55'56	26°55	18° 3	21°17	29°28	6°43	18°51	21°28	5° 5	18°31	3°47	2°26	23°20	n.a.	S 28
M29	0 14 54	1°56'01	8♏56	17°42	20°59	29°53	6°48	18°58	21°26	5° 7	18°30	3°36	2°23	23°27	n.a.	M29
T 30	0 18 51	2♎56'07	20♏51	17°D33	20♎39	0♋19	6♋54	19♍ 5	21♓23	5♏ 9	18♒29	3♒27	2♒20	23♏33	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	10n 7	16s44	5s12	2s37	3s 1	11s 0	5s11	23n 8	0n 8	23n48	0n 7	7n47	2n13	3s42	0s46	11s23	1n51	29s34	15s 6	19s12	19s31	22s47		n.a.
T 2	9 45	20 45	5 10	3 0	3 7	11 21	5 19	23 13	0 10	23 48	0 7	7 44	2 13	3 43	0 46	11 23	1 51	29 34	15 6	19 13	19 31	22 48		n.a.
W 3	9 23	23 54	4 55	3 21	3 12	11 41	5 26	23 17	0 11	23 48	0 7	7 41	2 13	3 44	0 46	11 24	1 50	29 34	15 6	19 14	19 32	22 50		n.a.
T 4	9 1	26 1	4 27	3 40	3 17	12 1	5 34	23 21	0 12	23 47	0 8	7 39	2 13	3 44	0 46	11 24	1 50	29 35	15 6	19 14	19 33	22 51		n.a.
F 5	8 38	26 59	3 47	3 56	3 21	12 20	5 41	23 25	0 13	23 47	0 8	7 36	2 13	3 45	0 46	11 25	1 50	29 35	15 6	19 14	19 34	22 53		n.a.
S 6	8 16	26 40	2 57	4 10	3 25	12 38	5 48	23 29	0 14	23 47	0 8	7 33	2 13	3 46	0 46	11 26	1 50	29 35	15 6	19 13	19 34	22 55		n.a.
S 7	7 53	25 2	1 58	4 20	3 28	12 56	5 55	23 33	0 16	23 47	0 8	7 30	2 13	3 47	0 46	11 26	1 50	29 36	15 6	19 13	19 35	22 56		n.a.
M 8	7 31	22 7	0 52	4 27	3 30	13 13	6 3	23 36	0 17	23 47	0 8	7 27	2 13	3 48	0 46	11 27	1 50	29 36	15 5	19 13	19 36	22 58		n.a.
T 9	7 8	18 1	0n19	4 31	3 31	13 29	6 9	23 40	0 18	23 47	0 8	7 24	2 13	3 49	0 46	11 27	1 50	29 36	15 5	19 13	19 37	22 59		n.a.
W10	6 45	12 54	1 31	4 31	3 31	13 44	6 16	23 43	0 19	23 47	0 8	7 22	2 13	3 50	0 46	11 28	1 50	29 37	15 5	19 13	19 37	23 1		n.a.
T 11	6 22	7 1	2 39	4 26	3 30	13 59	6 23	23 47	0 21	23 46	0 9	7 19	2 13	3 51	0 46	11 28	1 50	29 37	15 5	19 14	19 38	23 3		n.a.
F 12	5 59	0 40	3 39	4 18	3 27	14 12	6 29	23 50	0 22	23 46	0 9	7 16	2 13	3 52	0 46	11 29	1 50	29 37	15 5	19 15	19 39	23 4		n.a.
S 13	5 35	5n50	4 26	4 4	3 23	14 25	6 35	23 53	0 23	23 46	0 9	7 13	2 13	3 53	0 46	11 30	1 50	29 37	15 5	19 16	19 40	23 6		n.a.
S 14	5 12	12 5	4 57	3 46	3 17	14 37	6 41	23 56	0 24	23 46	0 9	7 10	2 13	3 54	0 46	11 30	1 50	29 37	15 5	19 18	19 40	23 7		n.a.
M15	4 49	17 41	5 8	3 23	3 10	14 48	6 47	23 59	0 26	23 46	0 9	7 7	2 13	3 55	0 46	11 31	1 50	29 38	15 5	19 19	19 41	23 9		n.a.
T 16	4 25	22 13	5 0	2 54	3 0	14 57	6 53	24 2	0 27	23 46	0 9	7 5	2 13	3 56	0 46	11 31	1 50	29 38	15 4	19 21	19 42	23 10		n.a.
W17	4 1	25 22	4 33	2 21	2 49	15 6	6 58	24 4	0 28	23 45	0 9	7 2	2 13	3 57	0 46	11 32	1 50	29 38	15 4	19 21	19 43	23 12		n.a.
T 18	3 38	26 51	3 49	1 43	2 35	15 13	7 3	24 7	0 30	23 45	0 10	6 59	2 13	3 58	0 46	11 33	1 50	29 38	15 4	19 22	19 43	23 13		n.a.
F 19	3 14	26 35	2 52	1 2	2 20	15 20	7 8	24 9	0 31	23 45	0 10	6 56	2 13	3 59	0 46	11 33	1 50	29 38	15 4	19 22	19 44	23 15		n.a.
S 20	2 50	24 41	1 46	0 17	2 3	15 25	7 12	24 12	0 33	23 45	0 10	6 53	2 13	4 0	0 46	11 34	1 50	29 39	15 4	19 21	19 45	23 16		n.a.
S 21	2 26	21 24	0 35	0n29	1 45	15 29	7 16	24 14	0 34	23 45	0 10	6 50	2 13	4 1	0 46	11 35	1 50	29 39	15 4	19 21	19 46	23 18		n.a.
M22	2 2	17 2	0s36	1 17	1 25	15 32	7 19	24 16	0 35	23 45	0 10	6 48	2 14	4 2	0 46	11 35	1 50	29 39	15 3	19 21	19 46	23 19		n.a.
T 23	1 38	11 57	1 44	2 5	1 5	15 33	7 22	24 18	0 37	23 44	0 10	6 45	2 14	4 3	0 46	11 36	1 50	29 39	15 3	19 22	19 47	23 21		n.a.
W24	1 14	6 25	2 46	2 50	0 44	15 33	7 24	24 20	0 38	23 44	0 10	6 42	2 14	4 4	0 46	11 37	1 49	29 39	15 3	19 23	19 48	23 22		n.a.
T 25	0 50	0 43	3 38	3 34	0 24	15 31	7 26	24 22	0 40	23 44	0 11	6 39	2 14	4 5	0 46	11 37	1 49	29 39	15 3	19 24	19 49	23 24		n.a.
F 26	0 26	4s55	4 19	4 13	0 4	15 28	7 27	24 24	0 41	23 44	0 11	6 36	2 14	4 6	0 46	11 38	1 49	29 39	15 3	19 27	19 49	23 25		n.a.
S 27	0 2	10 17	4 47	4 48	0n15	15 24	7 28	24 26	0 43	23 44	0 11	6 34	2 14	4 7	0 46	11 39	1 49	29 40	15 2	19 29	19 50	23 27		n.a.
S 28	0s23	15 10	5 2	5 17	0 33	15 18	7 28	24 27	0 44	23 44	0 11	6 31	2 14	4 8	0 46	11 39	1 49	29 40	15 2	19 32	19 51	23 28		n.a.
M29	0 47	19 24	5 3	5 41	0 50	15 10	7 27	24 29	0 46	23 44	0 11	6 28	2 14	4 9	0 46	11 40	1 49	29 40	15 2	19 34	19 51	23 30		n.a.
T 30	1s11	22s50	4s50	5n58	1n 5	15s 1	7s26	24n30	0n47	23n43	0n11	6n25	2n14	4s10	0s46	11s41	1n49	29s40	15s 2	19s37	19s52	23s31		n.a.

Julian Day Number = 1659573.5, Delta T = 03h26m29s
Ecliptic obliquity = 23°43'02, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°24'20, Lahiri = - 6°17'19 Julian Calendar 1 Sept. 170 BCE == Greg. Calendar 29 Aug. 170 BCE

The year -169 astronomical counting style corresponds to year 170 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 170 BCE
geocentric

OCTOBER 170 BCE (-169) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 22 47	3♎56'16	2♐41	17♍34	20°R17	0♋44	6♋59	19♍12	21°R21	5♏11	18°R28	3°R20	2♒16	23♏40	n.a.	W 1
T 2	0 26 44	4°56'26	14°31	17°47	19♎52	1° 9	7° 4	19°19	21♓19	5°13	18♒27	3♒15	2°13	23°47	n.a.	T 2
F 3	0 30 41	5°56'38	26°25	18°10	19°25	1°33	7° 9	19°26	21°16	5°15	18°27	3°13	2°10	23°53	n.a.	F 3
S 4	0 34 37	6°56'52	8♑28	18°43	18°57	1°58	7°14	19°33	21°14	5°17	18°26	3°D12	2° 7	24° 0	n.a.	S 4
S 5	0 38 34	7°57'07	20°45	19°24	18°27	2°21	7°19	19°40	21°12	5°19	18°25	3°13	2° 4	24° 7	n.a.	S 5
M 6	0 42 30	8°57'23	3♒22	20°14	17°55	2°45	7°23	19°47	21° 9	5°21	18°24	3°R13	2° 1	24°14	n.a.	M 6
T 7	0 46 27	9°57'42	16°23	21°10	17°22	3° 8	7°27	19°54	21° 7	5°24	18°24	3°12	1°57	24°20	n.a.	T 7
W 8	0 50 23	10°58'02	29°51	22°12	16°48	3°31	7°31	20° 1	21° 5	5°26	18°23	3°10	1°54	24°27	n.a.	W 8
T 9	0 54 20	11°58'23	13♓48	23°20	16°12	3°53	7°35	20° 8	21° 2	5°28	18°22	3° 4	1°51	24°34	n.a.	T 9
F 10	0 58 16	12°58'46	28°12	24°32	15°37	4°15	7°39	20°15	21° 0	5°30	18°22	2°56	1°48	24°40	n.a.	F 10
S 11	1 2 13	13°59'11	12♈58	25°48	15° 0	4°37	7°43	20°22	20°58	5°32	18°21	2°46	1°45	24°47	n.a.	S 11
S 12	1 6 10	14°59'37	27°58	27° 8	14°24	4°58	7°46	20°29	20°56	5°34	18°21	2°35	1°42	24°54	n.a.	S 12
M13	1 10 6	16° 0'05	13♉ 2	28°30	13°47	5°19	7°49	20°35	20°54	5°36	18°20	2°24	1°38	25° 1	n.a.	M13
T 14	1 14 3	17° 0'35	28° 1	29°55	13°11	5°39	7°52	20°42	20°52	5°38	18°19	2°15	1°35	25° 7	n.a.	T 14
W15	1 17 59	18° 1'08	12♊45	1♎22	12°36	5°59	7°55	20°49	20°49	5°41	18°19	2° 9	1°32	25°14	n.a.	W15
T 16	1 21 56	19° 1'42	27°11	2°51	12° 1	6°19	7°58	20°56	20°47	5°43	18°18	2° 5	1°29	25°21	n.a.	T 16
F 17	1 25 52	20° 2'18	11♋13	4°21	11°27	6°38	8° 0	21° 2	20°45	5°45	18°18	2° 3	1°26	25°27	n.a.	F 17
S 18	1 29 49	21° 2'56	24°54	5°52	10°55	6°56	8° 2	21° 9	20°43	5°47	18°17	2° 3	1°22	25°34	n.a.	S 18
S 19	1 33 45	22° 3'35	8♌14	7°23	10°24	7°14	8° 5	21°16	20°41	5°49	18°17	2° 3	1°19	25°41	n.a.	S 19
M20	1 37 42	23° 4'17	21°16	8°56	9°55	7°32	8° 6	21°22	20°39	5°52	18°17	2° 2	1°16	25°48	n.a.	M20
T 21	1 41 39	24° 5'00	4♍ 4	10°29	9°27	7°49	8° 8	21°29	20°37	5°54	18°16	1°58	1°13	25°54	n.a.	T 21
W22	1 45 35	25° 5'45	16°39	12° 3	9° 2	8° 6	8°10	21°35	20°35	5°56	18°16	1°52	1°10	26° 1	n.a.	W22
T 23	1 49 32	26° 6'31	29° 4	13°37	8°38	8°22	8°11	21°42	20°34	5°58	18°15	1°42	1° 7	26° 8	n.a.	T 23
F 24	1 53 28	27° 7'19	11♎20	15°11	8°17	8°38	8°12	21°48	20°32	6° 0	18°15	1°30	1° 3	26°14	n.a.	F 24
S 25	1 57 25	28° 8'09	23°29	16°45	7°58	8°53	8°13	21°54	20°30	6° 3	18°15	1°15	1° 0	26°21	n.a.	S 25
S 26	2 1 21	29° 9'00	5♏31	18°20	7°42	9° 8	8°14	22° 1	20°28	6° 5	18°15	1° 0	0°57	26°28	n.a.	S 26
M27	2 5 18	0♏ 9'52	17°27	19°54	7°28	9°22	8°14	22° 7	20°26	6° 7	18°14	0°46	0°54	26°35	n.a.	M27
T 28	2 9 14	1°10'46	29°19	21°29	7°16	9°36	8°15	22°13	20°25	6° 9	18°14	0°32	0°51	26°41	n.a.	T 28
W29	2 13 11	2°11'41	11♐ 9	23° 3	7° 7	9°49	8°R15	22°19	20°23	6°12	18°14	0°22	0°48	26°48	n.a.	W29
T 30	2 17 8	3°12'36	22°58	24°38	7° 0	10° 1	8°15	22°25	20°21	6°14	18°14	0°14	0°44	26°55	n.a.	T 30
F 31	2 21 4	4♏13'33	4♑51	26♎13	6♎56	10♋13	8♋14	22♍31	20♓20	6♏16	18♒14	0♒10	0♒41	27♏ 1	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	1s35	25s16	4s25	6n10	1n19	14s50	7s24	24n32	0n49	23n43	0n11	6n22	2n14	4s10	0s46	11s41	1n49	29s40	15s 2	19s38	19s53	23s32			n.a.
T 2	1 59	26 36	3 49	6 16	1 30	14 38	7 21	24 33	0 51	23 43	0 12	6 20	2 14	4 11	0 46	11 42	1 49	29 40	15 1	19 39	19 54	23 34			n.a.
F 3	2 23	26 43	3 3	6 16	1 41	14 24	7 17	24 35	0 52	23 43	0 12	6 17	2 14	4 12	0 46	11 43	1 49	29 40	15 1	19 40	19 54	23 35			n.a.
S 4	2 47	25 34	2 8	6 11	1 49	14 9	7 13	24 36	0 54	23 43	0 12	6 14	2 14	4 13	0 46	11 43	1 49	29 40	15 1	19 40	19 55	23 37			n.a.
S 5	3 11	23 11	1 6	6 1	1 56	13 52	7 7	24 37	0 56	23 43	0 12	6 12	2 14	4 14	0 46	11 44	1 49	29 40	15 1	19 40	19 56	23 38			n.a.
M 6	3 35	19 37	0n 1	5 47	2 2	13 34	7 1	24 39	0 57	23 43	0 12	6 9	2 15	4 15	0 46	11 45	1 49	29 40	15 0	19 40	19 57	23 39			n.a.
T 7	3 59	15 0	1 9	5 28	2 6	13 15	6 54	24 40	0 59	23 43	0 12	6 6	2 15	4 16	0 46	11 46	1 49	29 40	15 0	19 40	19 57	23 41			n.a.
W 8	4 23	9 32	2 17	5 6	2 9	12 54	6 46	24 41	1 1	23 43	0 13	6 3	2 15	4 17	0 46	11 46	1 49	29 40	15 0	19 41	19 58	23 42			n.a.
T 9	4 47	3 24	3 18	4 41	2 11	12 33	6 38	24 42	1 2	23 43	0 13	6 1	2 15	4 18	0 46	11 47	1 49	29 40	15 0	19 42	19 59	23 44			n.a.
F 10	5 11	3n 4	4 8	4 13	2 12	12 10	6 28	24 43	1 4	23 42	0 13	5 58	2 15	4 19	0 46	11 48	1 49	29 40	14 59	19 44	19 59	23 45			n.a.
S 11	5 35	9 31	4 44	3 42	2 12	11 46	6 18	24 44	1 6	23 42	0 13	5 56	2 15	4 19	0 46	11 49	1 49	29 40	14 59	19 46	20 0	23 46			n.a.
S 12	5 58	15 32	5 0	3 9	2 11	11 21	6 7	24 45	1 8	23 42	0 13	5 53	2 15	4 20	0 46	11 49	1 49	29 40	14 59	19 49	20 1	23 48			n.a.
M13	6 22	20 37	4 56	2 34	2 9	10 56	5 55	24 46	1 10	23 42	0 13	5 50	2 15	4 21	0 46	11 50	1 49	29 40	14 58	19 51	20 2	23 49			n.a.
T 14	6 45	24 21	4 32	1 58	2 7	10 31	5 43	24 47	1 11	23 42	0 14	5 48	2 15	4 22	0 46	11 51	1 49	29 40	14 58	19 53	20 2	23 50			n.a.
W15	7 9	26 23	3 49	1 20	2 4	10 5	5 30	24 48	1 13	23 42	0 14	5 45	2 16	4 23	0 46	11 51	1 49	29 40	14 58	19 55	20 3	23 52			n.a.
T 16	7 32	26 34	2 53	0 41	2 0	9 39	5 16	24 49	1 15	23 42	0 14	5 43	2 16	4 24	0 46	11 52	1 49	29 39	14 58	19 56	20 4	23 53			n.a.
F 17	7 55	25 2	1 48	0 2	1 56	9 13	5 3	24 50	1 17	23 42	0 14	5 40	2 16	4 24	0 46	11 53	1 49	29 39	14 57	19 56	20 4	23 54			n.a.
S 18	8 18	22 1	0 38	0s39	1 52	8 47	4 48	24 51	1 19	23 42	0 14	5 37	2 16	4 25	0 46	11 54	1 49	29 39	14 57	19 56	20 5	23 56			n.a.
S 19	8 41	17 53	0s33	1 20	1 47	8 21	4 34	24 52	1 21	23 42	0 14	5 35	2 16	4 26	0 46	11 54	1 49	29 39	14 57	19 56	20 6	23 57			n.a.
M20	9 4	13 0	1 40	2 1	1 42	7 55	4 19	24 53	1 23	23 43	0 15	5 32	2 16	4 27	0 46	11 55	1 49	29 39	14 56	19 56	20 7	23 58			n.a.
T 21	9 27	7 39	2 40	2 43	1 36	7 31	4 3	24 54	1 25	23 43	0 15	5 30	2 16	4 27	0 46	11 56	1 49	29 39	14 56	19 57	20 7	24 0			n.a.
W22	9 49	2 5	3 32	3 25	1 31	7 6	3 48	24 55	1 27	23 43	0 15	5 28	2 16	4 28	0 46	11 57	1 49	29 39	14 56	19 59	20 8	24 1			n.a.
T 23	10 12	3s29	4 13	4 8	1 25	6 43	3 33	24 56	1 29	23 43	0 15	5 25	2 17	4 29	0 46	11 57	1 49	29 38	14 56	20 1	20 9	24 2			n.a.
F 24	10 34	8 50	4 41	4 50	1 19	6 20	3 17	24 57	1 31	23 43	0 15	5 23	2 17	4 30	0 46	11 58	1 49	29 38	14 55	20 3	20 9	24 3			n.a.
S 25	10 56	13 48	4 56	5 33	1 13	5 59	3 2	24 58	1 33	23 43	0 15	5 20	2 17	4 30	0 46	11 59	1 49	29 38	14 55	20 7	20 10	24 5			n.a.
S 26	11 18	18 11	4 58	6 15	1 6	5 38	2 47	24 59	1 35	23 43	0 16	5 18	2 17	4 31	0 46	12 0	1 49	29 38	14 55	20 10	20 11	24 6			n.a.
M27	11 40	21 49	4 47	6 57	1 0	5 18	2 31	25 0	1 38	23 43	0 16	5 16	2 17	4 32	0 46	12 1	1 49	29 38	14 54	20 13	20 11	24 7			n.a.
T 28	12 1	24 31	4 23	7 39	0 53	5 0	2 16	25 1	1 40	23 43	0 16	5 13	2 17	4 32	0 46	12 1	1 49	29 38	14 54	20 16	20 12	24 8			n.a.
W29	12 22	26 8	3 48	8 21	0 47	4 43	2 2	25 3	1 42	23 44	0 16	5 11	2 18	4 33	0 46	12 2	1 49	29 37	14 54	20 18	20 13	24 10			n.a.
T 30	12 44	26 34	3 3	9 2	0 40	4 27	1 47	25 4	1 44	23 44	0 16	5 9	2 18	4 34	0 45	12 3	1 49	29 37	14 53	20 20	20 14	24 11			n.a.
F 31	13s 5	25s47	2s 9	9s43	0n33	4s12	1s33	25n 5	1n46	23n44	0n17	5n 6	2n18	4s34	0s45	12s 4	1n49	29s37	14s53	20s21	20s14	24s12			n.a.

Julian Day Number = 1659603.5, Delta T = 03h26m28s
Ecliptic obliquity = 23°43'02, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°24'16, Lahiri = - 6°17'15 Julian Calendar 1 Oct. 170 BCE == Greg. Calendar 28 Sept. 170 BCE

The year -169 astronomical counting style corresponds to year 170 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 170 BCE
geocentric

NOVEMBER 170 BCE (-169) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 25 1	5♏14'31	16♑51	27♎47	6°D54	10♋24	8°R14	22♍37	20°R18	6♏19	18°R13	0°R 8	0♒38	27♏ 8	n.a.	S 1
S 2	2 28 57	6°15'30	29° 4	29°21	6♎55	10°34	8♋13	22°43	20♓17	6°21	18♒13	0♒ 7	0°35	27°15	n.a.	S 2
M 3	2 32 54	7°16'29	11♒35	0♏56	6°58	10°44	8°12	22°49	20°15	6°23	18°13	0° 7	0°32	27°21	n.a.	M 3
T 4	2 36 50	8°17'30	24°29	2°30	7° 3	10°54	8°11	22°55	20°14	6°25	18°13	0° 6	0°28	27°28	n.a.	T 4
W 5	2 40 47	9°18'31	7♓51	4° 4	7°11	11° 2	8°10	23° 1	20°13	6°28	18°13	0° 4	0°25	27°35	n.a.	W 5
T 6	2 44 43	10°19'32	21°43	5°39	7°21	11°10	8° 9	23° 6	20°11	6°30	18°D13	29♑58	0°22	27°42	n.a.	T 6
F 7	2 48 40	11°20'35	6♈ 5	7°13	7°33	11°18	8° 7	23°12	20°10	6°32	18°13	29°50	0°19	27°48	n.a.	F 7
S 8	2 52 37	12°21'38	20°55	8°47	7°47	11°24	8° 5	23°18	20° 9	6°34	18°13	29°40	0°16	27°55	n.a.	S 8
S 9	2 56 33	13°22'42	6♉ 5	10°21	8° 4	11°30	8° 3	23°23	20° 8	6°37	18°13	29°29	0°13	28° 2	n.a.	S 9
M10	3 0 30	14°23'47	21°24	11°56	8°22	11°36	8° 1	23°29	20° 6	6°39	18°13	29°18	0° 9	28° 8	n.a.	M10
T 11	3 4 26	15°24'53	6♊42	13°30	8°43	11°40	7°58	23°34	20° 5	6°41	18°14	29° 8	0° 6	28°15	n.a.	T 11
W12	3 8 23	16°25'59	21°47	15° 4	9° 5	11°44	7°56	23°39	20° 4	6°43	18°14	29° 1	0° 3	28°22	n.a.	W12
T 13	3 12 19	17°27'07	6♋31	16°39	9°30	11°47	7°53	23°45	20° 3	6°46	18°14	28°57	29♑59	28°29	n.a.	T 13
F 14	3 16 16	18°28'16	20°48	18°13	9°56	11°49	7°50	23°50	20° 2	6°48	18°14	28°55	29°57	28°35	n.a.	F 14
S 15	3 20 12	19°29'25	4♌38	19°48	10°24	11°51	7°47	23°55	20° 1	6°50	18°14	28°D55	29°53	28°42	n.a.	S 15
S 16	3 24 9	20°30'36	18° 2	21°22	10°53	11°52	7°43	24° 0	20° 0	6°52	18°14	28°R55	29°50	28°49	n.a.	S 16
M17	3 28 6	21°31'47	1♍ 3	22°57	11°24	11°R52	7°40	24° 5	20° 0	6°54	18°15	28°55	29°47	28°55	n.a.	M17
T 18	3 32 2	22°32'59	13°44	24°32	11°57	11°51	7°36	24°10	19°59	6°57	18°15	28°52	29°44	29° 2	n.a.	T 18
W19	3 35 59	23°34'12	26°10	26° 7	12°31	11°50	7°32	24°15	19°58	6°59	18°15	28°48	29°41	29° 9	n.a.	W19
T 20	3 39 55	24°35'26	8♎24	27°42	13° 7	11°47	7°28	24°19	19°57	7° 1	18°16	28°40	29°38	29°15	n.a.	T 20
F 21	3 43 52	25°36'40	20°30	29°18	13°44	11°44	7°24	24°24	19°57	7° 3	18°16	28°30	29°34	29°22	n.a.	F 21
S 22	3 47 48	26°37'55	2♏29	0♐53	14°22	11°40	7°19	24°29	19°56	7° 5	18°16	28°18	29°31	29°29	n.a.	S 22
S 23	3 51 45	27°39'10	14°24	2°29	15° 2	11°35	7°14	24°33	19°56	7° 8	18°17	28° 6	29°28	29°36	n.a.	S 23
M24	3 55 41	28°40'26	26°16	4° 5	15°42	11°29	7°10	24°38	19°55	7°10	18°17	27°53	29°25	29°42	n.a.	M24
T 25	3 59 38	29°41'42	8♐ 6	5°41	16°24	11°23	7° 5	24°42	19°55	7°12	18°18	27°42	29°22	29°49	n.a.	T 25
W26	4 3 35	0♐42'59	19°57	7°18	17° 7	11°16	7° 0	24°46	19°54	7°14	18°18	27°34	29°19	29°56	n.a.	W26
T 27	4 7 31	1°44'15	1♑50	8°54	17°51	11° 7	6°54	24°50	19°54	7°16	18°19	27°27	29°15	0♐ 2	n.a.	T 27
F 28	4 11 28	2°45'32	13°46	10°31	18°36	10°59	6°49	24°55	19°54	7°18	18°19	27°24	29°12	0° 9	n.a.	F 28
S 29	4 15 24	3°46'48	25°50	12° 8	19°23	10°49	6°43	24°59	19°54	7°20	18°20	27°D23	29° 9	0°16	n.a.	S 29
S 30	4 19 21	4♐48'05	8♒ 5	13♐45	20♎10	10♋38	6♋37	25♍ 3	19♓54	7♏22	18♒20	27♑23	29♑ 6	0♐23	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s25	23s47	1s10	10s24	0n27	3s58	1s19	25n 7	1n49	23n44	0n17	5n 4	2n18	4s35	0s45	12s 4	1n49	29s37	14s53	20s21	20s15	24s13		n.a.
S 2	13 46	20 40	0 6	11 4	0 20	3 46	1 5	25 8	1 51	23 44	0 17	5 2	2 18	4 35	0 45	12 5	1 49	29 36	14 52	20 22	20 16	24 15		n.a.
M 3	14 6	16 33	1n 0	11 44	0 13	3 35	0 52	25 10	1 53	23 45	0 17	5 0	2 18	4 36	0 45	12 6	1 49	29 36	14 52	20 22	20 16	24 16		n.a.
T 4	14 26	11 33	2 5	12 23	0 6	3 25	0 39	25 11	1 56	23 45	0 17	4 58	2 19	4 36	0 45	12 7	1 49	29 36	14 52	20 22	20 17	24 17		n.a.
W 5	14 46	5 52	3 5	13 2	0s 0	3 17	0 26	25 13	1 58	23 45	0 17	4 55	2 19	4 37	0 45	12 7	1 49	29 35	14 51	20 22	20 18	24 18		n.a.
T 6	15 5	0n18	3 57	13 40	0 7	3 9	0 14	25 15	2 1	23 45	0 18	4 53	2 19	4 37	0 45	12 8	1 49	29 35	14 51	20 23	20 18	24 19		n.a.
F 7	15 24	6 39	4 36	14 17	0 13	3 3	0 2	25 16	2 3	23 46	0 18	4 51	2 19	4 38	0 45	12 9	1 49	29 35	14 51	20 25	20 19	24 21		n.a.
S 8	15 43	12 50	4 57	14 54	0 20	2 58	0n10	25 18	2 5	23 46	0 18	4 49	2 19	4 38	0 45	12 10	1 49	29 35	14 51	20 27	20 20	24 22		n.a.
S 9	16 2	18 23	4 59	15 31	0 26	2 55	0 21	25 20	2 8	23 46	0 18	4 47	2 20	4 39	0 45	12 10	1 49	29 34	14 50	20 30	20 20	24 23		n.a.
M10	16 21	22 48	4 39	16 6	0 33	2 52	0 32	25 22	2 10	23 47	0 18	4 45	2 20	4 39	0 45	12 11	1 49	29 34	14 50	20 32	20 21	24 24		n.a.
T 11	16 39	25 36	3 59	16 41	0 39	2 51	0 42	25 24	2 13	23 47	0 19	4 43	2 20	4 40	0 45	12 12	1 49	29 34	14 50	20 34	20 22	24 25		n.a.
W12	16 57	26 30	3 3	17 16	0 45	2 51	0 52	25 27	2 16	23 47	0 19	4 41	2 20	4 40	0 45	12 12	1 49	29 33	14 49	20 36	20 22	24 26		n.a.
T 13	17 14	25 29	1 56	17 49	0 51	2 51	1 2	25 29	2 18	23 48	0 19	4 39	2 20	4 40	0 45	12 13	1 49	29 33	14 49	20 36	20 23	24 27		n.a.
F 14	17 31	22 48	0 43	18 22	0 57	2 53	1 11	25 31	2 21	23 48	0 19	4 37	2 21	4 41	0 45	12 14	1 49	29 32	14 49	20 37	20 24	24 29		n.a.
S 15	17 48	18 50	0s30	18 54	1 3	2 56	1 20	25 34	2 23	23 48	0 19	4 36	2 21	4 41	0 45	12 15	1 49	29 32	14 48	20 37	20 25	24 30		n.a.
S 16	18 5	14 1	1 40	19 25	1 8	3 0	1 29	25 36	2 26	23 49	0 19	4 34	2 21	4 41	0 45	12 15	1 49	29 32	14 48	20 37	20 25	24 31		n.a.
M17	18 21	8 42	2 42	19 55	1 14	3 5	1 37	25 39	2 29	23 49	0 20	4 32	2 21	4 42	0 45	12 16	1 49	29 31	14 48	20 37	20 26	24 32		n.a.
T 18	18 37	3 10	3 35	20 24	1 19	3 10	1 45	25 42	2 31	23 50	0 20	4 30	2 21	4 42	0 45	12 17	1 49	29 31	14 47	20 37	20 27	24 33		n.a.
W19	18 53	2s22	4 16	20 52	1 24	3 17	1 52	25 44	2 34	23 50	0 20	4 28	2 22	4 42	0 45	12 18	1 49	29 30	14 47	20 38	20 27	24 34		n.a.
T 20	19 8	7 43	4 44	21 19	1 29	3 24	1 59	25 47	2 37	23 50	0 20	4 27	2 22	4 42	0 45	12 18	1 49	29 30	14 47	20 40	20 28	24 35		n.a.
F 21	19 23	12 43	5 0	21 45	1 34	3 33	2 6	25 50	2 39	23 51	0 20	4 25	2 22	4 43	0 45	12 19	1 49	29 30	14 46	20 42	20 29	24 36		n.a.
S 22	19 38	17 11	5 2	22 10	1 38	3 42	2 13	25 53	2 42	23 51	0 21	4 23	2 22	4 43	0 45	12 20	1 49	29 29	14 46	20 44	20 29	24 37		n.a.
S 23	19 52	20 58	4 51	22 34	1 42	3 51	2 19	25 56	2 45	23 52	0 21	4 22	2 23	4 43	0 45	12 20	1 49	29 29	14 46	20 47	20 30	24 38		n.a.
M24	20 6	23 52	4 27	22 57	1 46	4 2	2 25	26 0	2 47	23 52	0 21	4 20	2 23	4 43	0 45	12 21	1 49	29 28	14 45	20 49	20 31	24 40		n.a.
T 25	20 19	25 44	3 52	23 18	1 50	4 13	2 30	26 3	2 50	23 53	0 21	4 19	2 23	4 43	0 45	12 22	1 49	29 28	14 45	20 52	20 31	24 41		n.a.
W26	20 32	26 26	3 6	23 38	1 53	4 25	2 35	26 6	2 53	23 53	0 21	4 17	2 23	4 43	0 45	12 22	1 49	29 27	14 45	20 53	20 32	24 42		n.a.
T 27	20 45	25 55	2 13	23 57	1 56	4 37	2 40	26 10	2 56	23 54	0 22	4 16	2 23	4 43	0 44	12 23	1 49	29 27	14 44	20 55	20 33	24 43		n.a.
F 28	20 57	24 12	1 12	24 15	1 59	4 50	2 45	26 13	2 58	23 54	0 22	4 14	2 24	4 44	0 44	12 24	1 49	29 26	14 44	20 55	20 33	24 44		n.a.
S 29	21 9	21 22	0 8	24 31	2 2	5 4	2 49	26 17	3 1	23 55	0 22	4 13	2 24	4 44	0 44	12 24	1 49	29 26	14 44	20 56	20 34	24 45		n.a.
S 30	21s21	17s32	0n57	24s46	2s 4	5s18	2n54	26n20	3n 4	23n55	0n22	4n12	2n24	4s44	0s44	12s25	1n49	29s26	14s44	20s55	20s35	24s46		n.a.

Julian Day Number = 1659634.5, Delta T = 03h26m27s
Ecliptic obliquity = 23°43'01, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°24'12, Lahiri = - 6°17'11 Julian Calendar 1 Nov. 170 BCE == Greg. Calendar 29 Oct. 170 BCE

The year -169 astronomical counting style corresponds to year 170 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 170 BCE
geocentric

DECEMBER 170 BCE (-169) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 23 17	5♐49'21	20♒36	15♐22	20♎58	10°R27	6°R31	25♍ 6	19°R53	7♏24	18♒21	27♑24	29♑ 3	0♐29	n.a.	M 1
T 2	4 27 14	6°50'37	3♓25	17° 0	21°47	10♋14	6♋25	25°10	19♓53	7°26	18°22	27°R25	28°59	0°36	n.a.	T 2
W 3	4 31 11	7°51'52	16°39	18°37	22°36	10° 1	6°19	25°14	19°D53	7°28	18°22	27°25	28°56	0°43	n.a.	W 3
T 4	4 35 7	8°53'07	0♈19	20°15	23°27	9°48	6°13	25°17	19°53	7°30	18°23	27°23	28°53	0°49	n.a.	T 4
F 5	4 39 4	9°54'22	14°29	21°52	24°18	9°33	6° 6	25°21	19°53	7°32	18°24	27°18	28°50	0°56	n.a.	F 5
S 6	4 43 0	10°55'36	29° 5	23°29	25°10	9°18	6° 0	25°24	19°54	7°34	18°24	27°12	28°47	1° 3	n.a.	S 6
S 7	4 46 57	11°56'50	14♉ 4	25° 6	26° 3	9° 2	5°53	25°28	19°54	7°36	18°25	27° 5	28°44	1° 9	n.a.	S 7
M 8	4 50 53	12°58'03	29°19	26°42	26°56	8°45	5°46	25°31	19°54	7°38	18°26	26°58	28°40	1°16	n.a.	M 8
T 9	4 54 50	13°59'17	14♊37	28°18	27°51	8°28	5°39	25°34	19°54	7°40	18°27	26°52	28°37	1°23	n.a.	T 9
W10	4 58 46	15° 0'30	29°49	29°53	28°45	8°10	5°32	25°37	19°55	7°42	18°28	26°47	28°34	1°30	n.a.	W10
T 11	5 2 43	16° 1'42	14♋44	1♑28	29°41	7°51	5°25	25°40	19°55	7°44	18°28	26°45	28°31	1°36	n.a.	T 11
F 12	5 6 40	17° 2'55	29°15	3° 1	0♏37	7°32	5°18	25°43	19°56	7°46	18°29	26°D44	28°28	1°43	n.a.	F 12
S 13	5 10 36	18° 4'07	13♌19	4°32	1°33	7°12	5°11	25°46	19°56	7°48	18°30	26°45	28°25	1°50	n.a.	S 13
S 14	5 14 33	19° 5'19	26°55	6° 2	2°31	6°51	5° 3	25°48	19°57	7°50	18°31	26°47	28°21	1°56	n.a.	S 14
M15	5 18 29	20° 6'31	10♍ 3	7°29	3°28	6°30	4°56	25°51	19°57	7°51	18°32	26°48	28°18	2° 3	n.a.	M15
T 16	5 22 26	21° 7'42	22°49	8°54	4°27	6° 9	4°48	25°53	19°58	7°53	18°33	26°R49	28°15	2°10	n.a.	T 16
W17	5 26 22	22° 8'53	5♎15	10°15	5°25	5°47	4°40	25°56	19°59	7°55	18°34	26°48	28°12	2°16	n.a.	W17
T 18	5 30 19	23°10'04	17°26	11°33	6°25	5°24	4°33	25°58	19°59	7°57	18°35	26°45	28° 9	2°23	n.a.	T 18
F 19	5 34 16	24°11'14	29°27	12°46	7°24	5° 1	4°25	26° 0	20° 0	7°58	18°36	26°41	28° 5	2°30	n.a.	F 19
S 20	5 38 12	25°12'24	11♏21	13°54	8°24	4°38	4°17	26° 2	20° 1	8° 0	18°37	26°36	28° 2	2°37	n.a.	S 20
S 21	5 42 9	26°13'33	23°12	14°57	9°25	4°15	4° 9	26° 4	20° 2	8° 2	18°38	26°30	27°59	2°43	n.a.	S 21
M22	5 46 5	27°14'42	5♐ 2	15°52	10°26	3°51	4° 1	26° 6	20° 3	8° 3	18°39	26°24	27°56	2°50	n.a.	M22
T 23	5 50 2	28°15'50	16°54	16°40	11°27	3°27	3°53	26° 8	20° 4	8° 5	18°40	26°19	27°53	2°57	n.a.	T 23
W24	5 53 58	29°16'57	28°49	17°19	12°29	3° 4	3°45	26°10	20° 5	8° 7	18°41	26°15	27°50	3° 3	n.a.	W24
T 25	5 57 55	0♑18'03	10♑49	17°48	13°31	2°39	3°37	26°11	20° 6	8° 8	18°42	26°13	27°46	3°10	n.a.	T 25
F 26	6 1 51	1°19'08	22°56	18° 8	14°33	2°15	3°29	26°13	20° 7	8°10	18°43	26°D12	27°43	3°17	n.a.	F 26
S 27	6 5 48	2°20'13	5♒11	18°R17	15°36	1°51	3°21	26°14	20° 9	8°11	18°44	26°12	27°40	3°23	n.a.	S 27
S 28	6 9 45	3°21'16	17°38	18°15	16°39	1°27	3°13	26°15	20°10	8°13	18°46	26°13	27°37	3°30	n.a.	S 28
M29	6 13 41	4°22'18	0♓17	18° 1	17°42	1° 3	3° 5	26°16	20°11	8°14	18°47	26°15	27°34	3°37	n.a.	M29
T 30	6 17 38	5°23'18	13°12	17°36	18°46	0°39	2°57	26°17	20°13	8°16	18°48	26°16	27°31	3°44	n.a.	T 30
W31	6 21 34	6♑24'17	26♓26	17♑ 0	19♏50	0♋16	2♋49	26♍18	20♓14	8♏17	18♒49	26♑17	27♑27	3♐50	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	21s32	12s52	2n 2	24s59	2s 5	5s32	2n57	26n24	3n 6	23n55	0n22	4n10	2n24	4s44	0s44	12s26	1n49	29s25	14s43	20s55	20s35	24s47			n.a.
T 2	21 42	7 33	3 2	25 10	2 7	5 47	3 1	26 27	3 9	23 56	0 22	4 9	2 25	4 44	0 44	12 26	1 49	29 25	14 43	20 55	20 36	24 48			n.a.
W 3	21 52	1 45	3 54	25 20	2 8	6 3	3 4	26 31	3 12	23 56	0 23	4 8	2 25	4 44	0 44	12 27	1 49	29 24	14 43	20 55	20 37	24 49			n.a.
T 4	22 2	4n19	4 35	25 29	2 8	6 19	3 7	26 35	3 14	23 57	0 23	4 7	2 25	4 43	0 44	12 28	1 49	29 24	14 42	20 56	20 37	24 50			n.a.
F 5	22 12	10 23	5 1	25 36	2 8	6 35	3 10	26 38	3 17	23 57	0 23	4 5	2 26	4 43	0 44	12 28	1 49	29 23	14 42	20 56	20 38	24 51			n.a.
S 6	22 21	16 4	5 8	25 40	2 7	6 52	3 13	26 42	3 19	23 58	0 23	4 4	2 26	4 43	0 44	12 29	1 49	29 22	14 42	20 58	20 39	24 52			n.a.
S 7	22 29	20 56	4 55	25 44	2 6	7 9	3 15	26 46	3 22	23 58	0 23	4 3	2 26	4 43	0 44	12 29	1 49	29 22	14 41	20 59	20 39	24 53			n.a.
M 8	22 37	24 29	4 21	25 45	2 5	7 26	3 17	26 49	3 24	23 59	0 24	4 2	2 26	4 43	0 44	12 30	1 49	29 21	14 41	21 0	20 40	24 54			n.a.
T 9	22 45	26 16	3 28	25 45	2 2	7 44	3 19	26 53	3 27	23 59	0 24	4 1	2 27	4 43	0 44	12 31	1 49	29 21	14 41	21 2	20 41	24 55			n.a.
W10	22 52	26 4	2 21	25 42	1 59	8 2	3 21	26 57	3 29	24 0	0 24	4 0	2 27	4 43	0 44	12 31	1 49	29 20	14 41	21 2	20 41	24 56			n.a.
T 11	22 58	23 58	1 5	25 38	1 56	8 20	3 23	27 0	3 32	24 0	0 24	3 59	2 27	4 43	0 44	12 32	1 49	29 20	14 40	21 3	20 42	24 57			n.a.
F 12	23 5	20 19	0s14	25 32	1 51	8 38	3 24	27 4	3 34	24 1	0 24	3 58	2 27	4 42	0 44	12 32	1 49	29 19	14 40	21 3	20 42	24 57			n.a.
S 13	23 10	15 36	1 29	25 24	1 46	8 57	3 25	27 7	3 36	24 1	0 24	3 57	2 28	4 42	0 44	12 33	1 49	29 19	14 40	21 3	20 43	24 58			n.a.
S 14	23 16	10 14	2 37	25 15	1 40	9 16	3 26	27 10	3 38	24 2	0 25	3 57	2 28	4 42	0 44	12 33	1 49	29 18	14 39	21 3	20 44	24 59			n.a.
M15	23 21	4 35	3 34	25 3	1 33	9 35	3 27	27 13	3 40	24 2	0 25	3 56	2 28	4 42	0 44	12 34	1 49	29 18	14 39	21 2	20 44	25 0			n.a.
T 16	23 25	1s 4	4 19	24 50	1 25	9 54	3 27	27 16	3 42	24 3	0 25	3 55	2 28	4 41	0 44	12 35	1 49	29 17	14 39	21 2	20 45	25 1			n.a.
W17	23 29	6 32	4 50	24 35	1 17	10 13	3 28	27 19	3 44	24 3	0 25	3 54	2 29	4 41	0 44	12 35	1 49	29 16	14 39	21 2	20 46	25 2			n.a.
T 18	23 32	11 39	5 8	24 19	1 7	10 33	3 28	27 22	3 46	24 3	0 25	3 54	2 29	4 41	0 44	12 36	1 49	29 16	14 38	21 3	20 46	25 3			n.a.
F 19	23 35	16 15	5 11	24 1	0 56	10 52	3 28	27 25	3 48	24 4	0 25	3 53	2 29	4 40	0 44	12 36	1 49	29 15	14 38	21 4	20 47	25 4			n.a.
S 20	23 38	20 11	5 2	23 43	0 44	11 12	3 28	27 28	3 50	24 4	0 26	3 53	2 30	4 40	0 44	12 37	1 50	29 15	14 38	21 5	20 48	25 5			n.a.
S 21	23 40	23 17	4 39	23 23	0 31	11 31	3 27	27 30	3 51	24 5	0 26	3 52	2 30	4 39	0 43	12 37	1 50	29 14	14 38	21 6	20 48	25 6			n.a.
M22	23 41	25 23	4 4	23 3	0 18	11 51	3 27	27 32	3 53	24 5	0 26	3 51	2 30	4 39	0 43	12 38	1 50	29 14	14 37	21 7	20 49	25 6			n.a.
T 23	23 42	26 22	3 19	22 42	0 3	12 10	3 26	27 34	3 54	24 6	0 26	3 51	2 30	4 39	0 43	12 38	1 50	29 13	14 37	21 8	20 50	25 7			n.a.
W24	23 43	26 7	2 25	22 22	0n13	12 30	3 25	27 36	3 56	24 6	0 26	3 51	2 31	4 38	0 43	12 39	1 50	29 12	14 37	21 9	20 50	25 8			n.a.
T 25	23 43	24 39	1 24	22 1	0 30	12 50	3 25	27 38	3 57	24 6	0 26	3 50	2 31	4 38	0 43	12 39	1 50	29 12	14 37	21 9	20 51	25 9			n.a.
F 26	23 43	22 2	0 18	21 41	0 47	13 9	3 24	27 40	3 58	24 7	0 26	3 50	2 31	4 37	0 43	12 40	1 50	29 11	14 36	21 9	20 51	25 10			n.a.
S 27	23 42	18 24	0n49	21 22	1 5	13 28	3 22	27 41	3 59	24 7	0 27	3 50	2 32	4 37	0 43	12 40	1 50	29 11	14 36	21 9	20 52	25 11			n.a.
S 28	23 40	13 54	1 55	21 4	1 24	13 48	3 21	27 43	4 0	24 7	0 27	3 49	2 32	4 36	0 43	12 40	1 50	29 10	14 36	21 9	20 53	25 11			n.a.
M29	23 39	8 45	2 57	20 48	1 42	14 7	3 20	27 44	4 1	24 8	0 27	3 49	2 32	4 35	0 43	12 41	1 50	29 9	14 36	21 9	20 53	25 12			n.a.
T 30	23 36	3 7	3 51	20 33	2 1	14 26	3 18	27 45	4 2	24 8	0 27	3 49	2 32	4 35	0 43	12 41	1 50	29 9	14 36	21 8	20 54	25 13			n.a.
W31	23s34	2n45	4n34	20s20	2n18	14s45	3n16	27n45	4n 2	24n 8	0n27	3n49	2n33	4s34	0s43	12s42	1n50	29s 8	14s35	21s 8	20s55	25s14			n.a.

Julian Day Number = 1659664.5, Delta T = 03h26m26s
Ecliptic obliquity = 23°43'01, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°24'07, Lahiri = - 6°17'07 Julian Calendar 1 Dec. 170 BCE == Greg. Calendar 28 Nov. 170 BCE

The year -169 astronomical counting style corresponds to year 170 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 169 BCE
geocentric

JANUARY 169 BCE (-168) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 25 31	7♉25'15	10♈ 0	16°R14	20♏54	29°R52	2°R41	26♍19	20♓16	8♏18	18♒50	26°R18	27♉24	3♐57	n.a.	T 1
F 2	6 29 27	8°26'11	23°57	15♉19	21°58	29♊29	2♋33	26°20	20°17	8°20	18°52	26♉17	27°21	4° 4	n.a.	F 2
S 3	6 33 24	9°27'05	8♉15	14°17	23° 3	29° 6	2°25	26°21	20°19	8°21	18°53	26°16	27°18	4°10	n.a.	S 3
S 4	6 37 20	10°27'59	22°52	13° 9	24° 8	28°44	2°17	26°21	20°20	8°22	18°54	26°14	27°15	4°17	n.a.	S 4
M 5	6 41 17	11°28'50	7♊44	11°57	25°13	28°22	2°10	26°21	20°22	8°24	18°56	26°12	27°11	4°24	n.a.	M 5
T 6	6 45 14	12°29'41	22°43	10°44	26°19	28° 0	2° 2	26°22	20°24	8°25	18°57	26°10	27° 8	4°30	n.a.	T 6
W 7	6 49 10	13°30'30	7♋42	9°31	27°25	27°39	1°54	26°22	20°25	8°26	18°58	26° 9	27° 5	4°37	n.a.	W 7
T 8	6 53 7	14°31'17	22°31	8°21	28°30	27°19	1°46	26°R22	20°27	8°27	18°59	26°D 8	27° 2	4°44	n.a.	T 8
F 9	6 57 3	15°32'03	7♌ 3	7°16	29°37	26°59	1°39	26°22	20°29	8°28	19° 1	26° 8	26°59	4°51	n.a.	F 9
S 10	7 1 0	16°32'48	21°12	6°15	0♐43	26°39	1°31	26°22	20°31	8°30	19° 2	26° 9	26°56	4°57	n.a.	S 10
S 11	7 4 56	17°33'31	4♍56	5°22	1°49	26°20	1°24	26°22	20°33	8°31	19° 4	26°10	26°52	5° 4	n.a.	S 11
M12	7 8 53	18°34'13	18°14	4°35	2°56	26° 2	1°16	26°21	20°35	8°32	19° 5	26°11	26°49	5°11	n.a.	M12
T 13	7 12 50	19°34'54	1♎ 7	3°57	4° 3	25°44	1° 9	26°21	20°37	8°33	19° 6	26°11	26°46	5°17	n.a.	T 13
W14	7 16 46	20°35'33	13°39	3°26	5°10	25°27	1° 2	26°21	20°39	8°34	19° 8	26°12	26°43	5°24	n.a.	W14
T 15	7 20 43	21°36'12	25°54	3° 4	6°17	25°11	0°55	26°20	20°41	8°35	19° 9	26°R12	26°40	5°31	n.a.	T 15
F 16	7 24 39	22°36'49	7♏56	2°49	7°25	24°55	0°48	26°19	20°43	8°36	19°11	26°11	26°37	5°37	n.a.	F 16
S 17	7 28 36	23°37'24	19°49	2°D42	8°33	24°41	0°41	26°18	20°45	8°37	19°12	26°11	26°33	5°44	n.a.	S 17
S 18	7 32 32	24°37'59	1♐39	2°42	9°40	24°27	0°34	26°17	20°47	8°37	19°13	26°11	26°30	5°51	n.a.	S 18
M19	7 36 29	25°38'31	13°29	2°49	10°48	24°13	0°27	26°16	20°50	8°38	19°15	26°11	26°27	5°57	n.a.	M19
T 20	7 40 25	26°39'03	25°23	3° 3	11°56	24° 1	0°21	26°15	20°52	8°39	19°16	26°D11	26°24	6° 4	n.a.	T 20
W21	7 44 22	27°39'32	7♑24	3°22	13° 5	23°49	0°14	26°14	20°54	8°40	19°18	26°11	26°21	6°11	n.a.	W21
T 22	7 48 19	28°40'01	19°34	3°47	14°13	23°38	0° 8	26°13	20°57	8°41	19°19	26°11	26°17	6°18	n.a.	T 22
F 23	7 52 15	29°40'27	1♒54	4°17	15°21	23°28	0° 2	26°11	20°59	8°41	19°21	26°R11	26°14	6°24	n.a.	F 23
S 24	7 56 12	0♒40'51	14°27	4°52	16°30	23°18	29♊56	26°10	21° 1	8°42	19°22	26°11	26°11	6°31	n.a.	S 24
S 25	8 0 8	1°41'14	27°13	5°31	17°39	23° 9	29°50	26° 8	21° 4	8°43	19°24	26°10	26° 8	6°38	n.a.	S 25
M26	8 4 5	2°41'35	10♓12	6°14	18°47	23° 2	29°44	26° 6	21° 6	8°43	19°25	26°10	26° 5	6°44	n.a.	M26
T 27	8 8 1	3°41'53	23°25	7° 1	19°56	22°55	29°39	26° 4	21° 9	8°44	19°27	26° 9	26° 2	6°51	n.a.	T 27
W28	8 11 58	4°42'10	6♈51	7°52	21° 5	22°48	29°33	26° 3	21°11	8°44	19°28	26° 8	25°58	6°58	n.a.	W28
T 29	8 15 54	5°42'24	20°32	8°45	22°14	22°43	29°28	26° 0	21°14	8°45	19°30	26° 7	25°55	7° 4	n.a.	T 29
F 30	8 19 51	6°42'36	4♉26	9°42	23°24	22°38	29°23	25°58	21°17	8°45	19°32	26°D 7	25°52	7°11	n.a.	F 30
S 31	8 23 47	7♒42'46	18♉32	10♉42	24♐33	22♊35	29♊18	25♍56	21♓19	8♏46	19♒33	26♉ 7	25♉49	7♐18	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	23s30	8n39	5n 3	20s 9	2n35	15s 4	3n14	27n46	4n 3	24n 9	0n27	3n49	2n33	4s34	0s43	12s42	1n50	29s 8	14s35	21s 8	20s55	25s15			n.a.
F 2	23 27	14 16	5 16	20 0	2 51	15 22	3 12	27 46	4 3	24 9	0 27	3 49	2 33	4 33	0 43	12 42	1 50	29 7	14 35	21 8	20 56	25 15			n.a.
S 3	23 23	19 17	5 9	19 52	3 5	15 41	3 10	27 47	4 4	24 9	0 28	3 49	2 34	4 32	0 43	12 43	1 50	29 6	14 35	21 9	20 57	25 16			n.a.
S 4	23 18	23 15	4 43	19 47	3 17	15 59	3 8	27 47	4 4	24 9	0 28	3 49	2 34	4 32	0 43	12 43	1 50	29 6	14 35	21 9	20 57	25 17			n.a.
M 5	23 13	25 45	3 57	19 44	3 27	16 17	3 6	27 47	4 4	24 10	0 28	3 49	2 34	4 31	0 43	12 44	1 50	29 5	14 34	21 9	20 58	25 18			n.a.
T 6	23 7	26 25	2 55	19 43	3 35	16 35	3 4	27 46	4 4	24 10	0 28	3 49	2 34	4 30	0 43	12 44	1 50	29 5	14 34	21 10	20 58	25 18			n.a.
W 7	23 1	25 10	1 40	19 43	3 40	16 52	3 1	27 46	4 4	24 10	0 28	3 49	2 35	4 30	0 43	12 44	1 50	29 4	14 34	21 10	20 59	25 19			n.a.
T 8	22 55	22 9	0 20	19 45	3 43	17 9	2 59	27 45	4 4	24 10	0 28	3 50	2 35	4 29	0 43	12 45	1 50	29 3	14 34	21 10	21 0	25 20			n.a.
F 9	22 48	17 45	1s 0	19 48	3 43	17 26	2 56	27 45	4 4	24 11	0 28	3 50	2 35	4 28	0 43	12 45	1 50	29 3	14 34	21 10	21 0	25 21			n.a.
S 10	22 41	12 28	2 15	19 53	3 41	17 43	2 53	27 44	4 4	24 11	0 28	3 50	2 36	4 27	0 43	12 45	1 51	29 2	14 34	21 10	21 1	25 21			n.a.
S 11	22 33	6 44	3 19	19 59	3 38	17 59	2 50	27 43	4 3	24 11	0 29	3 50	2 36	4 26	0 43	12 46	1 51	29 2	14 33	21 10	21 2	25 22			n.a.
M12	22 25	0 52	4 10	20 6	3 32	18 15	2 48	27 42	4 3	24 11	0 29	3 51	2 36	4 26	0 43	12 46	1 51	29 1	14 33	21 10	21 2	25 23			n.a.
T 13	22 16	4s50	4 48	20 14	3 25	18 30	2 45	27 41	4 2	24 11	0 29	3 51	2 36	4 25	0 43	12 46	1 51	29 0	14 33	21 9	21 3	25 24			n.a.
W14	22 7	10 12	5 10	20 23	3 17	18 46	2 42	27 40	4 2	24 12	0 29	3 52	2 37	4 24	0 43	12 46	1 51	29 0	14 33	21 9	21 3	25 24			n.a.
T 15	21 58	15 2	5 17	20 33	3 8	19 0	2 38	27 38	4 1	24 12	0 29	3 52	2 37	4 23	0 43	12 47	1 51	28 59	14 33	21 9	21 4	25 25			n.a.
F 16	21 48	19 12	5 11	20 43	2 58	19 15	2 35	27 37	4 0	24 12	0 29	3 53	2 37	4 22	0 43	12 47	1 51	28 59	14 33	21 9	21 5	25 26			n.a.
S 17	21 37	22 33	4 51	20 54	2 47	19 29	2 32	27 36	3 59	24 12	0 29	3 53	2 38	4 21	0 42	12 47	1 51	28 58	14 33	21 9	21 5	25 26			n.a.
S 18	21 27	24 57	4 19	21 5	2 36	19 42	2 29	27 34	3 59	24 12	0 29	3 54	2 38	4 20	0 42	12 47	1 51	28 57	14 32	21 9	21 6	25 27			n.a.
M19	21 16	26 15	3 36	21 16	2 25	19 56	2 25	27 33	3 58	24 12	0 29	3 55	2 38	4 20	0 42	12 48	1 51	28 57	14 32	21 10	21 6	25 28			n.a.
T 20	21 4	26 21	2 43	21 28	2 13	20 8	2 22	27 31	3 57	24 12	0 29	3 55	2 38	4 19	0 42	12 48	1 51	28 56	14 32	21 10	21 7	25 28			n.a.
W21	20 52	25 13	1 42	21 39	2 1	20 21	2 18	27 30	3 56	24 13	0 30	3 56	2 39	4 18	0 42	12 48	1 51	28 56	14 32	21 10	21 8	25 29			n.a.
T 22	20 40	22 53	0 37	21 50	1 50	20 32	2 15	27 28	3 55	24 13	0 30	3 57	2 39	4 17	0 42	12 48	1 51	28 55	14 32	21 9	21 8	25 30			n.a.
F 23	20 27	19 27	0n32	22 1	1 38	20 44	2 11	27 26	3 53	24 13	0 30	3 58	2 39	4 16	0 42	12 48	1 51	28 54	14 32	21 9	21 9	25 30			n.a.
S 24	20 14	15 6	1 40	22 12	1 26	20 54	2 8	27 25	3 52	24 13	0 30	3 59	2 39	4 15	0 42	12 49	1 51	28 54	14 32	21 10	21 9	25 31			n.a.
S 25	20 1	10 1	2 44	22 22	1 14	21 5	2 4	27 23	3 51	24 13	0 30	3 59	2 40	4 14	0 42	12 49	1 51	28 53	14 32	21 10	21 10	25 31			n.a.
M26	19 47	4 26	3 41	22 31	1 3	21 14	2 0	27 21	3 50	24 13	0 30	4 0	2 40	4 13	0 42	12 49	1 51	28 53	14 32	21 10	21 11	25 32			n.a.
T 27	19 33	1n26	4 27	22 40	0 52	21 23	1 57	27 20	3 48	24 13	0 30	4 1	2 40	4 12	0 42	12 49	1 52	28 52	14 32	21 10	21 11	25 33			n.a.
W28	19 19	7 19	4 59	22 48	0 41	21 32	1 53	27 18	3 47	24 13	0 30	4 2	2 40	4 11	0 42	12 49	1 52	28 51	14 32	21 10	21 12	25 33			n.a.
T 29	19 4	12 58	5 15	22 55	0 30	21 40	1 49	27 16	3 46	24 13	0 30	4 3	2 41	4 9	0 42	12 49	1 52	28 51	14 32	21 10	21 12	25 34			n.a.
F 30	18 49	18 3	5 14	23 2	0 20	21 48	1 45	27 15	3 44	24 13	0 30	4 5	2 41	4 8	0 42	12 49	1 52	28 50	14 31	21 10	21 13	25 34			n.a.
S 31	18s33	22n14	4n53	23s 8	0n 9	21s55	1n42	27n13	3n43	24n13	0n30	4n 6	2n41	4s 7	0s42	12s49	1n52	28s50	14s31	21s10	21s14	25s35			n.a.

Julian Day Number = 1659695.5, Delta T = 03h26m25s
Ecliptic obliquity = 23°43'00, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°24'03, Lahiri = - 6°17'03 Julian Calendar 1 Jan. 169 BCE == Greg. Calendar 29 Dec. 170 BCE

The year -168 astronomical counting style corresponds to year 169 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 169 BCE
geocentric

FEBRUARY 169 BCE (-168) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 27 44	8♒42'54	2♊50	11♑44	25♐42	22°R31	29°R13	25°R54	21♓22	8♏46	19♒35	26♑ 7	25♑46	7♐24	n.a.	S 1
M 2	8 31 41	9°42'59	17°17	12°48	26°52	22♊29	29♊ 8	25♍51	21°25	8°47	19°36	26° 9	25°43	7°31	n.a.	M 2
T 3	8 35 37	10°43'03	1♋48	13°55	28° 2	22°28	29° 4	25°49	21°28	8°47	19°38	26°10	25°39	7°38	n.a.	T 3
W 4	8 39 34	11°43'04	16°20	15° 4	29°11	22°27	29° 0	25°46	21°30	8°47	19°39	26°10	25°36	7°45	n.a.	W 4
T 5	8 43 30	12°43'03	0♌46	16°15	0♑21	22°D27	28°55	25°44	21°33	8°47	19°41	26°R11	25°33	7°51	n.a.	T 5
F 6	8 47 27	13°43'00	15° 1	17°28	1°31	22°28	28°52	25°41	21°36	8°48	19°42	26°10	25°30	7°58	n.a.	F 6
S 7	8 51 23	14°42'54	29° 1	18°43	2°41	22°29	28°48	25°38	21°39	8°48	19°44	26° 8	25°27	8° 5	n.a.	S 7
S 8	8 55 20	15°42'47	12♍42	20° 0	3°51	22°31	28°44	25°35	21°42	8°48	19°46	26° 6	25°23	8°11	n.a.	S 8
M 9	8 59 17	16°42'38	26° 0	21°18	5° 1	22°34	28°41	25°32	21°45	8°48	19°47	26° 2	25°20	8°18	n.a.	M 9
T 10	9 3 13	17°42'27	8♎57	22°38	6°11	22°37	28°38	25°29	21°48	8°48	19°49	25°59	25°17	8°25	n.a.	T 10
W11	9 7 10	18°42'14	21°33	23°59	7°21	22°42	28°35	25°26	21°51	8°48	19°50	25°56	25°14	8°31	n.a.	W11
T 12	9 11 6	19°41'59	3♏52	25°22	8°32	22°47	28°32	25°23	21°54	8°48	19°52	25°54	25°11	8°38	n.a.	T 12
F 13	9 15 3	20°41'43	15°56	26°46	9°42	22°52	28°29	25°20	21°57	8°R48	19°53	25°D53	25° 8	8°45	n.a.	F 13
S 14	9 18 59	21°41'24	27°51	28°12	10°53	22°58	28°26	25°16	22° 0	8°48	19°55	25°53	25° 4	8°51	n.a.	S 14
S 15	9 22 56	22°41'04	9♐42	29°39	12° 3	23° 5	28°24	25°13	22° 3	8°48	19°57	25°54	25° 1	8°58	n.a.	S 15
M16	9 26 52	23°40'42	21°33	1♒ 8	13°14	23°13	28°22	25° 9	22° 6	8°48	19°58	25°56	24°58	9° 5	n.a.	M16
T 17	9 30 49	24°40'18	3♑29	2°38	14°24	23°21	28°20	25° 6	22° 9	8°48	20° 0	25°58	24°55	9°11	n.a.	T 17
W18	9 34 45	25°39'52	15°34	4° 9	15°35	23°29	28°18	25° 2	22°12	8°48	20° 1	25°59	24°52	9°18	n.a.	W18
T 19	9 38 42	26°39'25	27°52	5°42	16°46	23°39	28°17	24°59	22°15	8°48	20° 3	26°R 0	24°49	9°25	n.a.	T 19
F 20	9 42 39	27°38'55	10♒26	7°16	17°57	23°48	28°16	24°55	22°19	8°48	20° 4	25°59	24°45	9°32	n.a.	F 20
S 21	9 46 35	28°38'23	23°16	8°51	19° 7	23°59	28°14	24°51	22°22	8°47	20° 6	25°56	24°42	9°38	n.a.	S 21
S 22	9 50 32	29°37'49	6♓24	10°28	20°18	24°10	28°13	24°47	22°25	8°47	20° 8	25°52	24°39	9°45	n.a.	S 22
M23	9 54 28	0♓37'13	19°49	12° 6	21°29	24°21	28°13	24°43	22°28	8°47	20° 9	25°47	24°36	9°52	n.a.	M23
T 24	9 58 25	1°36'34	3♈27	13°45	22°40	24°33	28°12	24°39	22°32	8°46	20°11	25°41	24°33	9°58	n.a.	T 24
W25	10 2 21	2°35'53	17°18	15°26	23°51	24°46	28°12	24°35	22°35	8°46	20°12	25°35	24°29	10° 5	n.a.	W25
T 26	10 6 18	3°35'10	1♉17	17° 8	25° 2	24°59	28°D12	24°31	22°38	8°46	20°14	25°30	24°26	10°12	n.a.	T 26
F 27	10 10 14	4°34'25	15°21	18°51	26°14	25°13	28°12	24°27	22°41	8°45	20°15	25°27	24°23	10°18	n.a.	F 27
S 28	10 14 11	5°33'37	29°30	20°36	27°25	25°27	28°12	24°23	22°45	8°45	20°17	25°D26	24°20	10°25	n.a.	S 28
S 29	10 18 8	6♓32'46	13♊39	22♒22	28♑36	25♊42	28♊12	24♍19	22♓48	8♏44	20♒18	25♑26	24♑17	10♐32	n.a.	S 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s17	25n 7	4n14	23s12	0s 1	22s 1	1n38	27n11	3n42	24n13	0n30	4n 7	2n41	4s 6	0s42	12s49	1n52	28s49	14s31	21s10	21s14	25s36		n.a.
M 2	18 1	26 24	3 19	23 16	0 10	22 7	1 34	27 10	3 40	24 13	0 30	4 8	2 42	4 5	0 42	12 50	1 52	28 49	14 31	21 10	21 15	25 36		n.a.
T 3	17 45	25 53	2 11	23 18	0 20	22 12	1 30	27 8	3 39	24 13	0 31	4 9	2 42	4 4	0 42	12 50	1 52	28 48	14 31	21 10	21 15	25 37		n.a.
W 4	17 28	23 36	0 54	23 20	0 29	22 17	1 26	27 7	3 37	24 13	0 31	4 10	2 42	4 3	0 42	12 50	1 52	28 48	14 31	21 10	21 16	25 37		n.a.
T 5	17 11	19 48	0s25	23 20	0 37	22 21	1 22	27 5	3 36	24 13	0 31	4 12	2 42	4 2	0 42	12 50	1 52	28 47	14 31	21 10	21 17	25 38		n.a.
F 6	16 54	14 53	1 42	23 19	0 46	22 24	1 18	27 4	3 34	24 13	0 31	4 13	2 43	4 1	0 42	12 50	1 52	28 46	14 31	21 10	21 17	25 38		n.a.
S 7	16 36	9 16	2 52	23 17	0 54	22 27	1 14	27 2	3 33	24 13	0 31	4 14	2 43	3 59	0 42	12 50	1 52	28 46	14 31	21 10	21 18	25 39		n.a.
S 8	16 19	3 21	3 49	23 13	1 1	22 29	1 11	27 1	3 31	24 13	0 31	4 16	2 43	3 58	0 42	12 50	1 52	28 45	14 31	21 11	21 18	25 39		n.a.
M 9	16 1	2s34	4 33	23 8	1 8	22 31	1 7	27 0	3 30	24 13	0 31	4 17	2 43	3 57	0 42	12 50	1 52	28 45	14 31	21 11	21 19	25 40		n.a.
T 10	15 42	8 11	5 1	23 2	1 15	22 32	1 3	26 58	3 28	24 13	0 31	4 18	2 43	3 56	0 42	12 50	1 52	28 44	14 31	21 12	21 20	25 40		n.a.
W11	15 24	13 20	5 14	22 54	1 22	22 32	0 59	26 57	3 26	24 13	0 31	4 20	2 44	3 55	0 42	12 50	1 52	28 44	14 31	21 12	21 20	25 41		n.a.
T 12	15 5	17 50	5 12	22 45	1 28	22 32	0 55	26 56	3 25	24 14	0 31	4 21	2 44	3 53	0 42	12 50	1 52	28 43	14 31	21 13	21 21	25 41		n.a.
F 13	14 46	21 30	4 56	22 35	1 34	22 31	0 51	26 54	3 23	24 14	0 31	4 23	2 44	3 52	0 42	12 50	1 53	28 43	14 31	21 13	21 21	25 42		n.a.
S 14	14 26	24 15	4 27	22 23	1 39	22 29	0 47	26 53	3 22	24 14	0 31	4 24	2 44	3 51	0 42	12 49	1 53	28 42	14 31	21 13	21 22	25 42		n.a.
S 15	14 7	25 55	3 47	22 10	1 44	22 27	0 43	26 52	3 20	24 14	0 31	4 26	2 44	3 50	0 42	12 49	1 53	28 42	14 31	21 13	21 22	25 43		n.a.
M16	13 47	26 24	2 58	21 55	1 49	22 24	0 39	26 51	3 19	24 14	0 31	4 28	2 45	3 48	0 42	12 49	1 53	28 41	14 31	21 12	21 23	25 43		n.a.
T 17	13 27	25 41	2 0	21 38	1 53	22 20	0 36	26 50	3 17	24 14	0 31	4 29	2 45	3 47	0 42	12 49	1 53	28 41	14 31	21 12	21 24	25 44		n.a.
W18	13 7	23 44	0 57	21 20	1 57	22 16	0 32	26 49	3 16	24 14	0 31	4 31	2 45	3 46	0 42	12 49	1 53	28 40	14 31	21 12	21 24	25 44		n.a.
T 19	12 46	20 40	0n10	21 1	2 1	22 11	0 28	26 48	3 14	24 14	0 31	4 32	2 45	3 45	0 42	12 49	1 53	28 40	14 32	21 12	21 25	25 45		n.a.
F 20	12 26	16 34	1 18	20 40	2 4	22 6	0 24	26 47	3 13	24 14	0 31	4 34	2 45	3 43	0 42	12 49	1 53	28 39	14 32	21 12	21 25	25 45		n.a.
S 21	12 5	11 39	2 24	20 17	2 6	22 0	0 21	26 46	3 11	24 14	0 31	4 36	2 46	3 42	0 42	12 49	1 53	28 39	14 32	21 12	21 26	25 45		n.a.
S 22	11 44	6 8	3 23	19 53	2 9	21 53	0 17	26 45	3 10	24 14	0 31	4 37	2 46	3 41	0 42	12 49	1 53	28 38	14 32	21 13	21 27	25 46		n.a.
M23	11 23	0 13	4 12	19 27	2 10	21 46	0 13	26 44	3 8	24 14	0 31	4 39	2 46	3 39	0 42	12 48	1 53	28 38	14 32	21 14	21 27	25 46		n.a.
T 24	11 2	5n47	4 48	18 59	2 12	21 38	0 10	26 43	3 6	24 14	0 31	4 41	2 46	3 38	0 42	12 48	1 53	28 37	14 32	21 15	21 28	25 47		n.a.
W25	10 40	11 35	5 7	18 30	2 12	21 29	0 6	26 42	3 5	24 14	0 32	4 43	2 46	3 37	0 42	12 48	1 53	28 37	14 32	21 16	21 28	25 47		n.a.
T 26	10 18	16 52	5 9	17 59	2 13	21 20	0 3	26 41	3 3	24 14	0 32	4 44	2 46	3 35	0 42	12 48	1 53	28 37	14 32	21 17	21 29	25 47		n.a.
F 27	9 57	21 17	4 52	17 27	2 13	21 10	0s 1	26 40	3 2	24 14	0 32	4 46	2 46	3 34	0 41	12 48	1 53	28 36	14 32	21 18	21 29	25 48		n.a.
S 28	9 35	24 28	4 18	16 53	2 12	20 59	0 4	26 39	3 0	24 14	0 32	4 48	2 47	3 33	0 41	12 47	1 53	28 36	14 32	21 18	21 30	25 48		n.a.
S 29	9s13	26n 8	3n27	16s17	2s11	20s48	0s 8	26n38	2n59	24n14	0n32	4n50	2n47	3s31	0s41	12s47	1n53	28s35	14s32	21s18	21s31	25s49		n.a.

Julian Day Number = 1659726.5, Delta T = 03h26m24s
Ecliptic obliquity = 23°43'00, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'59, Lahiri = - 6°16'59 Julian Calendar 1 Feb. 169 BCE == Greg. Calendar 29 Jan. 169 BCE

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ASTRODIENST EPHEMERIS for the year 169 BCE
geocentric

MARCH 169 BCE (-168) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 22 4	7♓31'54	27♊49	24♒ 9	29♑47	25♊57	28♊13	24°R14	22♓51	8°R44	20♒20	25♑27	24♑14	10♐38	n.a.	M 1
T 2	10 26 1	8°30'58	11♋56	25°58	0♒58	26°12	28°14	24♍10	22°55	8♏43	20°21	25°28	24°10	10°45	n.a.	T 2
W 3	10 29 57	9°30'01	26° 0	27°48	2°10	26°28	28°15	24° 6	22°58	8°42	20°23	25°R29	24° 7	10°52	n.a.	W 3
T 4	10 33 54	10°29'01	9♌59	29°39	3°21	26°45	28°16	24° 1	23° 1	8°42	20°24	25°28	24° 4	10°58	n.a.	T 4
F 5	10 37 50	11°27'58	23°48	1♓32	4°33	27° 2	28°17	23°57	23° 5	8°41	20°26	25°25	24° 1	11° 5	n.a.	F 5
S 6	10 41 47	12°26'54	7♍27	3°27	5°44	27°19	28°19	23°53	23° 8	8°40	20°27	25°20	23°58	11°12	n.a.	S 6
S 7	10 45 43	13°25'47	20°51	5°22	6°55	27°37	28°20	23°48	23°12	8°40	20°29	25°12	23°55	11°18	n.a.	S 7
M 8	10 49 40	14°24'38	4♎ 0	7°19	8° 7	27°55	28°22	23°44	23°15	8°39	20°30	25° 4	23°51	11°25	n.a.	M 8
T 9	10 53 36	15°23'27	16°51	9°18	9°18	28°13	28°24	23°39	23°18	8°38	20°32	24°55	23°48	11°32	n.a.	T 9
W10	10 57 33	16°22'14	29°24	11°18	10°30	28°32	28°27	23°35	23°22	8°37	20°33	24°46	23°45	11°39	n.a.	W10
T 11	11 1 30	17°20'59	11♏42	13°19	11°42	28°51	28°29	23°30	23°25	8°36	20°35	24°39	23°42	11°45	n.a.	T 11
F 12	11 5 26	18°19'43	23°47	15°21	12°53	29°11	28°32	23°26	23°29	8°36	20°36	24°34	23°39	11°52	n.a.	F 12
S 13	11 9 23	19°18'24	5♐42	17°25	14° 5	29°31	28°34	23°21	23°32	8°35	20°37	24°31	23°35	11°59	n.a.	S 13
S 14	11 13 19	20°17'04	17°33	19°29	15°17	29°51	28°37	23°17	23°35	8°34	20°39	24°D30	23°32	12° 5	n.a.	S 14
M15	11 17 16	21°15'42	29°23	21°34	16°28	0♋12	28°41	23°12	23°39	8°33	20°40	24°30	23°29	12°12	n.a.	M15
T 16	11 21 12	22°14'19	11♑20	23°40	17°40	0°33	28°44	23° 8	23°42	8°32	20°42	24°31	23°26	12°19	n.a.	T 16
W17	11 25 9	23°12'53	23°27	25°47	18°52	0°54	28°47	23° 3	23°46	8°31	20°43	24°R31	23°23	12°25	n.a.	W17
T 18	11 29 5	24°11'26	5♒50	27°54	20° 4	1°16	28°51	22°58	23°49	8°30	20°44	24°31	23°20	12°32	n.a.	T 18
F 19	11 33 2	25° 9'57	18°31	0♈ 1	21°16	1°38	28°55	22°54	23°53	8°29	20°46	24°28	23°16	12°39	n.a.	F 19
S 20	11 36 59	26° 8'26	1♓35	2° 8	22°27	2° 0	28°59	22°49	23°56	8°28	20°47	24°23	23°13	12°45	n.a.	S 20
S 21	11 40 55	27° 6'53	15° 2	4°14	23°39	2°23	29° 3	22°45	23°59	8°27	20°48	24°16	23°10	12°52	n.a.	S 21
M22	11 44 52	28° 5'18	28°49	6°20	24°51	2°46	29° 7	22°40	24° 3	8°26	20°50	24° 6	23° 7	12°59	n.a.	M22
T 23	11 48 48	29° 3'41	12♈54	8°25	26° 3	3° 9	29°12	22°36	24° 6	8°24	20°51	23°56	23° 4	13° 5	n.a.	T 23
W24	11 52 45	0♈ 2'03	27°12	10°28	27°15	3°32	29°17	22°31	24°10	8°23	20°52	23°46	23° 0	13°12	n.a.	W24
T 25	11 56 41	1° 0'22	11♉37	12°29	28°27	3°56	29°21	22°27	24°13	8°22	20°54	23°37	22°57	13°19	n.a.	T 25
F 26	12 0 38	1°58'39	26° 3	14°29	29°39	4°20	29°26	22°22	24°17	8°21	20°55	23°30	22°54	13°25	n.a.	F 26
S 27	12 4 34	2°56'54	10♊25	16°26	0♓51	4°44	29°32	22°18	24°20	8°20	20°56	23°26	22°51	13°32	n.a.	S 27
S 28	12 8 31	3°55'07	24°39	18°20	2° 3	5° 9	29°37	22°13	24°23	8°18	20°57	23°24	22°48	13°39	n.a.	S 28
M29	12 12 28	4°53'18	8♋45	20°12	3°15	5°34	29°42	22° 9	24°27	8°17	20°58	23°D24	22°45	13°45	n.a.	M29
T 30	12 16 24	5°51'27	22°40	22° 1	4°27	5°59	29°48	22° 4	24°30	8°16	21° 0	23°R24	22°41	13°52	n.a.	T 30
W31	12 20 21	6♈49'33	6♌25	23♈46	5♓39	6♋24	29♊54	22♍ 0	24♓33	8♏15	21♒ 1	23♑23	22♑38	13♐59	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
M 1	8s51	26n 6	2n24	15s39	2s 9	20s37	0s11	26n37	2n58	24n14	0n32	4n52	2n47	3s30	0s41	12s47	1n53	28s35	14s33	21s18	21s31	25s49			n.a.
T 2	8 28	24 23	1 13	15 0	2 7	20 25	0 15	26 36	2 56	24 14	0 32	4 53	2 47	3 29	0 41	12 47	1 54	28 35	14 33	21 18	21 32	25 49			n.a.
W 3	8 6	21 9	0s 3	14 19	2 5	20 12	0 18	26 35	2 55	24 14	0 32	4 55	2 47	3 27	0 41	12 47	1 54	28 34	14 33	21 17	21 32	25 50			n.a.
T 4	7 43	16 42	1 18	13 37	2 2	19 58	0 21	26 34	2 53	24 14	0 32	4 57	2 47	3 26	0 41	12 46	1 54	28 34	14 33	21 18	21 33	25 50			n.a.
F 5	7 21	11 26	2 27	12 53	1 58	19 44	0 24	26 33	2 52	24 14	0 32	4 59	2 47	3 25	0 41	12 46	1 54	28 33	14 33	21 18	21 33	25 50			n.a.
S 6	6 58	5 41	3 27	12 7	1 54	19 30	0 27	26 32	2 50	24 14	0 32	5 1	2 47	3 23	0 41	12 46	1 54	28 33	14 33	21 19	21 34	25 51			n.a.
S 7	6 35	0s13	4 14	11 20	1 49	19 15	0 30	26 31	2 49	24 14	0 32	5 3	2 47	3 22	0 41	12 45	1 54	28 33	14 33	21 20	21 34	25 51			n.a.
M 8	6 12	5 59	4 46	10 31	1 44	18 59	0 34	26 30	2 48	24 14	0 32	5 4	2 47	3 21	0 41	12 45	1 54	28 32	14 34	21 22	21 35	25 51			n.a.
T 9	5 49	11 21	5 4	9 41	1 38	18 43	0 36	26 28	2 46	24 14	0 32	5 6	2 48	3 19	0 41	12 45	1 54	28 32	14 34	21 24	21 36	25 52			n.a.
W10	5 26	16 8	5 6	8 49	1 31	18 26	0 39	26 27	2 45	24 14	0 32	5 8	2 48	3 18	0 41	12 45	1 54	28 32	14 34	21 25	21 36	25 52			n.a.
T 11	5 3	20 10	4 53	7 56	1 25	18 9	0 42	26 26	2 43	24 14	0 32	5 10	2 48	3 16	0 41	12 44	1 54	28 31	14 34	21 26	21 37	25 52			n.a.
F 12	4 40	23 15	4 28	7 1	1 17	17 52	0 45	26 25	2 42	24 14	0 32	5 12	2 48	3 15	0 41	12 44	1 54	28 31	14 34	21 27	21 37	25 52			n.a.
S 13	4 17	25 18	3 51	6 5	1 9	17 33	0 48	26 24	2 41	24 14	0 32	5 14	2 48	3 14	0 41	12 44	1 54	28 31	14 34	21 28	21 38	25 53			n.a.
S 14	3 54	26 12	3 5	5 8	1 1	17 15	0 50	26 22	2 39	24 14	0 32	5 16	2 48	3 12	0 41	12 43	1 54	28 30	14 35	21 28	21 38	25 53			n.a.
M15	3 30	25 54	2 11	4 10	0 52	16 55	0 53	26 21	2 38	24 15	0 32	5 18	2 48	3 11	0 41	12 43	1 54	28 30	14 35	21 28	21 39	25 53			n.a.
T 16	3 7	24 24	1 10	3 11	0 43	16 36	0 56	26 20	2 37	24 15	0 32	5 19	2 48	3 10	0 41	12 43	1 54	28 30	14 35	21 28	21 39	25 53			n.a.
W17	2 43	21 45	0 6	2 12	0 33	16 16	0 58	26 18	2 35	24 15	0 32	5 21	2 48	3 8	0 41	12 42	1 54	28 29	14 35	21 28	21 40	25 54			n.a.
T 18	2 20	18 4	1n 0	1 11	0 23	15 55	1 0	26 17	2 34	24 15	0 32	5 23	2 48	3 7	0 41	12 42	1 54	28 29	14 35	21 28	21 41	25 54			n.a.
F 19	1 57	13 28	2 5	0 11	0 12	15 34	1 3	26 15	2 33	24 15	0 32	5 25	2 48	3 5	0 41	12 41	1 54	28 29	14 36	21 28	21 41	25 54			n.a.
S 20	1 33	8 10	3 4	0n50	0 2	15 13	1 5	26 14	2 31	24 15	0 32	5 27	2 48	3 4	0 41	12 41	1 54	28 29	14 36	21 29	21 42	25 54			n.a.
S 21	1 10	2 21	3 56	1 51	0n 9	14 51	1 7	26 12	2 30	24 15	0 32	5 29	2 48	3 3	0 41	12 41	1 54	28 28	14 36	21 31	21 42	25 55			n.a.
M22	0 46	3n43	4 34	2 51	0 20	14 29	1 9	26 10	2 29	24 15	0 32	5 30	2 48	3 1	0 41	12 40	1 54	28 28	14 36	21 32	21 43	25 55			n.a.
T 23	0 23	9 42	4 57	3 51	0 32	14 6	1 11	26 8	2 28	24 15	0 32	5 32	2 48	3 0	0 41	12 40	1 55	28 28	14 36	21 34	21 43	25 55			n.a.
W24	0n 1	15 17	5 2	4 50	0 43	13 43	1 13	26 7	2 26	24 15	0 32	5 34	2 48	2 59	0 41	12 39	1 55	28 28	14 37	21 36	21 44	25 55			n.a.
T 25	0 24	20 3	4 48	5 49	0 54	13 20	1 15	26 5	2 25	24 15	0 32	5 36	2 48	2 57	0 41	12 39	1 55	28 27	14 37	21 38	21 44	25 55			n.a.
F 26	0 48	23 38	4 16	6 46	1 4	12 56	1 17	26 3	2 24	24 15	0 32	5 38	2 48	2 56	0 41	12 39	1 55	28 27	14 37	21 39	21 45	25 56			n.a.
S 27	1 11	25 41	3 27	7 41	1 15	12 32	1 19	26 1	2 23	24 15	0 32	5 39	2 48	2 54	0 41	12 38	1 55	28 27	14 37	21 39	21 45	25 56			n.a.
S 28	1 35	26 3	2 26	8 35	1 25	12 7	1 21	25 58	2 22	24 15	0 32	5 41	2 48	2 53	0 41	12 38	1 55	28 27	14 38	21 40	21 46	25 56			n.a.
M29	1 58	24 42	1 17	9 27	1 35	11 42	1 22	25 56	2 20	24 15	0 32	5 43	2 48	2 52	0 41	12 37	1 55	28 27	14 38	21 40	21 46	25 56			n.a.
T 30	2 21	21 51	0 4	10 17	1 44	11 17	1 24	25 54	2 19	24 15	0 32	5 44	2 48	2 50	0 41	12 37	1 55	28 27	14 38	21 40	21 47	25 56			n.a.
W31	2n44	17n47	1s 9	11n 5	1n53	10s52	1s25	25n51	2n18	24n15	0n32	5n46	2n48	2s49	0s41	12s36	1n55	28s26	14s38	21s40	21s47	25s56			n.a.

Julian Day Number = 1659755.5, Delta T = 03h26m24s
Ecliptic obliquity = 23°43'00, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'55, Lahiri = - 6°16'55 Julian Calendar 1 March 169 BCE == Greg. Calendar 27 Feb. 169 BCE

The year -168 astronomical counting style corresponds to year 169 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 169 BCE
geocentric

APRIL 169 BCE (-168) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 24 17	7♈47'38	20♌ 0	25♈28	6♓51	6♋50	29♊59	21°R56	24♓37	8°R13	21♒ 2	23°R21	22♑35	14♐ 5	n.a.	T 1
F 2	12 28 14	8°45'40	3♍25	27° 6	8° 3	7°16	0♋ 6	21♍52	24°40	8♏12	21° 3	23♑16	22°32	14°12	n.a.	F 2
S 3	12 32 10	9°43'41	16°40	28°41	9°15	7°42	0°12	21°47	24°44	8°10	21° 4	23° 8	22°29	14°19	n.a.	S 3
S 4	12 36 7	10°41'39	29°43	0♉12	10°28	8° 8	0°18	21°43	24°47	8° 9	21° 5	22°58	22°26	14°25	n.a.	S 4
M 5	12 40 3	11°39'36	12♎33	1°38	11°40	8°34	0°25	21°39	24°50	8° 8	21° 6	22°45	22°22	14°32	n.a.	M 5
T 6	12 44 0	12°37'31	25°11	3° 1	12°52	9° 1	0°31	21°35	24°54	8° 6	21° 8	22°32	22°19	14°39	n.a.	T 6
W 7	12 47 56	13°35'25	7♏35	4°20	14° 4	9°28	0°38	21°31	24°57	8° 5	21° 9	22°20	22°16	14°45	n.a.	W 7
T 8	12 51 53	14°33'17	19°47	5°34	15°16	9°55	0°45	21°27	25° 0	8° 3	21°10	22° 9	22°13	14°52	n.a.	T 8
F 9	12 55 50	15°31'08	1♐48	6°44	16°29	10°22	0°52	21°23	25° 3	8° 2	21°11	22° 0	22°10	14°59	n.a.	F 9
S 10	12 59 46	16°28'57	13°42	7°50	17°41	10°50	0°59	21°19	25° 7	8° 1	21°12	21°54	22° 6	15° 5	n.a.	S 10
S 11	13 3 43	17°26'45	25°31	8°52	18°53	11°18	1° 7	21°15	25°10	7°59	21°13	21°50	22° 3	15°12	n.a.	S 11
M12	13 7 39	18°24'31	7♑21	9°49	20° 5	11°45	1°14	21°11	25°13	7°58	21°14	21°49	22° 0	15°19	n.a.	M12
T 13	13 11 36	19°22'17	19°16	10°41	21°18	12°14	1°22	21° 7	25°16	7°56	21°15	21°49	21°57	15°26	n.a.	T 13
W14	13 15 32	20°20'01	1♒22	11°29	22°30	12°42	1°30	21° 4	25°20	7°55	21°15	21°49	21°54	15°32	n.a.	W14
T 15	13 19 29	21°17'44	13°45	12°13	23°43	13°10	1°37	21° 0	25°23	7°53	21°16	21°48	21°51	15°39	n.a.	T 15
F 16	13 23 25	22°15'25	26°29	12°51	24°55	13°39	1°45	20°56	25°26	7°51	21°17	21°45	21°47	15°46	n.a.	F 16
S 17	13 27 22	23°13'06	9♓38	13°25	26° 7	14° 8	1°53	20°53	25°29	7°50	21°18	21°39	21°44	15°52	n.a.	S 17
S 18	13 31 19	24°10'45	23°14	13°55	27°20	14°37	2° 2	20°50	25°32	7°48	21°19	21°31	21°41	15°59	n.a.	S 18
M19	13 35 15	25° 8'23	7♈16	14°19	28°32	15° 6	2°10	20°46	25°35	7°47	21°20	21°21	21°38	16° 6	n.a.	M19
T 20	13 39 12	26° 6'00	21°41	14°39	29°45	15°35	2°18	20°43	25°38	7°45	21°21	21°10	21°35	16°12	n.a.	T 20
W21	13 43 8	27° 3'35	6♉22	14°53	0♈57	16° 5	2°27	20°40	25°41	7°44	21°21	20°58	21°31	16°19	n.a.	W21
T 22	13 47 5	28° 1'09	21°11	15° 3	2° 9	16°34	2°36	20°36	25°44	7°42	21°22	20°48	21°28	16°26	n.a.	T 22
F 23	13 51 1	28°58'42	6♊ 1	15° 8	3°22	17° 4	2°44	20°33	25°47	7°40	21°23	20°41	21°25	16°32	n.a.	F 23
S 24	13 54 58	29°56'14	20°43	15°R 9	4°34	17°34	2°53	20°30	25°50	7°39	21°24	20°36	21°22	16°39	n.a.	S 24
S 25	13 58 54	0♉53'44	5♋12	15° 5	5°47	18° 4	3° 2	20°27	25°53	7°37	21°24	20°33	21°19	16°46	n.a.	S 25
M26	14 2 51	1°51'13	19°25	14°56	6°59	18°35	3°11	20°25	25°56	7°36	21°25	20°D33	21°16	16°52	n.a.	M26
T 27	14 6 48	2°48'40	3♌20	14°43	8°12	19° 5	3°21	20°22	25°59	7°34	21°26	20°R33	21°12	16°59	n.a.	T 27
W28	14 10 44	3°46'05	16°58	14°26	9°25	19°36	3°30	20°19	26° 2	7°32	21°26	20°32	21° 9	17° 6	n.a.	W28
T 29	14 14 41	4°43'29	0♍20	14° 6	10°37	20° 7	3°39	20°16	26° 5	7°31	21°27	20°30	21° 6	17°12	n.a.	T 29
F 30	14 18 37	5♉40'52	13♍28	13♉42	11♈50	20♋38	3♋49	20♍14	26♓ 8	7♏29	21♒28	20♑25	21♑ 3	17♐19	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n 8	12n50	2s16	11n50	2n 2	10s26	1s27	25n49	2n17	24n15	0n32	5n48	2n48	2s48	0s41	12s36	1n55	28s26	14s39	21s40	21s48	25s56		n.a.
F 2	3 31	7 20	3 15	12 34	2 9	10 0	1 28	25 46	2 16	24 15	0 32	5 49	2 48	2 46	0 41	12 35	1 55	28 26	14 39	21 41	21 49	25 57		n.a.
S 3	3 54	1 36	4 3	13 15	2 16	9 34	1 29	25 44	2 14	24 15	0 32	5 51	2 47	2 45	0 41	12 35	1 55	28 26	14 39	21 42	21 49	25 57		n.a.
S 4	4 17	4s 6	4 37	13 53	2 22	9 7	1 31	25 41	2 13	24 15	0 32	5 53	2 47	2 44	0 41	12 35	1 55	28 26	14 40	21 44	21 50	25 57		n.a.
M 5	4 40	9 33	4 56	14 29	2 28	8 41	1 32	25 38	2 12	24 15	0 32	5 54	2 47	2 42	0 41	12 34	1 55	28 26	14 40	21 46	21 50	25 57		n.a.
T 6	5 3	14 30	5 0	15 2	2 32	8 14	1 33	25 35	2 11	24 15	0 32	5 56	2 47	2 41	0 41	12 34	1 55	28 26	14 40	21 48	21 51	25 57		n.a.
W 7	5 25	18 46	4 50	15 33	2 36	7 46	1 34	25 32	2 10	24 15	0 32	5 57	2 47	2 40	0 41	12 33	1 55	28 26	14 40	21 51	21 51	25 57		n.a.
T 8	5 48	22 10	4 27	16 2	2 39	7 19	1 34	25 29	2 9	24 15	0 32	5 59	2 47	2 38	0 41	12 33	1 55	28 25	14 41	21 52	21 52	25 57		n.a.
F 9	6 11	24 33	3 52	16 27	2 41	6 51	1 35	25 26	2 8	24 15	0 32	6 0	2 47	2 37	0 41	12 32	1 55	28 25	14 41	21 54	21 52	25 57		n.a.
S 10	6 33	25 48	3 7	16 50	2 42	6 24	1 36	25 22	2 7	24 15	0 32	6 2	2 47	2 36	0 41	12 32	1 55	28 25	14 41	21 55	21 53	25 57		n.a.
S 11	6 56	25 53	2 14	17 11	2 43	5 55	1 37	25 19	2 6	24 15	0 32	6 3	2 47	2 34	0 41	12 31	1 55	28 25	14 42	21 55	21 53	25 57		n.a.
M12	7 18	24 46	1 16	17 29	2 42	5 27	1 37	25 15	2 4	24 15	0 32	6 5	2 47	2 33	0 41	12 31	1 55	28 25	14 42	21 56	21 54	25 57		n.a.
T 13	7 40	22 32	0 13	17 44	2 40	4 59	1 38	25 12	2 3	24 15	0 32	6 6	2 46	2 32	0 41	12 30	1 55	28 25	14 42	21 56	21 54	25 57		n.a.
W14	8 2	19 16	0n50	17 57	2 37	4 30	1 38	25 8	2 2	24 15	0 32	6 8	2 46	2 31	0 41	12 30	1 55	28 25	14 42	21 56	21 55	25 58		n.a.
T 15	8 24	15 5	1 53	18 7	2 34	4 2	1 38	25 4	2 1	24 15	0 32	6 9	2 46	2 29	0 41	12 29	1 55	28 25	14 43	21 56	21 55	25 58		n.a.
F 16	8 46	10 8	2 52	18 14	2 29	3 33	1 39	25 0	2 0	24 15	0 32	6 10	2 46	2 28	0 41	12 29	1 55	28 25	14 43	21 56	21 56	25 58		n.a.
S 17	9 7	4 35	3 44	18 19	2 23	3 4	1 39	24 56	1 59	24 15	0 32	6 11	2 46	2 27	0 41	12 28	1 55	28 25	14 43	21 57	21 56	25 58		n.a.
S 18	9 29	1n20	4 25	18 22	2 16	2 35	1 39	24 52	1 58	24 15	0 33	6 13	2 46	2 26	0 41	12 28	1 55	28 25	14 44	21 58	21 57	25 58		n.a.
M19	9 50	7 22	4 52	18 22	2 8	2 6	1 39	24 47	1 57	24 14	0 33	6 14	2 46	2 24	0 41	12 27	1 55	28 25	14 44	22 0	21 57	25 58		n.a.
T 20	10 12	13 11	5 1	18 19	1 59	1 37	1 39	24 43	1 56	24 14	0 33	6 15	2 45	2 23	0 41	12 26	1 55	28 25	14 44	22 2	21 58	25 58		n.a.
W21	10 33	18 21	4 50	18 14	1 50	1 8	1 39	24 38	1 55	24 14	0 33	6 16	2 45	2 22	0 41	12 26	1 55	28 25	14 45	22 4	21 58	25 58		n.a.
T 22	10 53	22 26	4 20	18 7	1 39	0 38	1 39	24 34	1 54	24 14	0 33	6 17	2 45	2 21	0 42	12 25	1 55	28 25	14 45	22 5	21 59	25 58		n.a.
F 23	11 14	25 3	3 32	17 57	1 27	0 9	1 38	24 29	1 53	24 14	0 33	6 18	2 45	2 20	0 42	12 25	1 55	28 25	14 45	22 6	21 59	25 58		n.a.
S 24	11 35	25 54	2 31	17 45	1 14	0n20	1 38	24 24	1 52	24 14	0 33	6 19	2 45	2 18	0 42	12 24	1 55	28 25	14 46	22 7	22 0	25 58		n.a.
S 25	11 55	24 57	1 20	17 30	1 0	0 50	1 38	24 19	1 51	24 14	0 33	6 20	2 45	2 17	0 42	12 24	1 55	28 25	14 46	22 7	22 0	25 57		n.a.
M26	12 15	22 24	0 6	17 14	0 46	1 19	1 37	24 13	1 50	24 13	0 33	6 21	2 44	2 16	0 42	12 23	1 55	28 26	14 46	22 7	22 1	25 57		n.a.
T 27	12 35	18 33	1s 7	16 56	0 31	1 49	1 37	24 8	1 49	24 13	0 33	6 22	2 44	2 15	0 42	12 23	1 55	28 26	14 47	22 7	22 1	25 57		n.a.
W28	12 55	13 47	2 15	16 35	0 15	2 18	1 36	24 3	1 48	24 13	0 33	6 23	2 44	2 14	0 42	12 22	1 55	28 26	14 47	22 8	22 2	25 57		n.a.
T 29	13 15	8 27	3 14	16 14	0s 2	2 47	1 36	23 57	1 47	24 13	0 33	6 24	2 44	2 13	0 42	12 22	1 55	28 26	14 48	22 8	22 2	25 57		n.a.
F 30	13n34	2n51	4s 2	15n50	0s18	3n17	1s35	23n51	1n46	24n12	0n33	6n25	2n44	2s12	0s42	12s21	1n55	28s26	14s48	22s 9	22s 3	25s57		n.a.

Julian Day Number = 1659786.5, Delta T = 03h26m23s
Ecliptic obliquity = 23°43'00, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'51, Lahiri = - 6°16'50 Julian Calendar 1 Apr. 169 BCE == Greg. Calendar 29 March 169 BCE

The year -168 astronomical counting style corresponds to year 169 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 169 BCE
geocentric

MAY 169 BCE (-168) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 22 34	6♉38'14	26♍23	13°R15	13♈ 2	21♋ 9	3♋58	20°R11	26♓11	7°R28	21♒28	20°R18	21♑ 0	17♐26	n.a.	S 1
S 2	14 26 30	7°35'34	9♎ 7	12♉46	14°15	21°40	4° 8	20♍ 9	26°13	7♏26	21°29	20♑ 8	20°57	17°32	n.a.	S 2
M 3	14 30 27	8°32'53	21°39	12°15	15°28	22°11	4°18	20° 7	26°16	7°24	21°29	19°57	20°53	17°39	n.a.	M 3
T 4	14 34 23	9°30'12	4♏ 1	11°42	16°40	22°42	4°28	20° 5	26°19	7°23	21°30	19°44	20°50	17°46	n.a.	T 4
W 5	14 38 20	10°27'29	16°13	11° 9	17°53	23°14	4°38	20° 3	26°21	7°21	21°30	19°32	20°47	17°52	n.a.	W 5
T 6	14 42 17	11°24'46	28°17	10°35	19° 5	23°46	4°48	20° 1	26°24	7°19	21°31	19°22	20°44	17°59	n.a.	T 6
F 7	14 46 13	12°22'01	10♐12	10° 2	20°18	24°18	4°58	19°59	26°27	7°18	21°31	19°14	20°41	18° 6	n.a.	F 7
S 8	14 50 10	13°19'17	22° 2	9°30	21°31	24°49	5° 8	19°57	26°29	7°16	21°32	19° 8	20°37	18°12	n.a.	S 8
S 9	14 54 6	14°16'31	3♑50	8°59	22°44	25°22	5°19	19°55	26°32	7°15	21°32	19° 4	20°34	18°19	n.a.	S 9
M10	14 58 3	15°13'45	15°39	8°30	23°56	25°54	5°29	19°53	26°34	7°13	21°32	19°D 3	20°31	18°26	n.a.	M10
T 11	15 1 59	16°10'59	27°34	8° 3	25° 9	26°26	5°40	19°52	26°37	7°11	21°33	19° 3	20°28	18°32	n.a.	T 11
W12	15 5 56	17° 8'12	9♒40	7°39	26°22	26°58	5°50	19°50	26°39	7°10	21°33	19° 4	20°25	18°39	n.a.	W12
T 13	15 9 52	18° 5'24	22° 1	7°19	27°35	27°31	6° 1	19°49	26°42	7° 8	21°33	19°R 4	20°22	18°46	n.a.	T 13
F 14	15 13 49	19° 2'36	4♓44	7° 2	28°47	28° 4	6°12	19°48	26°44	7° 7	21°34	19° 3	20°18	18°52	n.a.	F 14
S 15	15 17 46	19°59'48	17°51	6°49	0♉ 0	28°36	6°23	19°46	26°47	7° 5	21°34	19° 0	20°15	18°59	n.a.	S 15
S 16	15 21 42	20°57'00	1♈27	6°40	1°13	29° 9	6°34	19°45	26°49	7° 4	21°34	18°54	20°12	19° 6	n.a.	S 16
M17	15 25 39	21°54'11	15°32	6°36	2°26	29°42	6°45	19°44	26°51	7° 2	21°34	18°47	20° 9	19°12	n.a.	M17
T 18	15 29 35	22°51'22	0♉ 3	6°D36	3°39	0♌16	6°56	19°43	26°54	7° 0	21°34	18°39	20° 6	19°19	n.a.	T 18
W19	15 33 32	23°48'33	14°55	6°40	4°52	0°49	7° 7	19°43	26°56	6°59	21°35	18°31	20° 3	19°26	n.a.	W19
T 20	15 37 28	24°45'43	29°59	6°49	6° 5	1°22	7°18	19°42	26°58	6°57	21°35	18°23	19°59	19°32	n.a.	T 20
F 21	15 41 25	25°42'53	15♊ 7	7° 3	7°18	1°56	7°29	19°41	27° 0	6°56	21°35	18°18	19°56	19°39	n.a.	F 21
S 22	15 45 22	26°40'03	0♋ 8	7°22	8°31	2°29	7°41	19°41	27° 2	6°54	21°35	18°14	19°53	19°46	n.a.	S 22
S 23	15 49 18	27°37'12	14°55	7°45	9°44	3° 3	7°52	19°40	27° 4	6°53	21°35	18°D13	19°50	19°52	n.a.	S 23
M24	15 53 15	28°34'21	29°21	8°12	10°57	3°37	8° 3	19°40	27° 6	6°51	21°35	18°13	19°47	19°59	n.a.	M24
T 25	15 57 11	29°31'29	13♌25	8°45	12°10	4°11	8°15	19°40	27° 8	6°50	21°35	18°14	19°43	20° 6	n.a.	T 25
W26	16 1 8	0♊28'36	27° 7	9°21	13°23	4°45	8°27	19°40	27°10	6°48	21°R35	18°R15	19°40	20°12	n.a.	W26
T 27	16 5 4	1°25'43	10♍26	10° 3	14°36	5°19	8°38	19°D40	27°12	6°47	21°35	18°15	19°37	20°19	n.a.	T 27
F 28	16 9 1	2°22'49	23°27	10°48	15°49	5°53	8°50	19°40	27°14	6°46	21°35	18°13	19°34	20°26	n.a.	F 28
S 29	16 12 57	3°19'55	6♎11	11°38	17° 2	6°27	9° 2	19°40	27°16	6°44	21°35	18° 9	19°31	20°32	n.a.	S 29
S 30	16 16 54	4°17'01	18°41	12°32	18°15	7° 2	9°14	19°40	27°18	6°43	21°35	18° 3	19°28	20°39	n.a.	S 30
M31	16 20 51	5♊14'06	1♏ 0	13♉31	19♉28	7♌36	9♋26	19♍41	27♓19	6♏41	21♒35	17♑56	19♑24	20♐46	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13n53	2s46	4s36	15n26	0s36	3n46	1s34	23n46	1n45	24n12	0n33	6n26	2n44	2s10	0s42	12s21	1n55	28s26	14s48	22s10	22s 3	25s57		n.a.
S 2	14 12	8 11	4 56	15 1	0 53	4 15	1 33	23 40	1 44	24 12	0 33	6 27	2 43	2 9	0 42	12 20	1 55	28 26	14 49	22 11	22 4	25 57		n.a.
M 3	14 31	13 11	5 1	14 35	1 10	4 44	1 32	23 34	1 43	24 12	0 33	6 27	2 43	2 8	0 42	12 20	1 55	28 26	14 49	22 13	22 4	25 57		n.a.
T 4	14 49	17 35	4 52	14 9	1 27	5 13	1 31	23 27	1 42	24 11	0 33	6 28	2 43	2 7	0 42	12 19	1 55	28 27	14 49	22 15	22 5	25 57		n.a.
W 5	15 8	21 11	4 30	13 43	1 44	5 42	1 30	23 21	1 41	24 11	0 33	6 29	2 43	2 6	0 42	12 19	1 55	28 27	14 50	22 16	22 5	25 57		n.a.
T 6	15 26	23 50	3 56	13 17	2 0	6 11	1 29	23 15	1 40	24 11	0 33	6 29	2 43	2 5	0 42	12 18	1 55	28 27	14 50	22 18	22 6	25 57		n.a.
F 7	15 44	25 23	3 11	12 51	2 15	6 40	1 28	23 8	1 39	24 10	0 33	6 30	2 42	2 4	0 42	12 18	1 55	28 27	14 50	22 19	22 6	25 56		n.a.
S 8	16 1	25 47	2 19	12 27	2 30	7 9	1 27	23 1	1 38	24 10	0 33	6 30	2 42	2 3	0 42	12 17	1 55	28 27	14 51	22 20	22 7	25 56		n.a.
S 9	16 18	25 0	1 20	12 4	2 44	7 37	1 25	22 54	1 37	24 9	0 33	6 31	2 42	2 2	0 42	12 17	1 55	28 28	14 51	22 21	22 7	25 56		n.a.
M10	16 35	23 5	0 18	11 42	2 57	8 6	1 24	22 48	1 37	24 9	0 33	6 31	2 42	2 1	0 42	12 16	1 55	28 28	14 51	22 21	22 8	25 56		n.a.
T 11	16 52	20 9	0n45	11 23	3 9	8 34	1 23	22 40	1 36	24 9	0 33	6 32	2 41	2 0	0 42	12 15	1 55	28 28	14 52	22 21	22 8	25 56		n.a.
W12	17 9	16 18	1 48	11 5	3 19	9 2	1 21	22 33	1 35	24 8	0 33	6 32	2 41	1 59	0 42	12 15	1 55	28 28	14 52	22 21	22 9	25 56		n.a.
T 13	17 25	11 42	2 47	10 49	3 29	9 30	1 20	22 26	1 34	24 8	0 33	6 32	2 41	1 58	0 42	12 14	1 55	28 28	14 53	22 21	22 9	25 56		n.a.
F 14	17 41	6 29	3 39	10 36	3 37	9 57	1 18	22 18	1 33	24 7	0 33	6 33	2 41	1 57	0 42	12 14	1 55	28 29	14 53	22 21	22 10	25 55		n.a.
S 15	17 57	0 50	4 22	10 25	3 44	10 25	1 16	22 11	1 32	24 7	0 33	6 33	2 41	1 56	0 42	12 13	1 55	28 29	14 53	22 21	22 10	25 55		n.a.
S 16	18 12	5n 2	4 52	10 17	3 50	10 52	1 15	22 3	1 31	24 6	0 33	6 33	2 40	1 55	0 42	12 13	1 55	28 29	14 54	22 22	22 11	25 55		n.a.
M17	18 27	10 52	5 5	10 11	3 54	11 19	1 13	21 55	1 30	24 6	0 33	6 33	2 40	1 54	0 42	12 12	1 55	28 29	14 54	22 23	22 11	25 55		n.a.
T 18	18 42	16 17	5 0	10 8	3 57	11 46	1 11	21 47	1 29	24 5	0 33	6 34	2 40	1 53	0 42	12 12	1 55	28 30	14 54	22 24	22 12	25 55		n.a.
W19	18 57	20 51	4 34	10 8	3 59	12 12	1 10	21 39	1 28	24 5	0 33	6 34	2 40	1 53	0 42	12 12	1 55	28 30	14 55	22 25	22 12	25 54		n.a.
T 20	19 11	24 7	3 49	10 10	4 0	12 38	1 8	21 30	1 27	24 4	0 33	6 34	2 39	1 52	0 42	12 11	1 55	28 30	14 55	22 26	22 13	25 54		n.a.
F 21	19 25	25 40	2 48	10 15	4 0	13 4	1 6	21 22	1 27	24 3	0 33	6 34	2 39	1 51	0 42	12 11	1 55	28 31	14 56	22 27	22 13	25 54		n.a.
S 22	19 38	25 19	1 36	10 22	3 59	13 30	1 4	21 13	1 26	24 3	0 33	6 34	2 39	1 50	0 42	12 10	1 55	28 31	14 56	22 27	22 13	25 54		n.a.
S 23	19 51	23 10	0 18	10 32	3 56	13 55	1 2	21 5	1 25	24 2	0 33	6 34	2 39	1 49	0 42	12 10	1 55	28 31	14 56	22 28	22 14	25 53		n.a.
M24	20 4	19 33	1s 0	10 44	3 53	14 20	1 0	20 56	1 24	24 2	0 33	6 34	2 38	1 48	0 42	12 9	1 55	28 32	14 57	22 28	22 14	25 53		n.a.
T 25	20 17	14 53	2 12	10 58	3 49	14 45	0 58	20 47	1 23	24 1	0 34	6 33	2 38	1 48	0 42	12 9	1 55	28 32	14 57	22 27	22 15	25 53		n.a.
W26	20 29	9 35	3 14	11 15	3 44	15 9	0 56	20 38	1 22	24 0	0 34	6 33	2 38	1 47	0 42	12 8	1 55	28 32	14 57	22 27	22 15	25 53		n.a.
T 27	20 41	3 58	4 4	11 33	3 38	15 33	0 54	20 28	1 21	23 59	0 34	6 33	2 38	1 46	0 42	12 8	1 55	28 33	14 58	22 27	22 16	25 52		n.a.
F 28	20 53	1s39	4 41	11 54	3 31	15 57	0 52	20 19	1 21	23 59	0 34	6 33	2 37	1 45	0 42	12 7	1 55	28 33	14 58	22 28	22 16	25 52		n.a.
S 29	21 4	7 6	5 2	12 16	3 23	16 20	0 49	20 10	1 20	23 58	0 34	6 32	2 37	1 45	0 42	12 7	1 55	28 33	14 59	22 28	22 17	25 52		n.a.
S 30	21 15	12 9	5 9	12 41	3 15	16 42	0 47	20 0	1 19	23 57	0 34	6 32	2 37	1 44	0 42	12 7	1 55	28 34	14 59	22 29	22 17	25 52		n.a.
M31	21n25	16s38	5s 1	13n 7	3s 7	17n 5	0s45	19n50	1n18	23n56	0n34	6n32	2n37	1s43	0s42	12s 6	1n55	28s34	14s59	22s30	22s18	25s51		n.a.

Julian Day Number = 1659816.5, Delta T = 03h26m22s
Ecliptic obliquity = 23°43'00, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'47, Lahiri = - 6°16'46 Julian Calendar 1 May 169 BCE == Greg. Calendar 28 Apr. 169 BCE

The year -168 astronomical counting style corresponds to year 169 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 169 BCE
geocentric

JUNE 169 BCE (-168) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 24 47	6♊11'12	13♏ 9	14♉33	20♉41	8♌11	9♋37	19♍41	27♓21	6°R40	21°R35	17°R48	19♑21	20♐52	n.a.	T 1
W 2	16 28 44	7° 8'17	25°10	15°40	21°55	8°45	9°49	19°42	27°23	6♏39	21♒35	17♑41	19°18	20°59	n.a.	W 2
T 3	16 32 40	8° 5'22	7♐ 5	16°51	23° 8	9°20	10° 2	19°42	27°24	6°37	21°34	17°35	19°15	21° 6	n.a.	T 3
F 4	16 36 37	9° 2'28	18°56	18° 5	24°21	9°55	10°14	19°43	27°26	6°36	21°34	17°30	19°12	21°12	n.a.	F 4
S 5	16 40 33	9°59'33	0♑44	19°24	25°34	10°30	10°26	19°44	27°27	6°35	21°34	17°27	19° 9	21°19	n.a.	S 5
S 6	16 44 30	10°56'39	12°32	20°47	26°47	11° 5	10°38	19°45	27°29	6°33	21°34	17°D25	19° 5	21°26	n.a.	S 6
M 7	16 48 26	11°53'45	24°23	22°13	28° 1	11°40	10°50	19°46	27°30	6°32	21°33	17°25	19° 2	21°32	n.a.	M 7
T 8	16 52 23	12°50'51	6♒21	23°43	29°14	12°15	11° 3	19°47	27°32	6°31	21°33	17°26	18°59	21°39	n.a.	T 8
W 9	16 56 20	13°47'58	18°29	25°17	0♊27	12°51	11°15	19°48	27°33	6°30	21°33	17°28	18°56	21°46	n.a.	W 9
T 10	17 0 16	14°45'06	0♓51	26°54	1°41	13°26	11°27	19°50	27°34	6°29	21°32	17°30	18°53	21°52	n.a.	T 10
F 11	17 4 13	15°42'14	13°32	28°35	2°54	14° 2	11°40	19°51	27°36	6°27	21°32	17°R30	18°49	21°59	n.a.	F 11
S 12	17 8 9	16°39'22	26°37	0♊20	4° 7	14°37	11°52	19°53	27°37	6°26	21°32	17°30	18°46	22° 6	n.a.	S 12
S 13	17 12 6	17°36'31	10♈ 7	2° 7	5°21	15°13	12° 5	19°54	27°38	6°25	21°31	17°28	18°43	22°12	n.a.	S 13
M14	17 16 2	18°33'41	24° 5	3°58	6°34	15°49	12°17	19°56	27°39	6°24	21°31	17°25	18°40	22°19	n.a.	M14
T 15	17 19 59	19°30'52	8♉31	5°51	7°48	16°24	12°30	19°58	27°40	6°23	21°30	17°22	18°37	22°26	n.a.	T 15
W16	17 23 55	20°28'03	23°19	7°47	9° 1	17° 0	12°42	20° 0	27°41	6°22	21°30	17°18	18°34	22°32	n.a.	W16
T 17	17 27 52	21°25'16	8♊24	9°46	10°15	17°36	12°55	20° 2	27°42	6°21	21°29	17°15	18°30	22°39	n.a.	T 17
F 18	17 31 49	22°22'28	23°36	11°47	11°28	18°12	13° 8	20° 4	27°43	6°20	21°29	17°12	18°27	22°46	n.a.	F 18
S 19	17 35 45	23°19'42	8♋47	13°49	12°42	18°49	13°20	20° 6	27°44	6°19	21°28	17°11	18°24	22°52	n.a.	S 19
S 20	17 39 42	24°16'56	23°45	15°53	13°56	19°25	13°33	20° 8	27°45	6°18	21°28	17°D11	18°21	22°59	n.a.	S 20
M21	17 43 38	25°14'10	8♌25	17°59	15° 9	20° 1	13°46	20°11	27°46	6°17	21°27	17°12	18°18	23° 6	n.a.	M21
T 22	17 47 35	26°11'25	22°41	20° 5	16°23	20°38	13°59	20°13	27°47	6°16	21°27	17°13	18°15	23°12	n.a.	T 22
W23	17 51 31	27° 8'40	6♍31	22°12	17°36	21°14	14°12	20°16	27°47	6°15	21°26	17°15	18°11	23°19	n.a.	W23
T 24	17 55 28	28° 5'55	19°56	24°19	18°50	21°51	14°25	20°19	27°48	6°14	21°25	17°15	18° 8	23°25	n.a.	T 24
F 25	17 59 25	29° 3'11	2♎57	26°26	20° 4	22°28	14°37	20°21	27°49	6°13	21°25	17°R16	18° 5	23°32	n.a.	F 25
S 26	18 3 21	0♋ 0'28	15°38	28°33	21°18	23° 4	14°50	20°24	27°49	6°13	21°24	17°15	18° 2	23°39	n.a.	S 26
S 27	18 7 18	0°57'45	28° 2	0♋40	22°31	23°41	15° 3	20°27	27°50	6°12	21°23	17°13	17°59	23°45	n.a.	S 27
M28	18 11 14	1°55'03	10♏13	2°45	23°45	24°18	15°16	20°30	27°50	6°11	21°23	17°12	17°55	23°52	n.a.	M28
T 29	18 15 11	2°52'21	22°13	4°50	24°59	24°55	15°29	20°33	27°50	6°10	21°22	17° 9	17°52	23°59	n.a.	T 29
W30	18 19 7	3♋49'41	4♐ 7	6♋54	26♊13	25♌32	15♋42	20♍36	27♓51	6♏10	21♒21	17♑ 7	17♑49	24♐ 5	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n35	20s24	4s39	13n34	2s57	17n27	0s43	19n40	1n17	23n55	0n34	6n31	2n36	1s43	0s42	12s 6	1n55	28s35	15s 0	22s31	22s18	25s51		n.a.
W 2	21 45	23 15	4 6	14 3	2 47	17 48	0 40	19 30	1 16	23 55	0 34	6 31	2 36	1 42	0 42	12 5	1 55	28 35	15 0	22 32	22 19	25 51		n.a.
T 3	21 55	25 3	3 22	14 33	2 37	18 9	0 38	19 20	1 15	23 54	0 34	6 30	2 36	1 41	0 42	12 5	1 55	28 35	15 0	22 33	22 19	25 50		n.a.
F 4	22 4	25 43	2 29	15 5	2 26	18 30	0 36	19 10	1 15	23 53	0 34	6 30	2 36	1 41	0 43	12 4	1 55	28 36	15 1	22 33	22 19	25 50		n.a.
S 5	22 12	25 13	1 30	15 37	2 15	18 50	0 33	18 59	1 14	23 52	0 34	6 29	2 35	1 40	0 43	12 4	1 54	28 36	15 1	22 34	22 20	25 50		n.a.
S 6	22 21	23 34	0 27	16 10	2 3	19 10	0 31	18 49	1 13	23 51	0 34	6 29	2 35	1 40	0 43	12 4	1 54	28 37	15 1	22 34	22 20	25 49		n.a.
M 7	22 29	20 52	0n38	16 44	1 51	19 29	0 29	18 38	1 12	23 50	0 34	6 28	2 35	1 39	0 43	12 3	1 54	28 37	15 2	22 34	22 21	25 49		n.a.
T 8	22 36	17 16	1 42	17 19	1 39	19 47	0 26	18 27	1 11	23 49	0 34	6 27	2 35	1 39	0 43	12 3	1 54	28 37	15 2	22 34	22 21	25 49		n.a.
W 9	22 43	12 54	2 42	17 54	1 27	20 6	0 24	18 17	1 10	23 48	0 34	6 27	2 34	1 38	0 43	12 3	1 54	28 38	15 3	22 34	22 22	25 48		n.a.
T 10	22 50	7 56	3 36	18 29	1 15	20 23	0 22	18 6	1 10	23 47	0 34	6 26	2 34	1 38	0 43	12 2	1 54	28 38	15 3	22 33	22 22	25 48		n.a.
F 11	22 56	2 33	4 20	19 4	1 2	20 40	0 19	17 54	1 9	23 46	0 34	6 25	2 34	1 37	0 43	12 2	1 54	28 39	15 3	22 33	22 23	25 48		n.a.
S 12	23 2	3n 7	4 53	19 39	0 50	20 57	0 17	17 43	1 8	23 45	0 34	6 24	2 34	1 37	0 43	12 2	1 54	28 39	15 4	22 33	22 23	25 47		n.a.
S 13	23 8	8 48	5 11	20 13	0 37	21 12	0 14	17 32	1 7	23 44	0 34	6 23	2 33	1 36	0 43	12 1	1 54	28 40	15 4	22 34	22 23	25 47		n.a.
M14	23 13	14 16	5 11	20 46	0 25	21 28	0 12	17 20	1 6	23 43	0 34	6 22	2 33	1 36	0 43	12 1	1 54	28 40	15 4	22 34	22 24	25 47		n.a.
T 15	23 18	19 7	4 53	21 19	0 13	21 43	0 9	17 9	1 6	23 42	0 35	6 21	2 33	1 35	0 43	12 1	1 54	28 41	15 5	22 34	22 24	25 46		n.a.
W16	23 22	22 55	4 14	21 50	0 1	21 57	0 7	16 57	1 5	23 40	0 35	6 21	2 33	1 35	0 43	12 0	1 54	28 41	15 5	22 35	22 25	25 46		n.a.
T 17	23 26	25 12	3 17	22 20	0n10	22 10	0 4	16 45	1 4	23 39	0 35	6 19	2 33	1 35	0 43	12 0	1 54	28 42	15 5	22 35	22 25	25 45		n.a.
F 18	23 30	25 40	2 6	22 49	0 21	22 23	0 2	16 33	1 3	23 38	0 35	6 18	2 32	1 34	0 43	12 0	1 54	28 42	15 6	22 36	22 26	25 45		n.a.
S 19	23 33	24 11	0 46	23 15	0 32	22 35	0n 0	16 21	1 2	23 37	0 35	6 17	2 32	1 34	0 43	11 59	1 54	28 43	15 6	22 36	22 26	25 44		n.a.
S 20	23 35	21 0	0s36	23 39	0 42	22 47	0 3	16 8	1 1	23 36	0 35	6 16	2 32	1 34	0 43	11 59	1 54	28 43	15 6	22 36	22 27	25 44		n.a.
M21	23 38	16 32	1 54	24 1	0 51	22 58	0 5	15 56	1 1	23 34	0 35	6 15	2 32	1 33	0 43	11 59	1 54	28 44	15 7	22 36	22 27	25 44		n.a.
T 22	23 40	11 13	3 4	24 20	1 0	23 8	0 8	15 44	1 0	23 33	0 35	6 14	2 31	1 33	0 43	11 59	1 54	28 44	15 7	22 36	22 27	25 43		n.a.
W23	23 41	5 31	4 0	24 37	1 8	23 18	0 10	15 31	0 59	23 32	0 35	6 13	2 31	1 33	0 43	11 58	1 54	28 45	15 7	22 35	22 28	25 43		n.a.
T 24	23 42	0s16	4 41	24 51	1 15	23 27	0 12	15 18	0 58	23 30	0 35	6 11	2 31	1 33	0 43	11 58	1 54	28 45	15 8	22 35	22 28	25 42		n.a.
F 25	23 43	5 52	5 6	25 2	1 22	23 35	0 15	15 5	0 58	23 29	0 35	6 10	2 31	1 32	0 43	11 58	1 54	28 46	15 8	22 35	22 29	25 42		n.a.
S 26	23 43	11 4	5 16	25 10	1 28	23 43	0 17	14 53	0 57	23 28	0 35	6 9	2 30	1 32	0 43	11 58	1 53	28 46	15 8	22 35	22 29	25 41		n.a.
S 27	23 43	15 43	5 10	25 16	1 33	23 50	0 19	14 39	0 56	23 26	0 35	6 7	2 30	1 32	0 43	11 58	1 53	28 47	15 8	22 36	22 30	25 41		n.a.
M28	23 42	19 38	4 51	25 19	1 37	23 56	0 22	14 26	0 55	23 25	0 35	6 6	2 30	1 32	0 43	11 57	1 53	28 47	15 9	22 36	22 30	25 40		n.a.
T 29	23 41	22 42	4 19	25 19	1 41	24 1	0 24	14 13	0 54	23 23	0 35	6 4	2 30	1 32	0 43	11 57	1 53	28 48	15 9	22 36	22 30	25 40		n.a.
W30	23n40	24s45	3s36	25n16	1n44	24n 6	0n26	14n 0	0n54	23n22	0n35	6n 3	2n29	1s32	0s43	11s57	1n53	28s48	15s 9	22s36	22s31	25s39		n.a.

Julian Day Number = 1659847.5, Delta T = 03h26m21s
Ecliptic obliquity = 23°42'59, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'42, Lahiri = - 6°16'42 Julian Calendar 1 June 169 BCE == Greg. Calendar 29 May 169 BCE

The year -168 astronomical counting style corresponds to year 169 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 169 BCE
geocentric

JULY 169 BCE (-168) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 23 4	4♋47'01	15♐57	8♋57	27♊26	26♌ 9	15♋55	20♍40	27♓51	6°R 9	21°R20	17°R 6	17♑46	24♐12	n.a.	T 1
F 2	18 27 0	5°44'22	27°46	10°58	28°40	26°47	16° 8	20°43	27°51	6♏ 8	21♒20	17♑ 4	17°43	24°19	n.a.	F 2
S 3	18 30 57	6°41'44	9♑35	12°58	29°54	27°24	16°21	20°46	27°52	6° 8	21°19	17° 4	17°40	24°25	n.a.	S 3
S 4	18 34 54	7°39'07	21°28	14°57	1♋ 8	28° 1	16°34	20°50	27°52	6° 7	21°18	17°D 4	17°36	24°32	n.a.	S 4
M 5	18 38 50	8°36'31	3♒26	16°54	2°22	28°39	16°47	20°54	27°52	6° 7	21°17	17° 4	17°33	24°39	n.a.	M 5
T 6	18 42 47	9°33'57	15°31	18°50	3°36	29°16	17° 0	20°57	27°52	6° 6	21°16	17° 5	17°30	24°45	n.a.	T 6
W 7	18 46 43	10°31'24	27°47	20°44	4°50	29°54	17°14	21° 1	27°R52	6° 6	21°15	17° 6	17°27	24°52	n.a.	W 7
T 8	18 50 40	11°28'52	10♓16	22°37	6° 4	0♍32	17°27	21° 5	27°52	6° 5	21°15	17° 6	17°24	24°59	n.a.	T 8
F 9	18 54 36	12°26'21	23° 2	24°28	7°18	1°10	17°40	21° 9	27°52	6° 5	21°14	17° 7	17°21	25° 5	n.a.	F 9
S 10	18 58 33	13°23'52	6♈ 6	26°18	8°32	1°47	17°53	21°13	27°52	6° 4	21°13	17° 7	17°17	25°12	n.a.	S 10
S 11	19 2 29	14°21'24	19°32	28° 6	9°46	2°25	18° 6	21°17	27°52	6° 4	21°12	17°R 7	17°14	25°19	n.a.	S 11
M12	19 6 26	15°18'58	3♉21	29°52	11° 0	3° 3	18°19	21°21	27°51	6° 4	21°11	17° 7	17°11	25°25	n.a.	M12
T 13	19 10 23	16°16'34	17°34	1♌37	12°14	3°42	18°32	21°25	27°51	6° 3	21°10	17° 7	17° 8	25°32	n.a.	T 13
W14	19 14 19	17°14'11	2♊ 7	3°21	13°29	4°20	18°45	21°29	27°51	6° 3	21° 9	17°D 7	17° 5	25°39	n.a.	W14
T 15	19 18 16	18°11'51	16°59	5° 3	14°43	4°58	18°59	21°34	27°50	6° 3	21° 8	17° 7	17° 1	25°45	n.a.	T 15
F 16	19 22 12	19° 9'31	2♋ 0	6°44	15°57	5°36	19°12	21°38	27°50	6° 3	21° 7	17° 7	16°58	25°52	n.a.	F 16
S 17	19 26 9	20° 7'13	17° 5	8°23	17°11	6°15	19°25	21°43	27°49	6° 3	21° 6	17°R 7	16°55	25°59	n.a.	S 17
S 18	19 30 5	21° 4'57	2♌ 3	10° 1	18°25	6°53	19°38	21°47	27°49	6° 2	21° 5	17° 7	16°52	26° 5	n.a.	S 18
M19	19 34 2	22° 2'42	16°48	11°37	19°40	7°32	19°51	21°52	27°48	6° 2	21° 4	17° 6	16°49	26°12	n.a.	M19
T 20	19 37 59	23° 0'28	1♍11	13°12	20°54	8°10	20° 4	21°57	27°48	6° 2	21° 3	17° 6	16°46	26°19	n.a.	T 20
W21	19 41 55	23°58'15	15° 9	14°45	22° 8	8°49	20°17	22° 2	27°47	6° 2	21° 2	17° 5	16°42	26°25	n.a.	W21
T 22	19 45 52	24°56'04	28°41	16°17	23°23	9°28	20°31	22° 7	27°46	6°D 2	21° 1	17° 4	16°39	26°32	n.a.	T 22
F 23	19 49 48	25°53'54	11♎47	17°48	24°37	10° 7	20°44	22°11	27°46	6° 2	21° 0	17° 4	16°36	26°39	n.a.	F 23
S 24	19 53 45	26°51'46	24°30	19°17	25°51	10°46	20°57	22°16	27°45	6° 2	20°59	17°D 3	16°33	26°45	n.a.	S 24
S 25	19 57 41	27°49'38	6♏53	20°44	27° 6	11°25	21°10	22°22	27°44	6° 2	20°57	17° 4	16°30	26°52	n.a.	S 25
M26	20 1 38	28°47'32	19° 1	22°10	28°20	12° 4	21°23	22°27	27°43	6° 2	20°56	17° 4	16°27	26°59	n.a.	M26
T 27	20 5 34	29°45'28	0♐58	23°35	29°35	12°43	21°36	22°32	27°42	6° 3	20°55	17° 5	16°23	27° 5	n.a.	T 27
W28	20 9 31	0♌43'25	12°49	24°58	0♌49	13°22	21°49	22°37	27°41	6° 3	20°54	17° 6	16°20	27°12	n.a.	W28
T 29	20 13 27	1°41'24	24°37	26°19	2° 3	14° 1	22° 2	22°42	27°40	6° 3	20°53	17° 8	16°17	27°18	n.a.	T 29
F 30	20 17 24	2°39'24	6♑27	27°39	3°18	14°41	22°15	22°48	27°39	6° 3	20°52	17° 9	16°14	27°25	n.a.	F 30
S 31	20 21 21	3♌37'26	18♑20	28♌57	4♌32	15♍20	22♋28	22♍53	27♓38	6♏ 4	20♒51	17°R 9	16♑11	27♐32	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23n38	25s41	2s44	25n11	1n46	24n10	0n29	13n46	0n53	23n21	0n36	6n 1	2n29	1s32	0s43	11s57	1n53	28s49	15s10	22s37	22s31	25s39		n.a.
F 2	23 35	25 27	1 45	25 3	1 48	24 13	0 31	13 33	0 52	23 19	0 36	6 0	2 29	1 31	0 43	11 57	1 53	28 49	15 10	22 37	22 32	25 38		n.a.
S 3	23 33	24 3	0 41	24 53	1 49	24 16	0 33	13 19	0 51	23 17	0 36	5 58	2 29	1 31	0 43	11 57	1 53	28 50	15 10	22 37	22 32	25 38		n.a.
S 4	23 30	21 35	0n24	24 40	1 49	24 18	0 35	13 5	0 50	23 16	0 36	5 57	2 29	1 31	0 43	11 56	1 53	28 50	15 10	22 37	22 33	25 37		n.a.
M 5	23 26	18 10	1 30	24 26	1 49	24 19	0 37	12 51	0 50	23 14	0 36	5 55	2 28	1 31	0 44	11 56	1 53	28 51	15 11	22 37	22 33	25 37		n.a.
T 6	23 22	13 57	2 32	24 9	1 48	24 19	0 39	12 37	0 49	23 13	0 36	5 53	2 28	1 31	0 44	11 56	1 53	28 51	15 11	22 37	22 33	25 36		n.a.
W 7	23 18	9 8	3 27	23 51	1 46	24 19	0 42	12 23	0 48	23 11	0 36	5 52	2 28	1 31	0 44	11 56	1 53	28 52	15 11	22 37	22 34	25 36		n.a.
T 8	23 13	3 53	4 15	23 30	1 44	24 18	0 44	12 9	0 47	23 10	0 36	5 50	2 28	1 31	0 44	11 56	1 53	28 53	15 11	22 36	22 34	25 35		n.a.
F 9	23 8	1n38	4 50	23 8	1 41	24 16	0 46	11 55	0 47	23 8	0 36	5 48	2 28	1 32	0 44	11 56	1 53	28 53	15 12	22 36	22 35	25 35		n.a.
S 10	23 2	7 13	5 12	22 45	1 38	24 14	0 48	11 40	0 46	23 6	0 36	5 46	2 27	1 32	0 44	11 56	1 53	28 54	15 12	22 36	22 35	25 34		n.a.
S 11	22 56	12 37	5 17	22 20	1 35	24 10	0 49	11 26	0 45	23 5	0 36	5 45	2 27	1 32	0 44	11 56	1 53	28 54	15 12	22 36	22 35	25 33		n.a.
M12	22 50	17 32	5 5	21 53	1 31	24 6	0 51	11 11	0 44	23 3	0 36	5 43	2 27	1 32	0 44	11 56	1 52	28 55	15 12	22 36	22 36	25 33		n.a.
T 13	22 43	21 38	4 34	21 26	1 26	24 2	0 53	10 57	0 44	23 1	0 36	5 41	2 27	1 32	0 44	11 56	1 52	28 55	15 13	22 36	22 36	25 32		n.a.
W14	22 35	24 30	3 45	20 57	1 21	23 56	0 55	10 42	0 43	22 59	0 37	5 39	2 27	1 32	0 44	11 56	1 52	28 56	15 13	22 36	22 37	25 32		n.a.
T 15	22 28	25 43	2 40	20 27	1 16	23 50	0 57	10 27	0 42	22 58	0 37	5 37	2 26	1 32	0 44	11 56	1 52	28 56	15 13	22 36	22 37	25 31		n.a.
F 16	22 20	25 5	1 23	19 56	1 10	23 43	0 59	10 12	0 41	22 56	0 37	5 35	2 26	1 32	0 44	11 56	1 52	28 57	15 13	22 36	22 37	25 30		n.a.
S 17	22 11	22 37	0 0	19 25	1 5	23 36	1 0	9 57	0 40	22 54	0 37	5 33	2 26	1 33	0 44	11 56	1 52	28 57	15 14	22 36	22 38	25 30		n.a.
S 18	22 3	18 36	1s22	18 53	0 58	23 27	1 2	9 42	0 40	22 52	0 37	5 31	2 26	1 33	0 44	11 56	1 52	28 58	15 14	22 36	22 38	25 29		n.a.
M19	21 53	13 29	2 38	18 20	0 52	23 18	1 3	9 27	0 39	22 50	0 37	5 29	2 26	1 33	0 44	11 56	1 52	28 59	15 14	22 36	22 39	25 29		n.a.
T 20	21 44	7 44	3 41	17 46	0 45	23 8	1 5	9 11	0 38	22 48	0 37	5 27	2 25	1 33	0 44	11 56	1 52	28 59	15 14	22 37	22 39	25 28		n.a.
W21	21 34	1 47	4 30	17 12	0 38	22 58	1 6	8 56	0 37	22 47	0 37	5 25	2 25	1 34	0 44	11 56	1 52	29 0	15 14	22 37	22 39	25 27		n.a.
T 22	21 23	4s 4	5 1	16 37	0 30	22 47	1 8	8 41	0 37	22 45	0 37	5 23	2 25	1 34	0 44	11 56	1 52	29 0	15 15	22 37	22 40	25 27		n.a.
F 23	21 13	9 33	5 16	16 2	0 23	22 35	1 9	8 25	0 36	22 43	0 37	5 21	2 25	1 34	0 44	11 56	1 52	29 1	15 15	22 37	22 40	25 26		n.a.
S 24	21 2	14 28	5 15	15 27	0 15	22 22	1 11	8 9	0 35	22 41	0 37	5 19	2 25	1 35	0 44	11 56	1 52	29 1	15 15	22 37	22 41	25 25		n.a.
S 25	20 50	18 40	4 59	14 52	0 7	22 9	1 12	7 54	0 34	22 39	0 38	5 16	2 24	1 35	0 44	11 56	1 52	29 2	15 15	22 37	22 41	25 25		n.a.
M26	20 38	21 59	4 29	14 16	0s 1	21 56	1 13	7 38	0 34	22 37	0 38	5 14	2 24	1 36	0 44	11 56	1 52	29 2	15 15	22 37	22 41	25 24		n.a.
T 27	20 26	24 19	3 49	13 40	0 9	21 41	1 14	7 22	0 33	22 35	0 38	5 12	2 24	1 36	0 44	11 56	1 52	29 3	15 15	22 37	22 42	25 23		n.a.
W28	20 14	25 33	2 59	13 4	0 18	21 26	1 15	7 6	0 32	22 33	0 38	5 10	2 24	1 36	0 44	11 56	1 51	29 3	15 16	22 36	22 42	25 23		n.a.
T 29	20 1	25 38	2 2	12 28	0 27	21 10	1 16	6 50	0 31	22 31	0 38	5 7	2 24	1 37	0 44	11 56	1 51	29 4	15 16	22 36	22 43	25 22		n.a.
F 30	19 48	24 32	0 59	11 53	0 35	20 54	1 17	6 34	0 31	22 29	0 38	5 5	2 24	1 37	0 44	11 57	1 51	29 5	15 16	22 36	22 43	25 21		n.a.
S 31	19n34	22s20	0n 7	11n17	0s44	20n37	1n18	6n18	0n30	22n27	0n38	5n 3	2n23	1s38	0s44	11s57	1n51	29s 5	15s16	22s36	22s43	25s21		n.a.

Julian Day Number = 1659877.5, Delta T = 03h26m20s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'38, Lahiri = - 6°16'38 Julian Calendar 1 July 169 BCE == Greg. Calendar 28 June 169 BCE

The year -168 astronomical counting style corresponds to year 169 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 169 BCE
geocentric

AUGUST 169 BCE (-168) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 25 17	4♌35'29	0♒21	0♍13	5♌47	16♍ 0	22♋41	22♍59	27°R37	6♏ 4	20°R49	17°R 8	16♑ 7	27♐38	n.a.	S 1
M 2	20 29 14	5°33'34	12°30	1°28	7° 1	16°39	22°54	23° 4	27♓35	6° 4	20♒48	17♑ 7	16° 4	27°45	n.a.	M 2
T 3	20 33 10	6°31'41	24°49	2°41	8°16	17°19	23° 7	23°10	27°34	6° 5	20°47	17° 5	16° 1	27°52	n.a.	T 3
W 4	20 37 7	7°29'50	7♓20	3°52	9°31	17°59	23°20	23°16	27°33	6° 5	20°46	17° 2	15°58	27°58	n.a.	W 4
T 5	20 41 3	8°28'01	20° 4	5° 1	10°45	18°38	23°33	23°21	27°32	6° 5	20°45	16°59	15°55	28° 5	n.a.	T 5
F 6	20 45 0	9°26'13	3♈ 2	6° 8	12° 0	19°18	23°46	23°27	27°30	6° 6	20°43	16°55	15°52	28°12	n.a.	F 6
S 7	20 48 56	10°24'28	16°14	7°12	13°14	19°58	23°59	23°33	27°29	6° 6	20°42	16°53	15°48	28°18	n.a.	S 7
S 8	20 52 53	11°22'45	29°42	8°15	14°29	20°38	24°12	23°39	27°27	6° 7	20°41	16°51	15°45	28°25	n.a.	S 8
M 9	20 56 50	12°21'05	13♉27	9°15	15°44	21°18	24°25	23°45	27°26	6° 8	20°40	16°D51	15°42	28°32	n.a.	M 9
T 10	21 0 46	13°19'26	27°28	10°12	16°58	21°58	24°37	23°51	27°24	6° 8	20°39	16°51	15°39	28°38	n.a.	T 10
W11	21 4 43	14°17'50	11♊45	11° 7	18°13	22°39	24°50	23°57	27°23	6° 9	20°37	16°53	15°36	28°45	n.a.	W11
T 12	21 8 39	15°16'17	26°15	11°58	19°28	23°19	25° 3	24° 3	27°21	6° 9	20°36	16°54	15°32	28°52	n.a.	T 12
F 13	21 12 36	16°14'45	10♋55	12°46	20°42	23°59	25°16	24° 9	27°20	6°10	20°35	16°R55	15°29	28°58	n.a.	F 13
S 14	21 16 32	17°13'16	25°40	13°31	21°57	24°40	25°28	24°15	27°18	6°11	20°34	16°55	15°26	29° 5	n.a.	S 14
S 15	21 20 29	18°11'48	10♌24	14°13	23°12	25°20	25°41	24°22	27°16	6°12	20°32	16°53	15°23	29°12	n.a.	S 15
M16	21 24 25	19°10'23	24°59	14°50	24°27	26° 1	25°53	24°28	27°14	6°12	20°31	16°50	15°20	29°18	n.a.	M16
T 17	21 28 22	20° 8'59	9♍18	15°23	25°41	26°41	26° 6	24°34	27°13	6°13	20°30	16°46	15°17	29°25	n.a.	T 17
W18	21 32 19	21° 7'38	23°16	15°52	26°56	27°22	26°18	24°41	27°11	6°14	20°29	16°40	15°13	29°32	n.a.	W18
T 19	21 36 15	22° 6'18	6♎51	16°15	28°11	28° 3	26°31	24°47	27° 9	6°15	20°28	16°35	15°10	29°38	n.a.	T 19
F 20	21 40 12	23° 5'00	20° 0	16°34	29°26	28°44	26°43	24°53	27° 7	6°16	20°26	16°30	15° 7	29°45	n.a.	F 20
S 21	21 44 8	24° 3'45	2♏46	16°46	0♍40	29°25	26°56	25° 0	27° 5	6°17	20°25	16°26	15° 4	29°51	n.a.	S 21
S 22	21 48 5	25° 2'30	15°11	16°53	1°55	0♎ 6	27° 8	25° 6	27° 3	6°18	20°24	16°24	15° 1	29°58	n.a.	S 22
M23	21 52 1	26° 1'18	27°19	16°R54	3°10	0°47	27°20	25°13	27° 1	6°19	20°23	16°D24	14°58	0♑ 5	n.a.	M23
T 24	21 55 58	27° 0'08	9♐16	16°47	4°25	1°28	27°33	25°20	26°59	6°20	20°21	16°24	14°54	0°11	n.a.	T 24
W25	21 59 54	27°58'59	21° 6	16°34	5°40	2° 9	27°45	25°26	26°57	6°21	20°20	16°26	14°51	0°18	n.a.	W25
T 26	22 3 51	28°57'53	2♑54	16°13	6°55	2°50	27°57	25°33	26°55	6°22	20°19	16°27	14°48	0°25	n.a.	T 26
F 27	22 7 48	29°56'48	14°46	15°45	8° 9	3°32	28° 9	25°39	26°53	6°23	20°18	16°R28	14°45	0°31	n.a.	F 27
S 28	22 11 44	0♍55'45	26°44	15°10	9°24	4°13	28°21	25°46	26°51	6°24	20°17	16°28	14°42	0°38	n.a.	S 28
S 29	22 15 41	1°54'44	8♒53	14°27	10°39	4°55	28°33	25°53	26°49	6°26	20°15	16°25	14°38	0°45	n.a.	S 29
M30	22 19 37	2°53'45	21°15	13°37	11°54	5°36	28°45	26° 0	26°47	6°27	20°14	16°20	14°35	0°51	n.a.	M30
T 31	22 23 34	3♍52'48	3♓52	12♍41	13♍ 9	6♎18	28♋57	26♍ 7	26♓44	6♏28	20♒13	16♑14	14♑32	0♑58	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	19n20	19s 8	1n12	10n41	0s53	20n19	1n19	6n 2	0n29	22n25	0n38	5n 0	2n23	1s38	0s44	11s57	1n51	29s 6	15s16	22s36	22s44	25s20		n.a.	
M 2	19 6	15 5	2 16	10 6	1 2	20 1	1 20	5 46	0 28	22 23	0 38	4 58	2 23	1 39	0 44	11 57	1 51	29 6	15 16	22 36	22 44	25 19		n.a.	
T 3	18 51	10 22	3 13	9 31	1 12	19 42	1 21	5 30	0 28	22 20	0 38	4 56	2 23	1 39	0 44	11 57	1 51	29 7	15 16	22 37	22 45	25 18		n.a.	
W 4	18 37	5 10	4 3	8 57	1 21	19 23	1 21	5 13	0 27	22 18	0 39	4 53	2 23	1 40	0 44	11 58	1 51	29 7	15 16	22 37	22 45	25 18		n.a.	
T 5	18 21	0n19	4 41	8 23	1 30	19 3	1 22	4 57	0 26	22 16	0 39	4 51	2 23	1 40	0 44	11 58	1 51	29 8	15 17	22 37	22 45	25 17		n.a.	
F 6	18 6	5 53	5 5	7 50	1 39	18 43	1 23	4 40	0 26	22 14	0 39	4 48	2 23	1 41	0 44	11 58	1 51	29 8	15 17	22 38	22 46	25 16		n.a.	
S 7	17 50	11 17	5 15	7 17	1 49	18 22	1 23	4 24	0 25	22 12	0 39	4 46	2 22	1 42	0 44	11 58	1 51	29 9	15 17	22 38	22 46	25 15		n.a.	
S 8	17 34	16 16	5 7	6 45	1 58	18 0	1 24	4 7	0 24	22 10	0 39	4 43	2 22	1 42	0 45	11 58	1 51	29 9	15 17	22 38	22 46	25 15		n.a.	
M 9	17 18	20 31	4 41	6 14	2 7	17 38	1 24	3 51	0 23	22 8	0 39	4 41	2 22	1 43	0 45	11 59	1 51	29 10	15 17	22 38	22 47	25 14		n.a.	
T 10	17 1	23 42	3 59	5 44	2 16	17 16	1 24	3 34	0 23	22 5	0 39	4 38	2 22	1 43	0 45	11 59	1 51	29 10	15 17	22 38	22 47	25 13		n.a.	
W11	16 44	25 27	3 1	5 15	2 25	16 53	1 24	3 17	0 22	22 3	0 39	4 36	2 22	1 44	0 45	11 59	1 51	29 11	15 17	22 38	22 48	25 12		n.a.	
T 12	16 27	25 31	1 51	4 47	2 34	16 30	1 25	3 0	0 21	22 1	0 39	4 33	2 22	1 45	0 45	12 0	1 50	29 11	15 17	22 38	22 48	25 12		n.a.	
F 13	16 9	23 48	0 33	4 20	2 43	16 6	1 25	2 44	0 20	21 59	0 40	4 31	2 22	1 45	0 45	12 0	1 50	29 12	15 17	22 38	22 48	25 11		n.a.	
S 14	15 51	20 28	0s48	3 55	2 51	15 41	1 25	2 27	0 20	21 57	0 40	4 28	2 22	1 46	0 45	12 0	1 50	29 12	15 17	22 38	22 49	25 10		n.a.	
S 15	15 33	15 50	2 5	3 32	3 0	15 16	1 25	2 10	0 19	21 54	0 40	4 25	2 21	1 47	0 45	12 0	1 50	29 12	15 17	22 38	22 49	25 9		n.a.	
M16	15 15	10 19	3 13	3 10	3 7	14 51	1 25	1 53	0 18	21 52	0 40	4 23	2 21	1 48	0 45	12 1	1 50	29 13	15 17	22 39	22 49	25 8		n.a.	
T 17	14 56	4 21	4 8	2 50	3 15	14 26	1 25	1 36	0 17	21 50	0 40	4 20	2 21	1 48	0 45	12 1	1 50	29 13	15 17	22 39	22 50	25 7		n.a.	
W18	14 37	1s40	4 46	2 32	3 22	14 0	1 24	1 19	0 17	21 47	0 40	4 18	2 21	1 49	0 45	12 1	1 50	29 14	15 17	22 40	22 50	25 7		n.a.	
T 19	14 18	7 26	5 7	2 17	3 29	13 33	1 24	1 2	0 16	21 45	0 40	4 15	2 21	1 50	0 45	12 2	1 50	29 14	15 17	22 40	22 51	25 6		n.a.	
F 20	13 59	12 42	5 11	2 4	3 35	13 7	1 24	0 45	0 15	21 43	0 40	4 12	2 21	1 51	0 45	12 2	1 50	29 15	15 17	22 41	22 51	25 5		n.a.	
S 21	13 39	17 15	4 59	1 54	3 40	12 39	1 23	0 28	0 15	21 41	0 41	4 10	2 21	1 51	0 45	12 3	1 50	29 15	15 17	22 41	22 51	25 4		n.a.	
S 22	13 19	20 55	4 33	1 47	3 45	12 12	1 23	0 10	0 14	21 38	0 41	4 7	2 21	1 52	0 45	12 3	1 50	29 16	15 17	22 42	22 52	25 3		n.a.	
M23	12 59	23 37	3 56	1 44	3 49	11 44	1 22	0s 7	0 13	21 36	0 41	4 4	2 21	1 53	0 45	12 3	1 50	29 16	15 17	22 42	22 52	25 2		n.a.	
T 24	12 39	25 12	3 8	1 44	3 51	11 16	1 22	0 24	0 12	21 34	0 41	4 1	2 20	1 54	0 45	12 4	1 50	29 16	15 17	22 42	22 52	25 2		n.a.	
W25	12 19	25 38	2 14	1 47	3 53	10 48	1 21	0 41	0 12	21 31	0 41	3 59	2 20	1 55	0 45	12 4	1 50	29 17	15 17	22 42	22 53	25 1		n.a.	
T 26	11 58	24 54	1 13	1 55	3 53	10 19	1 20	0 58	0 11	21 29	0 41	3 56	2 20	1 55	0 45	12 5	1 50	29 17	15 17	22 41	22 53	25 0		n.a.	
F 27	11 37	23 3	0 9	2 7	3 52	9 50	1 20	1 16	0 10	21 27	0 41	3 53	2 20	1 56	0 45	12 5	1 50	29 18	15 17	22 41	22 53	24 59		n.a.	
S 28	11 16	20 9	0n55	2 24	3 49	9 21	1 19	1 33	0 10	21 24	0 42	3 50	2 20	1 57	0 45	12 5	1 49	29 18	15 17	22 41	22 54	24 58		n.a.	
S 29	10 55	16 21	1 58	2 45	3 44	8 51	1 18	1 50	0 9	21 22	0 42	3 48	2 20	1 58	0 45	12 6	1 49	29 18	15 17	22 42	22 54	24 57		n.a.	
M30	10 34	11 48	2 57	3 10	3 38	8 22	1 17	2 8	0 8	21 20	0 42	3 45	2 20	1 59	0 45	12 6	1 49	29 19	15 17	22 42	22 54	24 56		n.a.	
T 31	10n12	6s41	3n47	3n39	3s30	7n52	1n16	2s25	0n 7	21n17	0n42	3n42	2n20	2s 0	0s45	12s 7	1n49	29s19	15s17	22s43	22s55	24s55		n.a.	

Julian Day Number = 1659908.5, Delta T = 03h26m19s
Ecliptic obliquity = 23°42'59, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'34, Lahiri = - 6°16'34 Julian Calendar 1 Aug. 169 BCE == Greg. Calendar 29 July 169 BCE

The year -168 astronomical counting style corresponds to year 169 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 169 BCE
geocentric

SEPTEMBER 169 BCE (-168) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 27 30	4♍51'53	16♓43	11°R40	14♍24	6♎59	29♋ 9	26♍13	26°R42	6♏29	20°R12	16°R 6	14♑29	1♑ 5	n.a.	W 1
T 2	22 31 27	5°51'01	29°49	10♍35	15°39	7°41	29°20	26°20	26♓40	6°31	20♒11	15♑57	14°26	1°11	n.a.	T 2
F 3	22 35 23	6°50'10	13♈ 8	9°26	16°53	8°23	29°32	26°27	26°38	6°32	20° 9	15°48	14°23	1°18	n.a.	F 3
S 4	22 39 20	7°49'22	26°38	8°17	18° 8	9° 5	29°44	26°34	26°35	6°33	20° 8	15°41	14°19	1°25	n.a.	S 4
S 5	22 43 16	8°48'37	10♉19	7° 8	19°23	9°47	29°55	26°41	26°33	6°35	20° 7	15°35	14°16	1°31	n.a.	S 5
M 6	22 47 13	9°47'54	24°10	6° 1	20°38	10°29	0♌ 7	26°48	26°31	6°36	20° 6	15°32	14°13	1°38	n.a.	M 6
T 7	22 51 10	10°47'13	8♊ 8	4°59	21°53	11°11	0°18	26°55	26°28	6°38	20° 5	15°D31	14°10	1°45	n.a.	T 7
W 8	22 55 6	11°46'35	22°14	4° 4	23° 8	11°53	0°30	27° 2	26°26	6°39	20° 4	15°31	14° 7	1°51	n.a.	W 8
T 9	22 59 3	12°45'59	6♋26	3°15	24°23	12°35	0°41	27° 9	26°24	6°40	20° 2	15°32	14° 4	1°58	n.a.	T 9
F 10	23 2 59	13°45'26	20°43	2°36	25°38	13°17	0°52	27°16	26°21	6°42	20° 1	15°R32	14° 0	2° 4	n.a.	F 10
S 11	23 6 56	14°44'55	5♌ 2	2° 7	26°53	14° 0	1° 3	27°23	26°19	6°44	20° 0	15°31	13°57	2°11	n.a.	S 11
S 12	23 10 52	15°44'27	19°21	1°48	28° 8	14°42	1°14	27°30	26°17	6°45	19°59	15°27	13°54	2°18	n.a.	S 12
M13	23 14 49	16°44'00	3♍34	1°D41	29°22	15°25	1°25	27°37	26°14	6°47	19°58	15°20	13°51	2°24	n.a.	M13
T 14	23 18 45	17°43'36	17°36	1°44	0♎37	16° 7	1°36	27°44	26°12	6°48	19°57	15°11	13°48	2°31	n.a.	T 14
W15	23 22 42	18°43'14	1♎22	1°58	1°52	16°50	1°47	27°52	26° 9	6°50	19°56	15° 0	13°44	2°38	n.a.	W15
T 16	23 26 39	19°42'54	14°50	2°22	3° 7	17°33	1°58	27°59	26° 7	6°52	19°55	14°49	13°41	2°44	n.a.	T 16
F 17	23 30 35	20°42'36	27°56	2°57	4°22	18°15	2° 8	28° 6	26° 4	6°53	19°54	14°38	13°38	2°51	n.a.	F 17
S 18	23 34 32	21°42'19	10♏41	3°40	5°37	18°58	2°19	28°13	26° 2	6°55	19°53	14°30	13°35	2°58	n.a.	S 18
S 19	23 38 28	22°42'05	23° 6	4°31	6°52	19°41	2°30	28°20	26° 0	6°57	19°52	14°23	13°32	3° 4	n.a.	S 19
M20	23 42 25	23°41'53	5♐15	5°29	8° 7	20°24	2°40	28°27	25°57	6°58	19°51	14°19	13°29	3°11	n.a.	M20
T 21	23 46 21	24°41'42	17°11	6°35	9°22	21° 7	2°50	28°34	25°55	7° 0	19°50	14°18	13°25	3°18	n.a.	T 21
W22	23 50 18	25°41'34	29° 1	7°46	10°37	21°50	3° 0	28°42	25°52	7° 2	19°49	14°D17	13°22	3°24	n.a.	W22
T 23	23 54 14	26°41'27	10♑49	9° 2	11°52	22°33	3°11	28°49	25°50	7° 4	19°48	14°R18	13°19	3°31	n.a.	T 23
F 24	23 58 11	27°41'22	22°41	10°22	13° 7	23°16	3°21	28°56	25°47	7° 6	19°47	14°17	13°16	3°38	n.a.	F 24
S 25	0 2 8	28°41'18	4♒42	11°46	14°21	24° 0	3°31	29° 3	25°45	7° 8	19°46	14°16	13°13	3°44	n.a.	S 25
S 26	0 6 4	29°41'17	16°57	13°13	15°36	24°43	3°40	29°10	25°42	7° 9	19°45	14°11	13° 9	3°51	n.a.	S 26
M27	0 10 1	0♎41'17	29°30	14°42	16°51	25°26	3°50	29°18	25°40	7°11	19°44	14° 4	13° 6	3°57	n.a.	M27
T 28	0 13 57	1°41'19	12♓21	16°14	18° 6	26°10	4° 0	29°25	25°37	7°13	19°43	13°55	13° 3	4° 4	n.a.	T 28
W29	0 17 54	2°41'23	25°32	17°48	19°21	26°53	4° 9	29°32	25°35	7°15	19°43	13°43	13° 0	4°11	n.a.	W29
T 30	0 21 50	3♎41'29	9♈ 2	19♍23	20♎36	27♎37	4♌19	29♍39	25♓33	7♏17	19♒42	13♑31	12♑57	4♑17	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	9n50	1s12	4n28	4n12	3s19	7n21	1n15	2s42	0n 7	21n15	0n42	3n39	2n20	2s 1	0s45	12s 7	1n49	29s19	15s17	22s44	22s55	24s54		n.a.
T 2	9 28	4n25	4 55	4 49	3 7	6 51	1 14	2 59	0 6	21 13	0 42	3 36	2 20	2 2	0 45	12 8	1 49	29 20	15 17	22 45	22 55	24 54		n.a.
F 3	9 6	9 56	5 6	5 28	2 52	6 21	1 12	3 17	0 5	21 10	0 42	3 33	2 20	2 3	0 45	12 8	1 49	29 20	15 17	22 46	22 56	24 53		n.a.
S 4	8 44	15 3	5 1	6 9	2 36	5 50	1 11	3 34	0 5	21 8	0 43	3 31	2 20	2 3	0 45	12 9	1 49	29 20	15 17	22 47	22 56	24 52		n.a.
S 5	8 22	19 29	4 39	6 51	2 19	5 19	1 10	3 51	0 4	21 6	0 43	3 28	2 20	2 4	0 45	12 9	1 49	29 21	15 17	22 48	22 57	24 51		n.a.
M 6	7 59	22 54	4 0	7 33	2 0	4 48	1 8	4 9	0 3	21 4	0 43	3 25	2 20	2 5	0 45	12 10	1 49	29 21	15 17	22 48	22 57	24 50		n.a.
T 7	7 36	24 59	3 7	8 14	1 40	4 17	1 7	4 26	0 3	21 1	0 43	3 22	2 19	2 6	0 45	12 10	1 49	29 21	15 17	22 48	22 57	24 49		n.a.
W 8	7 14	25 31	2 2	8 53	1 20	3 45	1 5	4 43	0 2	20 59	0 43	3 19	2 19	2 7	0 45	12 11	1 49	29 22	15 16	22 48	22 58	24 48		n.a.
T 9	6 51	24 22	0 49	9 30	1 0	3 14	1 4	5 1	0 1	20 57	0 43	3 16	2 19	2 8	0 45	12 11	1 49	29 22	15 16	22 48	22 58	24 47		n.a.
F 10	6 28	21 39	0s28	10 3	0 40	2 42	1 2	5 18	0 0	20 54	0 44	3 14	2 19	2 9	0 45	12 12	1 49	29 22	15 16	22 48	22 58	24 46		n.a.
S 11	6 4	17 34	1 42	10 32	0 20	2 11	1 1	5 35	0s 0	20 52	0 44	3 11	2 19	2 10	0 45	12 12	1 49	29 22	15 16	22 48	22 59	24 45		n.a.
S 12	5 41	12 30	2 50	10 56	0 1	1 39	0 59	5 52	0 1	20 50	0 44	3 8	2 19	2 11	0 45	12 13	1 49	29 23	15 16	22 49	22 59	24 44		n.a.
M13	5 18	6 47	3 47	11 15	0n16	1 7	0 57	6 10	0 2	20 47	0 44	3 5	2 19	2 12	0 45	12 14	1 49	29 23	15 16	22 49	22 59	24 43		n.a.
T 14	4 54	0 50	4 29	11 29	0 33	0 36	0 55	6 27	0 2	20 45	0 44	3 2	2 19	2 13	0 45	12 14	1 49	29 23	15 16	22 50	23 0	24 42		n.a.
W15	4 31	5s 3	4 55	11 38	0 48	0 4	0 54	6 44	0 3	20 43	0 44	2 59	2 19	2 14	0 45	12 15	1 48	29 23	15 16	22 52	23 0	24 41		n.a.
T 16	4 7	10 33	5 3	11 42	1 2	0s28	0 52	7 1	0 4	20 40	0 45	2 56	2 19	2 15	0 45	12 15	1 48	29 24	15 15	22 53	23 0	24 40		n.a.
F 17	3 43	15 27	4 55	11 41	1 14	1 0	0 50	7 18	0 4	20 38	0 45	2 53	2 19	2 16	0 45	12 16	1 48	29 24	15 15	22 54	23 1	24 39		n.a.
S 18	3 20	19 30	4 33	11 35	1 24	1 32	0 48	7 35	0 5	20 36	0 45	2 50	2 19	2 17	0 45	12 17	1 48	29 24	15 15	22 55	23 1	24 38		n.a.
S 19	2 56	22 35	3 57	11 25	1 34	2 4	0 46	7 53	0 6	20 34	0 45	2 48	2 19	2 18	0 45	12 17	1 48	29 24	15 15	22 56	23 1	24 37		n.a.
M20	2 32	24 34	3 12	11 11	1 42	2 35	0 44	8 10	0 6	20 32	0 45	2 45	2 19	2 19	0 45	12 18	1 48	29 24	15 15	22 56	23 2	24 36		n.a.
T 21	2 8	25 24	2 19	10 52	1 48	3 7	0 42	8 27	0 7	20 29	0 45	2 42	2 19	2 20	0 45	12 18	1 48	29 24	15 15	22 56	23 2	24 35		n.a.
W22	1 44	25 3	1 20	10 30	1 53	3 39	0 39	8 43	0 8	20 27	0 46	2 39	2 19	2 21	0 45	12 19	1 48	29 25	15 14	22 56	23 2	24 34		n.a.
T 23	1 20	23 35	0 19	10 5	1 57	4 10	0 37	9 0	0 8	20 25	0 46	2 36	2 19	2 22	0 45	12 20	1 48	29 25	15 14	22 56	23 2	24 33		n.a.
F 24	0 56	21 3	0n44	9 37	2 0	4 42	0 35	9 17	0 9	20 23	0 46	2 33	2 19	2 23	0 45	12 20	1 48	29 25	15 14	22 56	23 3	24 32		n.a.
S 25	0 32	17 35	1 46	9 7	2 2	5 13	0 33	9 34	0 10	20 21	0 46	2 30	2 19	2 24	0 45	12 21	1 48	29 25	15 14	22 57	23 3	24 31		n.a.
S 26	0 8	13 20	2 44	8 34	2 3	5 45	0 30	9 51	0 11	20 18	0 46	2 27	2 19	2 25	0 45	12 22	1 48	29 25	15 14	22 57	23 3	24 30		n.a.
M27	0s17	8 25	3 35	7 59	2 4	6 16	0 28	10 7	0 11	20 16	0 47	2 24	2 19	2 26	0 45	12 22	1 48	29 25	15 13	22 58	23 4	24 29		n.a.
T 28	0 41	3 3	4 17	7 22	2 3	6 47	0 26	10 24	0 12	20 14	0 47	2 22	2 19	2 27	0 45	12 23	1 48	29 25	15 13	22 59	23 4	24 27		n.a.
W29	1 5	2n34	4 46	6 44	2 2	7 18	0 23	10 40	0 12	20 12	0 47	2 19	2 19	2 28	0 45	12 24	1 48	29 25	15 13	23 0	23 4	24 26		n.a.
T 30	1s29	8n12	5n 0	6n 5	2n 0	7s49	0n21	10s57	0s13	20n10	0n47	2n16	2n19	2s29	0s45	12s24	1n48	29s25	15s13	23s 1	23s 5	24s25		n.a.

Julian Day Number = 1659939.5, Delta T = 03h26m18s
Ecliptic obliquity = 23°42'59, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'30, Lahiri = - 6°16'29 Julian Calendar 1 Sept. 169 BCE == Greg. Calendar 29 Aug. 169 BCE

The year -168 astronomical counting style corresponds to year 169 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 169 BCE
geocentric

OCTOBER 169 BCE (-168) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 25 47	4♎41'36	22♈47	20♍58	21♎51	28♎21	4♌28	29♍46	25°R30	7♏19	19°R41	13°R18	12♉54	4♉24	n.a.	F 1
S 2	0 29 43	5°41'46	6♉44	22°35	23° 6	29° 4	4°37	29°53	25♓28	7°21	19♒40	13♉ 7	12°50	4°31	n.a.	S 2
S 3	0 33 40	6°41'58	20°48	24°13	24°20	29°48	4°46	0♎ 1	25°25	7°23	19°39	12°58	12°47	4°37	n.a.	S 3
M 4	0 37 36	7°42'12	4♊56	25°50	25°35	0♏32	4°55	0° 8	25°23	7°25	19°39	12°53	12°44	4°44	n.a.	M 4
T 5	0 41 33	8°42'29	19° 5	27°29	26°50	1°16	5° 4	0°15	25°21	7°27	19°38	12°50	12°41	4°51	n.a.	T 5
W 6	0 45 30	9°42'47	3♋12	29° 7	28° 5	2° 0	5°13	0°22	25°18	7°29	19°37	12°49	12°38	4°57	n.a.	W 6
T 7	0 49 26	10°43'08	17°17	0♎45	29°20	2°44	5°21	0°29	25°16	7°31	19°36	12°49	12°35	5° 4	n.a.	T 7
F 8	0 53 23	11°43'30	1♌18	2°24	0♏35	3°28	5°30	0°36	25°14	7°33	19°36	12°48	12°31	5°11	n.a.	F 8
S 9	0 57 19	12°43'55	15°16	4° 2	1°50	4°12	5°38	0°43	25°11	7°35	19°35	12°46	12°28	5°17	n.a.	S 9
S 10	1 1 16	13°44'22	29° 9	5°40	3° 4	4°56	5°46	0°50	25° 9	7°37	19°34	12°41	12°25	5°24	n.a.	S 10
M11	1 5 12	14°44'50	12♍55	7°18	4°19	5°40	5°55	0°57	25° 7	7°40	19°34	12°32	12°22	5°31	n.a.	M11
T 12	1 9 9	15°45'21	26°32	8°56	5°34	6°25	6° 3	1° 4	25° 4	7°42	19°33	12°21	12°19	5°37	n.a.	T 12
W13	1 13 5	16°45'53	9♎57	10°34	6°49	7° 9	6°10	1°11	25° 2	7°44	19°33	12° 8	12°15	5°44	n.a.	W13
T 14	1 17 2	17°46'27	23° 7	12°11	8° 4	7°53	6°18	1°18	25° 0	7°46	19°32	11°55	12°12	5°50	n.a.	T 14
F 15	1 20 59	18°47'03	6♏ 1	13°48	9°19	8°38	6°26	1°25	24°58	7°48	19°31	11°42	12° 9	5°57	n.a.	F 15
S 16	1 24 55	19°47'40	18°38	15°25	10°33	9°22	6°33	1°32	24°56	7°50	19°31	11°30	12° 6	6° 4	n.a.	S 16
S 17	1 28 52	20°48'19	0♐59	17° 1	11°48	10° 7	6°41	1°39	24°53	7°52	19°30	11°22	12° 3	6°10	n.a.	S 17
M18	1 32 48	21°48'59	13° 5	18°37	13° 3	10°52	6°48	1°46	24°51	7°55	19°30	11°16	12° 0	6°17	n.a.	M18
T 19	1 36 45	22°49'41	25° 0	20°13	14°18	11°36	6°55	1°53	24°49	7°57	19°30	11°13	11°56	6°24	n.a.	T 19
W20	1 40 41	23°50'24	6♑48	21°49	15°33	12°21	7° 2	2° 0	24°47	7°59	19°29	11°D12	11°53	6°30	n.a.	W20
T 21	1 44 38	24°51'08	18°36	23°25	16°47	13° 6	7° 8	2° 7	24°45	8° 1	19°29	11°12	11°50	6°37	n.a.	T 21
F 22	1 48 34	25°51'53	0♒27	25° 0	18° 2	13°51	7°15	2°14	24°43	8° 3	19°28	11°R12	11°47	6°44	n.a.	F 22
S 23	1 52 31	26°52'39	12°27	26°35	19°17	14°36	7°21	2°20	24°41	8° 6	19°28	11°10	11°44	6°50	n.a.	S 23
S 24	1 56 28	27°53'27	24°43	28°10	20°32	15°21	7°28	2°27	24°39	8° 8	19°28	11° 7	11°41	6°57	n.a.	S 24
M25	2 0 24	28°54'15	7♓19	29°45	21°46	16° 6	7°34	2°34	24°37	8°10	19°27	11° 2	11°37	7° 4	n.a.	M25
T 26	2 4 21	29°55'05	20°17	1♏19	23° 1	16°51	7°40	2°41	24°35	8°12	19°27	10°53	11°34	7°10	n.a.	T 26
W27	2 8 17	0♏55'56	3♈40	2°54	24°16	17°36	7°46	2°47	24°34	8°15	19°27	10°43	11°31	7°17	n.a.	W27
T 28	2 12 14	1°56'48	17°26	4°28	25°30	18°21	7°51	2°54	24°32	8°17	19°27	10°32	11°28	7°23	n.a.	T 28
F 29	2 16 10	2°57'41	1♉34	6° 2	26°45	19° 6	7°57	3° 0	24°30	8°19	19°26	10°20	11°25	7°30	n.a.	F 29
S 30	2 20 7	3°58'35	15°57	7°36	28° 0	19°52	8° 2	3° 7	24°28	8°21	19°26	10°10	11°21	7°37	n.a.	S 30
S 31	2 24 3	4♏59'31	0♊29	9♏10	29♏14	20♏37	8♌ 7	3♎13	24♓27	8♏24	19♒26	10♉ 2	11♉18	7♉43	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	1s53	13n32	4n57	5n24	1n57	8s19	0n19	11s13	0s14	20n 8	0n47	2n13	2n19	2s30	0s45	12s25	1n48	29s26	15s12	23s 3	23s 5	24s24		n.a.
S 2	2 17	18 15	4 36	4 43	1 54	8 50	0 16	11 30	0 14	20 6	0 48	2 10	2 19	2 31	0 45	12 26	1 48	29 26	15 12	23 4	23 5	24 23		n.a.
S 3	2 41	21 59	3 58	4 1	1 50	9 20	0 14	11 46	0 15	20 4	0 48	2 7	2 19	2 32	0 45	12 26	1 48	29 26	15 12	23 5	23 6	24 22		n.a.
M 4	3 5	24 25	3 6	3 18	1 46	9 50	0 11	12 2	0 16	20 2	0 48	2 4	2 19	2 32	0 45	12 27	1 48	29 26	15 12	23 5	23 6	24 21		n.a.
T 5	3 29	25 17	2 2	2 34	1 42	10 20	0 9	12 18	0 16	20 0	0 48	2 2	2 19	2 33	0 45	12 28	1 48	29 26	15 11	23 5	23 6	24 20		n.a.
W 6	3 53	24 31	0 51	1 50	1 37	10 49	0 6	12 34	0 17	19 58	0 48	1 59	2 19	2 34	0 45	12 28	1 48	29 26	15 11	23 5	23 7	24 19		n.a.
T 7	4 17	22 12	0s24	1 6	1 32	11 18	0 4	12 50	0 18	19 56	0 49	1 56	2 19	2 35	0 45	12 29	1 48	29 26	15 11	23 5	23 7	24 18		n.a.
F 8	4 41	18 32	1 36	0 22	1 27	11 47	0 1	13 6	0 18	19 54	0 49	1 53	2 20	2 36	0 45	12 30	1 48	29 26	15 11	23 6	23 7	24 16		n.a.
S 9	5 5	13 51	2 42	0s23	1 21	12 16	0s 1	13 22	0 19	19 52	0 49	1 50	2 20	2 37	0 45	12 30	1 48	29 26	15 10	23 6	23 7	24 15		n.a.
S 10	5 29	8 29	3 39	1 7	1 16	12 45	0 4	13 37	0 20	19 50	0 49	1 48	2 20	2 38	0 45	12 31	1 48	29 26	15 10	23 6	23 8	24 14		n.a.
M11	5 53	2 46	4 22	1 52	1 10	13 13	0 7	13 53	0 20	19 49	0 49	1 45	2 20	2 39	0 45	12 32	1 48	29 26	15 10	23 7	23 8	24 13		n.a.
T 12	6 16	3s 1	4 49	2 36	1 4	13 40	0 9	14 8	0 21	19 47	0 50	1 42	2 20	2 40	0 45	12 33	1 47	29 26	15 10	23 8	23 8	24 12		n.a.
W13	6 40	8 34	5 0	3 21	0 58	14 8	0 12	14 24	0 22	19 45	0 50	1 39	2 20	2 41	0 45	12 33	1 47	29 25	15 9	23 9	23 9	24 11		n.a.
T 14	7 3	13 38	4 55	4 5	0 51	14 35	0 14	14 39	0 22	19 43	0 50	1 37	2 20	2 42	0 45	12 34	1 47	29 25	15 9	23 11	23 9	24 9		n.a.
F 15	7 26	17 59	4 34	4 49	0 45	15 2	0 17	14 54	0 23	19 42	0 50	1 34	2 20	2 42	0 45	12 35	1 47	29 25	15 9	23 12	23 9	24 8		n.a.
S 16	7 50	21 25	4 0	5 33	0 38	15 28	0 20	15 9	0 23	19 40	0 51	1 31	2 20	2 43	0 45	12 36	1 47	29 25	15 9	23 13	23 9	24 7		n.a.
S 17	8 13	23 47	3 16	6 16	0 32	15 54	0 22	15 24	0 24	19 38	0 51	1 28	2 20	2 44	0 45	12 36	1 47	29 25	15 8	23 13	23 10	24 6		n.a.
M18	8 36	25 0	2 23	6 59	0 25	16 20	0 25	15 39	0 25	19 37	0 51	1 26	2 20	2 45	0 45	12 37	1 47	29 25	15 8	23 14	23 10	24 5		n.a.
T 19	8 59	25 2	1 25	7 42	0 19	16 45	0 27	15 53	0 25	19 35	0 51	1 23	2 20	2 46	0 45	12 38	1 47	29 25	15 8	23 14	23 10	24 3		n.a.
W20	9 21	23 56	0 23	8 25	0 12	17 10	0 30	16 8	0 26	19 34	0 52	1 20	2 20	2 47	0 45	12 38	1 47	29 25	15 7	23 14	23 11	24 2		n.a.
T 21	9 44	21 46	0n39	9 7	0 6	17 34	0 32	16 22	0 27	19 32	0 52	1 18	2 20	2 47	0 45	12 39	1 47	29 25	15 7	23 14	23 11	24 1		n.a.
F 22	10 6	18 39	1 40	9 48	0s 1	17 58	0 35	16 37	0 27	19 31	0 52	1 15	2 21	2 48	0 45	12 40	1 47	29 24	15 7	23 14	23 11	24 0		n.a.
S 23	10 29	14 44	2 38	10 29	0 8	18 21	0 38	16 51	0 28	19 29	0 52	1 12	2 21	2 49	0 45	12 41	1 47	29 24	15 6	23 14	23 12	23 59		n.a.
S 24	10 51	10 9	3 30	11 10	0 14	18 44	0 40	17 5	0 28	19 28	0 52	1 10	2 21	2 50	0 45	12 41	1 47	29 24	15 6	23 15	23 12	23 57		n.a.
M25	11 13	5 2	4 12	11 50	0 21	19 6	0 43	17 18	0 29	19 26	0 53	1 7	2 21	2 50	0 45	12 42	1 47	29 24	15 6	23 15	23 12	23 56		n.a.
T 26	11 34	0n27	4 43	12 29	0 27	19 28	0 45	17 32	0 30	19 25	0 53	1 5	2 21	2 51	0 44	12 43	1 47	29 24	15 6	23 16	23 12	23 55		n.a.
W27	11 56	6 3	5 0	13 8	0 33	19 49	0 48	17 46	0 30	19 24	0 53	1 2	2 21	2 52	0 44	12 44	1 47	29 24	15 5	23 17	23 13	23 54		n.a.
T 28	12 17	11 32	5 0	13 47	0 40	20 10	0 50	17 59	0 31	19 23	0 53	0 59	2 21	2 53	0 44	12 44	1 47	29 23	15 5	23 18	23 13	23 52		n.a.
F 29	12 38	16 33	4 42	14 24	0 46	20 30	0 52	18 12	0 31	19 21	0 54	0 57	2 21	2 53	0 44	12 45	1 47	29 23	15 5	23 19	23 13	23 51		n.a.
S 30	12 59	20 43	4 6	15 1	0 52	20 50	0 55	18 25	0 32	19 20	0 54	0 54	2 21	2 54	0 44	12 46	1 47	29 23	15 4	23 19	23 13	23 50		n.a.
S 31	13s20	23n39	3n14	15s38	0s58	21s 9	0s57	18s38	0s33	19n19	0n54	0n52	2n22	2s55	0s44	12s47	1n47	29s23	15s 4	23s20	23s14	23s49		n.a.

Julian Day Number = 1659969.5, Delta T = 03h26m17s
Ecliptic obliquity = 23°42'59, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'26, Lahiri = - 6°16'25 Julian Calendar 1 Oct. 169 BCE == Greg. Calendar 28 Sept. 169 BCE

The year -168 astronomical counting style corresponds to year 169 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 169 BCE
geocentric

NOVEMBER 169 BCE (-168) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 28 0	6♏ 0'28	15♊ 4	10♏44	0♐29	21♏23	8♌13	3♎20	24°R25	8♏26	19°R26	9°R57	11♑15	7♑50	n.a.	M 1
T 2	2 31 57	7° 1'27	29°35	12°18	1°44	22° 8	8°17	3°26	24♓23	8°28	19♒26	9♑55	11°12	7°57	n.a.	T 2
W 3	2 35 53	8° 2'26	13♋58	13°52	2°58	22°53	8°22	3°33	24°22	8°30	19°26	9°D54	11° 9	8° 3	n.a.	W 3
T 4	2 39 50	9° 3'28	28°10	15°25	4°13	23°39	8°27	3°39	24°20	8°33	19°26	9°55	11° 6	8°10	n.a.	T 4
F 5	2 43 46	10° 4'30	12♌10	16°59	5°27	24°25	8°31	3°45	24°19	8°35	19°26	9°R55	11° 2	8°17	n.a.	F 5
S 6	2 47 43	11° 5'34	25°58	18°33	6°42	25°10	8°35	3°51	24°17	8°37	19°D26	9°54	10°59	8°23	n.a.	S 6
S 7	2 51 39	12° 6'38	9♍34	20° 7	7°56	25°56	8°39	3°58	24°16	8°39	19°26	9°51	10°56	8°30	n.a.	S 7
M 8	2 55 36	13° 7'44	22°58	21°40	9°11	26°42	8°43	4° 4	24°14	8°42	19°26	9°45	10°53	8°37	n.a.	M 8
T 9	2 59 32	14° 8'51	6♎11	23°14	10°25	27°27	8°47	4°10	24°13	8°44	19°26	9°37	10°50	8°43	n.a.	T 9
W10	3 3 29	15° 9'59	19°11	24°48	11°40	28°13	8°50	4°16	24°12	8°46	19°26	9°27	10°46	8°50	n.a.	W10
T 11	3 7 26	16°11'08	2♏ 0	26°21	12°55	28°59	8°53	4°22	24°10	8°48	19°26	9°17	10°43	8°57	n.a.	T 11
F 12	3 11 22	17°12'18	14°36	27°55	14° 9	29°45	8°57	4°28	24° 9	8°51	19°26	9° 7	10°40	9° 3	n.a.	F 12
S 13	3 15 19	18°13'29	26°59	29°29	15°23	0♐31	9° 0	4°34	24° 8	8°53	19°26	8°58	10°37	9°10	n.a.	S 13
S 14	3 19 15	19°14'40	9♐10	1♐ 2	16°38	1°17	9° 2	4°39	24° 7	8°55	19°26	8°51	10°34	9°16	n.a.	S 14
M15	3 23 12	20°15'52	21°10	2°36	17°52	2° 3	9° 5	4°45	24° 6	8°57	19°26	8°47	10°31	9°23	n.a.	M15
T 16	3 27 8	21°17'05	3♑ 2	4° 9	19° 7	2°49	9° 7	4°51	24° 5	9° 0	19°27	8°45	10°27	9°30	n.a.	T 16
W17	3 31 5	22°18'18	14°49	5°42	20°21	3°35	9° 9	4°56	24° 4	9° 2	19°27	8°D45	10°24	9°36	n.a.	W17
T 18	3 35 1	23°19'31	26°35	7°15	21°36	4°22	9°11	5° 2	24° 3	9° 4	19°27	8°46	10°21	9°43	n.a.	T 18
F 19	3 38 58	24°20'44	8♒25	8°47	22°50	5° 8	9°13	5° 8	24° 2	9° 6	19°28	8°48	10°18	9°50	n.a.	F 19
S 20	3 42 55	25°21'58	20°24	10°19	24° 4	5°54	9°15	5°13	24° 1	9° 9	19°28	8°R49	10°15	9°56	n.a.	S 20
S 21	3 46 51	26°23'11	2♓36	11°51	25°19	6°40	9°16	5°18	24° 0	9°11	19°28	8°49	10°12	10° 3	n.a.	S 21
M22	3 50 48	27°24'25	15° 8	13°22	26°33	7°27	9°18	5°24	24° 0	9°13	19°29	8°47	10° 8	10°10	n.a.	M22
T 23	3 54 44	28°25'39	28° 4	14°51	27°47	8°13	9°19	5°29	23°59	9°15	19°29	8°44	10° 5	10°16	n.a.	T 23
W24	3 58 41	29°26'52	11♈26	16°20	29° 1	8°59	9°19	5°34	23°58	9°17	19°29	8°39	10° 2	10°23	n.a.	W24
T 25	4 2 37	0♐28'06	25°16	17°48	0♑16	9°46	9°20	5°39	23°58	9°19	19°30	8°33	9°59	10°30	n.a.	T 25
F 26	4 6 34	1°29'20	9♉32	19°14	1°30	10°32	9°21	5°44	23°57	9°21	19°30	8°26	9°56	10°36	n.a.	F 26
S 27	4 10 30	2°30'34	24°10	20°39	2°44	11°19	9°21	5°49	23°57	9°24	19°31	8°21	9°52	10°43	n.a.	S 27
S 28	4 14 27	3°31'48	9♊ 3	22° 1	3°58	12° 5	9°R21	5°54	23°56	9°26	19°31	8°16	9°49	10°49	n.a.	S 28
M29	4 18 24	4°33'03	24° 3	23°21	5°12	12°52	9°21	5°59	23°56	9°28	19°32	8°14	9°46	10°56	n.a.	M29
T 30	4 22 20	5♐34'17	9♋ 0	24♐37	6♑26	13♐39	9♌21	6♎ 4	23♓55	9♏30	19♒32	8°D13	9♑43	11♑ 3	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13s41	25n 0	2n 8	16s13	1s 4	21s27	0s59	18s51	0s33	19n18	0n54	0n49	2n22	2s55	0s44	12s47	1n47	29s22	15s 4	23s20	23s14	23s47		n.a.
T 2	14 1	24 38	0 55	16 48	1 9	21 45	1 2	19 3	0 34	19 17	0 55	0 47	2 22	2 56	0 44	12 48	1 47	29 22	15 3	23 20	23 14	23 46		n.a.
W 3	14 21	22 37	0s22	17 22	1 15	22 2	1 4	19 16	0 34	19 16	0 55	0 45	2 22	2 56	0 44	12 49	1 47	29 22	15 3	23 20	23 15	23 45		n.a.
T 4	14 41	19 12	1 36	17 56	1 20	22 19	1 6	19 28	0 35	19 15	0 55	0 42	2 22	2 57	0 44	12 49	1 47	29 22	15 3	23 20	23 15	23 43		n.a.
F 5	15 0	14 44	2 44	18 28	1 26	22 35	1 8	19 40	0 35	19 14	0 56	0 40	2 22	2 58	0 44	12 50	1 47	29 21	15 2	23 20	23 15	23 42		n.a.
S 6	15 20	9 33	3 41	19 0	1 31	22 50	1 11	19 52	0 36	19 13	0 56	0 37	2 22	2 58	0 44	12 51	1 47	29 21	15 2	23 20	23 15	23 41		n.a.
S 7	15 39	4 0	4 24	19 31	1 36	23 5	1 13	20 3	0 37	19 12	0 56	0 35	2 23	2 59	0 44	12 52	1 47	29 21	15 2	23 21	23 16	23 40		n.a.
M 8	15 58	1s39	4 53	20 0	1 40	23 19	1 15	20 15	0 37	19 12	0 56	0 33	2 23	2 59	0 44	12 52	1 47	29 20	15 1	23 21	23 16	23 38		n.a.
T 9	16 16	7 8	5 5	20 29	1 45	23 32	1 17	20 26	0 38	19 11	0 57	0 30	2 23	3 0	0 44	12 53	1 47	29 20	15 1	23 22	23 16	23 37		n.a.
W10	16 34	12 14	5 1	20 57	1 49	23 45	1 19	20 37	0 38	19 10	0 57	0 28	2 23	3 0	0 44	12 54	1 47	29 20	15 1	23 22	23 16	23 36		n.a.
T 11	16 52	16 42	4 42	21 23	1 53	23 57	1 21	20 48	0 39	19 10	0 57	0 26	2 23	3 1	0 44	12 55	1 47	29 19	15 0	23 23	23 17	23 34		n.a.
F 12	17 10	20 22	4 10	21 49	1 57	24 8	1 23	20 58	0 39	19 9	0 57	0 24	2 23	3 1	0 44	12 55	1 47	29 19	15 0	23 24	23 17	23 33		n.a.
S 13	17 27	23 2	3 26	22 13	2 0	24 18	1 25	21 9	0 40	19 9	0 58	0 22	2 23	3 2	0 44	12 56	1 47	29 19	15 0	23 25	23 17	23 32		n.a.
S 14	17 44	24 36	2 33	22 36	2 3	24 28	1 26	21 19	0 40	19 8	0 58	0 19	2 24	3 2	0 44	12 57	1 47	29 18	14 59	23 25	23 17	23 30		n.a.
M15	18 1	24 58	1 34	22 58	2 6	24 37	1 28	21 29	0 41	19 8	0 58	0 17	2 24	3 2	0 44	12 57	1 47	29 18	14 59	23 25	23 18	23 29		n.a.
T 16	18 17	24 12	0 31	23 19	2 8	24 45	1 30	21 38	0 41	19 7	0 58	0 15	2 24	3 3	0 44	12 58	1 47	29 18	14 59	23 25	23 18	23 27		n.a.
W17	18 33	22 20	0n33	23 38	2 10	24 53	1 31	21 48	0 42	19 7	0 59	0 13	2 24	3 3	0 44	12 59	1 47	29 17	14 58	23 25	23 18	23 26		n.a.
T 18	18 49	19 31	1 35	23 56	2 12	25 0	1 33	21 57	0 42	19 7	0 59	0 11	2 24	3 4	0 44	13 0	1 47	29 17	14 58	23 25	23 18	23 25		n.a.
F 19	19 5	15 53	2 34	24 12	2 13	25 6	1 34	22 6	0 43	19 6	0 59	0 9	2 25	3 4	0 44	13 0	1 47	29 16	14 58	23 25	23 19	23 23		n.a.
S 20	19 20	11 35	3 27	24 27	2 13	25 11	1 36	22 15	0 43	19 6	1 0	0 7	2 25	3 4	0 44	13 1	1 47	29 16	14 57	23 25	23 19	23 22		n.a.
S 21	19 34	6 46	4 11	24 40	2 14	25 15	1 37	22 24	0 44	19 6	1 0	0 5	2 25	3 4	0 44	13 2	1 47	29 15	14 57	23 25	23 19	23 21		n.a.
M22	19 48	1 33	4 45	24 52	2 13	25 19	1 39	22 32	0 44	19 6	1 0	0 3	2 25	3 5	0 44	13 2	1 47	29 15	14 57	23 25	23 19	23 19		n.a.
T 23	20 2	3n53	5 6	25 2	2 12	25 22	1 40	22 40	0 45	19 6	1 0	0 1	2 25	3 5	0 44	13 3	1 47	29 15	14 56	23 25	23 20	23 18		n.a.
W24	20 16	9 19	5 11	25 10	2 11	25 24	1 41	22 48	0 45	19 6	1 1	0s 1	2 25	3 5	0 44	13 4	1 47	29 14	14 56	23 26	23 20	23 16		n.a.
T 25	20 29	14 30	4 58	25 17	2 9	25 25	1 42	22 56	0 46	19 6	1 1	0 3	2 26	3 5	0 43	13 4	1 47	29 14	14 56	23 26	23 20	23 15		n.a.
F 26	20 42	19 2	4 27	25 22	2 6	25 26	1 43	23 3	0 46	19 6	1 1	0 5	2 26	3 6	0 43	13 5	1 47	29 13	14 56	23 27	23 20	23 14		n.a.
S 27	20 54	22 32	3 37	25 25	2 2	25 26	1 44	23 10	0 47	19 7	1 2	0 6	2 26	3 6	0 43	13 6	1 47	29 13	14 55	23 27	23 21	23 12		n.a.
S 28	21 6	24 35	2 33	25 26	1 58	25 25	1 45	23 17	0 47	19 7	1 2	0 8	2 26	3 6	0 43	13 6	1 47	29 12	14 55	23 27	23 21	23 11		n.a.
M29	21 18	24 52	1 17	25 25	1 52	25 23	1 46	23 24	0 48	19 7	1 2	0 10	2 26	3 6	0 43	13 7	1 47	29 12	14 55	23 27	23 21	23 9		n.a.
T 30	21s29	23n20	0s 4	25s22	1s46	25s20	1s47	23s30	0s48	19n 7	1n 2	0s12	2n27	3s 6	0s43	13s 8	1n47	29s11	14s54	23s27	23s21	23s 8		n.a.

Julian Day Number = 1660000.5, Delta T = 03h26m16s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'22, Lahiri = - 6°16'21 Julian Calendar 1 Nov. 169 BCE == Greg. Calendar 29 Oct. 169 BCE

The year -168 astronomical counting style corresponds to year 169 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 169 BCE
geocentric

DECEMBER 169 BCE (-168) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 26 17	6♐35'32	23♋47	25♐50	7♑40	14♐25	9°R20	6♎ 8	23°R55	9♏32	19♒33	8♑14	9♑40	11♑ 9	n.a.	W 1
T 2	4 30 13	7°36'47	8♌19	26°59	8°54	15°12	9♌19	6°13	23♓55	9°34	19°34	8°15	9°37	11°16	n.a.	T 2
F 3	4 34 10	8°38'02	22°32	28° 3	10° 8	15°59	9°18	6°18	23°55	9°36	19°34	8°17	9°33	11°23	n.a.	F 3
S 4	4 38 6	9°39'17	6♍25	29° 2	11°22	16°45	9°17	6°22	23°55	9°38	19°35	8°R18	9°30	11°29	n.a.	S 4
S 5	4 42 3	10°40'32	19°58	29°54	12°36	17°32	9°16	6°26	23°55	9°40	19°36	8°17	9°27	11°36	n.a.	S 5
M 6	4 46 0	11°41'47	3♎12	0♑39	13°50	18°19	9°15	6°31	23°D55	9°42	19°36	8°16	9°24	11°43	n.a.	M 6
T 7	4 49 56	12°43'03	16° 9	1°16	15° 4	19° 6	9°13	6°35	23°55	9°44	19°37	8°13	9°21	11°49	n.a.	T 7
W 8	4 53 53	13°44'18	28°51	1°44	16°17	19°53	9°11	6°39	23°55	9°46	19°38	8° 9	9°18	11°56	n.a.	W 8
T 9	4 57 49	14°45'34	11♏20	2° 2	17°31	20°40	9° 9	6°43	23°55	9°48	19°39	8° 5	9°14	12° 3	n.a.	T 9
F 10	5 1 46	15°46'49	23°38	2°R10	18°45	21°27	9° 7	6°47	23°55	9°50	19°39	8° 1	9°11	12° 9	n.a.	F 10
S 11	5 5 42	16°48'04	5♐46	2° 6	19°58	22°13	9° 4	6°51	23°55	9°52	19°40	7°58	9° 8	12°16	n.a.	S 11
S 12	5 9 39	17°49'19	17°46	1°50	21°12	23° 0	9° 2	6°55	23°56	9°54	19°41	7°55	9° 5	12°23	n.a.	S 12
M13	5 13 35	18°50'33	29°39	1°22	22°26	23°47	8°59	6°59	23°56	9°56	19°42	7°54	9° 2	12°29	n.a.	M13
T 14	5 17 32	19°51'46	11♑28	0°43	23°39	24°35	8°56	7° 2	23°56	9°58	19°43	7°D54	8°58	12°36	n.a.	T 14
W15	5 21 29	20°52'59	23°14	29♐53	24°53	25°22	8°53	7° 6	23°57	9°59	19°44	7°55	8°55	12°42	n.a.	W15
T 16	5 25 25	21°54'12	5♒ 1	28°54	26° 6	26° 9	8°49	7° 9	23°57	10° 1	19°45	7°56	8°52	12°49	n.a.	T 16
F 17	5 29 22	22°55'23	16°53	27°47	27°20	26°56	8°46	7°13	23°58	10° 3	19°46	7°57	8°49	12°56	n.a.	F 17
S 18	5 33 18	23°56'33	28°52	26°34	28°33	27°43	8°42	7°16	23°58	10° 5	19°47	7°59	8°46	13° 2	n.a.	S 18
S 19	5 37 15	24°57'43	11♓ 3	25°17	29°46	28°30	8°38	7°19	23°59	10° 6	19°48	8° 0	8°43	13° 9	n.a.	S 19
M20	5 41 11	25°58'51	23°31	23°59	0♒59	29°17	8°34	7°22	24° 0	10° 8	19°49	8°R 0	8°39	13°16	n.a.	M20
T 21	5 45 8	26°59'59	6♈20	22°42	2°13	0♑ 4	8°30	7°25	24° 1	10°10	19°50	8° 0	8°36	13°22	n.a.	T 21
W22	5 49 5	28° 1'05	19°34	21°29	3°26	0°51	8°25	7°28	24° 1	10°12	19°51	7°59	8°33	13°29	n.a.	W22
T 23	5 53 1	29° 2'10	3♉15	20°20	4°39	1°39	8°21	7°31	24° 2	10°13	19°52	7°58	8°30	13°36	n.a.	T 23
F 24	5 56 58	0♑ 3'14	17°24	19°19	5°52	2°26	8°16	7°33	24° 3	10°15	19°53	7°57	8°27	13°42	n.a.	F 24
S 25	6 0 54	1° 4'18	1♊58	18°26	7° 5	3°13	8°11	7°36	24° 4	10°16	19°54	7°56	8°24	13°49	n.a.	S 25
S 26	6 4 51	2° 5'20	16°54	17°41	8°18	4° 0	8° 6	7°39	24° 5	10°18	19°55	7°56	8°20	13°56	n.a.	S 26
M27	6 8 47	3° 6'21	2♋ 4	17° 5	9°30	4°48	8° 1	7°41	24° 6	10°20	19°56	7°D56	8°17	14° 2	n.a.	M27
T 28	6 12 44	4° 7'20	17°17	16°38	10°43	5°35	7°55	7°43	24° 7	10°21	19°57	7°56	8°14	14° 9	n.a.	T 28
W29	6 16 40	5° 8'19	2♌26	16°20	11°56	6°22	7°50	7°46	24° 8	10°23	19°58	7°56	8°11	14°16	n.a.	W29
T 30	6 20 37	6° 9'17	17°19	16°11	13° 8	7° 9	7°44	7°48	24°10	10°24	20° 0	7°56	8° 8	14°22	n.a.	T 30
F 31	6 24 34	7♑10'14	1♍52	16°D 9	14♒21	7♑57	7♌38	7♎50	24♓11	10♏26	20♒ 1	7♑56	8♑ 4	14♑29	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
W 1	21 s40	20n13	1 s24	25 s18	1 s39	25 s17	1 s48	23 s36	0 s49	19n 8	1n 3	0 s13	2n27	3 s 6	0 s43	13 s 8	1n47	29 s11	14 s54	23 s27	23 s22	23 s 6		n.a.	W 1
T 2	21 50	15 52	2 38	25 11	1 31	25 13	1 48	23 42	0 49	19 8	1 3	0 15	2 27	3 6	0 43	13 9	1 47	29 10	14 54	23 27	23 22	23 5		n.a.	T 2
F 3	22 0	10 42	3 40	25 3	1 21	25 8	1 49	23 47	0 50	19 9	1 3	0 17	2 27	3 6	0 43	13 10	1 47	29 10	14 53	23 27	23 22	23 4		n.a.	F 3
S 4	22 9	5 8	4 27	24 54	1 11	25 2	1 49	23 53	0 50	19 9	1 4	0 18	2 28	3 6	0 43	13 10	1 47	29 9	14 53	23 27	23 22	23 2		n.a.	S 4
S 5	22 18	0 s33	4 58	24 42	0 59	24 56	1 50	23 58	0 50	19 10	1 4	0 20	2 28	3 6	0 43	13 11	1 48	29 9	14 53	23 27	23 22	23 1		n.a.	S 5
M 6	22 27	6 4	5 13	24 29	0 46	24 49	1 50	24 2	0 51	19 11	1 4	0 21	2 28	3 6	0 43	13 11	1 48	29 8	14 52	23 27	23 23	22 59		n.a.	M 6
T 7	22 35	11 12	5 11	24 15	0 32	24 41	1 50	24 7	0 51	19 11	1 4	0 23	2 28	3 6	0 43	13 12	1 48	29 8	14 52	23 27	23 23	22 58		n.a.	T 7
W 8	22 43	15 45	4 54	23 59	0 17	24 32	1 50	24 11	0 52	19 12	1 5	0 24	2 28	3 6	0 43	13 13	1 48	29 7	14 52	23 28	23 23	22 56		n.a.	W 8
T 9	22 50	19 34	4 23	23 43	0 1	24 23	1 50	24 15	0 52	19 13	1 5	0 26	2 29	3 6	0 43	13 13	1 48	29 7	14 52	23 28	23 23	22 55		n.a.	T 9
F 10	22 57	22 27	3 41	23 25	0n17	24 13	1 50	24 19	0 53	19 14	1 5	0 27	2 29	3 6	0 43	13 14	1 48	29 6	14 51	23 28	23 24	22 53		n.a.	F 10
S 11	23 3	24 16	2 48	23 7	0 35	24 2	1 50	24 22	0 53	19 15	1 5	0 28	2 29	3 6	0 43	13 14	1 48	29 6	14 51	23 28	23 24	22 52		n.a.	S 11
S 12	23 9	24 57	1 49	22 48	0 54	23 50	1 50	24 25	0 53	19 16	1 6	0 30	2 29	3 6	0 43	13 15	1 48	29 5	14 51	23 29	23 24	22 50		n.a.	S 12
M13	23 14	24 28	0 45	22 29	1 13	23 38	1 50	24 28	0 54	19 17	1 6	0 31	2 30	3 5	0 43	13 15	1 48	29 5	14 50	23 29	23 24	22 49		n.a.	M13
T 14	23 19	22 53	0n20	22 10	1 33	23 25	1 50	24 30	0 54	19 18	1 6	0 32	2 30	3 5	0 43	13 16	1 48	29 4	14 50	23 29	23 24	22 47		n.a.	T 14
W15	23 24	20 19	1 24	21 51	1 52	23 11	1 49	24 32	0 54	19 19	1 7	0 33	2 30	3 5	0 43	13 17	1 48	29 3	14 50	23 29	23 25	22 46		n.a.	W15
T 16	23 28	16 53	2 25	21 33	2 10	22 57	1 49	24 34	0 55	19 20	1 7	0 34	2 30	3 5	0 43	13 17	1 48	29 3	14 50	23 29	23 25	22 44		n.a.	T 16
F 17	23 31	12 47	3 20	21 14	2 27	22 42	1 48	24 36	0 55	19 21	1 7	0 35	2 31	3 4	0 43	13 18	1 48	29 2	14 49	23 28	23 25	22 43		n.a.	F 17
S 18	23 35	8 9	4 7	20 57	2 43	22 26	1 47	24 37	0 56	19 23	1 7	0 37	2 31	3 4	0 43	13 18	1 48	29 2	14 49	23 28	23 25	22 41		n.a.	S 18
S 19	23 37	3 9	4 43	20 41	2 57	22 10	1 47	24 38	0 56	19 24	1 8	0 38	2 31	3 4	0 42	13 19	1 48	29 1	14 49	23 28	23 26	22 40		n.a.	S 19
M20	23 39	2n 6	5 8	20 26	3 9	21 53	1 46	24 39	0 56	19 25	1 8	0 39	2 31	3 4	0 42	13 19	1 48	29 1	14 49	23 28	23 26	22 38		n.a.	M20
T 21	23 41	7 23	5 17	20 13	3 18	21 36	1 45	24 40	0 57	19 27	1 8	0 40	2 32	3 3	0 42	13 20	1 48	29 0	14 48	23 28	23 26	22 37		n.a.	T 21
W22	23 42	12 32	5 11	20 2	3 25	21 18	1 44	24 40	0 57	19 28	1 8	0 40	2 32	3 3	0 42	13 20	1 48	28 59	14 48	23 28	23 26	22 35		n.a.	W22
T 23	23 43	17 14	4 47	19 53	3 29	20 59	1 43	24 40	0 57	19 29	1 9	0 41	2 32	3 2	0 42	13 21	1 48	28 59	14 48	23 28	23 26	22 33		n.a.	T 23
F 24	23 43	21 8	4 6	19 46	3 31	20 40	1 41	24 39	0 58	19 31	1 9	0 42	2 32	3 2	0 42	13 21	1 48	28 58	14 48	23 28	23 27	22 32		n.a.	F 24
S 25	23 43	23 51	3 7	19 42	3 31	20 20	1 40	24 39	0 58	19 32	1 9	0 43	2 33	3 2	0 42	13 22	1 48	28 58	14 47	23 28	23 27	22 30		n.a.	S 25
S 26	23 42	24 58	1 54	19 40	3 29	19 59	1 39	24 38	0 58	19 34	1 9	0 44	2 33	3 1	0 42	13 22	1 48	28 57	14 47	23 29	23 27	22 29		n.a.	S 26
M27	23 41	24 15	0 33	19 41	3 25	19 38	1 37	24 36	0 59	19 36	1 10	0 44	2 33	3 1	0 42	13 22	1 48	28 56	14 47	23 29	23 27	22 27		n.a.	M27
T 28	23 39	21 44	0 s52	19 44	3 20	19 17	1 36	24 35	0 59	19 37	1 10	0 45	2 33	3 0	0 42	13 23	1 48	28 56	14 47	23 29	23 27	22 26		n.a.	T 28
W29	23 37	17 42	2 12	19 48	3 13	18 55	1 34	24 33	0 59	19 39	1 10	0 46	2 34	3 0	0 42	13 23	1 48	28 55	14 46	23 29	23 28	22 24		n.a.	W29
T 30	23 34	12 37	3 22	19 55	3 6	18 32	1 32	24 31	1 0	19 41	1 10	0 46	2 34	2 59	0 42	13 24	1 48	28 55	14 46	23 29	23 28	22 22		n.a.	T 30
F 31	23 s31	6n56	4 s17	20 s 3	2n57	18 s 9	1 s30	24 s28	1 s 0	19n42	1n11	0 s47	2n34	2 s59	0 s42	13 s24	1n48	28 s54	14 s46	23 s28	23 s28	22 s21		n.a.	F 31

Julian Day Number = 1660030.5, Delta T = 03h26m15s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'18, Lahiri = - 6°16'17 Julian Calendar 1 Dec. 169 BCE == Greg. Calendar 28 Nov. 169 BCE

The year -168 astronomical counting style corresponds to year 169 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 168 BCE
geocentric

JANUARY 168 BCE (-167) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 28 30	8♑11'10	16♍ 0	16♐16	15♒33	8♑44	7°R32	7♎52	24♓12	10♏27	20♒ 2	7°R56	8♑ 1	14♑35	n.a.	S 1
S 2	6 32 27	9°12'05	29°41	16°29	16°45	9°31	7♌26	7°54	24°14	10°28	20° 3	7♑56	7°58	14°42	n.a.	S 2
M 3	6 36 23	10°12'59	12♎57	16°49	17°58	10°19	7°20	7°55	24°15	10°30	20° 5	7°D56	7°55	14°49	n.a.	M 3
T 4	6 40 20	11°13'52	25°51	17°15	19°10	11° 6	7°14	7°57	24°16	10°31	20° 6	7°56	7°52	14°55	n.a.	T 4
W 5	6 44 16	12°14'45	8♏25	17°46	20°22	11°53	7° 7	7°58	24°18	10°32	20° 7	7°57	7°49	15° 2	n.a.	W 5
T 6	6 48 13	13°15'36	20°43	18°22	21°34	12°41	7° 1	8° 0	24°19	10°34	20° 8	7°57	7°45	15° 9	n.a.	T 6
F 7	6 52 9	14°16'26	2♐48	19° 3	22°46	13°28	6°54	8° 1	24°21	10°35	20°10	7°58	7°42	15°15	n.a.	F 7
S 8	6 56 6	15°17'15	14°45	19°49	23°58	14°15	6°47	8° 2	24°23	10°36	20°11	7°58	7°39	15°22	n.a.	S 8
S 9	7 0 3	16°18'02	26°36	20°38	25° 9	15° 3	6°40	8° 4	24°24	10°37	20°12	7°59	7°36	15°29	n.a.	S 9
M10	7 3 59	17°18'48	8♑24	21°30	26°21	15°50	6°33	8° 5	24°26	10°39	20°14	7°R59	7°33	15°35	n.a.	M10
T 11	7 7 56	18°19'33	20°11	22°26	27°33	16°38	6°26	8° 5	24°28	10°40	20°15	7°59	7°30	15°42	n.a.	T 11
W12	7 11 52	19°20'16	2♒ 0	23°25	28°44	17°25	6°19	8° 6	24°30	10°41	20°16	7°58	7°26	15°49	n.a.	W12
T 13	7 15 49	20°20'58	13°51	24°26	29°56	18°12	6°12	8° 7	24°32	10°42	20°18	7°57	7°23	15°55	n.a.	T 13
F 14	7 19 45	21°21'38	25°49	25°30	1♓ 7	19° 0	6° 4	8° 8	24°34	10°43	20°19	7°55	7°20	16° 2	n.a.	F 14
S 15	7 23 42	22°22'16	7♓54	26°36	2°18	19°47	5°57	8° 8	24°35	10°44	20°21	7°52	7°17	16° 9	n.a.	S 15
S 16	7 27 38	23°22'52	20°10	27°45	3°29	20°34	5°49	8° 9	24°37	10°45	20°22	7°50	7°14	16°15	n.a.	S 16
M17	7 31 35	24°23'27	2♈40	28°55	4°40	21°22	5°42	8° 9	24°40	10°46	20°23	7°48	7°10	16°22	n.a.	M17
T 18	7 35 32	25°23'59	15°27	0♑ 7	5°51	22° 9	5°34	8° 9	24°42	10°47	20°25	7°47	7° 7	16°28	n.a.	T 18
W19	7 39 28	26°24'30	28°34	1°21	7° 1	22°57	5°27	8°R 9	24°44	10°48	20°26	7°D47	7° 4	16°35	n.a.	W19
T 20	7 43 25	27°24'59	12♉ 3	2°37	8°12	23°44	5°19	8° 9	24°46	10°48	20°28	7°47	7° 1	16°42	n.a.	T 20
F 21	7 47 21	28°25'25	25°58	3°54	9°22	24°31	5°11	8° 9	24°48	10°49	20°29	7°49	6°58	16°48	n.a.	F 21
S 22	7 51 18	29°25'50	10♊17	5°13	10°33	25°19	5° 3	8° 9	24°50	10°50	20°31	7°50	6°55	16°55	n.a.	S 22
S 23	7 55 14	0♒26'13	24°59	6°33	11°43	26° 6	4°55	8° 8	24°53	10°51	20°32	7°51	6°51	17° 2	n.a.	S 23
M24	7 59 11	1°26'33	9♋59	7°55	12°53	26°53	4°48	8° 8	24°55	10°52	20°34	7°R52	6°48	17° 8	n.a.	M24
T 25	8 3 8	2°26'52	25°10	9°17	14° 3	27°41	4°40	8° 7	24°57	10°52	20°35	7°51	6°45	17°15	n.a.	T 25
W26	8 7 4	3°27'09	10♌22	10°42	15°12	28°28	4°32	8° 7	25° 0	10°53	20°37	7°49	6°42	17°22	n.a.	W26
T 27	8 11 1	4°27'23	25°26	12° 7	16°22	29°15	4°24	8° 6	25° 2	10°54	20°38	7°46	6°39	17°28	n.a.	T 27
F 28	8 14 57	5°27'36	10♍12	13°33	17°31	0♒ 2	4°16	8° 5	25° 5	10°54	20°40	7°42	6°36	17°35	n.a.	F 28
S 29	8 18 54	6°27'48	24°34	15° 1	18°41	0°50	4° 8	8° 4	25° 7	10°55	20°41	7°37	6°32	17°42	n.a.	S 29
S 30	8 22 50	7°27'57	8♎28	16°30	19°50	1°37	4° 0	8° 3	25°10	10°55	20°43	7°34	6°29	17°48	n.a.	S 30
M31	8 26 47	8♒28'05	21♎53	18♑ 0	20♓59	2♒24	3♌53	8♎ 2	25♓12	10♏56	20♒44	7♑31	6♑26	17♑55	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s28	1n 3	4s55	20s13	2n48	17s46	1s29	24s25	1s 0	19n44	1n11	0s48	2n35	2s58	0s42	13s25	1n49	28s53	14s46	23s28	23s28	22s19		n.a.
S 2	23 24	4s41	5 15	20 23	2 39	17 22	1 27	24 22	1 0	19 46	1 11	0 48	2 35	2 58	0 42	13 25	1 49	28 53	14 46	23 28	23 28	22 18		n.a.
M 3	23 19	10 2	5 17	20 35	2 29	16 58	1 24	24 19	1 1	19 48	1 11	0 48	2 35	2 57	0 42	13 25	1 49	28 52	14 45	23 28	23 29	22 16		n.a.
T 4	23 14	14 47	5 3	20 48	2 19	16 33	1 22	24 15	1 1	19 50	1 11	0 49	2 35	2 56	0 42	13 26	1 49	28 52	14 45	23 28	23 29	22 14		n.a.
W 5	23 9	18 47	4 34	21 1	2 8	16 8	1 20	24 12	1 1	19 52	1 12	0 49	2 36	2 56	0 42	13 26	1 49	28 51	14 45	23 28	23 29	22 13		n.a.
T 6	23 3	21 53	3 54	21 15	1 58	15 42	1 18	24 7	1 1	19 53	1 12	0 50	2 36	2 55	0 42	13 26	1 49	28 50	14 45	23 28	23 29	22 11		n.a.
F 7	22 56	23 58	3 4	21 29	1 47	15 16	1 15	24 3	1 2	19 55	1 12	0 50	2 36	2 54	0 42	13 27	1 49	28 50	14 45	23 28	23 29	22 9		n.a.
S 8	22 50	24 55	2 6	21 43	1 37	14 50	1 13	23 58	1 2	19 57	1 12	0 50	2 36	2 54	0 42	13 27	1 49	28 49	14 44	23 28	23 30	22 8		n.a.
S 9	22 42	24 43	1 3	21 57	1 26	14 23	1 10	23 53	1 2	19 59	1 12	0 50	2 37	2 53	0 42	13 27	1 49	28 48	14 44	23 28	23 30	22 6		n.a.
M10	22 35	23 24	0n 2	22 11	1 16	13 56	1 7	23 48	1 2	20 1	1 13	0 50	2 37	2 52	0 42	13 28	1 49	28 48	14 44	23 28	23 30	22 5		n.a.
T 11	22 27	21 4	1 7	22 24	1 5	13 29	1 5	23 42	1 3	20 3	1 13	0 51	2 37	2 51	0 42	13 28	1 49	28 47	14 44	23 28	23 30	22 3		n.a.
W12	22 18	17 51	2 9	22 38	0 55	13 1	1 2	23 36	1 3	20 5	1 13	0 51	2 38	2 51	0 42	13 28	1 49	28 47	14 44	23 28	23 30	22 1		n.a.
T 13	22 9	13 53	3 6	22 51	0 45	12 33	0 59	23 30	1 3	20 7	1 13	0 51	2 38	2 50	0 42	13 29	1 49	28 46	14 44	23 28	23 30	22 0		n.a.
F 14	22 0	9 22	3 55	23 3	0 35	12 4	0 56	23 24	1 3	20 9	1 13	0 51	2 38	2 49	0 41	13 29	1 49	28 45	14 44	23 29	23 31	21 58		n.a.
S 15	21 50	4 28	4 34	23 14	0 26	11 36	0 53	23 17	1 3	20 11	1 14	0 51	2 38	2 48	0 41	13 29	1 49	28 45	14 43	23 29	23 31	21 56		n.a.
S 16	21 40	0n41	5 2	23 25	0 16	11 7	0 50	23 10	1 3	20 13	1 14	0 50	2 39	2 48	0 41	13 29	1 49	28 44	14 43	23 29	23 31	21 55		n.a.
M17	21 29	5 53	5 15	23 35	0 7	10 38	0 46	23 3	1 4	20 15	1 14	0 50	2 39	2 47	0 41	13 30	1 49	28 44	14 43	23 29	23 31	21 53		n.a.
T 18	21 18	10 57	5 14	23 45	0s 2	10 8	0 43	22 55	1 4	20 17	1 14	0 50	2 39	2 46	0 41	13 30	1 49	28 43	14 43	23 29	23 31	21 51		n.a.
W19	21 7	15 41	4 56	23 53	0 10	9 39	0 40	22 47	1 4	20 20	1 14	0 50	2 39	2 45	0 41	13 30	1 49	28 42	14 43	23 29	23 31	21 50		n.a.
T 20	20 55	19 46	4 22	24 0	0 19	9 9	0 36	22 39	1 4	20 22	1 14	0 50	2 40	2 44	0 41	13 30	1 50	28 42	14 43	23 29	23 32	21 48		n.a.
F 21	20 43	22 53	3 31	24 6	0 27	8 39	0 33	22 31	1 4	20 24	1 14	0 49	2 40	2 43	0 41	13 31	1 50	28 41	14 43	23 29	23 32	21 46		n.a.
S 22	20 30	24 40	2 27	24 12	0 35	8 9	0 29	22 23	1 4	20 26	1 15	0 49	2 40	2 42	0 41	13 31	1 50	28 41	14 43	23 29	23 32	21 44		n.a.
S 23	20 17	24 48	1 11	24 16	0 43	7 39	0 26	22 14	1 5	20 28	1 15	0 49	2 40	2 41	0 41	13 31	1 50	28 40	14 42	23 29	23 32	21 43		n.a.
M24	20 4	23 8	0s12	24 19	0 50	7 8	0 22	22 5	1 5	20 30	1 15	0 48	2 41	2 40	0 41	13 31	1 50	28 39	14 42	23 29	23 32	21 41		n.a.
T 25	19 50	19 48	1 34	24 20	0 57	6 37	0 18	21 55	1 5	20 32	1 15	0 48	2 41	2 39	0 41	13 31	1 50	28 39	14 42	23 29	23 32	21 39		n.a.
W26	19 36	15 7	2 50	24 20	1 4	6 7	0 14	21 46	1 5	20 34	1 15	0 47	2 41	2 38	0 41	13 31	1 50	28 38	14 42	23 29	23 33	21 38		n.a.
T 27	19 22	9 33	3 53	24 20	1 10	5 36	0 10	21 36	1 5	20 36	1 15	0 47	2 42	2 37	0 41	13 32	1 50	28 38	14 42	23 29	23 33	21 36		n.a.
F 28	19 7	3 32	4 39	24 17	1 17	5 5	0 6	21 26	1 5	20 38	1 15	0 46	2 42	2 36	0 41	13 32	1 50	28 37	14 42	23 29	23 33	21 34		n.a.
S 29	18 52	2s29	5 6	24 13	1 22	4 34	0 2	21 16	1 5	20 40	1 15	0 46	2 42	2 35	0 41	13 32	1 50	28 36	14 42	23 30	23 33	21 32		n.a.
S 30	18 37	8 11	5 14	24 8	1 28	4 3	0n 2	21 5	1 5	20 42	1 15	0 45	2 42	2 34	0 41	13 32	1 50	28 36	14 42	23 30	23 33	21 31		n.a.
M31	18s21	13s19	5s 4	24s 2	1s33	3s31	0n 6	20s55	1s 5	20n44	1n16	0s44	2n43	2s33	0s41	13s32	1n50	28s35	14s42	23s30	23s33	21s29		n.a.

Julian Day Number = 1660061.5, Delta T = 03h26m14s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'13, Lahiri = - 6°16'13 Julian Calendar 1 Jan. 168 BCE == Greg. Calendar 29 Dec. 169 BCE

The year -167 astronomical counting style corresponds to year 168 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 168 BCE
geocentric

FEBRUARY 168 BCE (-167) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 30 43	9♒28'12	4♏51	19♑31	22♓ 7	3♒11	3°R45	8°R 1	25♓15	10♏56	20♒46	7°D30	6♑23	18♑ 2	n.a.	T 1
W 2	8 34 40	10°28'16	17°26	21° 4	23°16	3°59	3♌37	8♎ 0	25°17	10°57	20°47	7♑30	6°20	18° 8	n.a.	W 2
T 3	8 38 36	11°28'19	29°41	22°37	24°24	4°46	3°29	7°58	25°20	10°57	20°49	7°31	6°16	18°15	n.a.	T 3
F 4	8 42 33	12°28'21	11♐43	24°12	25°33	5°33	3°21	7°57	25°23	10°57	20°50	7°33	6°13	18°21	n.a.	F 4
S 5	8 46 30	13°28'20	23°35	25°47	26°41	6°20	3°14	7°55	25°25	10°58	20°52	7°35	6°10	18°28	n.a.	S 5
S 6	8 50 26	14°28'18	5♑21	27°24	27°49	7° 7	3° 6	7°53	25°28	10°58	20°54	7°R36	6° 7	18°35	n.a.	S 6
M 7	8 54 23	15°28'14	17° 7	29° 2	28°56	7°54	2°59	7°52	25°31	10°58	20°55	7°35	6° 4	18°41	n.a.	M 7
T 8	8 58 19	16°28'07	28°55	0♒41	0♈ 4	8°41	2°51	7°50	25°34	10°58	20°57	7°33	6° 1	18°48	n.a.	T 8
W 9	9 2 16	17°27'59	10♒48	2°21	1°11	9°29	2°44	7°48	25°37	10°59	20°58	7°28	5°57	18°55	n.a.	W 9
T 10	9 6 12	18°27'49	22°48	4° 2	2°18	10°16	2°36	7°46	25°40	10°59	21° 0	7°22	5°54	19° 1	n.a.	T 10
F 11	9 10 9	19°27'37	4♓57	5°45	3°25	11° 3	2°29	7°43	25°42	10°59	21° 1	7°15	5°51	19° 8	n.a.	F 11
S 12	9 14 5	20°27'22	17°15	7°29	4°32	11°50	2°22	7°41	25°45	10°59	21° 3	7° 7	5°48	19°15	n.a.	S 12
S 13	9 18 2	21°27'05	29°43	9°13	5°39	12°37	2°15	7°39	25°48	10°59	21° 5	6°59	5°45	19°21	n.a.	S 13
M14	9 21 59	22°26'46	12♈24	11° 0	6°45	13°24	2° 8	7°36	25°51	10°R59	21° 6	6°51	5°42	19°28	n.a.	M14
T 15	9 25 55	23°26'25	25°18	12°47	7°51	14°11	2° 1	7°34	25°54	10°59	21° 8	6°46	5°38	19°35	n.a.	T 15
W16	9 29 52	24°26'01	8♉27	14°35	8°57	14°58	1°54	7°31	25°57	10°59	21° 9	6°43	5°35	19°41	n.a.	W16
T 17	9 33 48	25°25'35	21°53	16°25	10° 2	15°44	1°47	7°28	26° 0	10°59	21°11	6°D41	5°32	19°48	n.a.	T 17
F 18	9 37 45	26°25'07	5♊37	18°16	11° 7	16°31	1°40	7°26	26° 3	10°59	21°12	6°42	5°29	19°55	n.a.	F 18
S 19	9 41 41	27°24'36	19°41	20° 8	12°12	17°18	1°34	7°23	26° 7	10°59	21°14	6°43	5°26	20° 1	n.a.	S 19
S 20	9 45 38	28°24'02	4♋ 3	22° 2	13°17	18° 5	1°28	7°20	26°10	10°58	21°16	6°R43	5°22	20° 8	n.a.	S 20
M21	9 49 34	29°23'27	18°43	23°56	14°22	18°52	1°21	7°17	26°13	10°58	21°17	6°43	5°19	20°15	n.a.	M21
T 22	9 53 31	0♓22'49	3♌35	25°52	15°26	19°39	1°15	7°14	26°16	10°58	21°19	6°40	5°16	20°21	n.a.	T 22
W23	9 57 28	1°22'08	18°33	27°49	16°30	20°25	1° 9	7°11	26°19	10°58	21°20	6°35	5°13	20°28	n.a.	W23
T 24	10 1 24	2°21'25	3♍28	29°48	17°33	21°12	1° 3	7° 7	26°22	10°57	21°22	6°28	5°10	20°34	n.a.	T 24
F 25	10 5 21	3°20'40	18°11	1♓47	18°37	21°59	0°58	7° 4	26°26	10°57	21°23	6°19	5° 7	20°41	n.a.	F 25
S 26	10 9 17	4°19'53	2♎35	3°47	19°40	22°45	0°52	7° 1	26°29	10°57	21°25	6°10	5° 3	20°48	n.a.	S 26
S 27	10 13 14	5°19'04	16°34	5°49	20°42	23°32	0°47	6°57	26°32	10°56	21°26	6° 1	5° 0	20°54	n.a.	S 27
M28	10 17 10	6♓18'13	0♏ 5	7♓51	21♈44	24♒18	0♌41	6♎54	26♓35	10♏56	21♒28	5♑54	4♑57	21♑ 1	n.a.	M28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s 5	17s39	4s39	23s54	1s38	3s 0	0n10	20s44	1s 5	20n46	1n16	0s44	2n43	2s32	0s41	13s32	1n50	28s35	14s42	23s30	23s34	21s27		n.a.
W 2	17 49	21 5	4 1	23 44	1 43	2 29	0 15	20 33	1 5	20 48	1 16	0 43	2 43	2 31	0 41	13 32	1 50	28 34	14 42	23 30	23 34	21 26		n.a.
T 3	17 32	23 27	3 13	23 33	1 47	1 58	0 19	20 21	1 6	20 50	1 16	0 42	2 43	2 30	0 41	13 32	1 50	28 34	14 42	23 30	23 34	21 24		n.a.
F 4	17 15	24 43	2 17	23 20	1 51	1 26	0 23	20 10	1 6	20 51	1 16	0 41	2 44	2 29	0 41	13 32	1 50	28 33	14 42	23 30	23 34	21 22		n.a.
S 5	16 58	24 49	1 16	23 6	1 54	0 55	0 28	19 58	1 6	20 53	1 16	0 40	2 44	2 28	0 41	13 32	1 50	28 32	14 42	23 30	23 34	21 20		n.a.
S 6	16 41	23 49	0 12	22 50	1 57	0 23	0 32	19 46	1 6	20 55	1 16	0 39	2 44	2 27	0 41	13 32	1 50	28 32	14 42	23 30	23 34	21 18		n.a.
M 7	16 23	21 45	0n52	22 33	2 0	0n 8	0 37	19 34	1 6	20 57	1 16	0 38	2 44	2 25	0 41	13 32	1 51	28 31	14 42	23 30	23 35	21 17		n.a.
T 8	16 5	18 45	1 54	22 13	2 2	0 39	0 41	19 21	1 6	20 59	1 16	0 37	2 45	2 24	0 41	13 32	1 51	28 31	14 42	23 30	23 35	21 15		n.a.
W 9	15 47	14 59	2 51	21 53	2 4	1 11	0 46	19 8	1 6	21 1	1 16	0 36	2 45	2 23	0 41	13 32	1 51	28 30	14 42	23 30	23 35	21 13		n.a.
T 10	15 28	10 36	3 41	21 30	2 6	1 42	0 50	18 56	1 6	21 2	1 16	0 35	2 45	2 22	0 41	13 32	1 51	28 30	14 42	23 30	23 35	21 11		n.a.
F 11	15 9	5 45	4 21	21 6	2 7	2 13	0 55	18 43	1 6	21 4	1 16	0 34	2 45	2 21	0 41	13 32	1 51	28 29	14 42	23 31	23 35	21 10		n.a.
S 12	14 50	0 39	4 50	20 40	2 7	2 44	1 0	18 29	1 6	21 6	1 16	0 33	2 46	2 20	0 41	13 32	1 51	28 29	14 42	23 31	23 35	21 8		n.a.
S 13	14 31	4n34	5 6	20 12	2 7	3 15	1 4	18 16	1 6	21 7	1 16	0 32	2 46	2 18	0 41	13 32	1 51	28 28	14 42	23 32	23 35	21 6		n.a.
M14	14 11	9 39	5 7	19 42	2 7	3 46	1 9	18 2	1 6	21 9	1 16	0 31	2 46	2 17	0 41	13 32	1 51	28 28	14 42	23 32	23 36	21 4		n.a.
T 15	13 52	14 26	4 53	19 11	2 6	4 17	1 14	17 49	1 6	21 11	1 16	0 30	2 46	2 16	0 41	13 32	1 51	28 27	14 42	23 32	23 36	21 2		n.a.
W16	13 32	18 37	4 23	18 38	2 5	4 47	1 19	17 35	1 6	21 12	1 16	0 28	2 46	2 15	0 41	13 32	1 51	28 27	14 42	23 33	23 36	21 1		n.a.
T 17	13 12	21 57	3 38	18 3	2 3	5 18	1 24	17 21	1 6	21 14	1 16	0 27	2 47	2 13	0 41	13 32	1 51	28 26	14 42	23 33	23 36	20 59		n.a.
F 18	12 51	24 6	2 40	17 27	2 1	5 48	1 28	17 6	1 6	21 15	1 16	0 26	2 47	2 12	0 41	13 32	1 51	28 26	14 42	23 33	23 36	20 57		n.a.
S 19	12 31	24 49	1 31	16 48	1 58	6 18	1 33	16 52	1 5	21 17	1 16	0 25	2 47	2 11	0 40	13 32	1 51	28 25	14 42	23 33	23 36	20 55		n.a.
S 20	12 10	23 54	0 14	16 8	1 55	6 48	1 38	16 37	1 5	21 18	1 16	0 23	2 47	2 10	0 40	13 32	1 51	28 25	14 42	23 33	23 36	20 53		n.a.
M21	11 49	21 20	1s 4	15 26	1 51	7 18	1 43	16 23	1 5	21 19	1 16	0 22	2 47	2 8	0 40	13 32	1 51	28 24	14 42	23 33	23 36	20 51		n.a.
T 22	11 28	17 19	2 19	14 43	1 47	7 48	1 48	16 8	1 5	21 21	1 16	0 20	2 48	2 7	0 40	13 32	1 51	28 24	14 42	23 33	23 37	20 50		n.a.
W23	11 7	12 12	3 25	13 57	1 42	8 17	1 53	15 53	1 5	21 22	1 16	0 19	2 48	2 6	0 40	13 31	1 51	28 23	14 42	23 33	23 37	20 48		n.a.
T 24	10 45	6 22	4 17	13 10	1 36	8 47	1 58	15 37	1 5	21 23	1 16	0 18	2 48	2 4	0 40	13 31	1 52	28 23	14 42	23 33	23 37	20 46		n.a.
F 25	10 24	0 17	4 50	12 22	1 30	9 16	2 3	15 22	1 5	21 25	1 16	0 16	2 48	2 3	0 40	13 31	1 52	28 22	14 42	23 34	23 37	20 44		n.a.
S 26	10 2	5s41	5 5	11 32	1 23	9 44	2 8	15 7	1 5	21 26	1 16	0 15	2 48	2 2	0 40	13 31	1 52	28 22	14 42	23 34	23 37	20 42		n.a.
S 27	9 40	11 11	5 0	10 40	1 16	10 13	2 12	14 51	1 5	21 27	1 16	0 13	2 48	2 1	0 40	13 31	1 52	28 21	14 43	23 35	23 37	20 40		n.a.
M28	9s18	15s58	4s39	9s47	1s 8	10n41	2n17	14s35	1s 5	21n28	1n16	0s11	2n49	1s59	0s40	13s31	1n52	28s21	14s43	23s35	23s37	20s38		n.a.

Julian Day Number = 1660092.5, Delta T = 03h26m13s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'09, Lahiri = - 6°16'09 Julian Calendar 1 Feb. 168 BCE == Greg. Calendar 29 Jan. 168 BCE

The year -167 astronomical counting style corresponds to year 168 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 168 BCE
geocentric

MARCH 168 BCE (-167) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 21 7	7♓17'21	13♏ 9	9♓53	22♈46	25♒ 5	0°R36	6°R50	26♓39	10°R55	21♒29	5°R49	4♑54	21♑ 8	n.a.	T 1
W 2	10 25 3	8°16'26	25°48	11°57	23°48	25°51	0♌31	6♎47	26°42	10♏55	21°31	5♑46	4°51	21°14	n.a.	W 2
T 3	10 29 0	9°15'29	8♐ 6	14° 0	24°49	26°38	0°26	6°43	26°45	10°54	21°32	5°D45	4°47	21°21	n.a.	T 3
F 4	10 32 56	10°14'31	20° 8	16° 4	25°50	27°24	0°22	6°39	26°49	10°54	21°34	5°46	4°44	21°28	n.a.	F 4
S 5	10 36 53	11°13'31	2♑ 0	18° 8	26°50	28°11	0°17	6°35	26°52	10°53	21°35	5°R46	4°41	21°34	n.a.	S 5
S 6	10 40 50	12°12'29	13°47	20°11	27°50	28°57	0°13	6°31	26°55	10°53	21°37	5°46	4°38	21°41	n.a.	S 6
M 7	10 44 46	13°11'25	25°34	22°14	28°50	29°43	0° 8	6°28	26°59	10°52	21°38	5°44	4°35	21°48	n.a.	M 7
T 8	10 48 43	14°10'19	7♒25	24°15	29°49	0♓30	0° 4	6°24	27° 2	10°51	21°40	5°39	4°32	21°54	n.a.	T 8
W 9	10 52 39	15° 9'11	19°24	26°15	0♉48	1°16	0° 1	6°20	27° 5	10°51	21°41	5°32	4°28	22° 1	n.a.	W 9
T 10	10 56 36	16° 8'01	1♓34	28°14	1°47	2° 2	29♋57	6°16	27° 9	10°50	21°43	5°23	4°25	22° 8	n.a.	T 10
F 11	11 0 32	17° 6'49	13°55	0♈10	2°44	2°48	29°53	6°11	27°12	10°49	21°44	5°11	4°22	22°14	n.a.	F 11
S 12	11 4 29	18° 5'35	26°30	2° 4	3°42	3°35	29°50	6° 7	27°15	10°48	21°46	4°58	4°19	22°21	n.a.	S 12
S 13	11 8 25	19° 4'18	9♈17	3°55	4°39	4°21	29°47	6° 3	27°19	10°47	21°47	4°46	4°16	22°28	n.a.	S 13
M14	11 12 22	20° 3'00	22°16	5°42	5°35	5° 7	29°44	5°59	27°22	10°47	21°48	4°34	4°13	22°34	n.a.	M14
T 15	11 16 19	21° 1'39	5♉27	7°27	6°31	5°53	29°41	5°55	27°26	10°46	21°50	4°25	4° 9	22°41	n.a.	T 15
W16	11 20 15	22° 0'16	18°50	9° 7	7°26	6°39	29°38	5°50	27°29	10°45	21°51	4°19	4° 6	22°48	n.a.	W16
T 17	11 24 12	22°58'51	2♊23	10°44	8°21	7°25	29°36	5°46	27°33	10°44	21°53	4°15	4° 3	22°54	n.a.	T 17
F 18	11 28 8	23°57'24	16° 8	12°16	9°15	8°10	29°34	5°42	27°36	10°43	21°54	4°14	4° 0	23° 1	n.a.	F 18
S 19	11 32 5	24°55'55	0♋ 5	13°44	10° 9	8°56	29°32	5°37	27°39	10°42	21°55	4°14	3°57	23° 7	n.a.	S 19
S 20	11 36 1	25°54'23	14°14	15° 7	11° 2	9°42	29°30	5°33	27°43	10°41	21°57	4°14	3°53	23°14	n.a.	S 20
M21	11 39 58	26°52'49	28°34	16°26	11°54	10°28	29°28	5°28	27°46	10°40	21°58	4°12	3°50	23°21	n.a.	M21
T 22	11 43 54	27°51'12	13♌ 3	17°39	12°46	11°14	29°27	5°24	27°50	10°39	21°59	4° 9	3°47	23°27	n.a.	T 22
W23	11 47 51	28°49'33	27°37	18°48	13°37	11°59	29°25	5°20	27°53	10°38	22° 1	4° 2	3°44	23°34	n.a.	W23
T 24	11 51 47	29°47'52	12♍ 9	19°51	14°27	12°45	29°24	5°15	27°57	10°37	22° 2	3°53	3°41	23°41	n.a.	T 24
F 25	11 55 44	0♈46'09	26°34	20°49	15°16	13°30	29°23	5°11	28° 0	10°36	22° 3	3°41	3°38	23°47	n.a.	F 25
S 26	11 59 41	1°44'25	10♎44	21°42	16° 5	14°16	29°22	5° 6	28° 3	10°34	22° 5	3°29	3°34	23°54	n.a.	S 26
S 27	12 3 37	2°42'38	24°34	22°30	16°53	15° 1	29°22	5° 2	28° 7	10°33	22° 6	3°18	3°31	24° 1	n.a.	S 27
M28	12 7 34	3°40'49	8♏ 1	23°11	17°39	15°47	29°21	4°57	28°10	10°32	22° 7	3° 8	3°28	24° 7	n.a.	M28
T 29	12 11 30	4°38'59	21° 4	23°48	18°26	16°32	29°21	4°53	28°14	10°31	22° 8	3° 1	3°25	24°14	n.a.	T 29
W30	12 15 27	5°37'08	3♐44	24°19	19°11	17°17	29°D21	4°48	28°17	10°30	22° 9	2°56	3°22	24°21	n.a.	W30
T 31	12 19 23	6♈35'15	16♐ 4	24♈44	19♉55	18♓ 3	29♋21	4♎44	28♓21	10♏28	22♒11	2♑54	3♑19	24♑27	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	8s56	19s49	4s 3	8s52	1s 0	11n 9	2n22	14s19	1s 4	21n29	1n16	0s10	2n49	1s58	0s40	13s30	1n52	28s21	14s43	23s35	23s37	20s37			n.a.
W 2	8 34	22 37	3 17	7 57	0 51	11 37	2 27	14 3	1 4	21 30	1 16	0 8	2 49	1 57	0 40	13 30	1 52	28 20	14 43	23 35	23 38	20 35			n.a.
T 3	8 11	24 15	2 22	7 0	0 42	12 4	2 32	13 47	1 4	21 31	1 16	0 7	2 49	1 55	0 40	13 30	1 52	28 20	14 43	23 35	23 38	20 33			n.a.
F 4	7 49	24 43	1 23	6 3	0 32	12 31	2 37	13 31	1 4	21 32	1 15	0 5	2 49	1 54	0 40	13 30	1 52	28 19	14 43	23 35	23 38	20 31			n.a.
S 5	7 26	24 2	0 20	5 5	0 22	12 58	2 42	13 14	1 4	21 33	1 15	0 3	2 49	1 53	0 40	13 30	1 52	28 19	14 43	23 35	23 38	20 29			n.a.
S 6	7 4	22 17	0n43	4 6	0 11	13 25	2 46	12 58	1 4	21 34	1 15	0 2	2 50	1 51	0 40	13 29	1 52	28 19	14 43	23 35	23 38	20 27			n.a.
M 7	6 41	19 35	1 44	3 7	0 0	13 51	2 51	12 41	1 4	21 35	1 15	0 0	2 50	1 50	0 40	13 29	1 52	28 18	14 44	23 35	23 38	20 25			n.a.
T 8	6 18	16 3	2 40	2 8	0n11	14 16	2 56	12 25	1 3	21 35	1 15	0n 2	2 50	1 48	0 40	13 29	1 52	28 18	14 44	23 36	23 38	20 23			n.a.
W 9	5 55	11 51	3 30	1 10	0 23	14 42	3 1	12 8	1 3	21 36	1 15	0 3	2 50	1 47	0 40	13 29	1 52	28 17	14 44	23 36	23 38	20 22			n.a.
T 10	5 32	7 8	4 11	0 12	0 34	15 7	3 5	11 51	1 3	21 37	1 15	0 5	2 50	1 46	0 40	13 28	1 52	28 17	14 44	23 36	23 38	20 20			n.a.
F 11	5 9	2 5	4 41	0n46	0 46	15 32	3 10	11 34	1 3	21 38	1 15	0 7	2 50	1 44	0 40	13 28	1 52	28 17	14 44	23 37	23 39	20 18			n.a.
S 12	4 46	3n 8	4 58	1 42	0 58	15 56	3 14	11 17	1 3	21 38	1 15	0 9	2 50	1 43	0 40	13 28	1 52	28 16	14 44	23 37	23 39	20 16			n.a.
S 13	4 22	8 19	5 0	2 38	1 9	16 20	3 19	11 0	1 2	21 39	1 15	0 10	2 50	1 42	0 40	13 27	1 52	28 16	14 45	23 38	23 39	20 14			n.a.
M14	3 59	13 12	4 47	3 31	1 20	16 43	3 23	10 42	1 2	21 39	1 15	0 12	2 50	1 40	0 40	13 27	1 52	28 16	14 45	23 38	23 39	20 12			n.a.
T 15	3 36	17 33	4 19	4 23	1 32	17 7	3 28	10 25	1 2	21 40	1 14	0 14	2 51	1 39	0 40	13 27	1 52	28 15	14 45	23 38	23 39	20 10			n.a.
W16	3 12	21 5	3 36	5 13	1 42	17 29	3 32	10 8	1 2	21 40	1 14	0 16	2 51	1 37	0 40	13 26	1 53	28 15	14 45	23 39	23 39	20 8			n.a.
T 17	2 49	23 30	2 40	6 1	1 53	17 51	3 36	9 50	1 1	21 41	1 14	0 17	2 51	1 36	0 40	13 26	1 53	28 15	14 45	23 39	23 39	20 6			n.a.
F 18	2 26	24 33	1 34	6 47	2 2	18 13	3 40	9 33	1 1	21 41	1 14	0 19	2 51	1 35	0 40	13 26	1 53	28 15	14 45	23 39	23 39	20 4			n.a.
S 19	2 2	24 5	0 22	7 30	2 12	18 35	3 45	9 15	1 1	21 41	1 14	0 21	2 51	1 33	0 40	13 25	1 53	28 14	14 46	23 39	23 39	20 2			n.a.
S 20	1 39	22 4	0s53	8 11	2 20	18 55	3 49	8 57	1 1	21 42	1 14	0 23	2 51	1 32	0 40	13 25	1 53	28 14	14 46	23 39	23 39	20 0			n.a.
M21	1 15	18 39	2 5	8 49	2 28	19 16	3 53	8 40	1 0	21 42	1 14	0 25	2 51	1 31	0 40	13 25	1 53	28 14	14 46	23 39	23 40	19 58			n.a.
T 22	0 52	14 3	3 10	9 24	2 35	19 36	3 56	8 22	1 0	21 42	1 14	0 27	2 51	1 29	0 40	13 24	1 53	28 13	14 46	23 39	23 40	19 56			n.a.
W23	0 28	8 39	4 3	9 56	2 42	19 55	4 0	8 4	1 0	21 42	1 14	0 28	2 51	1 28	0 40	13 24	1 53	28 13	14 47	23 39	23 40	19 55			n.a.
T 24	0 5	2 47	4 40	10 26	2 47	20 14	4 4	7 46	1 0	21 42	1 13	0 30	2 51	1 26	0 40	13 24	1 53	28 13	14 47	23 39	23 40	19 53			n.a.
F 25	0n19	3s10	4 58	10 52	2 52	20 32	4 7	7 28	0 59	21 43	1 13	0 32	2 51	1 25	0 40	13 23	1 53	28 13	14 47	23 40	23 40	19 51			n.a.
S 26	0 42	8 51	4 58	11 16	2 56	20 50	4 11	7 10	0 59	21 43	1 13	0 34	2 51	1 24	0 40	13 23	1 53	28 13	14 47	23 40	23 40	19 49			n.a.
S 27	1 5	13 58	4 40	11 36	2 58	21 8	4 14	6 52	0 59	21 43	1 13	0 36	2 51	1 22	0 40	13 22	1 53	28 12	14 47	23 40	23 40	19 47			n.a.
M28	1 29	18 14	4 7	11 53	3 0	21 24	4 18	6 34	0 58	21 43	1 13	0 37	2 51	1 21	0 40	13 22	1 53	28 12	14 48	23 41	23 40	19 45			n.a.
T 29	1 52	21 29	3 22	12 7	3 0	21 41	4 21	6 16	0 58	21 42	1 13	0 39	2 51	1 19	0 40	13 21	1 53	28 12	14 48	23 41	23 40	19 43			n.a.
W30	2 15	23 34	2 28	12 18	2 59	21 56	4 24	5 58	0 58	21 42	1 13	0 41	2 51	1 18	0 40	13 21	1 53	28 12	14 48	23 41	23 40	19 41			n.a.
T 31	2n39	24s26	1s28	12n26	2n58	22n11	4n26	5s40	0s58	21n42	1n13	0n43	2n51	1s17	0s40	13s21	1n53	28s12	14s48	23s41	23s40	19s39			n.a.

Julian Day Number = 1660120.5, Delta T = 03h26m12s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'05, Lahiri = - 6°16'05 Julian Calendar 1 March 168 BCE == Greg. Calendar 26 Feb. 168 BCE

The year -167 astronomical counting style corresponds to year 168 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 168 BCE
geocentric

APRIL 168 BCE (-167) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 23 20	7♈33'20	28♐ 8	25♈ 4	20♉38	18♓48	29♋22	4°R39	28♓24	10°R27	22♒12	2°R53	3♑15	24♑34	n.a.	F 1
S 2	12 27 16	8°31'24	10♑ 2	25°18	21°20	19°33	29°22	4♎35	28°27	10♏26	22°13	2♑53	3°12	24°41	n.a.	S 2
S 3	12 31 13	9°29'26	21°50	25°27	22° 2	20°18	29°23	4°30	28°31	10°24	22°14	2°52	3° 9	24°47	n.a.	S 3
M 4	12 35 10	10°27'27	3♒39	25°R31	22°42	21° 3	29°24	4°26	28°34	10°23	22°15	2°51	3° 6	24°54	n.a.	M 4
T 5	12 39 6	11°25'26	15°34	25°29	23°21	21°49	29°25	4°21	28°37	10°22	22°16	2°47	3° 3	25° 1	n.a.	T 5
W 6	12 43 3	12°23'23	27°39	25°22	23°59	22°34	29°26	4°17	28°41	10°20	22°17	2°40	2°59	25° 7	n.a.	W 6
T 7	12 46 59	13°21'20	9♓57	25°11	24°35	23°18	29°27	4°12	28°44	10°19	22°19	2°31	2°56	25°14	n.a.	T 7
F 8	12 50 56	14°19'14	22°30	24°55	25°11	24° 3	29°29	4° 8	28°48	10°18	22°20	2°19	2°53	25°21	n.a.	F 8
S 9	12 54 52	15°17'07	5♈21	24°34	25°45	24°48	29°31	4° 3	28°51	10°16	22°21	2° 7	2°50	25°27	n.a.	S 9
S 10	12 58 49	16°14'59	18°27	24°11	26°17	25°33	29°33	3°59	28°54	10°15	22°22	1°55	2°47	25°34	n.a.	S 10
M11	13 2 45	17°12'49	1♉49	23°43	26°49	26°18	29°35	3°55	28°58	10°13	22°23	1°44	2°44	25°41	n.a.	M11
T 12	13 6 42	18°10'37	15°23	23°13	27°19	27° 2	29°37	3°50	29° 1	10°12	22°24	1°35	2°40	25°47	n.a.	T 12
W13	13 10 39	19° 8'24	29° 7	22°41	27°47	27°47	29°40	3°46	29° 4	10°10	22°25	1°28	2°37	25°54	n.a.	W13
T 14	13 14 35	20° 6'09	12♊59	22° 7	28°14	28°32	29°42	3°42	29° 7	10° 9	22°26	1°25	2°34	26° 0	n.a.	T 14
F 15	13 18 32	21° 3'53	26°58	21°32	28°39	29°16	29°45	3°38	29°11	10° 7	22°27	1°D24	2°31	26° 7	n.a.	F 15
S 16	13 22 28	22° 1'35	11♋ 1	20°56	29° 2	0♈ 1	29°48	3°33	29°14	10° 6	22°27	1°24	2°28	26°14	n.a.	S 16
S 17	13 26 25	22°59'15	25° 7	20°21	29°24	0°45	29°51	3°29	29°17	10° 4	22°28	1°R24	2°24	26°20	n.a.	S 17
M18	13 30 21	23°56'53	9♌17	19°46	29°44	1°29	29°55	3°25	29°20	10° 3	22°29	1°23	2°21	26°27	n.a.	M18
T 19	13 34 18	24°54'29	23°28	19°13	0♊ 2	2°14	29°58	3°21	29°23	10° 1	22°30	1°20	2°18	26°34	n.a.	T 19
W20	13 38 14	25°52'04	7♍38	18°42	0°18	2°58	0♌ 2	3°17	29°27	10° 0	22°31	1°15	2°15	26°40	n.a.	W20
T 21	13 42 11	26°49'37	21°45	18°13	0°32	3°42	0° 6	3°13	29°30	9°58	22°32	1° 7	2°12	26°47	n.a.	T 21
F 22	13 46 8	27°47'09	5♎43	17°47	0°44	4°26	0°10	3° 9	29°33	9°57	22°33	0°58	2° 9	26°54	n.a.	F 22
S 23	13 50 4	28°44'39	19°29	17°24	0°53	5°10	0°14	3° 5	29°36	9°55	22°33	0°48	2° 5	27° 0	n.a.	S 23
S 24	13 54 1	29°42'08	3♏ 0	17° 5	1° 1	5°54	0°18	3° 2	29°39	9°53	22°34	0°38	2° 2	27° 7	n.a.	S 24
M25	13 57 57	0♉39'36	16°12	16°50	1° 6	6°38	0°23	2°58	29°42	9°52	22°35	0°30	1°59	27°14	n.a.	M25
T 26	14 1 54	1°37'03	29° 5	16°38	1° 9	7°22	0°27	2°54	29°45	9°50	22°35	0°23	1°56	27°20	n.a.	T 26
W27	14 5 50	2°34'29	11♐39	16°32	1°R10	8° 6	0°32	2°51	29°48	9°49	22°36	0°19	1°53	27°27	n.a.	W27
T 28	14 9 47	3°31'54	23°56	16°D29	1° 9	8°50	0°37	2°47	29°51	9°47	22°37	0°18	1°50	27°34	n.a.	T 28
F 29	14 13 43	4°29'18	6♑ 0	16°31	1° 5	9°34	0°42	2°44	29°54	9°45	22°37	0°D18	1°46	27°40	n.a.	F 29
S 30	14 17 40	5♉26'41	17♑54	16♈38	0♊58	10♈17	0♌47	2♎40	29♓57	9♏44	22♒38	0♑18	1♑43	27♑47	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	3n 2	24s 7	0s25	12n31	2n55	22n26	4n29	5s21	0s57	21n42	1n12	0n45	2n51	1s15	0s40	13s20	1n53	28s11	14s49	23s41	23s41	19s37		n.a.
S 2	3 25	22 42	0n38	12 32	2 50	22 40	4 32	5 3	0 57	21 42	1 12	0 46	2 51	1 14	0 40	13 20	1 53	28 11	14 49	23 41	23 41	19 35		n.a.
S 3	3 48	20 18	1 39	12 30	2 45	22 53	4 34	4 45	0 56	21 41	1 12	0 48	2 51	1 13	0 40	13 19	1 53	28 11	14 49	23 41	23 41	19 33		n.a.
M 4	4 11	17 2	2 35	12 25	2 38	23 6	4 36	4 27	0 56	21 41	1 12	0 50	2 51	1 11	0 40	13 19	1 53	28 11	14 49	23 41	23 41	19 31		n.a.
T 5	4 34	13 5	3 26	12 17	2 30	23 18	4 38	4 8	0 56	21 41	1 12	0 52	2 51	1 10	0 40	13 18	1 53	28 11	14 50	23 41	23 41	19 29		n.a.
W 6	4 57	8 34	4 7	12 6	2 21	23 30	4 40	3 50	0 55	21 40	1 12	0 54	2 51	1 9	0 40	13 18	1 53	28 11	14 50	23 41	23 41	19 27		n.a.
T 7	5 20	3 38	4 38	11 52	2 10	23 41	4 42	3 32	0 55	21 40	1 12	0 55	2 51	1 7	0 40	13 18	1 53	28 11	14 50	23 42	23 41	19 25		n.a.
F 8	5 43	1n32	4 57	11 36	1 59	23 51	4 43	3 13	0 55	21 39	1 11	0 57	2 51	1 6	0 40	13 17	1 53	28 10	14 51	23 42	23 41	19 23		n.a.
S 9	6 5	6 44	5 1	11 16	1 46	24 1	4 44	2 55	0 54	21 39	1 11	0 59	2 51	1 5	0 40	13 17	1 53	28 10	14 51	23 42	23 41	19 21		n.a.
S 10	6 28	11 45	4 49	10 55	1 33	24 10	4 45	2 37	0 54	21 38	1 11	1 0	2 51	1 3	0 40	13 16	1 53	28 10	14 51	23 42	23 41	19 19		n.a.
M11	6 50	16 19	4 21	10 31	1 18	24 18	4 46	2 18	0 54	21 38	1 11	1 2	2 51	1 2	0 40	13 16	1 53	28 10	14 52	23 42	23 41	19 17		n.a.
T 12	7 12	20 7	3 38	10 6	1 3	24 26	4 47	2 0	0 53	21 37	1 11	1 4	2 51	1 1	0 40	13 15	1 53	28 10	14 52	23 42	23 41	19 15		n.a.
W13	7 35	22 50	2 42	9 39	0 47	24 33	4 47	1 42	0 53	21 37	1 11	1 5	2 51	0 59	0 40	13 15	1 53	28 10	14 52	23 42	23 41	19 13		n.a.
T 14	7 57	24 13	1 36	9 11	0 30	24 39	4 47	1 23	0 52	21 36	1 11	1 7	2 51	0 58	0 40	13 14	1 53	28 10	14 52	23 42	23 41	19 11		n.a.
F 15	8 19	24 4	0 24	8 42	0 13	24 45	4 47	1 5	0 52	21 35	1 10	1 9	2 50	0 57	0 40	13 14	1 53	28 10	14 53	23 42	23 41	19 8		n.a.
S 16	8 41	22 24	0s51	8 12	0s 4	24 49	4 46	0 47	0 52	21 34	1 10	1 10	2 50	0 55	0 40	13 13	1 54	28 10	14 53	23 42	23 42	19 6		n.a.
S 17	9 2	19 21	2 3	7 43	0 21	24 53	4 45	0 29	0 51	21 33	1 10	1 12	2 50	0 54	0 40	13 13	1 54	28 10	14 53	23 42	23 42	19 4		n.a.
M18	9 24	15 8	3 7	7 14	0 38	24 57	4 44	0 10	0 51	21 33	1 10	1 13	2 50	0 53	0 40	13 12	1 54	28 10	14 54	23 43	23 42	19 2		n.a.
T 19	9 45	10 4	4 0	6 46	0 55	24 59	4 42	0n 8	0 50	21 32	1 10	1 15	2 50	0 51	0 40	13 12	1 54	28 10	14 54	23 43	23 42	19 0		n.a.
W20	10 6	4 30	4 38	6 19	1 11	25 1	4 41	0 26	0 50	21 31	1 10	1 16	2 50	0 50	0 40	13 11	1 54	28 10	14 54	23 43	23 42	18 58		n.a.
T 21	10 27	1s16	4 59	5 53	1 27	25 2	4 38	0 44	0 49	21 30	1 10	1 18	2 50	0 49	0 40	13 11	1 54	28 10	14 55	23 43	23 42	18 56		n.a.
F 22	10 48	6 55	5 2	5 29	1 42	25 2	4 36	1 2	0 49	21 29	1 10	1 19	2 50	0 48	0 40	13 10	1 54	28 10	14 55	23 43	23 42	18 54		n.a.
S 23	11 9	12 8	4 48	5 7	1 57	25 1	4 33	1 20	0 49	21 28	1 9	1 21	2 50	0 46	0 40	13 10	1 54	28 10	14 55	23 43	23 42	18 52		n.a.
S 24	11 30	16 40	4 17	4 47	2 10	24 59	4 29	1 38	0 48	21 27	1 9	1 22	2 49	0 45	0 40	13 9	1 54	28 10	14 56	23 43	23 42	18 50		n.a.
M25	11 50	20 16	3 33	4 29	2 23	24 56	4 25	1 56	0 48	21 26	1 9	1 23	2 49	0 44	0 40	13 9	1 54	28 10	14 56	23 43	23 42	18 48		n.a.
T 26	12 10	22 46	2 39	4 14	2 35	24 53	4 21	2 14	0 47	21 24	1 9	1 25	2 49	0 43	0 40	13 8	1 54	28 10	14 56	23 43	23 42	18 46		n.a.
W27	12 30	24 4	1 38	4 2	2 45	24 48	4 16	2 32	0 47	21 23	1 9	1 26	2 49	0 42	0 40	13 8	1 54	28 10	14 57	23 43	23 42	18 44		n.a.
T 28	12 50	24 9	0 34	3 52	2 55	24 43	4 11	2 50	0 46	21 22	1 9	1 27	2 49	0 40	0 40	13 7	1 54	28 10	14 57	23 43	23 42	18 42		n.a.
F 29	13 10	23 4	0n31	3 45	3 4	24 36	4 5	3 8	0 46	21 21	1 9	1 29	2 49	0 39	0 40	13 7	1 54	28 11	14 57	23 43	23 42	18 40		n.a.
S 30	13n29	20s58	1n33	3n40	3s11	24n29	3n59	3n26	0s45	21n20	1n 8	1n30	2n49	0s38	0s40	13s 6	1n54	28s11	14s58	23s43	23s42	18s37		n.a.

Julian Day Number = 1660151.5, Delta T = 03h26m11s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°23'01, Lahiri = - 6°16'01 Julian Calendar 1 Apr. 168 BCE == Greg. Calendar 29 March 168 BCE

The year -167 astronomical counting style corresponds to year 168 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 168 BCE
geocentric

MAY 168 BCE (-167) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 21 37	6♉24'04	29♉44	16♈49	0°R50	11♈ 1	0♌53	2°R37	0♈ 0	9°R42	22♒39	0♉19	1♉40	27♉54	n.a.	S 1
M 2	14 25 33	7°21'25	11♒34	17° 4	0♊39	11°45	0°58	2♎33	0° 3	9♏41	22°39	0°R19	1°37	28° 0	n.a.	M 2
T 3	14 29 30	8°18'46	23°31	17°24	0°25	12°28	1° 4	2°30	0° 6	9°39	22°40	0°18	1°34	28° 7	n.a.	T 3
W 4	14 33 26	9°16'06	5♓38	17°49	0° 9	13°12	1°10	2°27	0° 9	9°37	22°40	0°15	1°30	28°14	n.a.	W 4
T 5	14 37 23	10°13'26	18° 1	18°17	29♉51	13°55	1°16	2°24	0°12	9°36	22°41	0°10	1°27	28°20	n.a.	T 5
F 6	14 41 19	11°10'44	0♈42	18°50	29°31	14°38	1°22	2°21	0°14	9°34	22°41	0° 3	1°24	28°27	n.a.	F 6
S 7	14 45 16	12° 8'02	13°43	19°27	29° 8	15°22	1°28	2°18	0°17	9°33	22°42	29♐55	1°21	28°34	n.a.	S 7
S 8	14 49 12	13° 5'20	27° 5	20° 8	28°43	16° 5	1°35	2°15	0°20	9°31	22°42	29°47	1°18	28°40	n.a.	S 8
M 9	14 53 9	14° 2'37	10♉46	20°53	28°16	16°48	1°41	2°12	0°23	9°29	22°43	29°40	1°15	28°47	n.a.	M 9
T 10	14 57 6	14°59'53	24°43	21°42	27°48	17°31	1°48	2°10	0°25	9°28	22°43	29°34	1°11	28°54	n.a.	T 10
W11	15 1 2	15°57'08	8♊52	22°34	27°17	18°14	1°55	2° 7	0°28	9°26	22°44	29°31	1° 8	29° 0	n.a.	W11
T 12	15 4 59	16°54'23	23°10	23°30	26°45	18°57	2° 2	2° 4	0°30	9°24	22°44	29°D29	1° 5	29° 7	n.a.	T 12
F 13	15 8 55	17°51'36	7♋30	24°30	26°12	19°40	2° 9	2° 2	0°33	9°23	22°44	29°29	1° 2	29°14	n.a.	F 13
S 14	15 12 52	18°48'49	21°50	25°34	25°37	20°23	2°16	2° 0	0°36	9°21	22°45	29°30	0°59	29°20	n.a.	S 14
S 15	15 16 48	19°46'01	6♌ 6	26°40	25° 1	21° 6	2°23	1°57	0°38	9°20	22°45	29°31	0°56	29°27	n.a.	S 15
M16	15 20 45	20°43'12	20°17	27°51	24°24	21°49	2°31	1°55	0°41	9°18	22°45	29°R32	0°52	29°34	n.a.	M16
T 17	15 24 41	21°40'22	4♍21	29° 4	23°47	22°32	2°39	1°53	0°43	9°17	22°45	29°31	0°49	29°40	n.a.	T 17
W18	15 28 38	22°37'31	18°15	0♉21	23°10	23°14	2°46	1°51	0°45	9°15	22°46	29°29	0°46	29°47	n.a.	W18
T 19	15 32 35	23°34'40	2♎ 0	1°41	22°32	23°57	2°54	1°49	0°48	9°13	22°46	29°25	0°43	29°54	n.a.	T 19
F 20	15 36 31	24°31'48	15°33	3° 4	21°55	24°39	3° 2	1°47	0°50	9°12	22°46	29°20	0°40	0♒ 0	n.a.	F 20
S 21	15 40 28	25°28'55	28°54	4°31	21°17	25°22	3°10	1°45	0°53	9°10	22°46	29°15	0°36	0° 7	n.a.	S 21
S 22	15 44 24	26°26'02	12♏ 0	6° 1	20°41	26° 4	3°18	1°43	0°55	9° 9	22°46	29°10	0°33	0°14	n.a.	S 22
M23	15 48 21	27°23'09	24°52	7°33	20° 5	26°47	3°27	1°42	0°57	9° 7	22°46	29° 5	0°30	0°20	n.a.	M23
T 24	15 52 17	28°20'15	7♐29	9° 9	19°30	27°29	3°35	1°40	0°59	9° 6	22°46	29° 2	0°27	0°27	n.a.	T 24
W25	15 56 14	29°17'21	19°52	10°48	18°57	28°11	3°44	1°39	1° 1	9° 4	22°46	29° 0	0°24	0°34	n.a.	W25
T 26	16 0 10	0♊14'27	2♉ 2	12°31	18°25	28°53	3°52	1°38	1° 4	9° 3	22°47	29°D 0	0°21	0°40	n.a.	T 26
F 27	16 4 7	1°11'33	14° 2	14°16	17°55	29°35	4° 1	1°36	1° 6	9° 1	22°R47	29° 1	0°17	0°47	n.a.	F 27
S 28	16 8 4	2° 8'38	25°54	16° 3	17°26	0♉17	4°10	1°35	1° 8	9° 0	22°47	29° 2	0°14	0°54	n.a.	S 28
S 29	16 12 0	3° 5'44	7♒44	17°54	17° 0	0°59	4°19	1°34	1°10	8°58	22°46	29° 4	0°11	1° 0	n.a.	S 29
M30	16 15 57	4° 2'50	19°35	19°48	16°35	1°41	4°28	1°33	1°12	8°57	22°46	29° 6	0° 8	1° 7	n.a.	M30
T 31	16 19 53	4♊59'56	1♓32	21♉44	16♉13	2♉23	4♌37	1♎32	1♈14	8♏55	22♒46	29°R 6	0♉ 5	1♒14	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	13n49	17s58	2n32	3n39	3s18	24n20	3n52	3n43	0s45	21n18	1n 8	1n31	2n48	0s37	0s40	13s 6	1n54	28s11	14s58	23s43	23s42	18s35			n.a.
M 2	14 8	14 15	3 23	3 40	3 23	24 11	3 45	4 1	0 44	21 17	1 8	1 32	2 48	0 36	0 40	13 5	1 54	28 11	14 58	23 43	23 42	18 33			n.a.
T 3	14 26	9 57	4 7	3 43	3 27	24 0	3 37	4 19	0 44	21 15	1 8	1 33	2 48	0 35	0 40	13 5	1 54	28 11	14 59	23 43	23 42	18 31			n.a.
W 4	14 45	5 13	4 40	3 50	3 31	23 49	3 29	4 36	0 43	21 14	1 8	1 35	2 48	0 33	0 40	13 4	1 54	28 11	14 59	23 43	23 42	18 29			n.a.
T 5	15 3	0 11	5 1	3 58	3 33	23 36	3 20	4 54	0 43	21 13	1 8	1 36	2 48	0 32	0 40	13 4	1 54	28 11	15 0	23 43	23 42	18 27			n.a.
F 6	15 21	4n58	5 8	4 9	3 34	23 22	3 10	5 11	0 42	21 11	1 8	1 37	2 47	0 31	0 40	13 3	1 54	28 11	15 0	23 43	23 42	18 25			n.a.
S 7	15 39	10 3	4 59	4 23	3 35	23 8	3 1	5 29	0 42	21 10	1 8	1 38	2 47	0 30	0 40	13 3	1 54	28 12	15 0	23 43	23 43	18 23			n.a.
S 8	15 57	14 48	4 34	4 39	3 35	22 52	2 50	5 46	0 41	21 8	1 7	1 39	2 47	0 29	0 40	13 2	1 54	28 12	15 1	23 43	23 43	18 21			n.a.
M 9	16 14	18 54	3 53	4 57	3 33	22 35	2 39	6 3	0 41	21 6	1 7	1 40	2 47	0 28	0 40	13 1	1 54	28 12	15 1	23 43	23 43	18 18			n.a.
T 10	16 31	22 1	2 57	5 17	3 31	22 18	2 28	6 20	0 40	21 5	1 7	1 41	2 47	0 27	0 41	13 1	1 54	28 12	15 1	23 43	23 43	18 16			n.a.
W11	16 48	23 50	1 49	5 40	3 28	21 59	2 16	6 37	0 40	21 3	1 7	1 41	2 46	0 26	0 41	13 0	1 54	28 12	15 2	23 43	23 43	18 14			n.a.
T 12	17 5	24 6	0 34	6 4	3 25	21 40	2 4	6 54	0 39	21 1	1 7	1 42	2 46	0 25	0 41	13 0	1 54	28 13	15 2	23 43	23 43	18 12			n.a.
F 13	17 21	22 47	0s43	6 30	3 21	21 19	1 51	7 11	0 39	21 0	1 7	1 43	2 46	0 24	0 41	12 59	1 54	28 13	15 2	23 43	23 43	18 10			n.a.
S 14	17 37	19 58	1 58	6 58	3 15	20 58	1 38	7 28	0 38	20 58	1 7	1 44	2 46	0 23	0 41	12 59	1 54	28 13	15 3	23 43	23 43	18 8			n.a.
S 15	17 53	15 58	3 6	7 27	3 10	20 37	1 25	7 45	0 37	20 56	1 7	1 45	2 46	0 22	0 41	12 59	1 54	28 13	15 3	23 43	23 43	18 6			n.a.
M16	18 8	11 5	4 1	7 59	3 3	20 14	1 11	8 2	0 37	20 54	1 7	1 45	2 45	0 21	0 41	12 58	1 54	28 14	15 4	23 43	23 43	18 3			n.a.
T 17	18 24	5 40	4 42	8 31	2 56	19 52	0 58	8 18	0 36	20 52	1 6	1 46	2 45	0 20	0 41	12 58	1 53	28 14	15 4	23 43	23 43	18 1			n.a.
W18	18 38	0 1	5 5	9 6	2 49	19 29	0 44	8 35	0 36	20 50	1 6	1 46	2 45	0 19	0 41	12 57	1 53	28 14	15 4	23 43	23 43	17 59			n.a.
T 19	18 53	5s33	5 11	9 41	2 41	19 6	0 30	8 51	0 35	20 49	1 6	1 47	2 45	0 18	0 41	12 57	1 53	28 14	15 5	23 43	23 43	17 57			n.a.
F 20	19 7	10 47	4 59	10 18	2 32	18 42	0 16	9 7	0 35	20 47	1 6	1 48	2 44	0 17	0 41	12 56	1 53	28 15	15 5	23 43	23 43	17 55			n.a.
S 21	19 21	15 25	4 31	10 56	2 23	18 19	0 2	9 24	0 34	20 45	1 6	1 48	2 44	0 16	0 41	12 56	1 53	28 15	15 5	23 43	23 43	17 53			n.a.
S 22	19 35	19 14	3 49	11 35	2 13	17 56	0s12	9 40	0 34	20 43	1 6	1 49	2 44	0 15	0 41	12 55	1 53	28 15	15 6	23 43	23 43	17 51			n.a.
M23	19 48	22 3	2 56	12 15	2 3	17 33	0 26	9 56	0 33	20 41	1 6	1 49	2 44	0 14	0 41	12 55	1 53	28 16	15 6	23 43	23 43	17 48			n.a.
T 24	20 1	23 42	1 55	12 56	1 53	17 10	0 40	10 12	0 32	20 38	1 6	1 49	2 44	0 14	0 41	12 54	1 53	28 16	15 7	23 43	23 43	17 46			n.a.
W25	20 14	24 9	0 50	13 37	1 42	16 48	0 53	10 27	0 32	20 36	1 6	1 50	2 43	0 13	0 41	12 54	1 53	28 16	15 7	23 43	23 43	17 44			n.a.
T 26	20 26	23 25	0n17	14 19	1 31	16 27	1 6	10 43	0 31	20 34	1 6	1 50	2 43	0 12	0 41	12 53	1 53	28 17	15 7	23 43	23 43	17 42			n.a.
F 27	20 38	21 37	1 22	15 1	1 20	16 6	1 19	10 59	0 31	20 32	1 5	1 50	2 43	0 11	0 41	12 53	1 53	28 17	15 8	23 43	23 43	17 40			n.a.
S 28	20 50	18 53	2 23	15 44	1 9	15 46	1 32	11 14	0 30	20 30	1 5	1 51	2 43	0 10	0 41	12 52	1 53	28 17	15 8	23 43	23 43	17 37			n.a.
S 29	21 1	15 22	3 17	16 27	0 57	15 27	1 44	11 30	0 29	20 27	1 5	1 51	2 42	0 9	0 41	12 52	1 53	28 18	15 8	23 43	23 43	17 35			n.a.
M30	21 12	11 16	4 3	17 9	0 46	15 9	1 55	11 45	0 29	20 25	1 5	1 51	2 42	0 9	0 41	12 52	1 53	28 18	15 9	23 43	23 43	17 33			n.a.
T 31	21n23	6s42	4n39	17n51	0s34	14n52	2s 7	12n 0	0s28	20n23	1n 5	1n51	2n42	0s 8	0s41	12s51	1n53	28s18	15s 9	23s43	23s43	17s31			n.a.

Julian Day Number = 1660181.5, Delta T = 03h26m10s
Ecliptic obliquity = 23°42'56, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°22'57, Lahiri = - 6°15'56 Julian Calendar 1 May 168 BCE == Greg. Calendar 28 Apr. 168 BCE

The year -167 astronomical counting style corresponds to year 168 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 168 BCE
geocentric

JUNE 168 BCE (-167) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 23 50	5♊57'03	13♓39	23♉42	15°R53	3♉ 5	4♌46	1°R32	1♈16	8°R54	22°R46	29°R 6	0♑ 2	1♒20	n.a.	W 1
T 2	16 27 46	6°54'09	26° 2	25°43	15♉35	3°47	4°56	1♎31	1°17	8♏53	22♒46	29♐ 5	29♐58	1°27	n.a.	T 2
F 3	16 31 43	7°51'16	8♈44	27°46	15°20	4°28	5° 5	1°30	1°19	8°51	22°46	29° 3	29°55	1°34	n.a.	F 3
S 4	16 35 39	8°48'23	21°49	29°50	15° 7	5°10	5°15	1°30	1°21	8°50	22°46	29° 0	29°52	1°40	n.a.	S 4
S 5	16 39 36	9°45'31	5♉17	1♊56	14°56	5°52	5°24	1°30	1°23	8°49	22°46	28°58	29°49	1°47	n.a.	S 5
M 6	16 43 33	10°42'39	19° 9	4° 3	14°48	6°33	5°34	1°29	1°24	8°47	22°45	28°55	29°46	1°54	n.a.	M 6
T 7	16 47 29	11°39'47	3♊22	6°12	14°42	7°15	5°44	1°29	1°26	8°46	22°45	28°53	29°42	2° 0	n.a.	T 7
W 8	16 51 26	12°36'56	17°53	8°21	14°39	7°56	5°54	1°D29	1°28	8°45	22°45	28°52	29°39	2° 7	n.a.	W 8
T 9	16 55 22	13°34'05	2♋34	10°30	14°D38	8°37	6° 4	1°29	1°29	8°43	22°45	28°D52	29°36	2°14	n.a.	T 9
F 10	16 59 19	14°31'14	17°19	12°40	14°39	9°19	6°14	1°29	1°31	8°42	22°44	28°53	29°33	2°20	n.a.	F 10
S 11	17 3 15	15°28'23	2♌ 2	14°49	14°42	10° 0	6°24	1°29	1°32	8°41	22°44	28°54	29°30	2°27	n.a.	S 11
S 12	17 7 12	16°25'32	16°37	16°58	14°48	10°41	6°35	1°30	1°34	8°40	22°44	28°55	29°27	2°34	n.a.	S 12
M13	17 11 9	17°22'41	0♍59	19° 7	14°55	11°22	6°45	1°30	1°35	8°39	22°43	28°55	29°23	2°40	n.a.	M13
T 14	17 15 5	18°19'51	15° 6	21°14	15° 5	12° 3	6°55	1°31	1°36	8°37	22°43	28°R56	29°20	2°47	n.a.	T 14
W15	17 19 2	19°17'00	28°55	23°21	15°17	12°44	7° 6	1°31	1°38	8°36	22°42	28°56	29°17	2°54	n.a.	W15
T 16	17 22 58	20°14'10	12♎27	25°26	15°31	13°25	7°17	1°32	1°39	8°35	22°42	28°55	29°14	3° 0	n.a.	T 16
F 17	17 26 55	21°11'20	25°43	27°30	15°47	14° 6	7°27	1°33	1°40	8°34	22°42	28°54	29°11	3° 7	n.a.	F 17
S 18	17 30 51	22° 8'30	8♏42	29°32	16° 5	14°46	7°38	1°34	1°41	8°33	22°41	28°53	29° 7	3°14	n.a.	S 18
S 19	17 34 48	23° 5'40	21°27	1♋33	16°25	15°27	7°49	1°35	1°42	8°32	22°41	28°53	29° 4	3°20	n.a.	S 19
M20	17 38 44	24° 2'51	3♐59	3°33	16°46	16° 8	8° 0	1°36	1°43	8°31	22°40	28°52	29° 1	3°27	n.a.	M20
T 21	17 42 41	25° 0'03	16°19	5°31	17° 9	16°48	8°11	1°37	1°44	8°30	22°39	28°52	28°58	3°34	n.a.	T 21
W22	17 46 38	25°57'16	28°29	7°27	17°34	17°29	8°22	1°38	1°45	8°29	22°39	28°D52	28°55	3°40	n.a.	W22
T 23	17 50 34	26°54'29	10♑30	9°21	18° 1	18° 9	8°33	1°39	1°46	8°28	22°38	28°52	28°52	3°47	n.a.	T 23
F 24	17 54 31	27°51'42	22°24	11°14	18°29	18°50	8°44	1°41	1°47	8°27	22°38	28°52	28°48	3°54	n.a.	F 24
S 25	17 58 27	28°48'57	4♒15	13° 5	18°58	19°30	8°56	1°42	1°48	8°26	22°37	28°R52	28°45	4° 0	n.a.	S 25
S 26	18 2 24	29°46'13	16° 4	14°54	19°29	20°10	9° 7	1°44	1°49	8°25	22°36	28°52	28°42	4° 7	n.a.	S 26
M27	18 6 20	0♋43'29	27°55	16°42	20° 2	20°50	9°18	1°46	1°49	8°25	22°36	28°52	28°39	4°14	n.a.	M27
T 28	18 10 17	1°40'47	9♓52	18°28	20°35	21°30	9°30	1°48	1°50	8°24	22°35	28°51	28°36	4°20	n.a.	T 28
W29	18 14 13	2°38'06	21°59	20°12	21°10	22°10	9°41	1°50	1°51	8°23	22°34	28°51	28°33	4°27	n.a.	W29
T 30	18 18 10	3♋35'26	4♈20	21♋55	21♉47	22♉50	9♌53	1♎52	1♈51	8♏22	22♒34	28°D51	28♐29	4♒34	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21n33	1s50	5n 4	18n33	0s23	14n35	2s18	12n15	0s28	20n20	1n 5	1n51	2n42	0s 7	0s41	12s51	1n53	28s19	15s10	23s43	23s43	17s29		n.a.
T 2	21 43	3n12	5 15	19 14	0 11	14 20	2 28	12 30	0 27	20 18	1 5	1 51	2 41	0 6	0 41	12 50	1 53	28 19	15 10	23 43	23 43	17 27		n.a.
F 3	21 52	8 15	5 11	19 53	0n 0	14 6	2 38	12 45	0 26	20 16	1 5	1 51	2 41	0 6	0 41	12 50	1 53	28 20	15 10	23 43	23 43	17 24		n.a.
S 4	22 1	13 4	4 51	20 32	0 11	13 54	2 47	13 0	0 26	20 13	1 5	1 51	2 41	0 5	0 41	12 49	1 53	28 20	15 11	23 43	23 43	17 22		n.a.
S 5	22 10	17 25	4 14	21 9	0 22	13 42	2 56	13 14	0 25	20 11	1 5	1 51	2 41	0 4	0 41	12 49	1 53	28 20	15 11	23 43	23 43	17 20		n.a.
M 6	22 19	20 57	3 22	21 44	0 32	13 31	3 5	13 29	0 24	20 8	1 5	1 51	2 40	0 4	0 41	12 49	1 53	28 21	15 11	23 43	23 43	17 18		n.a.
T 7	22 27	23 18	2 16	22 17	0 42	13 22	3 13	13 43	0 24	20 6	1 4	1 51	2 40	0 3	0 41	12 48	1 53	28 21	15 12	23 43	23 43	17 15		n.a.
W 8	22 34	24 10	1 0	22 48	0 51	13 14	3 20	13 57	0 23	20 3	1 4	1 50	2 40	0 3	0 41	12 48	1 53	28 22	15 12	23 43	23 43	17 13		n.a.
T 9	22 41	23 21	0s20	23 16	1 0	13 7	3 27	14 11	0 23	20 1	1 4	1 50	2 39	0 2	0 41	12 48	1 53	28 22	15 12	23 43	23 43	17 11		n.a.
F 10	22 48	20 55	1 40	23 42	1 8	13 1	3 34	14 25	0 22	19 58	1 4	1 50	2 39	0 1	0 41	12 47	1 53	28 22	15 13	23 43	23 43	17 9		n.a.
S 11	22 55	17 7	2 54	24 6	1 16	12 56	3 40	14 39	0 21	19 55	1 4	1 50	2 39	0 1	0 41	12 47	1 53	28 23	15 13	23 43	23 43	17 7		n.a.
S 12	23 1	12 18	3 55	24 26	1 22	12 52	3 46	14 52	0 21	19 53	1 4	1 49	2 39	0 0	0 41	12 47	1 53	28 23	15 13	23 43	23 43	17 4		n.a.
M13	23 6	6 53	4 40	24 44	1 29	12 49	3 51	15 6	0 20	19 50	1 4	1 49	2 38	0n 0	0 41	12 46	1 53	28 24	15 14	23 43	23 43	17 2		n.a.
T 14	23 12	1 13	5 8	24 59	1 34	12 47	3 56	15 19	0 19	19 47	1 4	1 48	2 38	0 1	0 41	12 46	1 53	28 24	15 14	23 43	23 43	17 0		n.a.
W15	23 17	4s24	5 17	25 11	1 39	12 47	4 0	15 33	0 19	19 44	1 4	1 48	2 38	0 1	0 41	12 46	1 53	28 25	15 15	23 43	23 43	16 58		n.a.
T 16	23 21	9 42	5 8	25 21	1 43	12 47	4 4	15 46	0 18	19 42	1 4	1 47	2 38	0 2	0 41	12 45	1 52	28 25	15 15	23 43	23 43	16 55		n.a.
F 17	23 25	14 26	4 43	25 27	1 46	12 48	4 8	15 59	0 17	19 39	1 4	1 47	2 37	0 2	0 41	12 45	1 52	28 26	15 15	23 43	23 43	16 53		n.a.
S 18	23 29	18 24	4 4	25 31	1 48	12 50	4 11	16 11	0 17	19 36	1 4	1 46	2 37	0 3	0 42	12 45	1 52	28 26	15 16	23 43	23 43	16 51		n.a.
S 19	23 32	21 26	3 13	25 32	1 50	12 52	4 14	16 24	0 16	19 33	1 4	1 46	2 37	0 3	0 42	12 44	1 52	28 27	15 16	23 43	23 43	16 49		n.a.
M20	23 35	23 23	2 14	25 31	1 51	12 56	4 17	16 37	0 15	19 30	1 4	1 45	2 37	0 3	0 42	12 44	1 52	28 27	15 16	23 43	23 43	16 46		n.a.
T 21	23 37	24 9	1 9	25 28	1 52	13 0	4 19	16 49	0 15	19 27	1 4	1 44	2 36	0 4	0 42	12 44	1 52	28 28	15 17	23 43	23 43	16 44		n.a.
W22	23 39	23 45	0 2	25 22	1 52	13 5	4 21	17 1	0 14	19 24	1 3	1 43	2 36	0 4	0 42	12 44	1 52	28 28	15 17	23 43	23 43	16 42		n.a.
T 23	23 41	22 14	1n 4	25 13	1 51	13 11	4 23	17 13	0 13	19 21	1 3	1 43	2 36	0 5	0 42	12 43	1 52	28 29	15 17	23 43	23 43	16 40		n.a.
F 24	23 42	19 44	2 7	25 3	1 50	13 17	4 24	17 25	0 12	19 18	1 3	1 42	2 36	0 5	0 42	12 43	1 52	28 29	15 18	23 43	23 43	16 37		n.a.
S 25	23 43	16 26	3 4	24 51	1 48	13 24	4 26	17 37	0 12	19 15	1 3	1 41	2 35	0 5	0 42	12 43	1 52	28 30	15 18	23 43	23 43	16 35		n.a.
S 26	23 43	12 30	3 53	24 37	1 45	13 32	4 26	17 49	0 11	19 12	1 3	1 40	2 35	0 5	0 42	12 43	1 52	28 30	15 18	23 43	23 43	16 33		n.a.
M27	23 43	8 4	4 32	24 21	1 42	13 40	4 27	18 0	0 10	19 9	1 3	1 39	2 35	0 6	0 42	12 42	1 52	28 31	15 18	23 43	23 42	16 31		n.a.
T 28	23 42	3 20	5 0	24 3	1 39	13 49	4 27	18 12	0 10	19 6	1 3	1 38	2 34	0 6	0 42	12 42	1 52	28 31	15 19	23 43	23 42	16 28		n.a.
W29	23 41	1n36	5 15	23 44	1 35	13 58	4 27	18 23	0 9	19 3	1 3	1 37	2 34	0 6	0 42	12 42	1 52	28 32	15 19	23 43	23 42	16 26		n.a.
T 30	23n40	6n34	5n16	23n23	1n30	14n 7	4s27	18n34	0s 8	18n59	1n 3	1n36	2n34	0n 6	0s42	12s42	1n52	28s32	15s19	23s43	23s42	16s24		n.a.

Julian Day Number = 1660212.5, Delta T = 03h26m09s
Ecliptic obliquity = 23°42'56, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°22'53, Lahiri = - 6°15'52 Julian Calendar 1 June 168 BCE == Greg. Calendar 29 May 168 BCE

The year -167 astronomical counting style corresponds to year 168 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 168 BCE
geocentric

JULY 168 BCE (-167) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 22 7	4♋32'47	16♈59	23♋35	22♉24	23♉30	10♌ 4	1♎54	1♈52	8°R21	22°R33	28♐51	28♐26	4♒40	n.a.	F 1
S 2	18 26 3	5°30'09	29°59	25°14	23° 3	24°10	10°16	1°56	1°52	8♏21	22♒32	28°52	28°23	4°47	n.a.	S 2
S 3	18 30 0	6°27'33	13♉26	26°52	23°42	24°50	10°28	1°58	1°53	8°20	22°31	28°52	28°20	4°54	n.a.	S 3
M 4	18 33 56	7°24'58	27°18	28°28	24°23	25°30	10°40	2° 1	1°53	8°19	22°31	28°53	28°17	5° 0	n.a.	M 4
T 5	18 37 53	8°22'25	11♊36	0♌ 2	25° 5	26° 9	10°52	2° 3	1°53	8°19	22°30	28°54	28°13	5° 7	n.a.	T 5
W 6	18 41 49	9°19'52	26°16	1°34	25°48	26°49	11° 4	2° 6	1°54	8°18	22°29	28°R54	28°10	5°14	n.a.	W 6
T 7	18 45 46	10°17'21	11♋13	3° 5	26°31	27°29	11°15	2° 8	1°54	8°18	22°28	28°54	28° 7	5°20	n.a.	T 7
F 8	18 49 43	11°14'52	26°18	4°34	27°16	28° 8	11°28	2°11	1°54	8°17	22°27	28°53	28° 4	5°27	n.a.	F 8
S 9	18 53 39	12°12'23	11♌23	6° 1	28° 2	28°47	11°40	2°14	1°54	8°17	22°26	28°52	28° 1	5°34	n.a.	S 9
S 10	18 57 36	13° 9'55	26°18	7°27	28°48	29°27	11°52	2°17	1°54	8°16	22°26	28°50	27°58	5°40	n.a.	S 10
M11	19 1 32	14° 7'28	10♍57	8°51	29°35	0♊ 6	12° 4	2°20	1°R54	8°16	22°25	28°48	27°54	5°47	n.a.	M11
T 12	19 5 29	15° 5'02	25°14	10°13	0♊23	0°45	12°16	2°23	1°54	8°15	22°24	28°47	27°51	5°54	n.a.	T 12
W13	19 9 25	16° 2'37	9♎ 8	11°33	1°12	1°24	12°28	2°26	1°54	8°15	22°23	28°46	27°48	6° 0	n.a.	W13
T 14	19 13 22	17° 0'13	22°37	12°51	2° 1	2° 3	12°41	2°29	1°54	8°15	22°22	28°D46	27°45	6° 7	n.a.	T 14
F 15	19 17 18	17°57'51	5♏44	14° 8	2°51	2°42	12°53	2°33	1°54	8°14	22°21	28°47	27°42	6°14	n.a.	F 15
S 16	19 21 15	18°55'29	18°31	15°22	3°42	3°21	13° 5	2°36	1°54	8°14	22°20	28°48	27°39	6°21	n.a.	S 16
S 17	19 25 12	19°53'09	1♐ 1	16°34	4°34	4° 0	13°18	2°40	1°53	8°14	22°19	28°50	27°35	6°27	n.a.	S 17
M18	19 29 8	20°50'50	13°17	17°45	5°26	4°39	13°30	2°43	1°53	8°14	22°18	28°51	27°32	6°34	n.a.	M18
T 19	19 33 5	21°48'32	25°24	18°53	6°18	5°18	13°43	2°47	1°53	8°13	22°17	28°R52	27°29	6°41	n.a.	T 19
W20	19 37 1	22°46'16	7♑23	19°58	7°12	5°56	13°55	2°51	1°52	8°13	22°16	28°51	27°26	6°47	n.a.	W20
T 21	19 40 58	23°44'01	19°16	21° 2	8° 6	6°35	14° 8	2°55	1°52	8°13	22°15	28°50	27°23	6°54	n.a.	T 21
F 22	19 44 54	24°41'47	1♒ 7	22° 2	9° 0	7°13	14°20	2°59	1°51	8°13	22°14	28°47	27°19	7° 1	n.a.	F 22
S 23	19 48 51	25°39'35	12°56	23° 0	9°55	7°52	14°33	3° 3	1°51	8°13	22°13	28°43	27°16	7° 7	n.a.	S 23
S 24	19 52 47	26°37'25	24°47	23°56	10°51	8°30	14°46	3° 7	1°50	8°D13	22°12	28°39	27°13	7°14	n.a.	S 24
M25	19 56 44	27°35'16	6♓41	24°48	11°47	9° 8	14°58	3°11	1°50	8°13	22°11	28°34	27°10	7°21	n.a.	M25
T 26	20 0 41	28°33'09	18°41	25°37	12°43	9°47	15°11	3°15	1°49	8°13	22° 9	28°29	27° 7	7°27	n.a.	T 26
W27	20 4 37	29°31'04	0♈49	26°23	13°41	10°25	15°24	3°19	1°48	8°13	22° 8	28°25	27° 4	7°34	n.a.	W27
T 28	20 8 34	0♌29'01	13°10	27° 6	14°38	11° 3	15°36	3°24	1°47	8°13	22° 7	28°22	27° 0	7°41	n.a.	T 28
F 29	20 12 30	1°27'00	25°46	27°45	15°36	11°41	15°49	3°28	1°47	8°13	22° 6	28°D21	26°57	7°47	n.a.	F 29
S 30	20 16 27	2°25'01	8♉42	28°19	16°35	12°19	16° 2	3°33	1°46	8°13	22° 5	28°21	26°54	7°54	n.a.	S 30
S 31	20 20 23	3♌23'04	22♉ 1	28♌50	17♊33	12♊57	16♌15	3♎37	1♈45	8♏14	22♒ 4	28♐22	26♐51	8♒ 1	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23n38	11n23	5n 2	23n 2	1n25	14n17	4s27	18n45	0s 8	18n56	1n 3	1n35	2n34	0n 7	0s42	12s42	1n52	28s33	15s20	23s43	23s42	16s21		n.a.
S 2	23 36	15 50	4 32	22 38	1 20	14 27	4 26	18 55	0 7	18 53	1 3	1 34	2 33	0 7	0 42	12 41	1 52	28 33	15 20	23 43	23 42	16 19		n.a.
S 3	23 33	19 39	3 46	22 14	1 14	14 38	4 26	19 6	0 6	18 50	1 3	1 33	2 33	0 7	0 42	12 41	1 52	28 34	15 20	23 43	23 42	16 17		n.a.
M 4	23 30	22 29	2 46	21 49	1 8	14 49	4 25	19 16	0 5	18 46	1 3	1 31	2 33	0 7	0 42	12 41	1 52	28 34	15 20	23 43	23 42	16 15		n.a.
T 5	23 27	24 0	1 34	21 23	1 1	15 0	4 23	19 26	0 5	18 43	1 3	1 30	2 33	0 7	0 42	12 41	1 51	28 35	15 21	23 43	23 42	16 12		n.a.
W 6	23 23	23 54	0 15	20 55	0 54	15 11	4 22	19 36	0 4	18 40	1 3	1 29	2 32	0 7	0 42	12 41	1 51	28 36	15 21	23 43	23 42	16 10		n.a.
T 7	23 19	22 7	1s 8	20 28	0 47	15 23	4 21	19 46	0 3	18 36	1 3	1 28	2 32	0 7	0 42	12 41	1 51	28 36	15 21	23 43	23 42	16 8		n.a.
F 8	23 14	18 45	2 26	19 59	0 40	15 34	4 19	19 56	0 3	18 33	1 3	1 26	2 32	0 7	0 42	12 41	1 51	28 37	15 22	23 43	23 42	16 5		n.a.
S 9	23 9	14 8	3 34	19 30	0 32	15 46	4 17	20 5	0 2	18 29	1 3	1 25	2 32	0 7	0 42	12 40	1 51	28 37	15 22	23 43	23 42	16 3		n.a.
S 10	23 3	8 43	4 27	19 0	0 24	15 58	4 15	20 15	0 1	18 26	1 3	1 24	2 31	0 7	0 42	12 40	1 51	28 38	15 22	23 43	23 42	16 1		n.a.
M11	22 57	2 54	5 1	18 30	0 15	16 11	4 13	20 24	0 0	18 23	1 3	1 22	2 31	0 7	0 42	12 40	1 51	28 38	15 22	23 43	23 42	15 59		n.a.
T 12	22 51	2s54	5 16	18 0	0 7	16 23	4 11	20 33	0n 0	18 19	1 3	1 21	2 31	0 7	0 42	12 40	1 51	28 39	15 23	23 43	23 42	15 56		n.a.
W13	22 44	8 25	5 11	17 29	0s 2	16 35	4 8	20 42	0 1	18 16	1 3	1 19	2 31	0 7	0 42	12 40	1 51	28 39	15 23	23 43	23 42	15 54		n.a.
T 14	22 37	13 22	4 49	16 58	0 11	16 47	4 6	20 51	0 2	18 12	1 3	1 18	2 30	0 7	0 42	12 40	1 51	28 40	15 23	23 43	23 42	15 52		n.a.
F 15	22 30	17 33	4 13	16 27	0 21	17 0	4 3	20 59	0 3	18 8	1 3	1 16	2 30	0 7	0 42	12 40	1 51	28 40	15 23	23 43	23 42	15 49		n.a.
S 16	22 22	20 48	3 25	15 56	0 30	17 12	4 0	21 8	0 3	18 5	1 3	1 15	2 30	0 7	0 42	12 40	1 51	28 41	15 24	23 43	23 42	15 47		n.a.
S 17	22 13	23 0	2 28	15 25	0 40	17 25	3 57	21 16	0 4	18 1	1 3	1 13	2 30	0 7	0 42	12 40	1 51	28 42	15 24	23 43	23 42	15 45		n.a.
M18	22 5	24 4	1 25	14 54	0 50	17 37	3 54	21 24	0 5	17 58	1 3	1 11	2 29	0 7	0 42	12 40	1 51	28 42	15 24	23 43	23 42	15 42		n.a.
T 19	21 56	23 57	0 19	14 23	1 0	17 49	3 51	21 32	0 6	17 54	1 3	1 10	2 29	0 6	0 42	12 40	1 51	28 43	15 24	23 43	23 41	15 40		n.a.
W20	21 46	22 44	0n47	13 53	1 10	18 1	3 48	21 39	0 7	17 50	1 3	1 8	2 29	0 6	0 42	12 40	1 51	28 43	15 24	23 43	23 41	15 38		n.a.
T 21	21 36	20 30	1 50	13 23	1 20	18 13	3 45	21 47	0 7	17 47	1 3	1 6	2 29	0 6	0 43	12 40	1 50	28 44	15 25	23 43	23 41	15 35		n.a.
F 22	21 26	17 25	2 48	12 54	1 31	18 25	3 41	21 54	0 8	17 43	1 3	1 4	2 29	0 6	0 43	12 40	1 50	28 44	15 25	23 43	23 41	15 33		n.a.
S 23	21 15	13 38	3 39	12 25	1 41	18 36	3 38	22 1	0 9	17 39	1 3	1 2	2 28	0 6	0 43	12 40	1 50	28 45	15 25	23 43	23 41	15 31		n.a.
S 24	21 4	9 20	4 20	11 57	1 52	18 48	3 34	22 8	0 10	17 35	1 3	1 1	2 28	0 5	0 43	12 40	1 50	28 45	15 25	23 42	23 41	15 28		n.a.
M25	20 53	4 40	4 50	11 29	2 2	18 59	3 30	22 15	0 10	17 32	1 3	0 59	2 28	0 5	0 43	12 40	1 50	28 46	15 25	23 42	23 41	15 26		n.a.
T 26	20 41	0n11	5 8	11 3	2 13	19 10	3 26	22 21	0 11	17 28	1 3	0 57	2 28	0 5	0 43	12 40	1 50	28 47	15 26	23 42	23 41	15 24		n.a.
W27	20 29	5 6	5 12	10 37	2 23	19 21	3 23	22 28	0 12	17 24	1 3	0 55	2 27	0 4	0 43	12 40	1 50	28 47	15 26	23 42	23 41	15 21		n.a.
T 28	20 17	9 53	5 2	10 13	2 34	19 32	3 19	22 34	0 13	17 20	1 3	0 53	2 27	0 4	0 43	12 40	1 50	28 48	15 26	23 42	23 41	15 19		n.a.
F 29	20 4	14 22	4 38	9 50	2 44	19 42	3 15	22 40	0 14	17 16	1 3	0 51	2 27	0 4	0 43	12 41	1 50	28 48	15 26	23 42	23 41	15 17		n.a.
S 30	19 51	18 19	3 58	9 28	2 54	19 52	3 11	22 46	0 14	17 13	1 3	0 49	2 27	0 3	0 43	12 41	1 50	28 49	15 26	23 42	23 41	15 14		n.a.
S 31	19n37	21n28	3n 6	9n 9	3s 4	20n 2	3s 7	22n52	0n15	17n 9	1n 3	0n47	2n27	0n 3	0s43	12s41	1n50	28s49	15s26	23s42	23s41	15s12		n.a.

Julian Day Number = 1660242.5, Delta T = 03h26m08s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°22'49, Lahiri = - 6°15'48 Julian Calendar 1 July 168 BCE == Greg. Calendar 28 June 168 BCE

The year -167 astronomical counting style corresponds to year 168 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 168 BCE
geocentric

AUGUST 168 BCE (-167) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 24 20	4♌21'09	5♊45	29♌16	18♊33	13♊34	16♌28	3♎42	1°R44	8♏14	22°R 3	28♐24	26♐48	8♒ 7	n.a.	M 1
T 2	20 28 16	5°19'17	19°55	29°37	19°32	14°12	16°41	3°47	1♈43	8°14	22♒ 1	28°25	26°45	8°14	n.a.	T 2
W 3	20 32 13	6°17'26	4♋31	29°54	20°32	14°50	16°54	3°51	1°42	8°14	22° 0	28°R25	26°41	8°21	n.a.	W 3
T 4	20 36 10	7°15'37	19°29	0♍ 5	21°33	15°27	17° 6	3°56	1°41	8°15	21°59	28°23	26°38	8°27	n.a.	T 4
F 5	20 40 6	8°13'50	4♌40	0°R10	22°34	16° 5	17°19	4° 1	1°39	8°15	21°58	28°20	26°35	8°34	n.a.	F 5
S 6	20 44 3	9°12'05	19°56	0°10	23°35	16°42	17°32	4° 6	1°38	8°15	21°57	28°15	26°32	8°41	n.a.	S 6
S 7	20 47 59	10°10'22	5♍ 5	0° 3	24°36	17°19	17°45	4°11	1°37	8°16	21°56	28° 9	26°29	8°47	n.a.	S 7
M 8	20 51 56	11° 8'41	19°59	29♌50	25°38	17°57	17°58	4°16	1°36	8°16	21°54	28° 2	26°25	8°54	n.a.	M 8
T 9	20 55 52	12° 7'01	4♎30	29°31	26°40	18°34	18°11	4°22	1°34	8°17	21°53	27°57	26°22	9° 1	n.a.	T 9
W10	20 59 49	13° 5'22	18°32	29° 5	27°43	19°11	18°24	4°27	1°33	8°17	21°52	27°52	26°19	9° 7	n.a.	W10
T 11	21 3 45	14° 3'46	2♏ 6	28°32	28°45	19°48	18°37	4°32	1°32	8°18	21°51	27°50	26°16	9°14	n.a.	T 11
F 12	21 7 42	15° 2'11	15°13	27°54	29°48	20°25	18°50	4°38	1°30	8°19	21°49	27°D49	26°13	9°21	n.a.	F 12
S 13	21 11 38	16° 0'38	27°56	27° 9	0♋52	21° 2	19° 3	4°43	1°29	8°19	21°48	27°50	26°10	9°28	n.a.	S 13
S 14	21 15 35	16°59'07	10♐19	26°18	1°55	21°38	19°16	4°48	1°27	8°20	21°47	27°51	26° 6	9°34	n.a.	S 14
M15	21 19 32	17°57'37	22°28	25°23	2°59	22°15	19°29	4°54	1°26	8°21	21°46	27°R52	26° 3	9°41	n.a.	M15
T 16	21 23 28	18°56'09	4♑26	24°25	4° 3	22°52	19°42	5° 0	1°24	8°21	21°45	27°52	26° 0	9°48	n.a.	T 16
W17	21 27 25	19°54'44	16°18	23°23	5° 8	23°28	19°55	5° 5	1°22	8°22	21°43	27°50	25°57	9°54	n.a.	W17
T 18	21 31 21	20°53'19	28° 8	22°20	6°13	24° 4	20° 8	5°11	1°21	8°23	21°42	27°46	25°54	10° 1	n.a.	T 18
F 19	21 35 18	21°51'57	9♒57	21°16	7°18	24°41	20°21	5°17	1°19	8°24	21°41	27°39	25°51	10° 8	n.a.	F 19
S 20	21 39 14	22°50'37	21°49	20°15	8°23	25°17	20°34	5°23	1°17	8°24	21°40	27°30	25°47	10°14	n.a.	S 20
S 21	21 43 11	23°49'19	3♓44	19°16	9°28	25°53	20°48	5°28	1°16	8°25	21°38	27°20	25°44	10°21	n.a.	S 21
M22	21 47 7	24°48'03	15°45	18°22	10°34	26°29	21° 1	5°34	1°14	8°26	21°37	27° 9	25°41	10°28	n.a.	M22
T 23	21 51 4	25°46'49	27°53	17°34	11°40	27° 5	21°14	5°40	1°12	8°27	21°36	26°58	25°38	10°34	n.a.	T 23
W24	21 55 1	26°45'37	10♈ 9	16°53	12°46	27°41	21°27	5°46	1°10	8°28	21°35	26°49	25°35	10°41	n.a.	W24
T 25	21 58 57	27°44'28	22°35	16°20	13°53	28°17	21°40	5°52	1° 8	8°29	21°34	26°41	25°31	10°48	n.a.	T 25
F 26	22 2 54	28°43'21	5♉14	15°56	14°59	28°52	21°53	5°59	1° 6	8°30	21°32	26°36	25°28	10°54	n.a.	F 26
S 27	22 6 50	29°42'16	18° 8	15°43	16° 6	29°28	22° 6	6° 5	1° 4	8°31	21°31	26°34	25°25	11° 1	n.a.	S 27
S 28	22 10 47	0♍41'14	1♊21	15°D39	17°13	0♋ 3	22°18	6°11	1° 2	8°32	21°30	26°D33	25°22	11° 8	n.a.	S 28
M29	22 14 43	1°40'14	14°55	15°45	18°20	0°39	22°31	6°17	1° 0	8°33	21°29	26°34	25°19	11°14	n.a.	M29
T 30	22 18 40	2°39'17	28°53	16° 2	19°28	1°14	22°44	6°23	0°58	8°35	21°27	26°R34	25°16	11°21	n.a.	T 30
W31	22 22 36	3♍38'22	13♋15	16♌28	20♋36	1♋49	22♌57	6♎30	0♈56	8♏36	21♒26	26♐33	25♐12	11♒28	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
M 1	19n24	23n29	2n 1	8n51	3s13	20n11	3s 2	22n57	0n16	17n 5	1n 3	0n45	2n26	0n 3	0s43	12s41	1n50	28s50	15s26	23s42	23s41	15s10		n.a.	M 1
T 2	19 9	24 6	0 46	8 34	3 23	20 20	2 58	23 3	0 17	17 1	1 3	0 43	2 26	0 2	0 43	12 41	1 50	28 50	15 27	23 42	23 40	15 7		n.a.	T 2
W 3	18 55	23 5	0s33	8 20	3 32	20 29	2 54	23 8	0 18	16 57	1 3	0 41	2 26	0 2	0 43	12 41	1 50	28 51	15 27	23 42	23 40	15 5		n.a.	W 3
T 4	18 40	20 26	1 52	8 9	3 40	20 37	2 50	23 13	0 19	16 53	1 3	0 39	2 26	0 1	0 43	12 41	1 50	28 51	15 27	23 42	23 40	15 2		n.a.	T 4
F 5	18 25	16 20	3 4	8 0	3 48	20 45	2 45	23 18	0 19	16 49	1 3	0 36	2 26	0 1	0 43	12 42	1 49	28 52	15 27	23 42	23 40	15 0		n.a.	F 5
S 6	18 10	11 10	4 3	7 53	3 55	20 53	2 41	23 23	0 20	16 45	1 3	0 34	2 25	0 0	0 43	12 42	1 49	28 52	15 27	23 42	23 40	14 58		n.a.	S 6
S 7	17 54	5 20	4 45	7 50	4 1	21 0	2 37	23 27	0 21	16 41	1 3	0 32	2 25	0s 0	0 43	12 42	1 49	28 53	15 27	23 42	23 40	14 55		n.a.	S 7
M 8	17 38	0s41	5 6	7 49	4 6	21 6	2 32	23 31	0 22	16 37	1 3	0 30	2 25	0 1	0 43	12 42	1 49	28 53	15 27	23 42	23 40	14 53		n.a.	M 8
T 9	17 21	6 30	5 7	7 52	4 10	21 13	2 28	23 36	0 23	16 33	1 3	0 28	2 25	0 1	0 43	12 42	1 49	28 54	15 27	23 42	23 40	14 51		n.a.	T 9
W10	17 5	11 48	4 50	7 59	4 13	21 19	2 23	23 40	0 24	16 29	1 3	0 25	2 25	0 2	0 43	12 43	1 49	28 54	15 27	23 42	23 40	14 48		n.a.	W10
T 11	16 48	16 20	4 16	8 9	4 14	21 24	2 19	23 43	0 24	16 25	1 3	0 23	2 25	0 3	0 43	12 43	1 49	28 55	15 27	23 42	23 40	14 46		n.a.	T 11
F 12	16 31	19 55	3 30	8 22	4 14	21 29	2 14	23 47	0 25	16 21	1 3	0 21	2 24	0 3	0 43	12 43	1 49	28 55	15 28	23 42	23 40	14 43		n.a.	F 12
S 13	16 13	22 26	2 35	8 40	4 12	21 33	2 10	23 51	0 26	16 17	1 3	0 18	2 24	0 4	0 43	12 43	1 49	28 56	15 28	23 42	23 40	14 41		n.a.	S 13
S 14	15 55	23 48	1 33	9 0	4 8	21 37	2 5	23 54	0 27	16 13	1 3	0 16	2 24	0 4	0 43	12 44	1 49	28 56	15 28	23 42	23 39	14 39		n.a.	S 14
M15	15 37	23 59	0 29	9 24	4 3	21 41	2 0	23 57	0 28	16 9	1 3	0 14	2 24	0 5	0 43	12 44	1 49	28 57	15 28	23 42	23 39	14 36		n.a.	M15
T 16	15 19	23 3	0n35	9 51	3 55	21 43	1 56	24 0	0 29	16 5	1 3	0 11	2 24	0 6	0 43	12 44	1 49	28 57	15 28	23 42	23 39	14 34		n.a.	T 16
W17	15 1	21 6	1 38	10 20	3 45	21 46	1 51	24 3	0 30	16 0	1 3	0 9	2 24	0 6	0 43	12 45	1 49	28 58	15 28	23 42	23 39	14 32		n.a.	W17
T 18	14 42	18 14	2 35	10 52	3 34	21 48	1 47	24 5	0 30	15 56	1 3	0 6	2 23	0 7	0 43	12 45	1 49	28 58	15 28	23 42	23 39	14 29		n.a.	T 18
F 19	14 23	14 39	3 26	11 25	3 20	21 49	1 42	24 8	0 31	15 52	1 3	0 4	2 23	0 8	0 43	12 45	1 49	28 59	15 28	23 42	23 39	14 27		n.a.	F 19
S 20	14 4	10 29	4 8	11 59	3 5	21 50	1 37	24 10	0 32	15 48	1 3	0 1	2 23	0 9	0 43	12 46	1 49	28 59	15 28	23 41	23 39	14 24		n.a.	S 20
S 21	13 44	5 55	4 39	12 33	2 48	21 50	1 33	24 12	0 33	15 44	1 4	0s 1	2 23	0 9	0 43	12 46	1 48	29 0	15 28	23 41	23 39	14 22		n.a.	S 21
M22	13 24	1 6	4 58	13 7	2 30	21 50	1 28	24 14	0 34	15 40	1 4	0 4	2 23	0 10	0 43	12 46	1 48	29 0	15 28	23 41	23 39	14 20		n.a.	M22
T 23	13 4	3n47	5 4	13 40	2 12	21 49	1 23	24 16	0 35	15 35	1 4	0 6	2 23	0 11	0 43	12 47	1 48	29 0	15 28	23 41	23 39	14 17		n.a.	T 23
W24	12 44	8 35	4 56	14 10	1 52	21 47	1 19	24 18	0 36	15 31	1 4	0 9	2 22	0 12	0 43	12 47	1 48	29 1	15 28	23 41	23 38	14 15		n.a.	W24
T 25	12 24	13 7	4 34	14 39	1 33	21 45	1 14	24 19	0 37	15 27	1 4	0 11	2 22	0 12	0 43	12 47	1 48	29 1	15 28	23 40	23 38	14 12		n.a.	T 25
F 26	12 3	17 9	3 58	15 5	1 13	21 42	1 10	24 20	0 38	15 23	1 4	0 14	2 22	0 13	0 43	12 48	1 48	29 2	15 28	23 40	23 38	14 10		n.a.	F 26
S 27	11 42	20 28	3 10	15 28	0 53	21 39	1 5	24 21	0 39	15 19	1 4	0 16	2 22	0 14	0 43	12 48	1 48	29 2	15 28	23 40	23 38	14 8		n.a.	S 27
S 28	11 21	22 47	2 10	15 47	0 35	21 35	1 1	24 22	0 40	15 15	1 4	0 19	2 22	0 15	0 43	12 49	1 48	29 2	15 28	23 40	23 38	14 5		n.a.	S 28
M29	11 0	23 52	1 2	16 2	0 16	21 31	0 56	24 23	0 41	15 10	1 4	0 21	2 22	0 16	0 43	12 49	1 48	29 3	15 28	23 40	23 38	14 3		n.a.	M29
T 30	10 39	23 30	0s12	16 14	0n 1	21 26	0 52	24 24	0 41	15 6	1 4	0 24	2 22	0 16	0 43	12 49	1 48	29 3	15 28	23 40	23 38	14 0		n.a.	T 30
W31	10n17	21n36	1s28	16n21	0n17	21n20	0s47	24n25	0n42	15n 2	1n 4	0s27	2n22	0s17	0s43	12s50	1n48	29s 4	15s28	23s40	23s38	13s58		n.a.	W31

Julian Day Number = 1660273.5, Delta T = 03h26m07s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°22'44, Lahiri = - 6°15'44 Julian Calendar 1 Aug. 168 BCE == Greg. Calendar 29 July 168 BCE

The year -167 astronomical counting style corresponds to year 168 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 168 BCE
geocentric

SEPTEMBER 168 BCE (-167) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 26 33	4♍37'30	28♋ 0	17♌ 4	21♋43	2♋25	23♌10	6♎36	0°R54	8♏37	21°R25	26°R30	25♐ 9	11♒35	n.a.	T 1
F 2	22 30 30	5°36'40	13♌ 1	17°48	22°52	3° 0	23°23	6°43	0♈52	8°38	21♒24	26♐24	25° 6	11°41	n.a.	F 2
S 3	22 34 26	6°35'52	28°11	18°41	24° 0	3°34	23°36	6°49	0°50	8°39	21°23	26°15	25° 3	11°48	n.a.	S 3
S 4	22 38 23	7°35'06	13♍20	19°42	25° 8	4° 9	23°49	6°56	0°47	8°41	21°22	26° 5	25° 0	11°55	n.a.	S 4
M 5	22 42 19	8°34'22	28°18	20°49	26°17	4°44	24° 2	7° 2	0°45	8°42	21°20	25°54	24°57	12° 1	n.a.	M 5
T 6	22 46 16	9°33'40	12♎55	22° 3	27°26	5°18	24°15	7° 9	0°43	8°43	21°19	25°44	24°53	12° 8	n.a.	T 6
W 7	22 50 12	10°33'01	27° 5	23°21	28°34	5°53	24°27	7°15	0°41	8°45	21°18	25°36	24°50	12°15	n.a.	W 7
T 8	22 54 9	11°32'23	10♏45	24°45	29°44	6°27	24°40	7°22	0°38	8°46	21°17	25°30	24°47	12°21	n.a.	T 8
F 9	22 58 5	12°31'47	23°57	26°13	0♌53	7° 2	24°53	7°29	0°36	8°48	21°16	25°26	24°44	12°28	n.a.	F 9
S 10	23 2 2	13°31'13	6♐42	27°44	2° 2	7°36	25° 6	7°35	0°34	8°49	21°15	25°25	24°41	12°35	n.a.	S 10
S 11	23 5 58	14°30'41	19° 5	29°18	3°12	8°10	25°18	7°42	0°31	8°51	21°13	25°25	24°37	12°41	n.a.	S 11
M12	23 9 55	15°30'11	1♑13	0♍54	4°21	8°44	25°31	7°49	0°29	8°52	21°12	25°25	24°34	12°48	n.a.	M12
T 13	23 13 52	16°29'43	13° 9	2°32	5°31	9°17	25°43	7°55	0°27	8°54	21°11	25°24	24°31	12°55	n.a.	T 13
W14	23 17 48	17°29'17	24°59	4°12	6°41	9°51	25°56	8° 2	0°24	8°55	21°10	25°21	24°28	13° 1	n.a.	W14
T 15	23 21 45	18°28'52	6♒47	5°53	7°51	10°25	26° 9	8° 9	0°22	8°57	21° 9	25°15	24°25	13° 8	n.a.	T 15
F 16	23 25 41	19°28'30	18°38	7°35	9° 2	10°58	26°21	8°16	0°20	8°58	21° 8	25° 6	24°22	13°15	n.a.	F 16
S 17	23 29 38	20°28'09	0♓34	9°17	10°12	11°31	26°34	8°23	0°17	9° 0	21° 7	24°55	24°18	13°22	n.a.	S 17
S 18	23 33 34	21°27'50	12°37	11° 0	11°23	12° 4	26°46	8°30	0°15	9° 2	21° 6	24°41	24°15	13°28	n.a.	S 18
M19	23 37 31	22°27'33	24°48	12°43	12°33	12°37	26°58	8°37	0°12	9° 3	21° 5	24°27	24°12	13°35	n.a.	M19
T 20	23 41 27	23°27'19	7♈ 9	14°26	13°44	13°10	27°11	8°44	0°10	9° 5	21° 4	24°13	24° 9	13°42	n.a.	T 20
W21	23 45 24	24°27'06	19°39	16° 9	14°55	13°43	27°23	8°51	0° 7	9° 7	21° 3	24° 0	24° 6	13°48	n.a.	W21
T 22	23 49 21	25°26'56	2♉18	17°52	16° 6	14°16	27°35	8°58	0° 5	9° 8	21° 2	23°50	24° 2	13°55	n.a.	T 22
F 23	23 53 17	26°26'48	15° 9	19°35	17°18	14°48	27°47	9° 5	0° 2	9°10	21° 1	23°43	23°59	14° 2	n.a.	F 23
S 24	23 57 14	27°26'43	28°12	21°17	18°29	15°21	28° 0	9°12	0° 0	9°12	21° 0	23°39	23°56	14° 8	n.a.	S 24
S 25	0 1 10	28°26'39	11♊28	22°59	19°40	15°53	28°12	9°19	29♓58	9°14	20°59	23°37	23°53	14°15	n.a.	S 25
M26	0 5 7	29°26'38	25° 0	24°40	20°52	16°25	28°24	9°26	29°55	9°16	20°58	23°37	23°50	14°22	n.a.	M26
T 27	0 9 3	0♎26'40	8♋49	26°22	22° 4	16°57	28°36	9°33	29°53	9°17	20°57	23°37	23°47	14°28	n.a.	T 27
W28	0 13 0	1°26'43	22°56	28° 2	23°15	17°29	28°48	9°40	29°50	9°19	20°56	23°35	23°43	14°35	n.a.	W28
T 29	0 16 56	2°26'49	7♌22	29°42	24°27	18° 1	29° 0	9°47	29°48	9°21	20°55	23°32	23°40	14°42	n.a.	T 29
F 30	0 20 53	3♎26'57	22♌ 2	1♎22	25♌39	18♋32	29♌12	9♎54	29♓45	9♏23	20♒55	23♐26	23♐37	14♒49	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n55	18n13	2s39	16n24	0n32	21n14	0s43	24n25	0n43	14n58	1n 4	0s29	2n21	0s18	0s43	12s50	1n48	29s 4	15s28	23s40	23s38	13s55		n.a.
F 2	9 34	13 35	3 40	16 24	0 46	21 7	0 39	24 25	0 44	14 53	1 4	0 32	2 21	0 19	0 43	12 51	1 48	29 4	15 28	23 40	23 37	13 53		n.a.
S 3	9 12	8 4	4 27	16 19	0 58	21 0	0 34	24 25	0 45	14 49	1 4	0 35	2 21	0 20	0 44	12 51	1 48	29 5	15 27	23 40	23 37	13 51		n.a.
S 4	8 49	2 6	4 54	16 11	1 9	20 52	0 30	24 25	0 46	14 45	1 5	0 37	2 21	0 21	0 44	12 52	1 48	29 5	15 27	23 39	23 37	13 48		n.a.
M 5	8 27	3s55	5 2	15 58	1 19	20 43	0 26	24 25	0 47	14 41	1 5	0 40	2 21	0 22	0 44	12 52	1 48	29 5	15 27	23 39	23 37	13 46		n.a.
T 6	8 4	9 34	4 49	15 42	1 28	20 34	0 21	24 25	0 48	14 36	1 5	0 43	2 21	0 23	0 44	12 53	1 47	29 6	15 27	23 39	23 37	13 43		n.a.
W 7	7 42	14 33	4 18	15 23	1 35	20 24	0 17	24 24	0 49	14 32	1 5	0 46	2 21	0 24	0 44	12 53	1 47	29 6	15 27	23 38	23 37	13 41		n.a.
T 8	7 19	18 36	3 33	15 1	1 42	20 14	0 13	24 23	0 50	14 28	1 5	0 48	2 21	0 24	0 44	12 54	1 47	29 6	15 27	23 38	23 37	13 38		n.a.
F 9	6 56	21 32	2 39	14 36	1 47	20 3	0 9	24 23	0 51	14 24	1 5	0 51	2 21	0 25	0 44	12 54	1 47	29 6	15 27	23 38	23 37	13 36		n.a.
S 10	6 33	23 17	1 38	14 8	1 51	19 51	0 5	24 22	0 52	14 20	1 5	0 54	2 20	0 26	0 44	12 55	1 47	29 7	15 27	23 38	23 36	13 34		n.a.
S 11	6 10	23 49	0 34	13 37	1 54	19 39	0 1	24 21	0 53	14 15	1 5	0 57	2 20	0 27	0 44	12 55	1 47	29 7	15 27	23 38	23 36	13 31		n.a.
M12	5 47	23 12	0n31	13 5	1 56	19 26	0n 3	24 20	0 54	14 11	1 5	0 59	2 20	0 28	0 44	12 56	1 47	29 7	15 27	23 38	23 36	13 29		n.a.
T 13	5 23	21 31	1 32	12 30	1 57	19 13	0 7	24 18	0 55	14 7	1 5	1 2	2 20	0 29	0 44	12 56	1 47	29 8	15 26	23 38	23 36	13 26		n.a.
W14	5 0	18 56	2 30	11 54	1 57	18 59	0 11	24 17	0 56	14 3	1 5	1 5	2 20	0 30	0 44	12 57	1 47	29 8	15 26	23 38	23 36	13 24		n.a.
T 15	4 36	15 34	3 20	11 16	1 57	18 45	0 14	24 15	0 57	13 58	1 6	1 8	2 20	0 31	0 44	12 57	1 47	29 8	15 26	23 38	23 36	13 21		n.a.
F 16	4 13	11 35	4 2	10 37	1 56	18 30	0 18	24 14	0 58	13 54	1 6	1 11	2 20	0 32	0 44	12 58	1 47	29 8	15 26	23 37	23 36	13 19		n.a.
S 17	3 49	7 8	4 33	9 56	1 54	18 14	0 22	24 12	0 59	13 50	1 6	1 13	2 20	0 33	0 44	12 58	1 47	29 8	15 26	23 37	23 35	13 16		n.a.
S 18	3 25	2 24	4 53	9 15	1 52	17 58	0 25	24 10	1 0	13 46	1 6	1 16	2 20	0 34	0 44	12 59	1 47	29 9	15 26	23 36	23 35	13 14		n.a.
M19	3 2	2n29	5 0	8 32	1 49	17 42	0 29	24 8	1 1	13 42	1 6	1 19	2 20	0 35	0 44	13 0	1 47	29 9	15 26	23 36	23 35	13 12		n.a.
T 20	2 38	7 20	4 52	7 49	1 46	17 25	0 32	24 6	1 3	13 38	1 6	1 22	2 20	0 36	0 44	13 0	1 47	29 9	15 25	23 35	23 35	13 9		n.a.
W21	2 14	11 56	4 31	7 5	1 42	17 7	0 36	24 3	1 4	13 33	1 6	1 25	2 20	0 37	0 44	13 1	1 47	29 9	15 25	23 35	23 35	13 7		n.a.
T 22	1 50	16 5	3 56	6 21	1 38	16 49	0 39	24 1	1 5	13 29	1 6	1 27	2 20	0 38	0 44	13 1	1 47	29 9	15 25	23 34	23 35	13 4		n.a.
F 23	1 26	19 34	3 8	5 36	1 34	16 30	0 42	23 58	1 6	13 25	1 7	1 30	2 20	0 39	0 44	13 2	1 47	29 10	15 25	23 34	23 35	13 2		n.a.
S 24	1 2	22 6	2 10	4 51	1 29	16 11	0 46	23 56	1 7	13 21	1 7	1 33	2 19	0 40	0 44	13 3	1 47	29 10	15 25	23 34	23 34	12 59		n.a.
S 25	0 38	23 28	1 4	4 6	1 24	15 51	0 49	23 53	1 8	13 17	1 7	1 36	2 19	0 41	0 44	13 3	1 47	29 10	15 24	23 34	23 34	12 57		n.a.
M26	0 13	23 30	0s 7	3 21	1 19	15 31	0 52	23 50	1 9	13 13	1 7	1 39	2 19	0 42	0 44	13 4	1 47	29 10	15 24	23 34	23 34	12 54		n.a.
T 27	0s11	22 6	1 20	2 35	1 13	15 11	0 55	23 47	1 10	13 9	1 7	1 42	2 19	0 43	0 44	13 4	1 46	29 10	15 24	23 34	23 34	12 52		n.a.
W28	0 35	19 18	2 28	1 49	1 8	14 50	0 58	23 44	1 11	13 4	1 7	1 44	2 19	0 44	0 44	13 5	1 46	29 10	15 24	23 33	23 34	12 49		n.a.
T 29	0 59	15 16	3 29	1 4	1 2	14 28	1 0	23 41	1 13	13 0	1 7	1 47	2 19	0 45	0 44	13 6	1 46	29 10	15 24	23 33	23 34	12 47		n.a.
F 30	1s23	10n16	4s17	0n18	0n56	14n 6	1n 3	23n38	1n14	12n56	1n 7	1s50	2n19	0s46	0s44	13s 6	1n46	29s10	15s23	23s33	23s34	12s44		n.a.

Julian Day Number = 1660304.5, Delta T = 03h26m06s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°22'40, Lahiri = - 6°15'40 Julian Calendar 1 Sept. 168 BCE == Greg. Calendar 29 Aug. 168 BCE

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ASTRODIENST EPHEMERIS for the year 168 BCE
geocentric

OCTOBER 168 BCE (-167) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 24 49	4♎27'07	6♍51	3♎ 1	26♌51	19♋ 3	29♌23	10♎ 1	29°R43	9♏25	20°R54	23°R17	23♐34	14♒55	n.a.	S 1
S 2	0 28 46	5°27'20	21°43	4°40	28° 4	19°35	29°35	10° 8	29♓40	9°27	20♒53	23♐ 6	23°31	15° 2	n.a.	S 2
M 3	0 32 43	6°27'34	6♎27	6°18	29°16	20° 6	29°47	10°15	29°38	9°29	20°52	22°54	23°28	15° 9	n.a.	M 3
T 4	0 36 39	7°27'50	20°56	7°56	0♍28	20°36	29°58	10°22	29°35	9°31	20°51	22°43	23°24	15°15	n.a.	T 4
W 5	0 40 36	8°28'08	5♏ 4	9°33	1°41	21° 7	0♍10	10°29	29°33	9°33	20°51	22°33	23°21	15°22	n.a.	W 5
T 6	0 44 32	9°28'28	18°45	11°10	2°54	21°38	0°21	10°37	29°31	9°35	20°50	22°26	23°18	15°29	n.a.	T 6
F 7	0 48 29	10°28'49	1♐59	12°47	4° 6	22° 8	0°33	10°44	29°28	9°37	20°49	22°22	23°15	15°35	n.a.	F 7
S 8	0 52 25	11°29'12	14°48	14°23	5°19	22°38	0°44	10°51	29°26	9°39	20°48	22°21	23°12	15°42	n.a.	S 8
S 9	0 56 22	12°29'36	27°15	15°59	6°32	23° 8	0°55	10°58	29°23	9°41	20°48	22°D20	23° 8	15°49	n.a.	S 9
M10	1 0 18	13°30'03	9♑24	17°34	7°45	23°38	1° 7	11° 5	29°21	9°43	20°47	22°R21	23° 5	15°55	n.a.	M10
T 11	1 4 15	14°30'30	21°22	19° 9	8°58	24° 8	1°18	11°12	29°19	9°45	20°46	22°21	23° 2	16° 2	n.a.	T 11
W12	1 8 12	15°30'59	3♒13	20°44	10°11	24°37	1°29	11°19	29°16	9°47	20°46	22°19	22°59	16° 9	n.a.	W12
T 13	1 12 8	16°31'29	15° 3	22°18	11°24	25° 6	1°40	11°26	29°14	9°49	20°45	22°15	22°56	16°16	n.a.	T 13
F 14	1 16 5	17°32'01	26°55	23°52	12°37	25°35	1°51	11°34	29°12	9°51	20°45	22° 8	22°53	16°22	n.a.	F 14
S 15	1 20 1	18°32'34	8♓56	25°26	13°51	26° 4	2° 1	11°41	29° 9	9°54	20°44	21°59	22°49	16°29	n.a.	S 15
S 16	1 23 58	19°33'09	21° 6	26°59	15° 4	26°33	2°12	11°48	29° 7	9°56	20°43	21°48	22°46	16°36	n.a.	S 16
M17	1 27 54	20°33'45	3♈28	28°32	16°17	27° 1	2°23	11°55	29° 5	9°58	20°43	21°37	22°43	16°42	n.a.	M17
T 18	1 31 51	21°34'23	16° 3	0♏ 5	17°31	27°29	2°33	12° 2	29° 3	10° 0	20°42	21°25	22°40	16°49	n.a.	T 18
W19	1 35 47	22°35'02	28°51	1°38	18°45	27°57	2°44	12° 9	29° 0	10° 2	20°42	21°15	22°37	16°56	n.a.	W19
T 20	1 39 44	23°35'42	11♉51	3°10	19°58	28°25	2°54	12°16	28°58	10° 4	20°41	21° 6	22°33	17° 2	n.a.	T 20
F 21	1 43 41	24°36'25	25° 3	4°42	21°12	28°53	3° 4	12°23	28°56	10° 7	20°41	21° 1	22°30	17° 9	n.a.	F 21
S 22	1 47 37	25°37'09	8♊25	6°14	22°26	29°20	3°15	12°30	28°54	10° 9	20°41	20°58	22°27	17°16	n.a.	S 22
S 23	1 51 34	26°37'55	21°57	7°46	23°40	29°47	3°25	12°37	28°52	10°11	20°40	20°D57	22°24	17°23	n.a.	S 23
M24	1 55 30	27°38'42	5♋39	9°18	24°54	0♌14	3°35	12°44	28°50	10°13	20°40	20°58	22°21	17°29	n.a.	M24
T 25	1 59 27	28°39'31	19°31	10°49	26° 8	0°41	3°45	12°51	28°48	10°15	20°40	20°59	22°18	17°36	n.a.	T 25
W26	2 3 23	29°40'22	3♌33	12°20	27°22	1° 7	3°55	12°58	28°46	10°18	20°39	20°R59	22°14	17°43	n.a.	W26
T 27	2 7 20	0♏41'14	17°45	13°51	28°36	1°33	4° 4	13° 5	28°44	10°20	20°39	20°58	22°11	17°49	n.a.	T 27
F 28	2 11 16	1°42'08	2♍ 4	15°21	29°50	1°59	4°14	13°12	28°42	10°22	20°39	20°54	22° 8	17°56	n.a.	F 28
S 29	2 15 13	2°43'03	16°27	16°52	1♎ 4	2°24	4°23	13°19	28°40	10°24	20°38	20°48	22° 5	18° 3	n.a.	S 29
S 30	2 19 10	3°44'00	0♎51	18°22	2°18	2°50	4°33	13°25	28°38	10°27	20°38	20°41	22° 2	18° 9	n.a.	S 30
M31	2 23 6	4♏44'58	15♎ 9	19♏51	3♎32	3♌15	4♍42	13♎32	28♓36	10♏29	20♒38	20♐33	21♐59	18♒16	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	1s47	4n38	4s49	0s27	0n50	13n44	1n 6	23n35	1n15	12n52	1n 8	1s53	2n19	0s47	0s44	13s 7	1n46	29s11	15s23	23s33	23s33	12s42		n.a.
S 2	2 11	1s16	5 1	1 13	0 44	13 21	1 8	23 31	1 16	12 48	1 8	1 56	2 19	0 48	0 44	13 8	1 46	29 11	15 23	23 32	23 33	12 40		n.a.
M 3	2 36	7 3	4 53	1 58	0 37	12 58	1 11	23 28	1 17	12 44	1 8	1 59	2 19	0 49	0 44	13 8	1 46	29 11	15 23	23 31	23 33	12 37		n.a.
T 4	3 0	12 21	4 26	2 43	0 31	12 34	1 13	23 24	1 18	12 40	1 8	2 1	2 19	0 50	0 44	13 9	1 46	29 11	15 22	23 31	23 33	12 35		n.a.
W 5	3 24	16 51	3 43	3 27	0 24	12 10	1 16	23 21	1 20	12 36	1 8	2 4	2 19	0 51	0 44	13 10	1 46	29 11	15 22	23 30	23 33	12 32		n.a.
T 6	3 48	20 17	2 48	4 12	0 18	11 46	1 18	23 17	1 21	12 32	1 8	2 7	2 19	0 52	0 44	13 10	1 46	29 11	15 22	23 30	23 33	12 30		n.a.
F 7	4 12	22 32	1 46	4 56	0 11	11 21	1 20	23 13	1 22	12 28	1 9	2 10	2 19	0 53	0 44	13 11	1 46	29 11	15 22	23 30	23 32	12 27		n.a.
S 8	4 36	23 30	0 40	5 40	0 5	10 56	1 22	23 10	1 23	12 24	1 9	2 13	2 19	0 54	0 43	13 12	1 46	29 11	15 21	23 29	23 32	12 25		n.a.
S 9	4 59	23 15	0n26	6 23	0s 2	10 31	1 24	23 6	1 25	12 21	1 9	2 15	2 19	0 55	0 43	13 12	1 46	29 11	15 21	23 29	23 32	12 22		n.a.
M10	5 23	21 53	1 30	7 6	0 8	10 5	1 26	23 2	1 26	12 17	1 9	2 18	2 19	0 55	0 43	13 13	1 46	29 11	15 21	23 29	23 32	12 20		n.a.
T 11	5 47	19 34	2 28	7 49	0 15	9 39	1 28	22 58	1 27	12 13	1 9	2 21	2 19	0 56	0 43	13 14	1 46	29 11	15 21	23 29	23 32	12 17		n.a.
W12	6 11	16 26	3 20	8 31	0 22	9 13	1 30	22 54	1 28	12 9	1 9	2 24	2 19	0 57	0 43	13 14	1 46	29 11	15 20	23 29	23 32	12 15		n.a.
T 13	6 34	12 39	4 2	9 13	0 28	8 47	1 31	22 50	1 30	12 5	1 10	2 27	2 19	0 58	0 43	13 15	1 46	29 11	15 20	23 29	23 31	12 12		n.a.
F 14	6 58	8 23	4 35	9 54	0 35	8 20	1 33	22 46	1 31	12 1	1 10	2 29	2 19	0 59	0 43	13 16	1 46	29 11	15 20	23 29	23 31	12 10		n.a.
S 15	7 21	3 45	4 56	10 35	0 41	7 53	1 34	22 41	1 32	11 58	1 10	2 32	2 19	1 0	0 43	13 17	1 46	29 11	15 20	23 28	23 31	12 7		n.a.
S 16	7 44	1n 4	5 3	11 15	0 47	7 25	1 36	22 37	1 34	11 54	1 10	2 35	2 19	1 1	0 43	13 17	1 46	29 10	15 19	23 28	23 31	12 5		n.a.
M17	8 7	5 55	4 57	11 55	0 53	6 57	1 37	22 33	1 35	11 50	1 10	2 38	2 19	1 2	0 43	13 18	1 46	29 10	15 19	23 27	23 31	12 2		n.a.
T 18	8 30	10 37	4 36	12 34	1 0	6 30	1 38	22 29	1 36	11 47	1 10	2 41	2 19	1 3	0 43	13 19	1 46	29 10	15 19	23 26	23 31	12 0		n.a.
W19	8 53	14 56	4 1	13 12	1 6	6 2	1 40	22 24	1 38	11 43	1 11	2 43	2 19	1 4	0 43	13 19	1 46	29 10	15 18	23 25	23 30	11 57		n.a.
T 20	9 16	18 37	3 13	13 50	1 12	5 33	1 41	22 20	1 39	11 39	1 11	2 46	2 19	1 4	0 43	13 20	1 46	29 10	15 18	23 25	23 30	11 55		n.a.
F 21	9 38	21 25	2 14	14 27	1 17	5 5	1 42	22 15	1 40	11 36	1 11	2 49	2 19	1 5	0 43	13 21	1 46	29 10	15 18	23 24	23 30	11 52		n.a.
S 22	10 1	23 4	1 7	15 4	1 23	4 36	1 42	22 11	1 42	11 32	1 11	2 51	2 19	1 6	0 43	13 21	1 46	29 10	15 17	23 24	23 30	11 50		n.a.
S 23	10 23	23 23	0s 5	15 39	1 29	4 7	1 43	22 7	1 43	11 29	1 11	2 54	2 19	1 7	0 43	13 22	1 46	29 10	15 17	23 24	23 30	11 47		n.a.
M24	10 45	22 17	1 18	16 14	1 34	3 38	1 44	22 2	1 45	11 25	1 12	2 57	2 20	1 8	0 43	13 23	1 46	29 9	15 17	23 24	23 29	11 45		n.a.
T 25	11 7	19 51	2 27	16 48	1 39	3 9	1 45	21 58	1 46	11 22	1 12	3 0	2 20	1 9	0 43	13 24	1 46	29 9	15 17	23 24	23 29	11 42		n.a.
W26	11 29	16 12	3 29	17 22	1 44	2 40	1 45	21 53	1 48	11 18	1 12	3 2	2 20	1 9	0 43	13 24	1 46	29 9	15 16	23 24	23 29	11 40		n.a.
T 27	11 51	11 36	4 18	17 54	1 49	2 11	1 46	21 49	1 49	11 15	1 12	3 5	2 20	1 10	0 43	13 25	1 46	29 9	15 16	23 24	23 29	11 37		n.a.
F 28	12 12	6 20	4 51	18 26	1 53	1 41	1 46	21 44	1 50	11 11	1 12	3 8	2 20	1 11	0 43	13 26	1 46	29 9	15 16	23 24	23 29	11 35		n.a.
S 29	12 33	0 42	5 7	18 56	1 57	1 12	1 46	21 40	1 52	11 8	1 13	3 10	2 20	1 12	0 43	13 26	1 46	29 9	15 15	23 24	23 29	11 32		n.a.
S 30	12 54	4s57	5 3	19 26	2 1	0 42	1 46	21 35	1 53	11 5	1 13	3 13	2 20	1 12	0 43	13 27	1 46	29 8	15 15	23 23	23 28	11 30		n.a.
M31	13s15	10s19	4s40	19s55	2s 5	0n12	1n47	21n31	1n55	11n 2	1n13	3s15	2n20	1s13	0s43	13s28	1n46	29s 8	15s15	23s22	23s28	11s27		n.a.

Julian Day Number = 1660334.5, Delta T = 03h26m05s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°22'36, Lahiri = - 6°15'36 Julian Calendar 1 Oct. 168 BCE == Greg. Calendar 28 Sept. 168 BCE

The year -167 astronomical counting style corresponds to year 168 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 168 BCE
geocentric

NOVEMBER 168 BCE (-167) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 27 3	5♏45'57	29♎15	21♏20	4♎47	3♌40	4♍51	13♎39	28°R34	10♏31	20°R38	20°R26	21♐55	18♒23	n.a.	T 1
W 2	2 30 59	6°46'58	13♏ 6	22°49	6° 1	4° 4	5° 0	13°46	28♓32	10°33	20♒38	20♐19	21°52	18°30	n.a.	W 2
T 3	2 34 56	7°48'00	26°36	24°17	7°16	4°28	5° 9	13°52	28°31	10°36	20°37	20°15	21°49	18°36	n.a.	T 3
F 4	2 38 52	8°49'02	9♐45	25°45	8°30	4°52	5°18	13°59	28°29	10°38	20°37	20°12	21°46	18°43	n.a.	F 4
S 5	2 42 49	9°50'06	22°32	27°12	9°44	5°16	5°27	14° 6	28°27	10°40	20°37	20°D12	21°43	18°50	n.a.	S 5
S 6	2 46 45	10°51'10	5♑ 0	28°38	10°59	5°39	5°35	14°12	28°26	10°42	20°37	20°13	21°39	18°56	n.a.	S 6
M 7	2 50 42	11°52'15	17°12	0♐ 3	12°14	6° 2	5°44	14°19	28°24	10°45	20°37	20°14	21°36	19° 3	n.a.	M 7
T 8	2 54 39	12°53'21	29°12	1°26	13°28	6°24	5°52	14°26	28°22	10°47	20°D37	20°16	21°33	19°10	n.a.	T 8
W 9	2 58 35	13°54'27	11♒ 4	2°49	14°43	6°47	6° 0	14°32	28°21	10°49	20°37	20°R17	21°30	19°16	n.a.	W 9
T 10	3 2 32	14°55'34	22°55	4°10	15°57	7° 8	6° 9	14°39	28°19	10°51	20°37	20°16	21°27	19°23	n.a.	T 10
F 11	3 6 28	15°56'42	4♓49	5°29	17°12	7°30	6°17	14°45	28°18	10°54	20°37	20°15	21°24	19°30	n.a.	F 11
S 12	3 10 25	16°57'49	16°51	6°46	18°27	7°51	6°24	14°52	28°17	10°56	20°37	20°11	21°20	19°37	n.a.	S 12
S 13	3 14 21	17°58'58	29° 4	8° 0	19°41	8°12	6°32	14°58	28°15	10°58	20°38	20° 6	21°17	19°43	n.a.	S 13
M14	3 18 18	19° 0'06	11♈33	9°12	20°56	8°33	6°40	15° 4	28°14	11° 0	20°38	20° 1	21°14	19°50	n.a.	M14
T 15	3 22 14	20° 1'16	24°19	10°20	22°11	8°53	6°47	15°11	28°13	11° 3	20°38	19°56	21°11	19°57	n.a.	T 15
W16	3 26 11	21° 2'26	7♉22	11°24	23°26	9°12	6°54	15°17	28°11	11° 5	20°38	19°51	21° 8	20° 3	n.a.	W16
T 17	3 30 8	22° 3'36	20°42	12°24	24°40	9°32	7° 2	15°23	28°10	11° 7	20°38	19°47	21° 5	20°10	n.a.	T 17
F 18	3 34 4	23° 4'47	4♊19	13°18	25°55	9°51	7° 9	15°29	28° 9	11° 9	20°39	19°45	21° 1	20°17	n.a.	F 18
S 19	3 38 1	24° 5'58	18° 8	14° 7	27°10	10° 9	7°15	15°35	28° 8	11°12	20°39	19°D44	20°58	20°23	n.a.	S 19
S 20	3 41 57	25° 7'11	2♋ 7	14°48	28°25	10°27	7°22	15°41	28° 7	11°14	20°39	19°44	20°55	20°30	n.a.	S 20
M21	3 45 54	26° 8'23	16°13	15°23	29°40	10°45	7°29	15°47	28° 6	11°16	20°39	19°46	20°52	20°37	n.a.	M21
T 22	3 49 50	27° 9'37	0♌23	15°48	0♏55	11° 2	7°35	15°53	28° 5	11°18	20°40	19°47	20°49	20°44	n.a.	T 22
W23	3 53 47	28°10'51	14°34	16° 4	2°10	11°19	7°42	15°59	28° 4	11°20	20°40	19°48	20°45	20°50	n.a.	W23
T 24	3 57 43	29°12'05	28°45	16°R10	3°25	11°35	7°48	16° 5	28° 3	11°23	20°41	19°R49	20°42	20°57	n.a.	T 24
F 25	4 1 40	0♐13'20	12♍54	16° 5	4°40	11°51	7°54	16°11	28° 2	11°25	20°41	19°48	20°39	21° 4	n.a.	F 25
S 26	4 5 37	1°14'35	26°57	15°49	5°55	12° 6	7°59	16°16	28° 2	11°27	20°41	19°47	20°36	21°10	n.a.	S 26
S 27	4 9 33	2°15'51	10♎55	15°21	7°10	12°21	8° 5	16°22	28° 1	11°29	20°42	19°45	20°33	21°17	n.a.	S 27
M28	4 13 30	3°17'08	24°43	14°40	8°25	12°35	8°11	16°28	28° 0	11°31	20°42	19°42	20°30	21°24	n.a.	M28
T 29	4 17 26	4°18'25	8♏20	13°49	9°40	12°49	8°16	16°33	28° 0	11°33	20°43	19°40	20°26	21°31	n.a.	T 29
W30	4 21 23	5♐19'42	21♏44	12♐48	10♏55	13♌ 3	8♍21	16♎39	27♓59	11♏36	20♒43	19♐38	20♐23	21♒37	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s36	15s 4	4s 0	20s22	2s 8	0s18	1n47	21n27	1n57	10n58	1n13	3s18	2n20	1s14	0s43	13s29	1n46	29s 8	15s14	23s22	23s28	11s25		n.a.
W 2	13 56	18 55	3 7	20 48	2 12	0 47	1 47	21 22	1 58	10 55	1 13	3 21	2 20	1 15	0 43	13 29	1 46	29 8	15 14	23 21	23 28	11 22		n.a.
T 3	14 16	21 38	2 4	21 14	2 14	1 17	1 46	21 18	2 0	10 52	1 14	3 23	2 20	1 15	0 43	13 30	1 46	29 7	15 14	23 21	23 28	11 20		n.a.
F 4	14 36	23 6	0 56	21 37	2 17	1 47	1 46	21 14	2 1	10 49	1 14	3 26	2 20	1 16	0 43	13 31	1 46	29 7	15 13	23 21	23 27	11 17		n.a.
S 5	14 56	23 17	0n13	22 0	2 18	2 17	1 46	21 9	2 3	10 46	1 14	3 28	2 20	1 17	0 43	13 32	1 46	29 7	15 13	23 21	23 27	11 15		n.a.
S 6	15 15	22 17	1 20	22 21	2 20	2 47	1 46	21 5	2 4	10 43	1 14	3 31	2 20	1 17	0 43	13 32	1 46	29 6	15 13	23 21	23 27	11 12		n.a.
M 7	15 34	20 15	2 22	22 41	2 21	3 17	1 45	21 1	2 6	10 40	1 15	3 33	2 21	1 18	0 43	13 33	1 46	29 6	15 12	23 21	23 27	11 10		n.a.
T 8	15 53	17 21	3 16	22 59	2 21	3 46	1 45	20 57	2 8	10 37	1 15	3 36	2 21	1 18	0 43	13 34	1 46	29 6	15 12	23 21	23 27	11 7		n.a.
W 9	16 12	13 46	4 2	23 16	2 21	4 16	1 44	20 53	2 9	10 34	1 15	3 38	2 21	1 19	0 43	13 34	1 46	29 6	15 12	23 21	23 26	11 5		n.a.
T 10	16 30	9 40	4 37	23 31	2 20	4 46	1 43	20 49	2 11	10 32	1 15	3 41	2 21	1 20	0 43	13 35	1 46	29 5	15 11	23 21	23 26	11 2		n.a.
F 11	16 48	5 11	5 1	23 45	2 19	5 15	1 43	20 45	2 13	10 29	1 16	3 43	2 21	1 20	0 43	13 36	1 46	29 5	15 11	23 21	23 26	10 59		n.a.
S 12	17 6	0 29	5 11	23 56	2 17	5 45	1 42	20 41	2 15	10 26	1 16	3 45	2 21	1 21	0 43	13 36	1 46	29 5	15 11	23 21	23 26	10 57		n.a.
S 13	17 23	4n20	5 8	24 6	2 14	6 14	1 41	20 37	2 16	10 23	1 16	3 48	2 21	1 21	0 43	13 37	1 46	29 4	15 10	23 20	23 25	10 54		n.a.
M14	17 40	9 4	4 50	24 14	2 10	6 43	1 40	20 33	2 18	10 21	1 16	3 50	2 21	1 22	0 43	13 38	1 46	29 4	15 10	23 20	23 25	10 52		n.a.
T 15	17 57	13 31	4 18	24 20	2 6	7 12	1 39	20 30	2 20	10 18	1 17	3 52	2 21	1 22	0 43	13 39	1 46	29 3	15 10	23 20	23 25	10 49		n.a.
W16	18 13	17 27	3 32	24 23	2 0	7 41	1 38	20 26	2 22	10 16	1 17	3 55	2 21	1 23	0 43	13 39	1 46	29 3	15 9	23 19	23 25	10 47		n.a.
T 17	18 30	20 35	2 33	24 25	1 54	8 10	1 37	20 22	2 23	10 13	1 17	3 57	2 22	1 23	0 42	13 40	1 46	29 3	15 9	23 19	23 25	10 44		n.a.
F 18	18 45	22 37	1 24	24 25	1 46	8 39	1 35	20 19	2 25	10 11	1 17	3 59	2 22	1 23	0 42	13 41	1 46	29 2	15 9	23 19	23 24	10 42		n.a.
S 19	19 1	23 19	0 9	24 22	1 37	9 7	1 34	20 16	2 27	10 9	1 18	4 2	2 22	1 24	0 42	13 41	1 46	29 2	15 8	23 19	23 24	10 39		n.a.
S 20	19 16	22 34	1s 8	24 17	1 27	9 36	1 33	20 13	2 29	10 6	1 18	4 4	2 22	1 24	0 42	13 42	1 46	29 2	15 8	23 19	23 24	10 37		n.a.
M21	19 31	20 23	2 21	24 9	1 15	10 4	1 31	20 9	2 31	10 4	1 18	4 6	2 22	1 25	0 42	13 43	1 46	29 1	15 8	23 19	23 24	10 34		n.a.
T 22	19 45	16 57	3 25	23 59	1 3	10 31	1 30	20 6	2 33	10 2	1 18	4 8	2 22	1 25	0 42	13 43	1 46	29 1	15 7	23 19	23 24	10 32		n.a.
W23	19 59	12 32	4 18	23 47	0 49	10 59	1 28	20 4	2 35	10 0	1 19	4 10	2 22	1 25	0 42	13 44	1 46	29 0	15 7	23 19	23 23	10 29		n.a.
T 24	20 13	7 27	4 54	23 32	0 33	11 26	1 27	20 1	2 37	9 58	1 19	4 12	2 23	1 26	0 42	13 45	1 46	29 0	15 7	23 19	23 23	10 27		n.a.
F 25	20 26	1 59	5 13	23 15	0 16	11 53	1 25	19 58	2 39	9 56	1 19	4 15	2 23	1 26	0 42	13 45	1 46	28 59	15 6	23 19	23 23	10 24		n.a.
S 26	20 39	3s33	5 13	22 56	0n 1	12 20	1 23	19 56	2 41	9 54	1 19	4 17	2 23	1 26	0 42	13 46	1 46	28 59	15 6	23 19	23 23	10 21		n.a.
S 27	20 51	8 52	4 54	22 34	0 20	12 47	1 21	19 53	2 43	9 52	1 20	4 19	2 23	1 26	0 42	13 47	1 46	28 58	15 6	23 19	23 22	10 19		n.a.
M28	21 3	13 41	4 19	22 10	0 40	13 13	1 20	19 51	2 45	9 50	1 20	4 21	2 23	1 27	0 42	13 47	1 46	28 58	15 5	23 19	23 22	10 16		n.a.
T 29	21 15	17 44	3 29	21 44	1 0	13 39	1 18	19 49	2 47	9 48	1 20	4 23	2 23	1 27	0 42	13 48	1 46	28 58	15 5	23 18	23 22	10 14		n.a.
W30	21s26	20s47	2s28	21s16	1n20	14s 4	1n16	19n47	2n49	9n46	1n21	4s25	2n23	1s27	0s42	13s49	1n46	28s57	15s 5	23s18	23s22	10s11		n.a.

Julian Day Number = 1660365.5, Delta T = 03h26m04s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°22'32, Lahiri = - 6°15'31 Julian Calendar 1 Nov. 168 BCE == Greg. Calendar 29 Oct. 168 BCE

The year -167 astronomical counting style corresponds to year 168 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 168 BCE
geocentric

DECEMBER 168 BCE (-167) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 25 19	6♐20'59	4♐54	11°R38	12♏10	13♌15	8♍26	16♎44	27°R59	11♏38	20♒44	19°R37	20♐20	21♒44	n.a.	T 1
F 2	4 29 16	7°22'16	17°47	10♐22	13°25	13°28	8°31	16°50	27♓58	11°40	20°44	19°D37	20°17	21°51	n.a.	F 2
S 3	4 33 13	8°23'33	0♑25	9° 2	14°40	13°39	8°36	16°55	27°58	11°42	20°45	19♐37	20°14	21°57	n.a.	S 3
S 4	4 37 9	9°24'49	12°48	7°41	15°55	13°50	8°40	17° 0	27°57	11°44	20°46	19°38	20°11	22° 4	n.a.	S 4
M 5	4 41 6	10°26'06	24°58	6°21	17°10	14° 1	8°45	17° 5	27°57	11°46	20°46	19°39	20° 7	22°11	n.a.	M 5
T 6	4 45 2	11°27'22	6♒58	5° 5	18°25	14°11	8°49	17°11	27°57	11°48	20°47	19°39	20° 4	22°17	n.a.	T 6
W 7	4 48 59	12°28'37	18°52	3°55	19°40	14°20	8°53	17°16	27°57	11°50	20°48	19°40	20° 1	22°24	n.a.	W 7
T 8	4 52 55	13°29'53	0♓43	2°53	20°55	14°29	8°57	17°21	27°57	11°52	20°48	19°41	19°58	22°31	n.a.	T 8
F 9	4 56 52	14°31'07	12°36	1°59	22°10	14°37	9° 0	17°25	27°57	11°54	20°49	19°R41	19°55	22°38	n.a.	F 9
S 10	5 0 48	15°32'21	24°36	1°16	23°25	14°44	9° 4	17°30	27°D56	11°56	20°50	19°41	19°51	22°44	n.a.	S 10
S 11	5 4 45	16°33'34	6♈48	0°42	24°40	14°51	9° 7	17°35	27°57	11°58	20°51	19°41	19°48	22°51	n.a.	S 11
M12	5 8 42	17°34'46	19°16	0°18	25°56	14°57	9°10	17°40	27°57	12° 0	20°52	19°40	19°45	22°58	n.a.	M12
T 13	5 12 38	18°35'58	2♉ 4	0° 3	27°11	15° 2	9°13	17°44	27°57	12° 2	20°52	19°40	19°42	23° 4	n.a.	T 13
W14	5 16 35	19°37'09	15°14	29°D58	28°26	15° 7	9°16	17°49	27°57	12° 4	20°53	19°D40	19°39	23°11	n.a.	W14
T 15	5 20 31	20°38'20	28°46	0° 1	29°41	15°11	9°19	17°53	27°57	12° 6	20°54	19°40	19°36	23°18	n.a.	T 15
F 16	5 24 28	21°39'30	12♊41	0°13	0♐56	15°15	9°21	17°58	27°57	12° 7	20°55	19°R40	19°32	23°25	n.a.	F 16
S 17	5 28 24	22°40'39	26°54	0°32	2°11	15°18	9°23	18° 2	27°58	12° 9	20°56	19°40	19°29	23°31	n.a.	S 17
S 18	5 32 21	23°41'48	11♋22	0°57	3°26	15°20	9°25	18° 6	27°58	12°11	20°57	19°40	19°26	23°38	n.a.	S 18
M19	5 36 17	24°42'56	25°58	1°29	4°41	15°21	9°27	18°10	27°59	12°13	20°58	19°40	19°23	23°45	n.a.	M19
T 20	5 40 14	25°44'03	10♌37	2° 6	5°56	15°R21	9°29	18°14	27°59	12°15	20°59	19°39	19°20	23°51	n.a.	T 20
W21	5 44 11	26°45'10	25°11	2°48	7°11	15°21	9°30	18°18	28° 0	12°16	21° 0	19°38	19°17	23°58	n.a.	W21
T 22	5 48 7	27°46'16	9♍37	3°35	8°26	15°20	9°32	18°22	28° 0	12°18	21° 1	19°38	19°13	24° 5	n.a.	T 22
F 23	5 52 4	28°47'21	23°49	4°25	9°41	15°18	9°33	18°26	28° 1	12°20	21° 2	19°D37	19°10	24°12	n.a.	F 23
S 24	5 56 0	29°48'27	7♎47	5°20	10°56	15°16	9°34	18°30	28° 2	12°22	21° 3	19°37	19° 7	24°18	n.a.	S 24
S 25	5 59 57	0♑49'31	21°29	6°17	12°12	15°13	9°34	18°34	28° 2	12°23	21° 4	19°38	19° 4	24°25	n.a.	S 25
M26	6 3 53	1°50'35	4♏56	7°18	13°27	15° 8	9°35	18°37	28° 3	12°25	21° 5	19°39	19° 1	24°32	n.a.	M26
T 27	6 7 50	2°51'38	18° 8	8°21	14°42	15° 4	9°35	18°41	28° 4	12°26	21° 6	19°40	18°57	24°38	n.a.	T 27
W28	6 11 47	3°52'40	1♐ 7	9°27	15°57	14°58	9°R35	18°44	28° 5	12°28	21° 7	19°41	18°54	24°45	n.a.	W28
T 29	6 15 43	4°53'42	13°53	10°35	17°12	14°51	9°35	18°47	28° 6	12°30	21° 8	19°R42	18°51	24°52	n.a.	T 29
F 30	6 19 40	5°54'42	26°26	11°46	18°27	14°44	9°35	18°50	28° 7	12°31	21° 9	19°42	18°48	24°59	n.a.	F 30
S 31	6 23 36	6♑55'42	8♑49	12♐58	19♐42	14♌36	9♍35	18♎54	28♓ 8	12♏33	21♒11	19♐41	18♐45	25♒ 5	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	21 s37	22 s41	1 s21	20 s48	1n40	14 s29	1n14	19n45	2n51	9n45	1n21	4 s27	2n24	1 s27	0 s42	13 s49	1n46	28 s57	15 s 5	23 s18	23 s21	10 s 9		n.a.	T 1
F 2	21 47	23 19	0 10	20 19	1 58	14 54	1 12	19 44	2 53	9 43	1 21	4 29	2 24	1 27	0 42	13 50	1 46	28 56	15 4	23 18	23 21	10 6		n.a.	F 2
S 3	21 57	22 43	1n 0	19 50	2 15	15 19	1 10	19 43	2 55	9 42	1 21	4 30	2 24	1 27	0 42	13 50	1 46	28 56	15 4	23 18	23 21	10 4		n.a.	S 3
S 4	22 7	21 1	2 5	19 22	2 31	15 43	1 8	19 41	2 57	9 40	1 22	4 32	2 24	1 28	0 42	13 51	1 46	28 55	15 4	23 18	23 21	10 1		n.a.	S 4
M 5	22 16	18 22	3 4	18 55	2 44	16 6	1 6	19 40	2 59	9 39	1 22	4 34	2 24	1 28	0 42	13 52	1 46	28 55	15 3	23 18	23 21	9 59		n.a.	M 5
T 6	22 25	14 59	3 54	18 31	2 55	16 30	1 3	19 39	3 2	9 38	1 22	4 36	2 24	1 28	0 42	13 52	1 46	28 54	15 3	23 18	23 20	9 56		n.a.	T 6
W 7	22 33	11 1	4 33	18 10	3 4	16 52	1 1	19 39	3 4	9 36	1 23	4 38	2 25	1 28	0 42	13 53	1 46	28 54	15 3	23 18	23 20	9 53		n.a.	W 7
T 8	22 41	6 40	5 0	17 52	3 10	17 15	0 59	19 38	3 6	9 35	1 23	4 39	2 25	1 28	0 42	13 54	1 46	28 53	15 2	23 19	23 20	9 51		n.a.	T 8
F 9	22 48	2 4	5 15	17 38	3 14	17 37	0 57	19 38	3 8	9 34	1 23	4 41	2 25	1 28	0 42	13 54	1 46	28 52	15 2	23 19	23 20	9 48		n.a.	F 9
S 10	22 55	2n40	5 16	17 27	3 16	17 58	0 54	19 38	3 10	9 33	1 23	4 43	2 25	1 28	0 42	13 55	1 46	28 52	15 2	23 19	23 19	9 46		n.a.	S 10
S 11	23 2	7 22	5 3	17 20	3 16	18 19	0 52	19 38	3 13	9 32	1 24	4 45	2 25	1 28	0 42	13 55	1 46	28 51	15 1	23 18	23 19	9 43		n.a.	S 11
M12	23 8	11 52	4 36	17 17	3 14	18 39	0 50	19 38	3 15	9 31	1 24	4 46	2 26	1 28	0 42	13 56	1 46	28 51	15 1	23 18	23 19	9 41		n.a.	M12
T 13	23 13	15 59	3 55	17 18	3 10	18 59	0 47	19 39	3 17	9 30	1 24	4 48	2 26	1 28	0 41	13 56	1 46	28 50	15 1	23 18	23 19	9 38		n.a.	T 13
W14	23 18	19 27	3 0	17 21	3 6	19 19	0 45	19 39	3 19	9 29	1 25	4 49	2 26	1 27	0 41	13 57	1 46	28 50	15 1	23 18	23 18	9 36		n.a.	W14
T 15	23 23	21 58	1 54	17 27	3 0	19 37	0 43	19 40	3 22	9 29	1 25	4 51	2 26	1 27	0 41	13 57	1 46	28 49	15 0	23 18	23 18	9 33		n.a.	T 15
F 16	23 27	23 13	0 39	17 36	2 54	19 56	0 40	19 42	3 24	9 28	1 25	4 52	2 26	1 27	0 41	13 58	1 46	28 49	15 0	23 18	23 18	9 30		n.a.	F 16
S 17	23 31	23 1	0 s40	17 47	2 46	20 13	0 38	19 43	3 26	9 27	1 26	4 54	2 27	1 27	0 41	13 59	1 46	28 48	15 0	23 18	23 18	9 28		n.a.	S 17
S 18	23 34	21 16	1 58	18 0	2 39	20 31	0 35	19 45	3 29	9 27	1 26	4 55	2 27	1 27	0 41	13 59	1 46	28 47	15 0	23 18	23 17	9 25		n.a.	S 18
M19	23 36	18 7	3 8	18 15	2 30	20 47	0 33	19 46	3 31	9 27	1 26	4 57	2 27	1 27	0 41	14 0	1 46	28 47	14 59	23 18	23 17	9 23		n.a.	M19
T 20	23 39	13 49	4 7	18 30	2 22	21 3	0 30	19 48	3 33	9 26	1 26	4 58	2 27	1 26	0 41	14 0	1 46	28 46	14 59	23 18	23 17	9 20		n.a.	T 20
W21	23 40	8 45	4 49	18 47	2 13	21 18	0 28	19 51	3 36	9 26	1 27	4 59	2 27	1 26	0 41	14 1	1 46	28 46	14 59	23 18	23 17	9 18		n.a.	W21
T 22	23 42	3 14	5 12	19 5	2 4	21 33	0 25	19 53	3 38	9 26	1 27	5 1	2 28	1 26	0 41	14 1	1 46	28 45	14 58	23 18	23 16	9 15		n.a.	T 22
F 23	23 43	2 s21	5 16	19 24	1 54	21 47	0 22	19 56	3 40	9 26	1 27	5 2	2 28	1 26	0 41	14 2	1 46	28 45	14 58	23 18	23 16	9 13		n.a.	F 23
S 24	23 43	7 43	5 1	19 43	1 45	22 1	0 20	19 59	3 43	9 25	1 28	5 3	2 28	1 25	0 41	14 2	1 46	28 44	14 58	23 18	23 16	9 10		n.a.	S 24
S 25	23 43	12 37	4 29	20 2	1 36	22 14	0 17	20 2	3 45	9 25	1 28	5 4	2 28	1 25	0 41	14 3	1 46	28 43	14 58	23 18	23 16	9 7		n.a.	S 25
M26	23 42	16 49	3 43	20 22	1 26	22 26	0 15	20 6	3 47	9 26	1 28	5 5	2 29	1 25	0 41	14 3	1 47	28 43	14 57	23 18	23 15	9 5		n.a.	M26
T 27	23 41	20 5	2 46	20 41	1 17	22 37	0 12	20 9	3 50	9 26	1 29	5 7	2 29	1 24	0 41	14 3	1 47	28 42	14 57	23 18	23 15	9 2		n.a.	T 27
W28	23 39	22 16	1 41	21 1	1 8	22 48	0 10	20 13	3 52	9 26	1 29	5 8	2 29	1 24	0 41	14 4	1 47	28 42	14 57	23 19	23 15	9 0		n.a.	W28
T 29	23 37	23 16	0 32	21 20	0 58	22 58	0 7	20 17	3 54	9 26	1 29	5 9	2 29	1 23	0 41	14 4	1 47	28 41	14 57	23 19	23 14	8 57		n.a.	T 29
F 30	23 35	23 3	0n37	21 39	0 49	23 8	0 5	20 22	3 56	9 27	1 30	5 10	2 29	1 23	0 41	14 5	1 47	28 40	14 57	23 19	23 14	8 55		n.a.	F 30
S 31	23 s32	21 s42	1n44	21 s57	0n40	23 s16	0n 2	20n26	3n59	9n27	1n30	5 s11	2n30	1 s22	0 s41	14 s 5	1n47	28 s40	14 s56	23 s18	23 s14	8 s52		n.a.	S 31

Julian Day Number = 1660395.5, Delta T = 03h26m03s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°22'28, Lahiri = - 6°15'27 Julian Calendar 1 Dec. 168 BCE == Greg. Calendar 28 Nov. 168 BCE

The year -167 astronomical counting style corresponds to year 168 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 167 BCE
geocentric

JANUARY 167 BCE (-166) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 27 33	7♉56'40	21♉ 2	14♐11	20♐57	14°R27	9°R34	18♎57	28♓ 9	12♏34	21♒12	19°R39	18♐42	25♒12	n.a.	S 1
M 2	6 31 29	8°57'37	3♒ 6	15°27	22°12	14♌17	9♍33	19° 0	28°10	12°36	21°13	19♐36	18°38	25°19	n.a.	M 2
T 3	6 35 26	9°58'33	15° 4	16°44	23°27	14° 7	9°32	19° 2	28°11	12°37	21°14	19°33	18°35	25°25	n.a.	T 3
W 4	6 39 22	10°59'27	26°56	18° 2	24°42	13°56	9°31	19° 5	28°13	12°39	21°16	19°29	18°32	25°32	n.a.	W 4
T 5	6 43 19	12° 0'20	8♓47	19°21	25°57	13°44	9°30	19° 8	28°14	12°40	21°17	19°25	18°29	25°39	n.a.	T 5
F 6	6 47 16	13° 1'11	20°39	20°42	27°12	13°31	9°28	19°10	28°15	12°41	21°18	19°23	18°26	25°46	n.a.	F 6
S 7	6 51 12	14° 2'00	2♈38	22° 4	28°27	13°17	9°26	19°13	28°17	12°43	21°19	19°21	18°23	25°52	n.a.	S 7
S 8	6 55 9	15° 2'48	14°46	23°27	29°42	13° 3	9°24	19°15	28°18	12°44	21°21	19°D20	18°19	25°59	n.a.	S 8
M 9	6 59 5	16° 3'34	27° 9	24°52	0♉57	12°48	9°22	19°17	28°20	12°45	21°22	19°21	18°16	26° 6	n.a.	M 9
T 10	7 3 2	17° 4'19	9♉52	26°17	2°12	12°32	9°20	19°20	28°21	12°46	21°23	19°22	18°13	26°12	n.a.	T 10
W11	7 6 58	18° 5'01	22°57	27°43	3°27	12°16	9°17	19°22	28°23	12°48	21°25	19°24	18°10	26°19	n.a.	W11
T 12	7 10 55	19° 5'43	6♊30	29°10	4°42	11°59	9°15	19°24	28°24	12°49	21°26	19°25	18° 7	26°26	n.a.	T 12
F 13	7 14 51	20° 6'22	20°29	0♋39	5°57	11°41	9°12	19°26	28°26	12°50	21°27	19°R26	18° 3	26°33	n.a.	F 13
S 14	7 18 48	21° 7'00	4♋54	2° 8	7°12	11°23	9° 9	19°27	28°28	12°51	21°29	19°25	18° 0	26°39	n.a.	S 14
S 15	7 22 45	22° 7'36	19°40	3°38	8°27	11° 4	9° 5	19°29	28°29	12°52	21°30	19°22	17°57	26°46	n.a.	S 15
M16	7 26 41	23° 8'10	4♌41	5° 9	9°41	10°44	9° 2	19°31	28°31	12°53	21°31	19°18	17°54	26°53	n.a.	M16
T 17	7 30 38	24° 8'43	19°47	6°41	10°56	10°24	8°58	19°32	28°33	12°54	21°33	19°13	17°51	26°59	n.a.	T 17
W18	7 34 34	25° 9'14	4♍48	8°14	12°11	10° 3	8°55	19°34	28°35	12°55	21°34	19° 8	17°48	27° 6	n.a.	W18
T 19	7 38 31	26° 9'44	19°36	9°47	13°26	9°42	8°51	19°35	28°37	12°56	21°36	19° 3	17°44	27°13	n.a.	T 19
F 20	7 42 27	27°10'12	4♎ 5	11°22	14°41	9°21	8°47	19°36	28°39	12°57	21°37	18°59	17°41	27°20	n.a.	F 20
S 21	7 46 24	28°10'39	18°10	12°58	15°56	8°59	8°42	19°37	28°41	12°58	21°39	18°57	17°38	27°26	n.a.	S 21
S 22	7 50 20	29°11'04	1♏52	14°34	17°11	8°37	8°38	19°38	28°43	12°59	21°40	18°D57	17°35	27°33	n.a.	S 22
M23	7 54 17	0♒11'28	15°11	16°12	18°26	8°14	8°33	19°39	28°45	13° 0	21°41	18°58	17°32	27°40	n.a.	M23
T 24	7 58 14	1°11'50	28° 9	17°50	19°40	7°51	8°28	19°40	28°47	13° 0	21°43	18°59	17°28	27°46	n.a.	T 24
W25	8 2 10	2°12'11	10♐51	19°29	20°55	7°28	8°24	19°40	28°50	13° 1	21°44	19° 0	17°25	27°53	n.a.	W25
T 26	8 6 7	3°12'31	23°19	21°10	22°10	7° 4	8°18	19°41	28°52	13° 2	21°46	19°R 1	17°22	28° 0	n.a.	T 26
F 27	8 10 3	4°12'48	5♉36	22°51	23°25	6°41	8°13	19°41	28°54	13° 3	21°47	18°59	17°19	28° 7	n.a.	F 27
S 28	8 14 0	5°13'04	17°44	24°34	24°40	6°17	8° 8	19°42	28°56	13° 3	21°49	18°55	17°16	28°13	n.a.	S 28
S 29	8 17 56	6°13'18	29°46	26°17	25°54	5°53	8° 2	19°42	28°59	13° 4	21°50	18°49	17°13	28°20	n.a.	S 29
M30	8 21 53	7°13'31	11♒43	28° 1	27° 9	5°29	7°57	19°42	29° 1	13° 5	21°52	18°41	17° 9	28°27	n.a.	M30
T 31	8 25 49	8♒13'41	23♒37	29♉47	28♉24	5♌ 6	7♍51	19°R42	29♓ 3	13♏ 5	21♒53	18♐31	17♐ 6	28♒33	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	23s28	19s20	2n44	22s15	0n31	23s25	0s 0	20n31	4n 1	9n28	1n30	5s12	2n30	1s22	0s41	14s 6	1n47	28s39	14s56	23s18	23s14	8s49			n.a.
M 2	23 24	16 10	3 37	22 32	0 23	23 32	0 3	20 36	4 3	9 28	1 30	5 13	2 30	1 21	0 41	14 6	1 47	28 38	14 56	23 18	23 13	8 47			n.a.
T 3	23 20	12 22	4 20	22 49	0 14	23 38	0 5	20 41	4 5	9 29	1 31	5 13	2 30	1 21	0 41	14 6	1 47	28 38	14 56	23 18	23 13	8 44			n.a.
W 4	23 15	8 8	4 50	23 4	0 6	23 44	0 8	20 46	4 7	9 30	1 31	5 14	2 31	1 20	0 41	14 7	1 47	28 37	14 56	23 18	23 13	8 42			n.a.
T 5	23 10	3 36	5 9	23 19	0s 3	23 50	0 10	20 52	4 9	9 30	1 31	5 15	2 31	1 20	0 41	14 7	1 47	28 37	14 55	23 17	23 13	8 39			n.a.
F 6	23 4	1n 4	5 14	23 34	0 11	23 54	0 13	20 58	4 11	9 31	1 32	5 16	2 31	1 19	0 41	14 8	1 47	28 36	14 55	23 17	23 12	8 37			n.a.
S 7	22 58	5 43	5 6	23 47	0 18	23 58	0 15	21 4	4 13	9 32	1 32	5 17	2 31	1 19	0 40	14 8	1 47	28 35	14 55	23 17	23 12	8 34			n.a.
S 8	22 51	10 14	4 44	23 59	0 26	24 1	0 18	21 10	4 15	9 33	1 32	5 17	2 32	1 18	0 40	14 8	1 47	28 35	14 55	23 17	23 12	8 31			n.a.
M 9	22 44	14 26	4 9	24 10	0 33	24 3	0 20	21 16	4 17	9 34	1 32	5 18	2 32	1 17	0 40	14 9	1 47	28 34	14 55	23 17	23 11	8 29			n.a.
T 10	22 37	18 6	3 20	24 20	0 41	24 4	0 23	21 22	4 19	9 35	1 33	5 18	2 32	1 17	0 40	14 9	1 47	28 34	14 54	23 17	23 11	8 26			n.a.
W11	22 29	20 59	2 20	24 29	0 47	24 5	0 25	21 29	4 21	9 37	1 33	5 19	2 32	1 16	0 40	14 9	1 47	28 33	14 54	23 17	23 11	8 24			n.a.
T 12	22 20	22 48	1 10	24 37	0 54	24 5	0 27	21 35	4 22	9 38	1 33	5 20	2 33	1 15	0 40	14 10	1 47	28 32	14 54	23 17	23 11	8 21			n.a.
F 13	22 11	23 16	0s 6	24 43	1 1	24 4	0 30	21 42	4 24	9 39	1 34	5 20	2 33	1 15	0 40	14 10	1 47	28 32	14 54	23 17	23 10	8 19			n.a.
S 14	22 2	22 14	1 24	24 49	1 7	24 3	0 32	21 48	4 25	9 41	1 34	5 20	2 33	1 14	0 40	14 10	1 47	28 31	14 54	23 17	23 10	8 16			n.a.
S 15	21 52	19 39	2 38	24 53	1 13	24 1	0 34	21 55	4 27	9 42	1 34	5 21	2 33	1 13	0 40	14 10	1 47	28 30	14 54	23 17	23 10	8 13			n.a.
M16	21 42	15 43	3 42	24 55	1 18	23 58	0 36	22 2	4 28	9 44	1 34	5 21	2 34	1 12	0 40	14 11	1 47	28 30	14 53	23 17	23 9	8 11			n.a.
T 17	21 32	10 46	4 31	24 56	1 24	23 54	0 38	22 9	4 29	9 45	1 35	5 22	2 34	1 12	0 40	14 11	1 48	28 29	14 53	23 16	23 9	8 8			n.a.
W18	21 21	5 11	5 1	24 56	1 29	23 49	0 41	22 16	4 31	9 47	1 35	5 22	2 34	1 11	0 40	14 11	1 48	28 29	14 53	23 16	23 9	8 6			n.a.
T 19	21 10	0s36	5 11	24 54	1 34	23 44	0 43	22 23	4 32	9 49	1 35	5 22	2 34	1 10	0 40	14 11	1 48	28 28	14 53	23 15	23 9	8 3			n.a.
F 20	20 58	6 13	5 0	24 51	1 38	23 38	0 45	22 30	4 33	9 51	1 36	5 22	2 35	1 9	0 40	14 12	1 48	28 27	14 53	23 15	23 8	8 1			n.a.
S 21	20 46	11 23	4 32	24 46	1 42	23 32	0 47	22 37	4 34	9 53	1 36	5 23	2 35	1 8	0 40	14 12	1 48	28 27	14 53	23 15	23 8	7 58			n.a.
S 22	20 33	15 49	3 48	24 40	1 46	23 24	0 49	22 44	4 35	9 54	1 36	5 23	2 35	1 8	0 40	14 12	1 48	28 26	14 53	23 15	23 8	7 55			n.a.
M23	20 21	19 20	2 53	24 32	1 49	23 16	0 51	22 50	4 35	9 56	1 36	5 23	2 35	1 7	0 40	14 12	1 48	28 26	14 53	23 15	23 7	7 53			n.a.
T 24	20 7	21 47	1 51	24 22	1 53	23 7	0 53	22 57	4 36	9 59	1 37	5 23	2 36	1 6	0 40	14 13	1 48	28 25	14 52	23 15	23 7	7 50			n.a.
W25	19 54	23 3	0 44	24 11	1 55	22 58	0 54	23 4	4 36	10 1	1 37	5 23	2 36	1 5	0 40	14 13	1 48	28 24	14 52	23 15	23 7	7 48			n.a.
T 26	19 40	23 9	0n23	23 58	1 58	22 48	0 56	23 10	4 37	10 3	1 37	5 23	2 36	1 4	0 40	14 13	1 48	28 24	14 52	23 15	23 6	7 45			n.a.
F 27	19 26	22 7	1 29	23 43	2 0	22 37	0 58	23 17	4 37	10 5	1 37	5 23	2 36	1 3	0 40	14 13	1 48	28 23	14 52	23 15	23 6	7 43			n.a.
S 28	19 11	20 4	2 29	23 27	2 1	22 25	1 0	23 23	4 37	10 7	1 37	5 23	2 37	1 2	0 40	14 13	1 48	28 23	14 52	23 15	23 6	7 40			n.a.
S 29	18 56	17 9	3 22	23 9	2 3	22 13	1 1	23 29	4 37	10 10	1 38	5 23	2 37	1 1	0 40	14 13	1 48	28 22	14 52	23 14	23 6	7 37			n.a.
M30	18 41	13 33	4 5	22 49	2 4	22 0	1 3	23 35	4 37	10 12	1 38	5 22	2 37	1 0	0 40	14 13	1 48	28 21	14 52	23 14	23 5	7 35			n.a.
T 31	18s25	9s26	4n38	22s27	2s 4	21s46	1s 5	23n41	4n37	10n14	1n38	5s22	2n37	0s59	0s40	14s14	1n48	28s21	14s52	23s13	23s 5	7s32			n.a.

Julian Day Number = 1660426.5, Delta T = 03h26m02s
Ecliptic obliquity = 23°42'53, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°22'23, Lahiri = - 6°15'23 Julian Calendar 1 Jan. 167 BCE == Greg. Calendar 29 Dec. 168 BCE

The year -166 astronomical counting style corresponds to year 167 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 167 BCE
geocentric

FEBRUARY 167 BCE (-166) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	8 29 46	9♒13'49	5♓28	1♒33	29♉39	4°R42	7°R45	19°R42	29♓ 6	13♏ 6	21♒55	18°R21	17♐ 3	28♒40	n.a.	W 1
T 2	8 33 43	10°13'55	17°20	3°21	0♒54	4♌18	7♍39	19♎42	29° 8	13° 6	21°57	18♐11	17° 0	28°47	n.a.	T 2
F 3	8 37 39	11°13'59	29°13	5°10	2° 8	3°55	7°33	19°42	29°11	13° 7	21°58	18° 2	16°57	28°54	n.a.	F 3
S 4	8 41 36	12°14'00	11♈12	6°59	3°23	3°32	7°26	19°42	29°14	13° 7	22° 0	17°55	16°54	29° 0	n.a.	S 4
S 5	8 45 32	13°14'00	23°19	8°50	4°38	3° 9	7°20	19°41	29°16	13° 8	22° 1	17°51	16°50	29° 7	n.a.	S 5
M 6	8 49 29	14°13'57	5♉38	10°42	5°52	2°46	7°13	19°41	29°19	13° 8	22° 3	17°49	16°47	29°14	n.a.	M 6
T 7	8 53 25	15°13'52	18°15	12°35	7° 7	2°24	7° 7	19°40	29°21	13° 8	22° 4	17°D48	16°44	29°20	n.a.	T 7
W 8	8 57 22	16°13'44	1♊13	14°29	8°22	2° 2	7° 0	19°39	29°24	13° 9	22° 6	17°49	16°41	29°27	n.a.	W 8
T 9	9 1 18	17°13'35	14°37	16°24	9°36	1°40	6°53	19°38	29°27	13° 9	22° 7	17°R50	16°38	29°34	n.a.	T 9
F 10	9 5 15	18°13'23	28°29	18°20	10°51	1°19	6°46	19°37	29°30	13° 9	22° 9	17°49	16°34	29°41	n.a.	F 10
S 11	9 9 12	19°13'08	12♋50	20°16	12° 6	0°59	6°39	19°36	29°32	13° 9	22°10	17°47	16°31	29°47	n.a.	S 11
S 12	9 13 8	20°12'52	27°38	22°14	13°20	0°39	6°32	19°35	29°35	13° 9	22°12	17°42	16°28	29°54	n.a.	S 12
M13	9 17 5	21°12'33	12♌46	24°12	14°35	0°19	6°25	19°34	29°38	13°10	22°14	17°34	16°25	0♓ 1	n.a.	M13
T 14	9 21 1	22°12'12	28° 5	26°11	15°49	0° 0	6°18	19°33	29°41	13°10	22°15	17°25	16°22	0° 7	n.a.	T 14
W15	9 24 58	23°11'49	13♍24	28°11	17° 4	29♋42	6°10	19°31	29°44	13°10	22°17	17°15	16°19	0°14	n.a.	W15
T 16	9 28 54	24°11'23	28°32	0♓10	18°19	29°24	6° 3	19°30	29°47	13°10	22°18	17° 6	16°15	0°21	n.a.	T 16
F 17	9 32 51	25°10'56	13♎18	2°10	19°33	29° 7	5°55	19°28	29°50	13°R10	22°20	16°58	16°12	0°28	n.a.	F 17
S 18	9 36 47	26°10'27	27°38	4°10	20°48	28°50	5°48	19°26	29°53	13°10	22°21	16°53	16° 9	0°34	n.a.	S 18
S 19	9 40 44	27° 9'56	11♏28	6° 9	22° 2	28°35	5°40	19°25	29°56	13°10	22°23	16°50	16° 6	0°41	n.a.	S 19
M20	9 44 40	28° 9'24	24°51	8° 8	23°17	28°20	5°33	19°23	29°59	13°10	22°24	16°D49	16° 3	0°48	n.a.	M20
T 21	9 48 37	29° 8'49	7♐48	10° 5	24°31	28° 5	5°25	19°21	0♈ 2	13° 9	22°26	16°49	16° 0	0°54	n.a.	T 21
W22	9 52 34	0♓ 8'13	20°24	12° 1	25°46	27°52	5°18	19°19	0° 5	13° 9	22°28	16°R49	15°56	1° 1	n.a.	W22
T 23	9 56 30	1° 7'35	2♉43	13°55	27° 0	27°39	5°10	19°16	0° 8	13° 9	22°29	16°48	15°53	1° 8	n.a.	T 23
F 24	10 0 27	2° 6'55	14°51	15°48	28°15	27°27	5° 2	19°14	0°11	13° 9	22°31	16°45	15°50	1°15	n.a.	F 24
S 25	10 4 23	3° 6'12	26°50	17°37	29°29	27°15	4°54	19°12	0°14	13° 9	22°32	16°39	15°47	1°21	n.a.	S 25
S 26	10 8 20	4° 5'28	8♒44	19°23	0♓43	27° 5	4°47	19° 9	0°17	13° 8	22°34	16°30	15°44	1°28	n.a.	S 26
M27	10 12 16	5° 4'42	20°36	21° 6	1°58	26°55	4°39	19° 7	0°20	13° 8	22°35	16°18	15°40	1°35	n.a.	M27
T 28	10 16 13	6♓ 3'54	2♓28	22♓45	3♓12	26♋46	4♍31	19♎ 4	0♈24	13♏ 8	22♒37	16♐ 5	15♐37	1♓42	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	18s 9	5s 0	4n58	22s 3	2s 4	21s32	1s 6	23n47	4n37	10n17	1n38	5s22	2n38	0s58	0s40	14s14	1n48	28s20	14s52	23s12	23s 5	7s30		n.a.
T 2	17 53	0 23	5 6	21 38	2 3	21 17	1 8	23 52	4 37	10 19	1 39	5 22	2 38	0 57	0 40	14 14	1 48	28 20	14 52	23 11	23 4	7 27		n.a.
F 3	17 36	4n16	5 0	21 10	2 2	21 2	1 9	23 58	4 36	10 22	1 39	5 21	2 38	0 56	0 40	14 14	1 48	28 19	14 52	23 10	23 4	7 24		n.a.
S 4	17 19	8 47	4 41	20 41	2 1	20 46	1 10	24 3	4 36	10 24	1 39	5 21	2 38	0 55	0 40	14 14	1 49	28 18	14 52	23 10	23 4	7 22		n.a.
S 5	17 2	13 1	4 10	20 10	1 59	20 29	1 12	24 8	4 35	10 27	1 39	5 21	2 38	0 54	0 40	14 14	1 49	28 18	14 52	23 9	23 3	7 19		n.a.
M 6	16 45	16 47	3 26	19 37	1 56	20 12	1 13	24 12	4 34	10 29	1 39	5 20	2 39	0 53	0 40	14 14	1 49	28 17	14 52	23 9	23 3	7 17		n.a.
T 7	16 27	19 53	2 31	19 2	1 53	19 54	1 14	24 17	4 33	10 32	1 40	5 20	2 39	0 52	0 39	14 14	1 49	28 17	14 52	23 9	23 3	7 14		n.a.
W 8	16 9	22 4	1 28	18 25	1 50	19 36	1 15	24 21	4 32	10 35	1 40	5 19	2 39	0 51	0 39	14 14	1 49	28 16	14 52	23 9	23 2	7 12		n.a.
T 9	15 51	23 6	0 17	17 47	1 46	19 17	1 16	24 25	4 31	10 38	1 40	5 19	2 39	0 49	0 39	14 14	1 49	28 16	14 52	23 9	23 2	7 9		n.a.
F 10	15 33	22 46	0s57	17 6	1 41	18 57	1 17	24 29	4 30	10 40	1 40	5 18	2 40	0 48	0 39	14 14	1 49	28 15	14 52	23 9	23 2	7 6		n.a.
S 11	15 14	20 57	2 9	16 24	1 36	18 37	1 18	24 32	4 29	10 43	1 40	5 17	2 40	0 47	0 39	14 14	1 49	28 15	14 52	23 9	23 1	7 4		n.a.
S 12	14 55	17 41	3 15	15 40	1 30	18 16	1 19	24 35	4 27	10 46	1 40	5 17	2 40	0 46	0 39	14 14	1 49	28 14	14 52	23 8	23 1	7 1		n.a.
M13	14 36	13 11	4 9	14 55	1 23	17 55	1 20	24 38	4 26	10 49	1 40	5 16	2 40	0 45	0 39	14 14	1 49	28 13	14 52	23 8	23 1	6 59		n.a.
T 14	14 16	7 48	4 46	14 7	1 16	17 34	1 21	24 41	4 24	10 52	1 41	5 15	2 41	0 44	0 39	14 14	1 49	28 13	14 52	23 7	23 0	6 56		n.a.
W15	13 57	1 57	5 2	13 19	1 8	17 12	1 22	24 43	4 23	10 54	1 41	5 15	2 41	0 42	0 39	14 14	1 49	28 12	14 52	23 6	23 0	6 53		n.a.
T 16	13 37	3s56	4 57	12 28	1 0	16 49	1 22	24 46	4 21	10 57	1 41	5 14	2 41	0 41	0 39	14 14	1 49	28 12	14 52	23 5	23 0	6 51		n.a.
F 17	13 17	9 28	4 32	11 37	0 51	16 26	1 23	24 48	4 19	11 0	1 41	5 13	2 41	0 40	0 39	14 14	1 49	28 11	14 52	23 4	22 59	6 48		n.a.
S 18	12 56	14 19	3 50	10 44	0 42	16 3	1 23	24 49	4 17	11 3	1 41	5 12	2 41	0 39	0 39	14 14	1 49	28 11	14 52	23 4	22 59	6 46		n.a.
S 19	12 36	18 14	2 56	9 51	0 32	15 39	1 24	24 51	4 15	11 6	1 41	5 11	2 42	0 38	0 39	14 14	1 49	28 10	14 52	23 3	22 59	6 43		n.a.
M20	12 15	21 2	1 54	8 57	0 21	15 14	1 24	24 52	4 14	11 9	1 41	5 10	2 42	0 36	0 39	14 14	1 49	28 10	14 52	23 3	22 58	6 41		n.a.
T 21	11 54	22 39	0 48	8 2	0 10	14 50	1 25	24 53	4 12	11 12	1 41	5 9	2 42	0 35	0 39	14 14	1 49	28 9	14 52	23 3	22 58	6 38		n.a.
W22	11 33	23 3	0n19	7 7	0n 1	14 25	1 25	24 54	4 9	11 15	1 41	5 9	2 42	0 34	0 39	14 14	1 50	28 9	14 52	23 3	22 58	6 35		n.a.
T 23	11 12	22 18	1 23	6 12	0 13	13 59	1 25	24 55	4 7	11 18	1 41	5 7	2 43	0 33	0 39	14 14	1 50	28 8	14 52	23 3	22 57	6 33		n.a.
F 24	10 51	20 31	2 23	5 17	0 25	13 33	1 25	24 55	4 5	11 21	1 42	5 6	2 43	0 31	0 39	14 13	1 50	28 8	14 52	23 3	22 57	6 30		n.a.
S 25	10 29	17 51	3 15	4 23	0 37	13 7	1 25	24 55	4 3	11 24	1 42	5 5	2 43	0 30	0 39	14 13	1 50	28 7	14 52	23 2	22 57	6 28		n.a.
S 26	10 7	14 27	3 58	3 29	0 50	12 40	1 25	24 55	4 1	11 27	1 42	5 4	2 43	0 29	0 39	14 13	1 50	28 7	14 52	23 1	22 56	6 25		n.a.
M27	9 45	10 31	4 31	2 37	1 2	12 13	1 25	24 55	3 59	11 29	1 42	5 3	2 43	0 28	0 39	14 13	1 50	28 7	14 52	23 0	22 56	6 22		n.a.
T 28	9s23	6s11	4n51	1s46	1n15	11s46	1s25	24n54	3n56	11n32	1n42	5s 2	2n44	0s26	0s39	14s13	1n50	28s 6	14s52	22s59	22s56	6s20		n.a.

Julian Day Number = 1660457.5, Delta T = 03h26m01s
Ecliptic obliquity = 23°42'53, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°22'19, Lahiri = - 6°15'19 Julian Calendar 1 Feb. 167 BCE == Greg. Calendar 29 Jan. 167 BCE

The year -166 astronomical counting style corresponds to year 167 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 167 BCE
geocentric

MARCH 167 BCE (-166) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	10 20 9	7♓ 3'03	14♓20	24♓20	4♓27	26°R38	4°R23	19°R 2	0♈27	13°R 7	22♒38	15°R50	15♐34	1♓48	n.a.	W 1
T 2	10 24 6	8° 2'11	26°15	25°50	5°41	26♋31	4♍16	18♎59	0°30	13♏ 7	22°40	15♐36	15°31	1°55	n.a.	T 2
F 3	10 28 3	9° 1'16	8♈13	27°15	6°55	26°24	4° 8	18°56	0°33	13° 6	22°41	15°23	15°28	2° 2	n.a.	F 3
S 4	10 31 59	10° 0'19	20°17	28°35	8°10	26°18	4° 0	18°53	0°37	13° 6	22°43	15°13	15°25	2° 8	n.a.	S 4
S 5	10 35 56	10°59'19	2♉28	29°50	9°24	26°13	3°53	18°50	0°40	13° 5	22°44	15° 5	15°21	2°15	n.a.	S 5
M 6	10 39 52	11°58'18	14°50	0♈58	10°39	26° 9	3°45	18°47	0°43	13° 5	22°46	15° 1	15°18	2°22	n.a.	M 6
T 7	10 43 49	12°57'14	27°26	2° 1	11°53	26° 6	3°37	18°44	0°46	13° 4	22°47	14°59	15°15	2°29	n.a.	T 7
W 8	10 47 45	13°56'07	10♊21	2°57	13° 7	26° 3	3°30	18°41	0°50	13° 4	22°49	14°58	15°12	2°35	n.a.	W 8
T 9	10 51 42	14°54'58	23°38	3°48	14°21	26° 1	3°22	18°37	0°53	13° 3	22°50	14°58	15° 9	2°42	n.a.	T 9
F 10	10 55 38	15°53'47	7♋20	4°31	15°36	26° 0	3°15	18°34	0°56	13° 2	22°52	14°57	15° 6	2°49	n.a.	F 10
S 11	10 59 35	16°52'34	21°29	5° 8	16°50	26°D 0	3° 8	18°31	1° 0	13° 2	22°53	14°54	15° 2	2°55	n.a.	S 11
S 12	11 3 32	17°51'18	6♌ 5	5°39	18° 4	26° 0	3° 0	18°27	1° 3	13° 1	22°55	14°49	14°59	3° 2	n.a.	S 12
M13	11 7 28	18°49'59	21° 4	6° 3	19°18	26° 1	2°53	18°24	1° 7	13° 0	22°56	14°41	14°56	3° 9	n.a.	M13
T 14	11 11 25	19°48'39	6♍18	6°21	20°32	26° 3	2°46	18°20	1°10	12°59	22°57	14°31	14°53	3°16	n.a.	T 14
W15	11 15 21	20°47'16	21°36	6°31	21°47	26° 6	2°39	18°16	1°13	12°59	22°59	14°20	14°50	3°22	n.a.	W15
T 16	11 19 18	21°45'51	6♎48	6°R36	23° 1	26° 9	2°32	18°13	1°17	12°58	23° 0	14° 9	14°46	3°29	n.a.	T 16
F 17	11 23 14	22°44'25	21°42	6°34	24°15	26°13	2°25	18° 9	1°20	12°57	23° 2	14° 0	14°43	3°36	n.a.	F 17
S 18	11 27 11	23°42'56	6♏11	6°27	25°29	26°17	2°18	18° 5	1°23	12°56	23° 3	13°53	14°40	3°42	n.a.	S 18
S 19	11 31 7	24°41'26	20°11	6°13	26°43	26°23	2°11	18° 1	1°27	12°55	23° 4	13°49	14°37	3°49	n.a.	S 19
M20	11 35 4	25°39'54	3♐41	5°55	27°57	26°29	2° 5	17°57	1°30	12°54	23° 6	13°48	14°34	3°56	n.a.	M20
T 21	11 39 0	26°38'20	16°43	5°31	29°11	26°35	1°58	17°53	1°34	12°53	23° 7	13°D47	14°31	4° 3	n.a.	T 21
W22	11 42 57	27°36'45	29°22	5° 3	0♈25	26°43	1°52	17°49	1°37	12°52	23° 8	13°R47	14°27	4° 9	n.a.	W22
T 23	11 46 54	28°35'08	11♑42	4°31	1°40	26°51	1°45	17°45	1°41	12°51	23°10	13°47	14°24	4°16	n.a.	T 23
F 24	11 50 50	29°33'29	23°47	3°56	2°54	26°59	1°39	17°41	1°44	12°50	23°11	13°44	14°21	4°23	n.a.	F 24
S 25	11 54 47	0♈31'49	5♒44	3°19	4° 8	27° 8	1°33	17°37	1°48	12°49	23°12	13°39	14°18	4°30	n.a.	S 25
S 26	11 58 43	1°30'06	17°36	2°40	5°22	27°18	1°27	17°33	1°51	12°48	23°14	13°32	14°15	4°36	n.a.	S 26
M27	12 2 40	2°28'22	29°26	2° 0	6°36	27°28	1°22	17°29	1°54	12°47	23°15	13°22	14°11	4°43	n.a.	M27
T 28	12 6 36	3°26'37	11♓18	1°19	7°50	27°39	1°16	17°24	1°58	12°46	23°16	13°10	14° 8	4°50	n.a.	T 28
W29	12 10 33	4°24'49	23°13	0°39	9° 4	27°51	1°10	17°20	2° 1	12°45	23°17	12°57	14° 5	4°56	n.a.	W29
T 30	12 14 29	5°23'00	5♈14	29♓59	10°18	28° 3	1° 5	17°16	2° 5	12°43	23°19	12°44	14° 2	5° 3	n.a.	T 30
F 31	12 18 26	6♈21'09	17♈20	29♓23	11♈32	28♋15	1♍ 0	17♎12	2♈ 8	12♏42	23♒20	12♐33	13♐59	5♓10	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	9s 1	1s38	5n 0	0s57	1n27	11s19	1s25	24n54	3n54	11n35	1n42	5s 1	2n44	0s25	0s39	14s13	1n50	28s 6	14s53	22s57	22s55	6s17		n.a.
T 2	8 39	2n59	4 55	0 9	1 39	10 51	1 25	24 53	3 52	11 38	1 42	5 0	2 44	0 24	0 39	14 13	1 50	28 5	14 53	22 56	22 55	6 15		n.a.
F 3	8 17	7 31	4 37	0n36	1 51	10 23	1 25	24 52	3 49	11 41	1 42	4 58	2 44	0 22	0 39	14 12	1 50	28 5	14 53	22 54	22 55	6 12		n.a.
S 4	7 54	11 48	4 6	1 18	2 3	9 54	1 24	24 51	3 47	11 44	1 42	4 57	2 44	0 21	0 39	14 12	1 50	28 4	14 53	22 53	22 54	6 10		n.a.
S 5	7 32	15 39	3 24	1 58	2 14	9 26	1 24	24 50	3 45	11 47	1 42	4 56	2 44	0 20	0 39	14 12	1 50	28 4	14 53	22 52	22 54	6 7		n.a.
M 6	7 9	18 53	2 32	2 36	2 24	8 57	1 23	24 48	3 42	11 49	1 42	4 54	2 45	0 18	0 39	14 12	1 50	28 4	14 53	22 52	22 54	6 4		n.a.
T 7	6 46	21 18	1 31	3 10	2 34	8 28	1 23	24 46	3 40	11 52	1 42	4 53	2 45	0 17	0 39	14 11	1 50	28 3	14 53	22 51	22 53	6 2		n.a.
W 8	6 23	22 40	0 24	3 41	2 43	7 58	1 22	24 44	3 38	11 55	1 42	4 52	2 45	0 16	0 39	14 11	1 50	28 3	14 53	22 51	22 53	5 59		n.a.
T 9	6 0	22 48	0s46	4 8	2 51	7 29	1 22	24 42	3 35	11 58	1 42	4 50	2 45	0 14	0 39	14 11	1 50	28 2	14 54	22 51	22 53	5 57		n.a.
F 10	5 37	21 36	1 55	4 32	2 58	6 59	1 21	24 40	3 33	12 0	1 42	4 49	2 45	0 13	0 39	14 11	1 50	28 2	14 54	22 51	22 52	5 54		n.a.
S 11	5 14	19 1	3 0	4 53	3 5	6 29	1 20	24 38	3 30	12 3	1 42	4 47	2 45	0 12	0 39	14 11	1 50	28 2	14 54	22 51	22 52	5 51		n.a.
S 12	4 51	15 10	3 55	5 10	3 10	5 59	1 19	24 36	3 28	12 6	1 42	4 46	2 46	0 10	0 39	14 10	1 50	28 1	14 54	22 50	22 52	5 49		n.a.
M13	4 28	10 17	4 36	5 24	3 14	5 29	1 18	24 33	3 26	12 8	1 41	4 45	2 46	0 9	0 39	14 10	1 51	28 1	14 54	22 49	22 51	5 46		n.a.
T 14	4 5	4 42	4 57	5 33	3 17	4 58	1 17	24 30	3 23	12 11	1 41	4 43	2 46	0 7	0 39	14 10	1 51	28 1	14 54	22 48	22 51	5 44		n.a.
W15	3 42	1s11	4 58	5 39	3 18	4 28	1 16	24 28	3 21	12 13	1 41	4 41	2 46	0 6	0 39	14 9	1 51	28 0	14 55	22 47	22 50	5 41		n.a.
T 16	3 18	6 58	4 37	5 41	3 19	3 57	1 15	24 25	3 18	12 16	1 41	4 40	2 46	0 5	0 39	14 9	1 51	28 0	14 55	22 46	22 50	5 39		n.a.
F 17	2 55	12 14	3 58	5 39	3 17	3 27	1 14	24 21	3 16	12 18	1 41	4 38	2 46	0 3	0 39	14 9	1 51	28 0	14 55	22 45	22 50	5 36		n.a.
S 18	2 31	16 38	3 5	5 34	3 15	2 56	1 13	24 18	3 14	12 21	1 41	4 37	2 46	0 2	0 39	14 8	1 51	27 59	14 55	22 44	22 49	5 33		n.a.
S 19	2 8	19 56	2 1	5 25	3 11	2 25	1 12	24 15	3 11	12 23	1 41	4 35	2 46	0 1	0 39	14 8	1 51	27 59	14 55	22 43	22 49	5 31		n.a.
M20	1 45	22 0	0 53	5 12	3 5	1 54	1 11	24 11	3 9	12 25	1 41	4 34	2 47	0n 1	0 39	14 8	1 51	27 59	14 55	22 43	22 49	5 28		n.a.
T 21	1 21	22 47	0n16	4 56	2 58	1 23	1 9	24 8	3 7	12 28	1 41	4 32	2 47	0 2	0 39	14 7	1 51	27 58	14 56	22 43	22 48	5 26		n.a.
W22	0 58	22 21	1 22	4 37	2 50	0 52	1 8	24 4	3 4	12 30	1 41	4 30	2 47	0 4	0 39	14 7	1 51	27 58	14 56	22 43	22 48	5 23		n.a.
T 23	0 34	20 50	2 22	4 15	2 40	0 21	1 6	24 0	3 2	12 32	1 41	4 29	2 47	0 5	0 39	14 7	1 51	27 58	14 56	22 43	22 47	5 20		n.a.
F 24	0 11	18 23	3 15	3 51	2 29	0n10	1 5	23 56	3 0	12 34	1 40	4 27	2 47	0 6	0 39	14 6	1 51	27 58	14 56	22 43	22 47	5 18		n.a.
S 25	0n13	15 12	3 59	3 25	2 16	0 42	1 3	23 52	2 58	12 36	1 40	4 25	2 47	0 8	0 39	14 6	1 51	27 57	14 57	22 42	22 47	5 15		n.a.
S 26	0 36	11 26	4 32	2 57	2 3	1 13	1 2	23 48	2 55	12 38	1 40	4 24	2 47	0 9	0 39	14 6	1 51	27 57	14 57	22 41	22 46	5 13		n.a.
M27	1 0	7 14	4 53	2 27	1 48	1 44	1 0	23 44	2 53	12 40	1 40	4 22	2 47	0 11	0 39	14 5	1 51	27 57	14 57	22 40	22 46	5 10		n.a.
T 28	1 23	2 46	5 1	1 57	1 33	2 15	0 58	23 40	2 51	12 42	1 40	4 20	2 47	0 12	0 39	14 5	1 51	27 57	14 57	22 38	22 46	5 8		n.a.
W29	1 46	1n49	4 57	1 27	1 17	2 46	0 57	23 35	2 49	12 44	1 40	4 19	2 47	0 13	0 39	14 5	1 51	27 57	14 57	22 37	22 45	5 5		n.a.
T 30	2 10	6 21	4 39	0 56	1 1	3 17	0 55	23 31	2 47	12 46	1 40	4 17	2 47	0 15	0 39	14 4	1 51	27 56	14 58	22 35	22 45	5 2		n.a.
F 31	2n33	10n42	4n 8	0n26	0n44	3n48	0s53	23n26	2n44	12n47	1n39	4s15	2n47	0n16	0s39	14s 4	1n51	27s56	14s58	22s34	22s44	5s 0		n.a.

Julian Day Number = 1660485.5, Delta T = 03h26m01s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°22'15, Lahiri = - 6°15'15 Julian Calendar 1 March 167 BCE == Greg. Calendar 26 Feb. 167 BCE

The year -166 astronomical counting style corresponds to year 167 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 167 BCE
geocentric

APRIL 167 BCE (-166) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 22 22	7♈19'16	29♈34	28°R48	12♈45	28♋28	0°R55	17°R 7	2♈12	12°R41	23♒21	12°R24	13♐56	5♓17	n.a.	S 1
S 2	12 26 19	8°17'21	11♉57	28♓16	13°59	28°42	0♍50	17♎ 3	2°15	12♏40	23°22	12♐17	13°52	5°23	n.a.	S 2
M 3	12 30 16	9°15'25	24°30	27°47	15°13	28°56	0°45	16°58	2°18	12°38	23°23	12°13	13°49	5°30	n.a.	M 3
T 4	12 34 12	10°13'26	7♊15	27°23	16°27	29°11	0°40	16°54	2°22	12°37	23°25	12°D12	13°46	5°37	n.a.	T 4
W 5	12 38 9	11°11'26	20°15	27° 2	17°41	29°26	0°36	16°50	2°25	12°36	23°26	12°12	13°43	5°43	n.a.	W 5
T 6	12 42 5	12° 9'23	3♋33	26°45	18°55	29°42	0°31	16°45	2°29	12°35	23°27	12°13	13°40	5°50	n.a.	T 6
F 7	12 46 2	13° 7'19	17°11	26°34	20° 9	29°58	0°27	16°41	2°32	12°33	23°28	12°R13	13°37	5°57	n.a.	F 7
S 8	12 49 58	14° 5'13	1♌11	26°26	21°23	0♌14	0°23	16°36	2°35	12°32	23°29	12°12	13°33	6° 4	n.a.	S 8
S 9	12 53 55	15° 3'04	15°32	26°D24	22°36	0°31	0°19	16°32	2°39	12°30	23°30	12° 8	13°30	6°10	n.a.	S 9
M10	12 57 51	16° 0'54	0♍13	26°26	23°50	0°49	0°16	16°27	2°42	12°29	23°31	12° 3	13°27	6°17	n.a.	M10
T 11	13 1 48	16°58'42	15° 8	26°32	25° 4	1° 7	0°12	16°23	2°46	12°28	23°32	11°56	13°24	6°24	n.a.	T 11
W12	13 5 45	17°56'28	0♎ 8	26°44	26°18	1°25	0° 9	16°18	2°49	12°26	23°33	11°48	13°21	6°31	n.a.	W12
T 13	13 9 41	18°54'13	15° 6	27° 0	27°31	1°44	0° 6	16°14	2°52	12°25	23°34	11°40	13°17	6°37	n.a.	T 13
F 14	13 13 38	19°51'56	29°52	27°20	28°45	2° 3	0° 3	16° 9	2°56	12°23	23°35	11°33	13°14	6°44	n.a.	F 14
S 15	13 17 34	20°49'37	14♏18	27°45	29°59	2°22	29♌59	16° 5	2°59	12°22	23°36	11°28	13°11	6°51	n.a.	S 15
S 16	13 21 31	21°47'18	28°18	28°14	1♉13	2°42	29°57	16° 1	3° 2	12°20	23°37	11°25	13° 8	6°57	n.a.	S 16
M17	13 25 27	22°44'57	11♐52	28°47	2°26	3° 3	29°55	15°56	3° 6	12°19	23°38	11°D24	13° 5	7° 4	n.a.	M17
T 18	13 29 24	23°42'35	24°59	29°24	3°40	3°23	29°53	15°52	3° 9	12°17	23°39	11°25	13° 2	7°11	n.a.	T 18
W19	13 33 20	24°40'11	7♑43	0♈ 5	4°54	3°44	29°50	15°47	3°12	12°16	23°40	11°26	12°58	7°18	n.a.	W19
T 20	13 37 17	25°37'47	20° 6	0°50	6° 7	4° 6	29°49	15°43	3°15	12°14	23°41	11°R27	12°55	7°24	n.a.	T 20
F 21	13 41 14	26°35'22	2♒15	1°38	7°21	4°28	29°47	15°39	3°19	12°13	23°41	11°27	12°52	7°31	n.a.	F 21
S 22	13 45 10	27°32'55	14°13	2°30	8°34	4°50	29°45	15°34	3°22	12°11	23°42	11°26	12°49	7°38	n.a.	S 22
S 23	13 49 7	28°30'28	26° 6	3°25	9°48	5°12	29°44	15°30	3°25	12°10	23°43	11°22	12°46	7°45	n.a.	S 23
M24	13 53 3	29°27'59	7♓57	4°24	11° 2	5°35	29°43	15°26	3°28	12° 8	23°44	11°17	12°42	7°51	n.a.	M24
T 25	13 57 0	0♉25'29	19°51	5°25	12°15	5°58	29°42	15°21	3°31	12° 7	23°45	11°11	12°39	7°58	n.a.	T 25
W26	14 0 56	1°22'59	1♈51	6°30	13°29	6°22	29°41	15°17	3°34	12° 5	23°45	11° 4	12°36	8° 5	n.a.	W26
T 27	14 4 53	2°20'27	13°58	7°38	14°42	6°45	29°40	15°13	3°38	12° 3	23°46	10°57	12°33	8°11	n.a.	T 27
F 28	14 8 49	3°17'54	26°15	8°48	15°56	7°10	29°40	15° 9	3°41	12° 2	23°47	10°50	12°30	8°18	n.a.	F 28
S 29	14 12 46	4°15'21	8♉43	10° 2	17° 9	7°34	29°39	15° 5	3°44	12° 0	23°47	10°45	12°27	8°25	n.a.	S 29
S 30	14 16 43	5♉12'46	21♉22	11♈18	18♉23	7♌59	29°D39	15♎ 1	3♈47	11♏59	23♒48	10♐42	12♐23	8♓32	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	2n56	14n39	3n26	0s 4	0n28	4n19	0s51	23n21	2n42	12n49	1n39	4s14	2n47	0n17	0s39	14s 3	1n51	27s56	14s58	22s32	22s44	4s57		n.a.
S 2	3 19	18 2	2 34	0 32	0 11	4 49	0 49	23 16	2 40	12 51	1 39	4 12	2 47	0 19	0 39	14 3	1 51	27 56	14 58	22 32	22 44	4 55		n.a.
M 3	3 43	20 37	1 33	0 59	0s 6	5 20	0 47	23 11	2 38	12 52	1 39	4 10	2 47	0 20	0 39	14 3	1 51	27 56	14 59	22 31	22 43	4 52		n.a.
T 4	4 6	22 12	0 26	1 23	0 22	5 51	0 45	23 6	2 36	12 54	1 39	4 8	2 47	0 22	0 39	14 2	1 51	27 55	14 59	22 31	22 43	4 50		n.a.
W 5	4 29	22 38	0s43	1 46	0 38	6 21	0 43	23 1	2 34	12 55	1 38	4 7	2 47	0 23	0 39	14 2	1 51	27 55	14 59	22 31	22 43	4 47		n.a.
T 6	4 51	21 49	1 52	2 7	0 53	6 51	0 41	22 55	2 32	12 57	1 38	4 5	2 47	0 24	0 39	14 1	1 51	27 55	15 0	22 31	22 42	4 44		n.a.
F 7	5 14	19 42	2 56	2 25	1 8	7 22	0 39	22 50	2 30	12 58	1 38	4 3	2 47	0 26	0 39	14 1	1 51	27 55	15 0	22 31	22 42	4 42		n.a.
S 8	5 37	16 22	3 51	2 41	1 22	7 51	0 37	22 44	2 28	12 59	1 38	4 2	2 47	0 27	0 39	14 0	1 52	27 55	15 0	22 31	22 41	4 39		n.a.
S 9	6 0	12 1	4 33	2 54	1 35	8 21	0 35	22 38	2 26	13 0	1 38	4 0	2 47	0 28	0 39	14 0	1 52	27 55	15 0	22 30	22 41	4 37		n.a.
M10	6 22	6 52	4 59	3 5	1 48	8 51	0 33	22 33	2 24	13 2	1 38	3 58	2 47	0 30	0 39	14 0	1 52	27 55	15 1	22 30	22 41	4 34		n.a.
T 11	6 45	1 15	5 5	3 12	1 59	9 20	0 31	22 27	2 22	13 3	1 37	3 56	2 47	0 31	0 39	13 59	1 52	27 55	15 1	22 29	22 40	4 31		n.a.
W12	7 7	4s29	4 50	3 18	2 10	9 49	0 28	22 21	2 20	13 4	1 37	3 55	2 47	0 32	0 39	13 59	1 52	27 55	15 1	22 28	22 40	4 29		n.a.
T 13	7 29	9 56	4 15	3 20	2 20	10 18	0 26	22 14	2 18	13 4	1 37	3 53	2 47	0 34	0 39	13 58	1 52	27 54	15 2	22 27	22 39	4 26		n.a.
F 14	7 51	14 44	3 24	3 20	2 29	10 47	0 24	22 8	2 16	13 5	1 37	3 51	2 47	0 35	0 39	13 58	1 52	27 54	15 2	22 26	22 39	4 24		n.a.
S 15	8 13	18 33	2 20	3 18	2 37	11 16	0 21	22 2	2 14	13 6	1 36	3 50	2 47	0 36	0 39	13 57	1 52	27 54	15 2	22 25	22 39	4 21		n.a.
S 16	8 35	21 9	1 10	3 13	2 44	11 44	0 19	21 55	2 12	13 7	1 36	3 48	2 47	0 38	0 39	13 57	1 52	27 54	15 3	22 25	22 38	4 19		n.a.
M17	8 57	22 26	0n 2	3 5	2 50	12 12	0 17	21 49	2 10	13 8	1 36	3 46	2 47	0 39	0 39	13 56	1 52	27 54	15 3	22 24	22 38	4 16		n.a.
T 18	9 18	22 25	1 13	2 55	2 56	12 39	0 14	21 42	2 8	13 8	1 36	3 45	2 47	0 40	0 39	13 56	1 52	27 54	15 3	22 25	22 37	4 13		n.a.
W19	9 40	21 12	2 17	2 43	3 0	13 7	0 12	21 35	2 7	13 9	1 36	3 43	2 47	0 42	0 39	13 55	1 52	27 54	15 3	22 25	22 37	4 11		n.a.
T 20	10 1	19 0	3 13	2 29	3 4	13 34	0 10	21 28	2 5	13 9	1 35	3 41	2 47	0 43	0 39	13 55	1 52	27 54	15 4	22 25	22 37	4 8		n.a.
F 21	10 22	16 0	4 0	2 12	3 7	14 1	0 7	21 21	2 3	13 10	1 35	3 40	2 47	0 44	0 39	13 54	1 52	27 54	15 4	22 25	22 36	4 6		n.a.
S 22	10 43	12 22	4 35	1 53	3 10	14 27	0 5	21 14	2 1	13 10	1 35	3 38	2 47	0 46	0 39	13 54	1 52	27 54	15 4	22 25	22 36	4 3		n.a.
S 23	11 4	8 18	4 58	1 32	3 11	14 53	0 2	21 7	2 0	13 10	1 35	3 36	2 47	0 47	0 39	13 53	1 52	27 54	15 5	22 24	22 35	4 1		n.a.
M24	11 25	3 55	5 8	1 10	3 12	15 19	0n 0	21 0	1 58	13 10	1 34	3 35	2 47	0 48	0 39	13 53	1 52	27 54	15 5	22 23	22 35	3 58		n.a.
T 25	11 45	0n37	5 5	0 45	3 12	15 44	0 3	20 52	1 56	13 11	1 34	3 33	2 47	0 49	0 39	13 52	1 52	27 54	15 5	22 23	22 35	3 55		n.a.
W26	12 5	5 9	4 49	0 18	3 11	16 9	0 5	20 44	1 54	13 11	1 34	3 32	2 47	0 51	0 39	13 52	1 52	27 54	15 6	22 22	22 34	3 53		n.a.
T 27	12 25	9 33	4 20	0n10	3 9	16 33	0 7	20 37	1 53	13 11	1 34	3 30	2 46	0 52	0 39	13 51	1 52	27 54	15 6	22 21	22 34	3 50		n.a.
F 28	12 45	13 37	3 38	0 40	3 7	16 57	0 10	20 29	1 51	13 11	1 33	3 29	2 46	0 53	0 39	13 51	1 52	27 55	15 6	22 20	22 33	3 48		n.a.
S 29	13 5	17 10	2 45	1 12	3 4	17 21	0 12	20 21	1 49	13 10	1 33	3 27	2 46	0 54	0 39	13 50	1 52	27 55	15 7	22 19	22 33	3 45		n.a.
S 30	13n25	19n58	1n43	1n45	3s 1	17n44	0n15	20n13	1n48	13n10	1n33	3s26	2n46	0n56	0s39	13s50	1n52	27s55	15s 7	22s18	22s32	3s43		n.a.

Julian Day Number = 1660516.5, Delta T = 03h26m00s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°22'11, Lahiri = - 6°15'11 Julian Calendar 1 Apr. 167 BCE == Greg. Calendar 29 March 167 BCE

The year -166 astronomical counting style corresponds to year 167 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 167 BCE
geocentric

MAY 167 BCE (-166) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	14 20 39	6♉10'10	4♊12	12♈38	19♉36	8♌24	29♌39	14°R57	3♈50	11°R57	23♒49	10°R40	12♐20	8♓38	n.a.	M 1
T 2	14 24 36	7° 7'33	17°15	13°59	20°50	8°49	29°39	14♎53	3°53	11♏55	23°49	10°D40	12°17	8°45	n.a.	T 2
W 3	14 28 32	8° 4'55	0♋31	15°24	22° 3	9°14	29°40	14°49	3°56	11°54	23°50	10♐41	12°14	8°52	n.a.	W 3
T 4	14 32 29	9° 2'15	14° 1	16°51	23°17	9°40	29°40	14°45	3°59	11°52	23°50	10°43	12°11	8°58	n.a.	T 4
F 5	14 36 25	9°59'35	27°46	18°21	24°30	10° 6	29°41	14°41	4° 2	11°51	23°51	10°44	12° 8	9° 5	n.a.	F 5
S 6	14 40 22	10°56'53	11♌44	19°54	25°44	10°33	29°42	14°37	4° 5	11°49	23°52	10°R45	12° 4	9°12	n.a.	S 6
S 7	14 44 18	11°54'10	25°57	21°29	26°57	10°59	29°43	14°34	4° 8	11°47	23°52	10°44	12° 1	9°19	n.a.	S 7
M 8	14 48 15	12°51'26	10♍21	23° 7	28°11	11°26	29°45	14°30	4°10	11°46	23°53	10°42	11°58	9°25	n.a.	M 8
T 9	14 52 12	13°48'41	24°53	24°47	29°24	11°54	29°46	14°26	4°13	11°44	23°53	10°39	11°55	9°32	n.a.	T 9
W10	14 56 8	14°45'54	9♎29	26°30	0♊37	12°21	29°48	14°23	4°16	11°42	23°53	10°36	11°52	9°39	n.a.	W10
T 11	15 0 5	15°43'07	24° 1	28°16	1°51	12°49	29°50	14°19	4°19	11°41	23°54	10°32	11°48	9°46	n.a.	T 11
F 12	15 4 1	16°40'19	8♏25	0♉ 4	3° 4	13°16	29°52	14°16	4°22	11°39	23°54	10°29	11°45	9°52	n.a.	F 12
S 13	15 7 58	17°37'31	22°33	1°55	4°17	13°45	29°54	14°12	4°24	11°38	23°55	10°27	11°42	9°59	n.a.	S 13
S 14	15 11 54	18°34'41	6♐23	3°48	5°31	14°13	29°56	14° 9	4°27	11°36	23°55	10°D27	11°39	10° 6	n.a.	S 14
M15	15 15 51	19°31'52	19°51	5°43	6°44	14°41	29°59	14° 6	4°30	11°34	23°55	10°27	11°36	10°12	n.a.	M15
T 16	15 19 47	20°29'02	2♑56	7°41	7°57	15°10	0♍ 1	14° 3	4°32	11°33	23°56	10°28	11°33	10°19	n.a.	T 16
W17	15 23 44	21°26'11	15°40	9°40	9°10	15°39	0° 4	14° 0	4°35	11°31	23°56	10°29	11°29	10°26	n.a.	W17
T 18	15 27 41	22°23'21	28° 6	11°42	10°24	16° 8	0° 7	13°57	4°37	11°30	23°56	10°30	11°26	10°33	n.a.	T 18
F 19	15 31 37	23°20'30	10♒18	13°46	11°37	16°38	0°11	13°54	4°40	11°28	23°56	10°32	11°23	10°39	n.a.	F 19
S 20	15 35 34	24°17'38	22°18	15°52	12°50	17° 7	0°14	13°51	4°43	11°27	23°56	10°R32	11°20	10°46	n.a.	S 20
S 21	15 39 30	25°14'47	4♓13	17°59	14° 3	17°37	0°18	13°48	4°45	11°25	23°57	10°32	11°17	10°53	n.a.	S 21
M22	15 43 27	26°11'55	16° 6	20° 8	15°16	18° 7	0°21	13°45	4°47	11°23	23°57	10°31	11°14	11° 0	n.a.	M22
T 23	15 47 23	27° 9'04	28° 2	22°17	16°30	18°37	0°25	13°43	4°50	11°22	23°57	10°29	11°10	11° 6	n.a.	T 23
W24	15 51 20	28° 6'12	10♈ 5	24°27	17°43	19° 8	0°29	13°40	4°52	11°20	23°57	10°28	11° 7	11°13	n.a.	W24
T 25	15 55 16	29° 3'20	22°19	26°38	18°56	19°38	0°33	13°38	4°55	11°19	23°57	10°26	11° 4	11°20	n.a.	T 25
F 26	15 59 13	0♊ 0'28	4♉45	28°49	20° 9	20° 9	0°38	13°35	4°57	11°17	23°57	10°25	11° 1	11°26	n.a.	F 26
S 27	16 3 10	0°57'36	17°26	1♊ 0	21°22	20°40	0°42	13°33	4°59	11°16	23°57	10°24	10°58	11°33	n.a.	S 27
S 28	16 7 6	1°54'44	0♊23	3°11	22°35	21°11	0°47	13°31	5° 1	11°14	23°R57	10°23	10°54	11°40	n.a.	S 28
M29	16 11 3	2°51'52	13°35	5°21	23°49	21°43	0°52	13°29	5° 4	11°13	23°57	10°D23	10°51	11°47	n.a.	M29
T 30	16 14 59	3°49'00	27° 2	7°31	25° 2	22°14	0°57	13°26	5° 6	11°11	23°57	10°23	10°48	11°53	n.a.	T 30
W31	16 18 56	4♊46'08	10♋42	9♊39	26♊15	22♌46	1♍ 2	13♎24	5♈ 8	11♏10	23♒57	10♐24	10♐45	12♓ 0	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	13n44	21n48	0n35	2n20	2s57	18n 7	0n17	20n 5	1n46	13n10	1n33	3s24	2n46	0n57	0s39	13s49	1n52	27s55	15s 8	22s18	22s32	3s40			n.a.
T 2	14 3	22 30	0s36	2 56	2 52	18 29	0 20	19 56	1 44	13 10	1 32	3 23	2 46	0 58	0 39	13 49	1 52	27 55	15 8	22 18	22 32	3 37			n.a.
W 3	14 22	21 56	1 46	3 34	2 47	18 51	0 22	19 48	1 43	13 9	1 32	3 21	2 46	0 59	0 39	13 48	1 52	27 55	15 8	22 18	22 31	3 35			n.a.
T 4	14 40	20 7	2 52	4 14	2 41	19 12	0 25	19 39	1 41	13 9	1 32	3 20	2 46	1 0	0 39	13 48	1 52	27 55	15 9	22 19	22 31	3 32			n.a.
F 5	14 59	17 6	3 49	4 54	2 34	19 33	0 27	19 31	1 40	13 8	1 32	3 19	2 45	1 2	0 39	13 47	1 52	27 55	15 9	22 19	22 30	3 30			n.a.
S 6	15 17	13 5	4 34	5 36	2 27	19 53	0 29	19 22	1 38	13 8	1 31	3 17	2 45	1 3	0 39	13 47	1 52	27 55	15 9	22 19	22 30	3 27			n.a.
S 7	15 35	8 16	5 3	6 19	2 20	20 13	0 32	19 13	1 37	13 7	1 31	3 16	2 45	1 4	0 39	13 46	1 52	27 56	15 10	22 19	22 29	3 25			n.a.
M 8	15 53	2 57	5 13	7 3	2 12	20 32	0 34	19 4	1 35	13 6	1 31	3 15	2 45	1 5	0 39	13 46	1 52	27 56	15 10	22 18	22 29	3 22			n.a.
T 9	16 10	2s35	5 4	7 48	2 3	20 51	0 37	18 55	1 34	13 6	1 31	3 14	2 45	1 6	0 39	13 45	1 52	27 56	15 10	22 18	22 29	3 20			n.a.
W10	16 27	7 59	4 34	8 34	1 54	21 9	0 39	18 46	1 32	13 5	1 30	3 12	2 45	1 7	0 39	13 45	1 52	27 56	15 11	22 18	22 28	3 17			n.a.
T 11	16 44	12 57	3 48	9 21	1 45	21 26	0 41	18 36	1 31	13 4	1 30	3 11	2 45	1 8	0 39	13 44	1 52	27 56	15 11	22 17	22 28	3 14			n.a.
F 12	17 1	17 6	2 47	10 8	1 35	21 43	0 44	18 27	1 29	13 3	1 30	3 10	2 44	1 9	0 39	13 44	1 52	27 57	15 12	22 17	22 27	3 12			n.a.
S 13	17 17	20 11	1 37	10 57	1 25	22 0	0 46	18 17	1 28	13 2	1 30	3 9	2 44	1 10	0 39	13 43	1 52	27 57	15 12	22 16	22 27	3 9			n.a.
S 14	17 33	21 59	0 22	11 45	1 15	22 15	0 48	18 8	1 26	13 1	1 29	3 8	2 44	1 12	0 39	13 43	1 52	27 57	15 12	22 16	22 26	3 7			n.a.
M15	17 49	22 28	0n52	12 34	1 4	22 30	0 50	17 58	1 25	13 0	1 29	3 7	2 44	1 13	0 39	13 42	1 52	27 57	15 13	22 16	22 26	3 4			n.a.
T 16	18 4	21 40	2 1	13 23	0 53	22 45	0 52	17 48	1 23	12 59	1 29	3 6	2 44	1 14	0 39	13 42	1 52	27 57	15 13	22 16	22 26	3 2			n.a.
W17	18 20	19 46	3 2	14 12	0 43	22 59	0 55	17 38	1 22	12 57	1 29	3 5	2 43	1 15	0 39	13 42	1 52	27 58	15 13	22 17	22 25	2 59			n.a.
T 18	18 35	16 58	3 53	15 1	0 32	23 12	0 57	17 28	1 20	12 56	1 28	3 4	2 43	1 16	0 39	13 41	1 52	27 58	15 14	22 17	22 25	2 57			n.a.
F 19	18 49	13 29	4 33	15 50	0 20	23 24	0 59	17 17	1 19	12 55	1 28	3 3	2 43	1 17	0 39	13 41	1 52	27 58	15 14	22 17	22 24	2 54			n.a.
S 20	19 4	9 31	5 0	16 38	0 9	23 36	1 1	17 7	1 18	12 53	1 28	3 2	2 43	1 18	0 39	13 40	1 52	27 59	15 14	22 17	22 24	2 51			n.a.
S 21	19 18	5 13	5 14	17 25	0n 1	23 47	1 3	16 56	1 16	12 52	1 28	3 1	2 43	1 19	0 39	13 40	1 52	27 59	15 15	22 17	22 23	2 49			n.a.
M22	19 31	0 43	5 14	18 10	0 12	23 58	1 5	16 46	1 15	12 50	1 27	3 0	2 42	1 20	0 39	13 39	1 52	27 59	15 15	22 17	22 23	2 46			n.a.
T 23	19 45	3n48	5 1	18 55	0 23	24 8	1 7	16 35	1 14	12 49	1 27	2 59	2 42	1 21	0 39	13 39	1 52	27 59	15 16	22 17	22 22	2 44			n.a.
W24	19 58	8 14	4 35	19 38	0 33	24 17	1 9	16 24	1 12	12 47	1 27	2 58	2 42	1 21	0 39	13 38	1 52	28 0	15 16	22 16	22 22	2 41			n.a.
T 25	20 11	12 25	3 56	20 19	0 43	24 25	1 11	16 13	1 11	12 45	1 27	2 57	2 42	1 22	0 39	13 38	1 52	28 0	15 16	22 16	22 22	2 39			n.a.
F 26	20 23	16 9	3 5	20 58	0 52	24 33	1 12	16 2	1 10	12 43	1 26	2 57	2 42	1 23	0 39	13 37	1 52	28 0	15 17	22 16	22 21	2 36			n.a.
S 27	20 35	19 12	2 4	21 35	1 1	24 40	1 14	15 51	1 8	12 42	1 26	2 56	2 41	1 24	0 39	13 37	1 52	28 1	15 17	22 16	22 21	2 34			n.a.
S 28	20 47	21 22	0 55	22 10	1 9	24 46	1 16	15 39	1 7	12 40	1 26	2 55	2 41	1 25	0 39	13 36	1 51	28 1	15 17	22 16	22 20	2 31			n.a.
M29	20 58	22 24	0s18	22 42	1 17	24 52	1 18	15 28	1 6	12 38	1 26	2 55	2 41	1 26	0 39	13 36	1 51	28 1	15 18	22 16	22 20	2 28			n.a.
T 30	21 9	22 10	1 31	23 11	1 24	24 56	1 19	15 16	1 4	12 36	1 26	2 54	2 41	1 27	0 39	13 36	1 51	28 2	15 18	22 16	22 19	2 26			n.a.
W31	21n20	20n37	2s40	23n38	1n30	25n 0	1n21	15n 5	1n 3	12n34	1n25	2s54	2n40	1n28	0s39	13s35	1n51	28s 2	15s19	22s16	22s19	2s23			n.a.

Julian Day Number = 1660546.5, Delta T = 03h25m59s
Ecliptic obliquity = 23°42'53, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°22'07, Lahiri = - 6°15'07 Julian Calendar 1 May 167 BCE == Greg. Calendar 28 Apr. 167 BCE

The year -166 astronomical counting style corresponds to year 167 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 167 BCE
geocentric

JUNE 167 BCE (-166) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 22 52	5♊43'15	24♋34	11♊46	27♊28	23♌18	1♍ 7	13°R23	5♈10	11°R 8	23°R57	10♐24	10♐42	12♓ 7	n.a.	T 1
F 2	16 26 49	6°40'22	8♌35	13°52	28°41	23°50	1°12	13♎21	5°12	11♏ 7	23♒57	10°25	10°39	12°13	n.a.	F 2
S 3	16 30 46	7°37'29	22°43	15°57	29°54	24°22	1°18	13°19	5°14	11° 6	23°57	10°25	10°35	12°20	n.a.	S 3
S 4	16 34 42	8°34'36	6♍56	17°59	1♋ 7	24°55	1°24	13°17	5°16	11° 4	23°57	10°R25	10°32	12°27	n.a.	S 4
M 5	16 38 39	9°31'42	21°11	20° 0	2°20	25°27	1°30	13°16	5°18	11° 3	23°57	10°25	10°29	12°34	n.a.	M 5
T 6	16 42 35	10°28'48	5♎26	22° 0	3°33	26° 0	1°36	13°14	5°20	11° 1	23°56	10°D25	10°26	12°40	n.a.	T 6
W 7	16 46 32	11°25'54	19°38	23°57	4°46	26°33	1°42	13°13	5°21	11° 0	23°56	10°25	10°23	12°47	n.a.	W 7
T 8	16 50 28	12°23'00	3♏43	25°53	5°59	27° 6	1°48	13°12	5°23	10°59	23°56	10°25	10°20	12°54	n.a.	T 8
F 9	16 54 25	13°20'07	17°38	27°47	7°12	27°39	1°55	13°11	5°25	10°57	23°56	10°25	10°16	13° 1	n.a.	F 9
S 10	16 58 21	14°17'13	1♐22	29°38	8°24	28°13	2° 1	13°10	5°27	10°56	23°56	10°25	10°13	13° 7	n.a.	S 10
S 11	17 2 18	15°14'19	14°51	1♋28	9°37	28°46	2° 8	13° 9	5°28	10°55	23°55	10°R25	10°10	13°14	n.a.	S 11
M12	17 6 15	16°11'26	28° 4	3°16	10°50	29°20	2°15	13° 8	5°30	10°54	23°55	10°25	10° 7	13°21	n.a.	M12
T 13	17 10 11	17° 8'34	10♉59	5° 2	12° 3	29°54	2°22	13° 7	5°32	10°52	23°55	10°25	10° 4	13°27	n.a.	T 13
W14	17 14 8	18° 5'42	23°39	6°46	13°16	0♍27	2°29	13° 6	5°33	10°51	23°54	10°24	10° 0	13°34	n.a.	W14
T 15	17 18 4	19° 2'50	6♒ 2	8°28	14°29	1° 2	2°36	13° 6	5°35	10°50	23°54	10°23	9°57	13°41	n.a.	T 15
F 16	17 22 1	19°59'59	18°13	10° 9	15°41	1°36	2°43	13° 5	5°36	10°49	23°53	10°22	9°54	13°48	n.a.	F 16
S 17	17 25 57	20°57'09	0♓14	11°47	16°54	2°10	2°51	13° 5	5°37	10°48	23°53	10°21	9°51	13°54	n.a.	S 17
S 18	17 29 54	21°54'19	12° 9	13°23	18° 7	2°45	2°58	13° 4	5°39	10°47	23°53	10°20	9°48	14° 1	n.a.	S 18
M19	17 33 50	22°51'30	24° 3	14°58	19°20	3°19	3° 6	13° 4	5°40	10°45	23°52	10°D20	9°45	14° 8	n.a.	M19
T 20	17 37 47	23°48'43	5♈59	16°30	20°32	3°54	3°14	13° 4	5°41	10°44	23°52	10°20	9°41	14°15	n.a.	T 20
W21	17 41 44	24°45'56	18° 3	18° 1	21°45	4°29	3°22	13°D 4	5°43	10°43	23°51	10°21	9°38	14°21	n.a.	W21
T 22	17 45 40	25°43'10	0♉19	19°30	22°58	5° 4	3°30	13° 4	5°44	10°42	23°51	10°22	9°35	14°28	n.a.	T 22
F 23	17 49 37	26°40'24	12°50	20°56	24°10	5°39	3°38	13° 4	5°45	10°41	23°50	10°23	9°32	14°35	n.a.	F 23
S 24	17 53 33	27°37'40	25°40	22°21	25°23	6°15	3°46	13° 5	5°46	10°40	23°49	10°24	9°29	14°41	n.a.	S 24
S 25	17 57 30	28°34'57	8♊51	23°44	26°35	6°50	3°55	13° 5	5°47	10°39	23°49	10°R25	9°26	14°48	n.a.	S 25
M26	18 1 26	29°32'15	22°23	25° 4	27°48	7°26	4° 3	13° 5	5°48	10°38	23°48	10°25	9°22	14°55	n.a.	M26
T 27	18 5 23	0♋29'34	6♋14	26°23	29° 0	8° 1	4°12	13° 6	5°49	10°37	23°48	10°23	9°19	15° 2	n.a.	T 27
W28	18 9 20	1°26'53	20°21	27°39	0♌13	8°37	4°21	13° 7	5°50	10°37	23°47	10°21	9°16	15° 8	n.a.	W28
T 29	18 13 16	2°24'13	4♌40	28°53	1°25	9°13	4°30	13° 7	5°51	10°36	23°46	10°18	9°13	15°15	n.a.	T 29
F 30	18 17 13	3♋21'34	19♌ 6	0♌ 5	2♌38	9♍49	4♍39	13♎ 8	5♈51	10♏35	23♒46	10♐15	9♐10	15♓22	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n30	17n50	3s41	24n 2	1n36	25n 4	1n22	14n53	1n 2	12n31	1n25	2s53	2n40	1n28	0s39	13s35	1n51	28s 2	15s19	22s16	22s18	2s21		n.a.
F 2	21 40	13 59	4 29	24 24	1 41	25 6	1 24	14 41	1 1	12 29	1 25	2 53	2 40	1 29	0 39	13 34	1 51	28 3	15 19	22 16	22 18	2 18		n.a.
S 3	21 50	9 21	5 2	24 42	1 45	25 8	1 25	14 29	0 59	12 27	1 25	2 52	2 40	1 30	0 39	13 34	1 51	28 3	15 20	22 16	22 17	2 16		n.a.
S 4	21 59	4 10	5 16	24 58	1 49	25 9	1 27	14 17	0 58	12 25	1 24	2 52	2 39	1 31	0 39	13 34	1 51	28 4	15 20	22 16	22 17	2 13		n.a.
M 5	22 8	1s14	5 11	25 11	1 51	25 9	1 28	14 4	0 57	12 22	1 24	2 51	2 39	1 31	0 40	13 33	1 51	28 4	15 20	22 16	22 17	2 11		n.a.
T 6	22 17	6 34	4 47	25 22	1 54	25 9	1 29	13 52	0 56	12 20	1 24	2 51	2 39	1 32	0 40	13 33	1 51	28 4	15 21	22 16	22 16	2 8		n.a.
W 7	22 25	11 33	4 6	25 29	1 55	25 8	1 30	13 40	0 54	12 18	1 24	2 51	2 39	1 33	0 40	13 32	1 51	28 5	15 21	22 16	22 16	2 6		n.a.
T 8	22 32	15 52	3 10	25 35	1 56	25 6	1 31	13 27	0 53	12 15	1 24	2 50	2 38	1 34	0 40	13 32	1 51	28 5	15 22	22 16	22 15	2 3		n.a.
F 9	22 40	19 15	2 3	25 38	1 56	25 3	1 32	13 14	0 52	12 13	1 23	2 50	2 38	1 34	0 40	13 32	1 51	28 6	15 22	22 16	22 15	2 0		n.a.
S 10	22 47	21 29	0 50	25 38	1 56	25 0	1 33	13 1	0 51	12 10	1 23	2 50	2 38	1 35	0 40	13 31	1 51	28 6	15 22	22 16	22 14	1 58		n.a.
S 11	22 53	22 26	0n25	25 37	1 54	24 56	1 34	12 49	0 50	12 7	1 23	2 50	2 38	1 36	0 40	13 31	1 51	28 6	15 23	22 16	22 14	1 55		n.a.
M12	22 59	22 6	1 36	25 33	1 53	24 51	1 35	12 36	0 48	12 5	1 23	2 50	2 37	1 36	0 40	13 31	1 51	28 7	15 23	22 16	22 13	1 53		n.a.
T 13	23 5	20 34	2 41	25 27	1 50	24 45	1 36	12 22	0 47	12 2	1 22	2 50	2 37	1 37	0 40	13 30	1 51	28 7	15 23	22 16	22 13	1 50		n.a.
W14	23 10	18 3	3 37	25 20	1 47	24 39	1 37	12 9	0 46	11 59	1 22	2 50	2 37	1 37	0 40	13 30	1 51	28 8	15 24	22 16	22 12	1 48		n.a.
T 15	23 15	14 45	4 21	25 10	1 44	24 32	1 37	11 56	0 45	11 56	1 22	2 50	2 37	1 38	0 40	13 30	1 51	28 8	15 24	22 16	22 12	1 45		n.a.
F 16	23 20	10 54	4 53	24 59	1 40	24 24	1 38	11 43	0 44	11 54	1 22	2 50	2 36	1 38	0 40	13 29	1 51	28 9	15 24	22 15	22 11	1 43		n.a.
S 17	23 24	6 40	5 11	24 46	1 35	24 15	1 38	11 29	0 43	11 51	1 22	2 50	2 36	1 39	0 40	13 29	1 51	28 9	15 25	22 15	22 11	1 40		n.a.
S 18	23 28	2 13	5 16	24 32	1 30	24 6	1 39	11 15	0 42	11 48	1 21	2 50	2 36	1 40	0 40	13 29	1 51	28 10	15 25	22 15	22 10	1 38		n.a.
M19	23 31	2n18	5 7	24 16	1 25	23 56	1 39	11 2	0 40	11 45	1 21	2 50	2 35	1 40	0 40	13 28	1 51	28 10	15 25	22 15	22 10	1 35		n.a.
T 20	23 34	6 45	4 45	23 59	1 19	23 46	1 39	10 48	0 39	11 42	1 21	2 50	2 35	1 41	0 40	13 28	1 51	28 11	15 26	22 15	22 10	1 33		n.a.
W21	23 37	11 0	4 10	23 41	1 12	23 34	1 40	10 34	0 38	11 38	1 21	2 51	2 35	1 41	0 40	13 28	1 51	28 11	15 26	22 15	22 9	1 30		n.a.
T 22	23 39	14 53	3 24	23 21	1 5	23 22	1 40	10 20	0 37	11 35	1 21	2 51	2 35	1 41	0 40	13 27	1 51	28 12	15 26	22 16	22 9	1 28		n.a.
F 23	23 40	18 11	2 26	23 1	0 58	23 10	1 40	10 6	0 36	11 32	1 20	2 51	2 34	1 42	0 40	13 27	1 50	28 12	15 27	22 16	22 8	1 25		n.a.
S 24	23 42	20 42	1 20	22 40	0 50	22 56	1 40	9 52	0 35	11 29	1 20	2 51	2 34	1 42	0 40	13 27	1 50	28 13	15 27	22 16	22 8	1 22		n.a.
S 25	23 42	22 10	0 9	22 18	0 42	22 42	1 40	9 38	0 34	11 26	1 20	2 52	2 34	1 43	0 40	13 27	1 50	28 13	15 27	22 16	22 7	1 20		n.a.
M26	23 43	22 24	1s 5	21 55	0 34	22 28	1 40	9 23	0 33	11 22	1 20	2 52	2 34	1 43	0 40	13 26	1 50	28 14	15 28	22 16	22 7	1 17		n.a.
T 27	23 43	21 17	2 17	21 32	0 25	22 13	1 39	9 9	0 32	11 19	1 20	2 53	2 33	1 43	0 40	13 26	1 50	28 14	15 28	22 16	22 6	1 15		n.a.
W28	23 42	18 49	3 22	21 8	0 16	21 57	1 39	8 54	0 31	11 15	1 20	2 53	2 33	1 44	0 40	13 26	1 50	28 15	15 28	22 15	22 6	1 12		n.a.
T 29	23 42	15 11	4 15	20 43	0 6	21 40	1 39	8 39	0 30	11 12	1 19	2 54	2 33	1 44	0 40	13 26	1 50	28 15	15 29	22 15	22 5	1 10		n.a.
F 30	23n40	10n38	4s53	20n18	0s 4	21n23	1n38	8n25	0n28	11n 9	1n19	2s54	2n32	1n44	0s40	13s26	1n50	28s16	15s29	22s15	22s 5	1s 7		n.a.

Julian Day Number = 1660577.5, Delta T = 03h25m58s
Ecliptic obliquity = 23°42'52, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°22'03, Lahiri = - 6°15'02 Julian Calendar 1 June 167 BCE == Greg. Calendar 29 May 167 BCE

The year -166 astronomical counting style corresponds to year 167 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 167 BCE
geocentric

JULY 167 BCE (-166) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 21 9	4♋18'56	3♍34	1♌14	3♌50	10♍26	4♍48	13♎ 9	5♈52	10°R34	23°R45	10°R13	9♐ 6	15♓29	n.a.	S 1
S 2	18 25 6	5°16'18	17°58	2°21	5° 3	11° 2	4°57	13°10	5°53	10♏33	23♒44	10♐11	9° 3	15°35	n.a.	S 2
M 3	18 29 2	6°13'41	2♎14	3°25	6°15	11°39	5° 6	13°11	5°54	10°33	23°43	10°D10	9° 0	15°42	n.a.	M 3
T 4	18 32 59	7°11'05	16°21	4°27	7°28	12°15	5°16	13°13	5°54	10°32	23°43	10°10	8°57	15°49	n.a.	T 4
W 5	18 36 55	8° 8'29	0♏16	5°26	8°40	12°52	5°25	13°14	5°55	10°31	23°42	10°11	8°54	15°55	n.a.	W 5
T 6	18 40 52	9° 5'55	13°59	6°22	9°52	13°29	5°35	13°15	5°55	10°31	23°41	10°12	8°51	16° 2	n.a.	T 6
F 7	18 44 49	10° 3'21	27°30	7°15	11° 4	14° 6	5°44	13°17	5°56	10°30	23°40	10°14	8°47	16° 9	n.a.	F 7
S 8	18 48 45	11° 0'48	10♐48	8° 5	12°17	14°43	5°54	13°18	5°56	10°29	23°39	10°R14	8°44	16°16	n.a.	S 8
S 9	18 52 42	11°58'16	23°53	8°52	13°29	15°20	6° 4	13°20	5°56	10°29	23°39	10°14	8°41	16°22	n.a.	S 9
M10	18 56 38	12°55'46	6♑47	9°35	14°41	15°57	6°14	13°22	5°57	10°28	23°38	10°11	8°38	16°29	n.a.	M10
T 11	19 0 35	13°53'17	19°27	10°14	15°53	16°35	6°24	13°24	5°57	10°28	23°37	10° 7	8°35	16°36	n.a.	T 11
W12	19 4 31	14°50'49	1♒55	10°50	17° 5	17°12	6°34	13°26	5°57	10°27	23°36	10° 2	8°32	16°42	n.a.	W12
T 13	19 8 28	15°48'22	14°12	11°22	18°17	17°50	6°45	13°28	5°57	10°27	23°35	9°56	8°28	16°49	n.a.	T 13
F 14	19 12 24	16°45'56	26°19	11°49	19°29	18°27	6°55	13°30	5°57	10°26	23°34	9°50	8°25	16°56	n.a.	F 14
S 15	19 16 21	17°43'33	8♓18	12°12	20°41	19° 5	7° 5	13°32	5°57	10°26	23°33	9°44	8°22	17° 3	n.a.	S 15
S 16	19 20 18	18°41'10	20°12	12°30	21°53	19°43	7°16	13°35	5°R57	10°26	23°32	9°39	8°19	17° 9	n.a.	S 16
M17	19 24 14	19°38'50	2♈ 4	12°43	23° 5	20°21	7°26	13°37	5°57	10°25	23°31	9°35	8°16	17°16	n.a.	M17
T 18	19 28 11	20°36'31	13°58	12°51	24°17	20°59	7°37	13°40	5°57	10°25	23°30	9°34	8°12	17°23	n.a.	T 18
W19	19 32 7	21°34'13	26° 0	12°R54	25°29	21°38	7°48	13°42	5°57	10°25	23°29	9°D33	8° 9	17°30	n.a.	W19
T 20	19 36 4	22°31'58	8♉14	12°51	26°41	22°16	7°58	13°45	5°57	10°24	23°28	9°34	8° 6	17°36	n.a.	T 20
F 21	19 40 0	23°29'44	20°45	12°43	27°52	22°55	8° 9	13°48	5°57	10°24	23°27	9°36	8° 3	17°43	n.a.	F 21
S 22	19 43 57	24°27'33	3♊38	12°29	29° 4	23°33	8°20	13°51	5°56	10°24	23°26	9°R37	8° 0	17°50	n.a.	S 22
S 23	19 47 53	25°25'23	16°55	12° 9	0♍16	24°12	8°31	13°53	5°56	10°24	23°25	9°37	7°57	17°56	n.a.	S 23
M24	19 51 50	26°23'14	0♋38	11°43	1°27	24°51	8°42	13°57	5°56	10°24	23°24	9°35	7°53	18° 3	n.a.	M24
T 25	19 55 47	27°21'08	14°46	11°12	2°39	25°30	8°54	14° 0	5°55	10°24	23°23	9°31	7°50	18°10	n.a.	T 25
W26	19 59 43	28°19'03	29°16	10°35	3°51	26° 9	9° 5	14° 3	5°55	10°24	23°22	9°25	7°47	18°17	n.a.	W26
T 27	20 3 40	29°17'00	14♌ 1	9°53	5° 2	26°48	9°16	14° 6	5°54	10°D24	23°21	9°18	7°44	18°23	n.a.	T 27
F 28	20 7 36	0♌14'58	28°54	9° 7	6°14	27°27	9°28	14°10	5°54	10°24	23°20	9°10	7°41	18°30	n.a.	F 28
S 29	20 11 33	1°12'58	13♍45	8°17	7°25	28° 6	9°39	14°13	5°53	10°24	23°19	9° 3	7°37	18°37	n.a.	S 29
S 30	20 15 29	2°10'59	28°28	7°24	8°37	28°46	9°51	14°17	5°52	10°24	23°17	8°57	7°34	18°43	n.a.	S 30
M31	20 19 26	3♌ 9'02	12♎56	6♌28	9♍48	29♍25	10♍ 2	14♎20	5♈52	10♏24	23♒16	8♐53	7♐31	18♓50	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n39	5n29	5s12	19n53	0s14	21n 6	1n37	8n10	0n27	11n 5	1n19	2s55	2n32	1n45	0s40	13s25	1n50	28s16	15s29	22s14	22s 4	1s 5		n.a.
S 2	23 36	0 3	5 11	19 28	0 24	20 47	1 37	7 55	0 26	11 1	1 19	2 56	2 32	1 45	0 40	13 25	1 50	28 17	15 29	22 14	22 4	1 2		n.a.
M 3	23 34	5s20	4 51	19 3	0 35	20 28	1 36	7 40	0 25	10 58	1 19	2 56	2 32	1 45	0 40	13 25	1 50	28 17	15 30	22 14	22 3	1 0		n.a.
T 4	23 31	10 23	4 14	18 38	0 46	20 9	1 35	7 25	0 24	10 54	1 18	2 57	2 31	1 45	0 40	13 25	1 50	28 18	15 30	22 14	22 3	0 57		n.a.
W 5	23 28	14 50	3 22	18 12	0 57	19 49	1 34	7 10	0 23	10 51	1 18	2 58	2 31	1 45	0 40	13 25	1 50	28 18	15 30	22 14	22 2	0 55		n.a.
T 6	23 24	18 25	2 19	17 48	1 8	19 29	1 33	6 55	0 22	10 47	1 18	2 59	2 31	1 46	0 40	13 24	1 50	28 19	15 31	22 14	22 2	0 52		n.a.
F 7	23 20	20 57	1 9	17 23	1 20	19 8	1 32	6 39	0 21	10 43	1 18	3 0	2 31	1 46	0 40	13 24	1 50	28 20	15 31	22 14	22 1	0 50		n.a.
S 8	23 15	22 16	0n 3	16 59	1 32	18 46	1 31	6 24	0 20	10 39	1 18	3 0	2 30	1 46	0 40	13 24	1 50	28 20	15 31	22 14	22 1	0 47		n.a.
S 9	23 10	22 20	1 14	16 35	1 43	18 24	1 30	6 8	0 19	10 35	1 18	3 1	2 30	1 46	0 40	13 24	1 50	28 21	15 31	22 14	22 0	0 45		n.a.
M10	23 5	21 13	2 20	16 12	1 55	18 2	1 29	5 53	0 18	10 32	1 18	3 2	2 30	1 46	0 41	13 24	1 50	28 21	15 32	22 14	22 0	0 42		n.a.
T 11	22 59	19 2	3 17	15 50	2 7	17 39	1 27	5 37	0 17	10 28	1 17	3 3	2 30	1 46	0 41	13 24	1 49	28 22	15 32	22 13	21 59	0 40		n.a.
W12	22 53	15 59	4 5	15 29	2 19	17 15	1 26	5 22	0 16	10 24	1 17	3 4	2 29	1 46	0 41	13 24	1 49	28 22	15 32	22 13	21 59	0 37		n.a.
T 13	22 46	12 18	4 40	15 9	2 31	16 52	1 25	5 6	0 15	10 20	1 17	3 5	2 29	1 46	0 41	13 24	1 49	28 23	15 32	22 12	21 58	0 35		n.a.
F 14	22 39	8 10	5 2	14 50	2 43	16 27	1 23	4 50	0 14	10 16	1 17	3 6	2 29	1 46	0 41	13 24	1 49	28 23	15 33	22 11	21 58	0 32		n.a.
S 15	22 31	3 46	5 10	14 32	2 55	16 3	1 21	4 34	0 13	10 12	1 17	3 8	2 28	1 46	0 41	13 24	1 49	28 24	15 33	22 10	21 57	0 30		n.a.
S 16	22 24	0n44	5 5	14 16	3 6	15 37	1 19	4 18	0 12	10 8	1 17	3 9	2 28	1 46	0 41	13 23	1 49	28 25	15 33	22 9	21 57	0 27		n.a.
M17	22 15	5 12	4 47	14 2	3 18	15 12	1 18	4 2	0 12	10 3	1 16	3 10	2 28	1 46	0 41	13 23	1 49	28 25	15 33	22 9	21 56	0 25		n.a.
T 18	22 7	9 30	4 16	13 49	3 29	14 46	1 16	3 46	0 11	9 59	1 16	3 11	2 28	1 46	0 41	13 23	1 49	28 26	15 34	22 8	21 56	0 22		n.a.
W19	21 58	13 28	3 34	13 38	3 39	14 20	1 14	3 30	0 10	9 55	1 16	3 12	2 27	1 46	0 41	13 23	1 49	28 26	15 34	22 8	21 55	0 20		n.a.
T 20	21 48	16 57	2 42	13 29	3 49	13 53	1 12	3 14	0 9	9 51	1 16	3 14	2 27	1 46	0 41	13 23	1 49	28 27	15 34	22 8	21 55	0 17		n.a.
F 21	21 39	19 45	1 40	13 23	3 58	13 26	1 10	2 58	0 8	9 47	1 16	3 15	2 27	1 46	0 41	13 23	1 49	28 27	15 34	22 9	21 54	0 15		n.a.
S 22	21 28	21 39	0 32	13 19	4 6	12 59	1 7	2 42	0 7	9 42	1 16	3 16	2 27	1 46	0 41	13 23	1 49	28 28	15 34	22 9	21 54	0 12		n.a.
S 23	21 18	22 25	0s39	13 17	4 14	12 31	1 5	2 25	0 6	9 38	1 16	3 18	2 26	1 46	0 41	13 23	1 49	28 28	15 35	22 9	21 53	0 10		n.a.
M24	21 7	21 52	1 51	13 18	4 20	12 3	1 3	2 9	0 5	9 34	1 16	3 19	2 26	1 45	0 41	13 23	1 49	28 29	15 35	22 9	21 53	0 7		n.a.
T 25	20 56	19 56	2 58	13 22	4 25	11 35	1 0	1 52	0 4	9 29	1 15	3 21	2 26	1 45	0 41	13 23	1 49	28 30	15 35	22 8	21 52	0 5		n.a.
W26	20 44	16 43	3 55	13 28	4 29	11 6	0 58	1 36	0 3	9 25	1 15	3 22	2 26	1 45	0 41	13 23	1 49	28 30	15 35	22 7	21 52	0 2		n.a.
T 27	20 32	12 23	4 37	13 37	4 31	10 38	0 55	1 19	0 2	9 21	1 15	3 24	2 25	1 45	0 41	13 24	1 48	28 31	15 35	22 6	21 51	0n 0		n.a.
F 28	20 20	7 17	5 1	13 49	4 32	10 9	0 53	1 3	0 1	9 16	1 15	3 25	2 25	1 44	0 41	13 24	1 48	28 31	15 36	22 5	21 50	0 3		n.a.
S 29	20 7	1 46	5 5	14 3	4 30	9 39	0 50	0 46	0 0	9 12	1 15	3 27	2 25	1 44	0 41	13 24	1 48	28 32	15 36	22 4	21 50	0 5		n.a.
S 30	19 54	3s47	4 49	14 20	4 27	9 10	0 47	0 29	0s 0	9 7	1 15	3 28	2 25	1 44	0 41	13 24	1 48	28 32	15 36	22 3	21 49	0 8		n.a.
M31	19n41	9s 3	4s14	14n39	4s22	8n40	0n44	0n13	0s 1	9n 3	1n15	3s30	2n24	1n44	0s41	13s24	1n48	28s33	15s36	22s 2	21s49	0n10		n.a.

Julian Day Number = 1660607.5, Delta T = 03h25m57s
Ecliptic obliquity = 23°42'52, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'59, Lahiri = - 6°14'58 Julian Calendar 1 July 167 BCE == Greg. Calendar 28 June 167 BCE

The year -166 astronomical counting style corresponds to year 167 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 167 BCE
geocentric

AUGUST 167 BCE (-166) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 23 22	4♌ 7'06	27♎ 5	5°R32	10♍59	0♎ 5	10♍14	14♎24	5°R51	10♏24	23°R15	8°R51	7♐28	18♓57	n.a.	T 1
W 2	20 27 19	5° 5'12	10♏55	4♌36	12°10	0°45	10°25	14°28	5♈50	10°24	23♒14	8°D51	7°25	19° 4	n.a.	W 2
T 3	20 31 16	6° 3'20	24°26	3°41	13°22	1°24	10°37	14°32	5°49	10°25	23°13	8♐52	7°22	19°10	n.a.	T 3
F 4	20 35 12	7° 1'28	7♐39	2°48	14°33	2° 4	10°49	14°36	5°48	10°25	23°12	8°R53	7°18	19°17	n.a.	F 4
S 5	20 39 9	7°59'39	20°38	1°59	15°44	2°44	11° 1	14°40	5°47	10°25	23°11	8°52	7°15	19°24	n.a.	S 5
S 6	20 43 5	8°57'51	3♑23	1°15	16°55	3°24	11°13	14°44	5°46	10°25	23° 9	8°49	7°12	19°31	n.a.	S 6
M 7	20 47 2	9°56'05	15°58	0°37	18° 6	4° 5	11°25	14°48	5°45	10°26	23° 8	8°44	7° 9	19°37	n.a.	M 7
T 8	20 50 58	10°54'21	28°22	0° 6	19°17	4°45	11°37	14°52	5°44	10°26	23° 7	8°36	7° 6	19°44	n.a.	T 8
W 9	20 54 55	11°52'38	10♒38	29♋42	20°28	5°25	11°49	14°56	5°43	10°27	23° 6	8°26	7° 3	19°51	n.a.	W 9
T 10	20 58 51	12°50'57	22°46	29°27	21°38	6° 6	12° 1	15° 1	5°42	10°27	23° 5	8°14	6°59	19°57	n.a.	T 10
F 11	21 2 48	13°49'18	4♓47	29°D20	22°49	6°46	12°13	15° 5	5°41	10°27	23° 3	8° 2	6°56	20° 4	n.a.	F 11
S 12	21 6 45	14°47'42	16°42	29°23	24° 0	7°27	12°25	15°10	5°39	10°28	23° 2	7°50	6°53	20°11	n.a.	S 12
S 13	21 10 41	15°46'07	28°34	29°34	25°10	8° 8	12°38	15°14	5°38	10°28	23° 1	7°40	6°50	20°18	n.a.	S 13
M14	21 14 38	16°44'34	10♈24	29°55	26°21	8°48	12°50	15°19	5°37	10°29	23° 0	7°32	6°47	20°24	n.a.	M14
T 15	21 18 34	17°43'04	22°17	0♌24	27°31	9°29	13° 2	15°24	5°35	10°30	22°59	7°27	6°43	20°31	n.a.	T 15
W16	21 22 31	18°41'36	4♉17	1° 3	28°42	10°10	13°15	15°29	5°34	10°30	22°57	7°24	6°40	20°38	n.a.	W16
T 17	21 26 27	19°40'10	16°28	1°50	29°52	10°51	13°27	15°34	5°32	10°31	22°56	7°D23	6°37	20°44	n.a.	T 17
F 18	21 30 24	20°38'47	28°55	2°44	1♎ 2	11°33	13°40	15°39	5°31	10°32	22°55	7°23	6°34	20°51	n.a.	F 18
S 19	21 34 20	21°37'26	11♊43	3°47	2°13	12°14	13°52	15°44	5°29	10°32	22°54	7°R23	6°31	20°58	n.a.	S 19
S 20	21 38 17	22°36'07	24°58	4°56	3°23	12°55	14° 5	15°49	5°28	10°33	22°52	7°22	6°28	21° 5	n.a.	S 20
M21	21 42 13	23°34'51	8♋41	6°11	4°33	13°37	14°17	15°54	5°26	10°34	22°51	7°19	6°24	21°11	n.a.	M21
T 22	21 46 10	24°33'37	22°54	7°32	5°43	14°18	14°30	15°59	5°24	10°35	22°50	7°13	6°21	21°18	n.a.	T 22
W23	21 50 7	25°32'25	7♌33	8°58	6°53	15° 0	14°43	16° 4	5°23	10°36	22°49	7° 5	6°18	21°25	n.a.	W23
T 24	21 54 3	26°31'16	22°34	10°29	8° 3	15°42	14°55	16°10	5°21	10°37	22°48	6°54	6°15	21°32	n.a.	T 24
F 25	21 58 0	27°30'08	7♍46	12° 3	9°13	16°23	15° 8	16°15	5°19	10°38	22°46	6°43	6°12	21°38	n.a.	F 25
S 26	22 1 56	28°29'02	22°59	13°41	10°22	17° 5	15°21	16°20	5°17	10°38	22°45	6°32	6° 9	21°45	n.a.	S 26
S 27	22 5 53	29°27'59	8♎ 2	15°21	11°32	17°47	15°34	16°26	5°16	10°39	22°44	6°24	6° 5	21°52	n.a.	S 27
M28	22 9 49	0♍26'57	22°46	17° 4	12°41	18°29	15°47	16°32	5°14	10°40	22°43	6°17	6° 2	21°58	n.a.	M28
T 29	22 13 46	1°25'57	7♏ 7	18°48	13°51	19°12	15°59	16°37	5°12	10°41	22°41	6°13	5°59	22° 5	n.a.	T 29
W30	22 17 42	2°24'59	21° 2	20°34	15° 0	19°54	16°12	16°43	5°10	10°43	22°40	6°12	5°56	22°12	n.a.	W30
T 31	22 21 39	3♍24'03	4♐32	22♌21	16♎10	20♎36	16♍25	16♎49	5♈ 8	10♏44	22♒39	6♐12	5♐53	22♓19	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	19n27	13s44	3s25	14n59	4s15	8n10	0n41	0s 4	0s 2	8n58	1n15	3s32	2n24	1n43	0s41	13s24	1n48	28s33	15s36	22s 2	21s48	0n13		n.a.
W 2	19 13	17 33	2 24	15 22	4 6	7 40	0 38	0 21	0 3	8 53	1 15	3 33	2 24	1 43	0 41	13 24	1 48	28 34	15 36	22 2	21 48	0 15		n.a.
T 3	18 58	20 20	1 17	15 45	3 55	7 9	0 35	0 38	0 4	8 49	1 14	3 35	2 24	1 42	0 41	13 24	1 48	28 34	15 36	22 2	21 47	0 18		n.a.
F 4	18 44	21 57	0 7	16 9	3 42	6 39	0 32	0 54	0 5	8 44	1 14	3 37	2 24	1 42	0 41	13 24	1 48	28 35	15 37	22 2	21 47	0 20		n.a.
S 5	18 29	22 20	1n 2	16 34	3 28	6 8	0 29	1 11	0 6	8 40	1 14	3 39	2 23	1 42	0 41	13 25	1 48	28 35	15 37	22 2	21 46	0 23		n.a.
S 6	18 13	21 33	2 7	16 59	3 12	5 37	0 26	1 28	0 6	8 35	1 14	3 40	2 23	1 41	0 41	13 25	1 48	28 36	15 37	22 2	21 46	0 25		n.a.
M 7	17 58	19 42	3 4	17 24	2 55	5 6	0 23	1 45	0 7	8 30	1 14	3 42	2 23	1 41	0 41	13 25	1 48	28 36	15 37	22 1	21 45	0 28		n.a.
T 8	17 42	16 56	3 52	17 48	2 38	4 35	0 19	2 2	0 8	8 26	1 14	3 44	2 23	1 40	0 41	13 25	1 48	28 37	15 37	21 59	21 45	0 30		n.a.
W 9	17 25	13 28	4 28	18 10	2 20	4 4	0 16	2 19	0 9	8 21	1 14	3 46	2 22	1 40	0 41	13 25	1 48	28 38	15 37	21 58	21 44	0 32		n.a.
T 10	17 9	9 30	4 51	18 32	2 1	3 33	0 12	2 36	0 10	8 16	1 14	3 48	2 22	1 39	0 41	13 25	1 48	28 38	15 37	21 56	21 44	0 35		n.a.
F 11	16 52	5 12	5 2	18 52	1 42	3 1	0 9	2 53	0 11	8 11	1 14	3 50	2 22	1 39	0 41	13 26	1 47	28 39	15 37	21 54	21 43	0 37		n.a.
S 12	16 35	0 44	4 59	19 9	1 23	2 30	0 5	3 10	0 11	8 6	1 14	3 52	2 22	1 38	0 41	13 26	1 47	28 39	15 37	21 52	21 43	0 40		n.a.
S 13	16 18	3n44	4 43	19 25	1 5	1 58	0 2	3 27	0 12	8 2	1 14	3 54	2 22	1 38	0 41	13 26	1 47	28 40	15 37	21 50	21 42	0 42		n.a.
M14	16 0	8 3	4 14	19 38	0 47	1 26	0s 2	3 44	0 13	7 57	1 13	3 56	2 21	1 37	0 41	13 26	1 47	28 40	15 38	21 49	21 41	0 45		n.a.
T 15	15 42	12 6	3 35	19 49	0 30	0 55	0 5	4 1	0 14	7 52	1 13	3 58	2 21	1 37	0 41	13 27	1 47	28 40	15 38	21 48	21 41	0 47		n.a.
W16	15 24	15 42	2 46	19 57	0 13	0 23	0 9	4 18	0 15	7 47	1 13	4 0	2 21	1 36	0 42	13 27	1 47	28 41	15 38	21 48	21 40	0 50		n.a.
T 17	15 5	18 41	1 49	20 1	0n 3	0s 9	0 13	4 35	0 16	7 42	1 13	4 2	2 21	1 35	0 42	13 27	1 47	28 41	15 38	21 48	21 40	0 52		n.a.
F 18	14 46	20 52	0 45	20 3	0 17	0 40	0 17	4 52	0 16	7 37	1 13	4 4	2 21	1 35	0 42	13 27	1 47	28 42	15 38	21 48	21 39	0 55		n.a.
S 19	14 28	22 4	0s23	20 2	0 31	1 12	0 20	5 9	0 17	7 32	1 13	4 6	2 20	1 34	0 42	13 28	1 47	28 42	15 38	21 48	21 39	0 57		n.a.
S 20	14 8	22 5	1 32	19 58	0 44	1 44	0 24	5 26	0 18	7 27	1 13	4 8	2 20	1 34	0 42	13 28	1 47	28 43	15 38	21 47	21 38	1 0		n.a.
M21	13 49	20 48	2 38	19 50	0 55	2 16	0 28	5 43	0 19	7 22	1 13	4 11	2 20	1 33	0 42	13 28	1 47	28 43	15 38	21 47	21 38	1 2		n.a.
T 22	13 29	18 12	3 36	19 39	1 6	2 47	0 32	6 0	0 19	7 17	1 13	4 13	2 20	1 32	0 42	13 29	1 47	28 44	15 38	21 46	21 37	1 4		n.a.
W23	13 9	14 22	4 22	19 26	1 15	3 19	0 36	6 17	0 20	7 12	1 13	4 15	2 20	1 31	0 42	13 29	1 47	28 44	15 38	21 44	21 37	1 7		n.a.
T 24	12 49	9 34	4 51	19 9	1 23	3 50	0 40	6 34	0 21	7 7	1 13	4 17	2 19	1 31	0 42	13 29	1 47	28 45	15 38	21 43	21 36	1 9		n.a.
F 25	12 29	4 7	5 0	18 49	1 30	4 22	0 44	6 51	0 22	7 2	1 13	4 19	2 19	1 30	0 42	13 30	1 47	28 45	15 38	21 41	21 35	1 12		n.a.
S 26	12 8	1s35	4 48	18 27	1 36	4 53	0 48	7 8	0 22	6 57	1 13	4 22	2 19	1 29	0 42	13 30	1 47	28 45	15 38	21 39	21 35	1 14		n.a.
S 27	11 47	7 8	4 16	18 2	1 41	5 25	0 52	7 25	0 23	6 52	1 13	4 24	2 19	1 29	0 42	13 30	1 46	28 46	15 38	21 37	21 34	1 17		n.a.
M28	11 26	12 10	3 28	17 34	1 45	5 56	0 56	7 42	0 24	6 47	1 13	4 26	2 19	1 28	0 42	13 31	1 46	28 46	15 38	21 36	21 34	1 19		n.a.
T 29	11 5	16 22	2 27	17 4	1 48	6 27	1 0	7 59	0 25	6 42	1 13	4 29	2 18	1 27	0 42	13 31	1 46	28 47	15 38	21 36	21 33	1 22		n.a.
W30	10 44	19 30	1 19	16 33	1 51	6 58	1 4	8 15	0 25	6 37	1 13	4 31	2 18	1 26	0 42	13 32	1 46	28 47	15 38	21 35	21 33	1 24		n.a.
T 31	10n22	21s26	0s 9	15n59	1n52	7s29	1s 8	8s32	0s26	6n32	1n12	4s33	2n18	1n25	0s42	13s32	1n46	28s47	15s38	21s35	21s32	1n26		n.a.

Julian Day Number = 1660638.5, Delta T = 03h25m56s
Ecliptic obliquity = 23°42'52, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'55, Lahiri = - 6°14'54 Julian Calendar 1 Aug. 167 BCE == Greg. Calendar 29 July 167 BCE

The year -166 astronomical counting style corresponds to year 167 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 167 BCE
geocentric

SEPTEMBER 167 BCE (-166) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	22 25 36	4♍23'09	17♐40	24♌ 8	17♎19	21♎18	16♍38	16♎54	5°R 6	10♏45	22°R38	6°R12	5♐49	22♓25	n.a.	F 1
S 2	22 29 32	5°22'17	0♑28	25°56	18°28	22° 1	16°51	17° 0	5♈ 4	10°46	22♒37	6♐10	5°46	22°32	n.a.	S 2
S 3	22 33 29	6°21'27	13° 1	27°44	19°37	22°43	17° 4	17° 6	5° 2	10°47	22°35	6° 6	5°43	22°39	n.a.	S 3
M 4	22 37 25	7°20'38	25°22	29°32	20°46	23°26	17°17	17°12	5° 0	10°48	22°34	6° 0	5°40	22°45	n.a.	M 4
T 5	22 41 22	8°19'51	7♒34	1♍20	21°54	24° 9	17°30	17°18	4°58	10°50	22°33	5°50	5°37	22°52	n.a.	T 5
W 6	22 45 18	9°19'07	19°39	3° 8	23° 3	24°52	17°43	17°24	4°55	10°51	22°32	5°38	5°34	22°59	n.a.	W 6
T 7	22 49 15	10°18'24	1♓38	4°55	24°12	25°34	17°56	17°30	4°53	10°52	22°31	5°25	5°30	23° 6	n.a.	T 7
F 8	22 53 11	11°17'44	13°33	6°42	25°20	26°17	18° 9	17°36	4°51	10°54	22°30	5°10	5°27	23°12	n.a.	F 8
S 9	22 57 8	12°17'05	25°26	8°28	26°28	27° 0	18°22	17°42	4°49	10°55	22°28	4°56	5°24	23°19	n.a.	S 9
S 10	23 1 4	13°16'29	7♈17	10°14	27°37	27°43	18°35	17°49	4°47	10°56	22°27	4°44	5°21	23°26	n.a.	S 10
M11	23 5 1	14°15'55	19° 9	11°59	28°45	28°27	18°48	17°55	4°44	10°58	22°26	4°34	5°18	23°32	n.a.	M11
T 12	23 8 58	15°15'24	1♉ 4	13°43	29°53	29°10	19° 1	18° 1	4°42	10°59	22°25	4°27	5°14	23°39	n.a.	T 12
W13	23 12 54	16°14'55	13° 4	15°27	1♏ 0	29°53	19°14	18° 7	4°40	11° 1	22°24	4°23	5°11	23°46	n.a.	W13
T 14	23 16 51	17°14'28	25°15	17°10	2° 8	0♏37	19°27	18°14	4°38	11° 2	22°23	4°21	5° 8	23°53	n.a.	T 14
F 15	23 20 47	18°14'03	7♊40	18°53	3°16	1°20	19°41	18°20	4°35	11° 4	22°22	4°D21	5° 5	23°59	n.a.	F 15
S 16	23 24 44	19°13'41	20°24	20°34	4°23	2° 4	19°54	18°27	4°33	11° 5	22°21	4°R21	5° 2	24° 6	n.a.	S 16
S 17	23 28 40	20°13'22	3♋31	22°15	5°30	2°47	20° 7	18°33	4°30	11° 7	22°20	4°20	4°59	24°13	n.a.	S 17
M18	23 32 37	21°13'05	17° 7	23°56	6°37	3°31	20°20	18°40	4°28	11° 8	22°19	4°18	4°55	24°19	n.a.	M18
T 19	23 36 33	22°12'50	1♌12	25°36	7°44	4°15	20°33	18°46	4°26	11°10	22°18	4°13	4°52	24°26	n.a.	T 19
W20	23 40 30	23°12'37	15°45	27°15	8°51	4°58	20°46	18°53	4°23	11°12	22°16	4° 5	4°49	24°33	n.a.	W20
T 21	23 44 27	24°12'27	0♍44	28°53	9°58	5°42	20°59	18°59	4°21	11°13	22°15	3°56	4°46	24°40	n.a.	T 21
F 22	23 48 23	25°12'19	15°59	0♎31	11° 4	6°26	21°12	19° 6	4°18	11°15	22°14	3°45	4°43	24°46	n.a.	F 22
S 23	23 52 20	26°12'13	1♎19	2° 8	12°11	7°10	21°25	19°13	4°16	11°17	22°13	3°35	4°40	24°53	n.a.	S 23
S 24	23 56 16	27°12'09	16°34	3°45	13°17	7°54	21°39	19°19	4°14	11°18	22°13	3°27	4°36	25° 0	n.a.	S 24
M25	0 0 13	28°12'07	1♏33	5°21	14°23	8°39	21°52	19°26	4°11	11°20	22°12	3°20	4°33	25° 6	n.a.	M25
T 26	0 4 9	29°12'06	16° 7	6°57	15°29	9°23	22° 5	19°33	4° 9	11°22	22°11	3°17	4°30	25°13	n.a.	T 26
W27	0 8 6	0♎12'08	0♐13	8°32	16°34	10° 7	22°18	19°40	4° 6	11°24	22°10	3°D16	4°27	25°20	n.a.	W27
T 28	0 12 2	1°12'12	13°51	10° 6	17°40	10°52	22°31	19°47	4° 4	11°26	22° 9	3°16	4°24	25°27	n.a.	T 28
F 29	0 15 59	2°12'17	27° 3	11°40	18°45	11°36	22°44	19°53	4° 1	11°27	22° 8	3°R17	4°20	25°33	n.a.	F 29
S 30	0 19 56	3♎12'23	9♑51	13♎14	19♏50	12♏21	22♍57	20♎ 0	3♈59	11♏29	22♒ 7	3♐17	4♐17	25♓40	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	10n 1	22s 8	1n 0	15n24	1n53	7s59	1s13	8s49	0s27	6n27	1n12	4s36	2n18	1n25	0s42	13s32	1n46	28s48	15s38	21s35	21s31	1n29		n.a.
S 2	9 39	21 38	2 4	14 47	1 52	8 30	1 17	9 6	0 28	6 22	1 12	4 38	2 18	1 24	0 42	13 33	1 46	28 48	15 38	21 35	21 31	1 31		n.a.
S 3	9 17	20 4	3 1	14 9	1 52	9 0	1 21	9 22	0 28	6 16	1 12	4 41	2 18	1 23	0 42	13 33	1 46	28 49	15 37	21 34	21 30	1 34		n.a.
M 4	8 55	17 34	3 48	13 29	1 50	9 30	1 25	9 39	0 29	6 11	1 12	4 43	2 17	1 22	0 42	13 34	1 46	28 49	15 37	21 33	21 30	1 36		n.a.
T 5	8 32	14 20	4 24	12 49	1 48	10 0	1 29	9 56	0 30	6 6	1 12	4 45	2 17	1 21	0 42	13 34	1 46	28 49	15 37	21 32	21 29	1 39		n.a.
W 6	8 10	10 32	4 48	12 7	1 46	10 30	1 33	10 12	0 30	6 1	1 12	4 48	2 17	1 20	0 42	13 35	1 46	28 50	15 37	21 30	21 29	1 41		n.a.
T 7	7 47	6 22	4 59	11 25	1 43	10 59	1 37	10 29	0 31	5 56	1 12	4 50	2 17	1 19	0 42	13 35	1 46	28 50	15 37	21 27	21 28	1 44		n.a.
F 8	7 25	1 59	4 56	10 42	1 40	11 29	1 41	10 45	0 32	5 51	1 12	4 53	2 17	1 19	0 42	13 35	1 46	28 50	15 37	21 24	21 28	1 46		n.a.
S 9	7 2	2n27	4 41	9 58	1 36	11 58	1 45	11 2	0 32	5 45	1 12	4 55	2 17	1 18	0 42	13 36	1 46	28 51	15 37	21 22	21 27	1 48		n.a.
S 10	6 39	6 48	4 13	9 14	1 32	12 27	1 49	11 18	0 33	5 40	1 12	4 58	2 17	1 17	0 42	13 36	1 46	28 51	15 37	21 20	21 26	1 51		n.a.
M11	6 16	10 53	3 35	8 29	1 27	12 55	1 54	11 34	0 34	5 35	1 12	5 0	2 16	1 16	0 42	13 37	1 46	28 51	15 37	21 18	21 26	1 53		n.a.
T 12	5 52	14 34	2 46	7 44	1 22	13 23	1 58	11 50	0 34	5 30	1 12	5 3	2 16	1 15	0 42	13 37	1 46	28 51	15 37	21 16	21 25	1 56		n.a.
W13	5 29	17 41	1 50	6 59	1 17	13 51	2 2	12 6	0 35	5 25	1 12	5 5	2 16	1 14	0 42	13 38	1 45	28 52	15 36	21 16	21 25	1 58		n.a.
T 14	5 6	20 4	0 48	6 14	1 12	14 19	2 6	12 22	0 36	5 19	1 12	5 8	2 16	1 13	0 42	13 38	1 45	28 52	15 36	21 15	21 24	2 0		n.a.
F 15	4 42	21 33	0s18	5 28	1 7	14 46	2 9	12 38	0 36	5 14	1 12	5 11	2 16	1 12	0 42	13 39	1 45	28 52	15 36	21 15	21 24	2 3		n.a.
S 16	4 19	21 58	1 24	4 43	1 1	15 13	2 13	12 54	0 37	5 9	1 12	5 13	2 16	1 11	0 42	13 40	1 45	28 52	15 36	21 15	21 23	2 5		n.a.
S 17	3 55	21 12	2 28	3 57	0 55	15 40	2 17	13 10	0 38	5 4	1 12	5 16	2 16	1 10	0 42	13 40	1 45	28 53	15 36	21 15	21 22	2 8		n.a.
M18	3 31	19 12	3 26	3 11	0 49	16 6	2 21	13 26	0 38	4 59	1 12	5 18	2 16	1 9	0 42	13 41	1 45	28 53	15 36	21 15	21 22	2 10		n.a.
T 19	3 7	16 0	4 14	2 26	0 43	16 32	2 25	13 41	0 39	4 53	1 12	5 21	2 16	1 8	0 42	13 41	1 45	28 53	15 36	21 14	21 21	2 13		n.a.
W20	2 44	11 44	4 47	1 40	0 37	16 57	2 29	13 57	0 40	4 48	1 12	5 24	2 15	1 7	0 42	13 42	1 45	28 53	15 35	21 12	21 21	2 15		n.a.
T 21	2 20	6 38	5 2	0 55	0 30	17 23	2 32	14 12	0 40	4 43	1 12	5 26	2 15	1 6	0 42	13 42	1 45	28 53	15 35	21 11	21 20	2 17		n.a.
F 22	1 56	1 4	4 55	0 9	0 24	17 47	2 36	14 28	0 41	4 38	1 12	5 29	2 15	1 5	0 42	13 43	1 45	28 54	15 35	21 9	21 19	2 20		n.a.
S 23	1 32	4s37	4 28	0s36	0 17	18 12	2 40	14 43	0 41	4 33	1 12	5 31	2 15	1 4	0 42	13 43	1 45	28 54	15 35	21 7	21 19	2 22		n.a.
S 24	1 7	9 59	3 42	1 21	0 11	18 36	2 43	14 58	0 42	4 27	1 12	5 34	2 15	1 3	0 42	13 44	1 45	28 54	15 35	21 5	21 18	2 25		n.a.
M25	0 43	14 39	2 40	2 5	0 4	18 59	2 47	15 13	0 43	4 22	1 12	5 37	2 15	1 2	0 42	13 45	1 45	28 54	15 35	21 4	21 18	2 27		n.a.
T 26	0 19	18 17	1 30	2 50	0s 3	19 22	2 50	15 28	0 43	4 17	1 12	5 39	2 15	1 2	0 42	13 45	1 45	28 54	15 34	21 3	21 17	2 29		n.a.
W27	0s 5	20 42	0 16	3 34	0 9	19 45	2 53	15 43	0 44	4 12	1 12	5 42	2 15	1 1	0 42	13 46	1 45	28 54	15 34	21 3	21 16	2 32		n.a.
T 28	0 29	21 48	0n56	4 17	0 16	20 7	2 57	15 57	0 44	4 7	1 12	5 45	2 15	1 0	0 42	13 46	1 45	28 55	15 34	21 3	21 16	2 34		n.a.
F 29	0 53	21 37	2 3	5 1	0 23	20 29	3 0	16 12	0 45	4 1	1 12	5 47	2 15	0 59	0 42	13 47	1 45	28 55	15 34	21 3	21 15	2 37		n.a.
S 30	1s17	20s19	3n 2	5s44	0s29	20s50	3s 3	16s26	0s45	3n56	1n12	5s50	2n14	0n58	0s42	13s48	1n45	28s55	15s34	21s 3	21s15	2n39		n.a.

Julian Day Number = 1660669.5, Delta T = 03h25m55s
Ecliptic obliquity = 23°42'52, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'50, Lahiri = - 6°14'50 Julian Calendar 1 Sept. 167 BCE == Greg. Calendar 29 Aug. 167 BCE

The year -166 astronomical counting style corresponds to year 167 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 167 BCE
geocentric

OCTOBER 167 BCE (-166) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 23 52	4♎12'32	22♉21	14♎47	20♏54	13♏ 5	23♍10	20♎ 7	3°R56	11♏31	22°R 6	3°R15	4♐14	25♓47	n.a.	S 1
M 2	0 27 49	5°12'42	4♒36	16°19	21°59	13°50	23°23	20°14	3♈54	11°33	22♒ 5	3♐11	4°11	25°53	n.a.	M 2
T 3	0 31 45	6°12'53	16°41	17°51	23° 3	14°35	23°36	20°21	3°51	11°35	22° 4	3° 4	4° 8	26° 0	n.a.	T 3
W 4	0 35 42	7°13'07	28°39	19°23	24° 7	15°19	23°49	20°28	3°49	11°37	22° 4	2°55	4° 5	26° 7	n.a.	W 4
T 5	0 39 38	8°13'22	10♓33	20°54	25°11	16° 4	24° 2	20°35	3°46	11°39	22° 3	2°45	4° 1	26°14	n.a.	T 5
F 6	0 43 35	9°13'39	22°25	22°25	26°14	16°49	24°15	20°42	3°44	11°41	22° 2	2°34	3°58	26°20	n.a.	F 6
S 7	0 47 31	10°13'57	4♈17	23°55	27°17	17°34	24°28	20°49	3°42	11°43	22° 1	2°23	3°55	26°27	n.a.	S 7
S 8	0 51 28	11°14'17	16°11	25°25	28°20	18°19	24°40	20°56	3°39	11°45	22° 1	2°14	3°52	26°34	n.a.	S 8
M 9	0 55 24	12°14'40	28° 8	26°54	29°23	19° 4	24°53	21° 3	3°37	11°47	22° 0	2° 7	3°49	26°40	n.a.	M 9
T 10	0 59 21	13°15'04	10♉ 9	28°23	0♐25	19°49	25° 6	21°10	3°34	11°49	21°59	2° 2	3°46	26°47	n.a.	T 10
W11	1 3 18	14°15'30	22°18	29°52	1°27	20°34	25°19	21°17	3°32	11°51	21°58	1°59	3°42	26°54	n.a.	W11
T 12	1 7 14	15°15'58	4♊35	1♏20	2°29	21°20	25°32	21°24	3°29	11°53	21°58	1°D59	3°39	27° 1	n.a.	T 12
F 13	1 11 11	16°16'27	17° 5	2°47	3°30	22° 5	25°44	21°31	3°27	11°55	21°57	2° 0	3°36	27° 7	n.a.	F 13
S 14	1 15 7	17°16'59	29°51	4°14	4°31	22°50	25°57	21°38	3°25	11°57	21°57	2° 1	3°33	27°14	n.a.	S 14
S 15	1 19 4	18°17'33	12♋56	5°41	5°32	23°36	26°10	21°45	3°22	11°59	21°56	2°R 2	3°30	27°21	n.a.	S 15
M16	1 23 0	19°18'09	26°24	7° 6	6°32	24°21	26°22	21°52	3°20	12° 1	21°55	2° 2	3°26	27°27	n.a.	M16
T 17	1 26 57	20°18'46	10♌17	8°31	7°32	25° 7	26°35	21°59	3°18	12° 3	21°55	2° 0	3°23	27°34	n.a.	T 17
W18	1 30 53	21°19'26	24°36	9°56	8°31	25°52	26°47	22° 6	3°15	12° 6	21°54	1°57	3°20	27°41	n.a.	W18
T 19	1 34 50	22°20'07	9♍17	11°19	9°30	26°38	27° 0	22°13	3°13	12° 8	21°54	1°52	3°17	27°48	n.a.	T 19
F 20	1 38 47	23°20'50	24°17	12°42	10°28	27°24	27°12	22°20	3°11	12°10	21°53	1°46	3°14	27°54	n.a.	F 20
S 21	1 42 43	24°21'34	9♎26	14° 3	11°27	28°10	27°25	22°28	3° 8	12°12	21°53	1°40	3°11	28° 1	n.a.	S 21
S 22	1 46 40	25°22'20	24°34	15°24	12°24	28°55	27°37	22°35	3° 6	12°14	21°52	1°35	3° 7	28° 8	n.a.	S 22
M23	1 50 36	26°23'08	9♏33	16°43	13°21	29°41	27°49	22°42	3° 4	12°16	21°52	1°31	3° 4	28°14	n.a.	M23
T 24	1 54 33	27°23'57	24°12	18° 0	14°18	0♐27	28° 2	22°49	3° 2	12°19	21°52	1°30	3° 1	28°21	n.a.	T 24
W25	1 58 29	28°24'47	8♐27	19°16	15°14	1°13	28°14	22°56	3° 0	12°21	21°51	1°D30	2°58	28°28	n.a.	W25
T 26	2 2 26	29°25'39	22°14	20°30	16°10	1°59	28°26	23° 3	2°57	12°23	21°51	1°31	2°55	28°34	n.a.	T 26
F 27	2 6 22	0♏26'32	5♉35	21°41	17° 5	2°45	28°38	23°10	2°55	12°25	21°50	1°32	2°51	28°41	n.a.	F 27
S 28	2 10 19	1°27'25	18°30	22°50	17°59	3°31	28°50	23°17	2°53	12°27	21°50	1°34	2°48	28°48	n.a.	S 28
S 29	2 14 16	2°28'20	1♒ 3	23°57	18°53	4°17	29° 2	23°24	2°51	12°30	21°50	1°R35	2°45	28°55	n.a.	S 29
M30	2 18 12	3°29'15	13°20	24°59	19°46	5° 4	29°14	23°31	2°49	12°32	21°50	1°34	2°42	29° 1	n.a.	M30
T 31	2 22 9	4♏30'11	25♒23	25♏58	20♐38	5♐50	29♍26	23♎38	2♈47	12♏34	21♒49	1♐32	2♐39	29♓ 8	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	1s41	18s 2	3n51	6s26	0s36	21s11	3s 6	16s41	0s46	3n51	1n12	5s53	2n14	0n57	0s42	13s48	1n45	28s55	15s33	21s 3	21s14	2n41			n.a.
M 2	2 6	14 59	4 28	7 9	0 43	21 31	3 9	16 55	0 46	3 46	1 12	5 56	2 14	0 56	0 42	13 49	1 45	28 55	15 33	21 2	21 14	2 44			n.a.
T 3	2 30	11 22	4 53	7 50	0 49	21 50	3 12	17 9	0 47	3 41	1 12	5 58	2 14	0 55	0 42	13 49	1 45	28 55	15 33	21 1	21 13	2 46			n.a.
W 4	2 54	7 20	5 4	8 32	0 56	22 10	3 15	17 22	0 48	3 35	1 13	6 1	2 14	0 54	0 42	13 50	1 45	28 55	15 33	20 59	21 12	2 48			n.a.
T 5	3 18	3 3	5 2	9 12	1 2	22 28	3 18	17 36	0 48	3 30	1 13	6 4	2 14	0 53	0 42	13 51	1 45	28 55	15 32	20 57	21 12	2 51			n.a.
F 6	3 42	1n21	4 47	9 53	1 8	22 46	3 20	17 50	0 49	3 25	1 13	6 6	2 14	0 52	0 42	13 51	1 44	28 55	15 32	20 55	21 11	2 53			n.a.
S 7	4 6	5 41	4 20	10 32	1 15	23 4	3 23	18 3	0 49	3 20	1 13	6 9	2 14	0 51	0 42	13 52	1 44	28 55	15 32	20 53	21 11	2 56			n.a.
S 8	4 30	9 49	3 41	11 11	1 21	23 21	3 25	18 16	0 50	3 15	1 13	6 12	2 14	0 50	0 42	13 53	1 44	28 55	15 32	20 51	21 10	2 58			n.a.
M 9	4 54	13 36	2 52	11 50	1 27	23 37	3 27	18 30	0 50	3 10	1 13	6 14	2 14	0 49	0 42	13 53	1 44	28 55	15 31	20 49	21 9	3 0			n.a.
T 10	5 17	16 51	1 55	12 28	1 33	23 53	3 30	18 42	0 51	3 5	1 13	6 17	2 14	0 48	0 42	13 54	1 44	28 55	15 31	20 48	21 9	3 3			n.a.
W11	5 41	19 23	0 52	13 5	1 38	24 8	3 32	18 55	0 51	3 0	1 13	6 20	2 14	0 47	0 42	13 55	1 44	28 55	15 31	20 48	21 8	3 5			n.a.
T 12	6 5	21 4	0s14	13 41	1 44	24 23	3 34	19 8	0 52	2 55	1 13	6 22	2 14	0 46	0 42	13 55	1 44	28 55	15 31	20 48	21 7	3 8			n.a.
F 13	6 28	21 44	1 21	14 17	1 49	24 37	3 35	19 20	0 52	2 50	1 13	6 25	2 14	0 45	0 42	13 56	1 44	28 55	15 30	20 48	21 7	3 10			n.a.
S 14	6 52	21 18	2 25	14 52	1 54	24 50	3 37	19 32	0 53	2 45	1 13	6 28	2 14	0 44	0 42	13 57	1 44	28 55	15 30	20 48	21 6	3 12			n.a.
S 15	7 15	19 42	3 23	15 26	1 59	25 3	3 39	19 45	0 53	2 40	1 13	6 30	2 14	0 43	0 42	13 57	1 44	28 55	15 30	20 48	21 6	3 15			n.a.
M16	7 38	16 59	4 12	15 59	2 4	25 16	3 40	19 56	0 54	2 35	1 13	6 33	2 14	0 42	0 42	13 58	1 44	28 55	15 29	20 48	21 5	3 17			n.a.
T 17	8 2	13 14	4 48	16 31	2 8	25 27	3 41	20 8	0 54	2 30	1 13	6 36	2 14	0 41	0 42	13 59	1 44	28 55	15 29	20 48	21 4	3 19			n.a.
W18	8 25	8 39	5 8	17 3	2 12	25 38	3 43	20 20	0 54	2 25	1 13	6 39	2 14	0 40	0 42	13 59	1 44	28 55	15 29	20 47	21 4	3 22			n.a.
T 19	8 47	3 26	5 8	17 33	2 16	25 49	3 44	20 31	0 55	2 20	1 13	6 41	2 14	0 39	0 42	14 0	1 44	28 55	15 29	20 46	21 3	3 24			n.a.
F 20	9 10	2s 5	4 47	18 2	2 19	25 58	3 44	20 42	0 55	2 15	1 13	6 44	2 14	0 38	0 42	14 1	1 44	28 55	15 28	20 45	21 3	3 26			n.a.
S 21	9 33	7 32	4 6	18 30	2 23	26 8	3 45	20 53	0 56	2 10	1 14	6 47	2 14	0 38	0 42	14 1	1 44	28 55	15 28	20 44	21 2	3 29			n.a.
S 22	9 55	12 32	3 8	18 57	2 25	26 16	3 46	21 4	0 56	2 5	1 14	6 49	2 13	0 37	0 42	14 2	1 44	28 54	15 28	20 43	21 1	3 31			n.a.
M23	10 18	16 41	1 57	19 22	2 27	26 24	3 46	21 14	0 57	2 0	1 14	6 52	2 13	0 36	0 42	14 3	1 44	28 54	15 27	20 42	21 1	3 33			n.a.
T 24	10 40	19 41	0 40	19 47	2 29	26 31	3 46	21 24	0 57	1 55	1 14	6 54	2 13	0 35	0 42	14 4	1 44	28 54	15 27	20 42	21 0	3 36			n.a.
W25	11 2	21 20	0n38	20 9	2 31	26 38	3 46	21 34	0 57	1 50	1 14	6 57	2 13	0 34	0 42	14 4	1 44	28 54	15 27	20 42	20 59	3 38			n.a.
T 26	11 24	21 38	1 51	20 30	2 31	26 44	3 46	21 44	0 58	1 45	1 14	7 0	2 13	0 33	0 42	14 5	1 44	28 54	15 26	20 42	20 59	3 41			n.a.
F 27	11 45	20 40	2 56	20 50	2 31	26 49	3 46	21 54	0 58	1 41	1 14	7 2	2 13	0 32	0 42	14 6	1 44	28 54	15 26	20 42	20 58	3 43			n.a.
S 28	12 7	18 38	3 49	21 7	2 31	26 54	3 45	22 3	0 58	1 36	1 14	7 5	2 13	0 32	0 42	14 6	1 44	28 53	15 26	20 43	20 58	3 45			n.a.
S 29	12 28	15 45	4 30	21 23	2 30	26 58	3 44	22 13	0 59	1 31	1 14	7 8	2 14	0 31	0 42	14 7	1 44	28 53	15 26	20 43	20 57	3 48			n.a.
M30	12 49	12 15	4 58	21 37	2 28	27 1	3 43	22 21	0 59	1 26	1 14	7 10	2 14	0 30	0 41	14 8	1 44	28 53	15 25	20 43	20 56	3 50			n.a.
T 31	13s10	8s19	5n12	21s49	2s25	27s 4	3s42	22s30	1s 0	1n22	1n14	7s13	2n14	0n29	0s41	14s 8	1n44	28s53	15s25	20s42	20s56	3n52			n.a.

Julian Day Number = 1660699.5, Delta T = 03h25m54s
Ecliptic obliquity = 23°42'52, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'46, Lahiri = - 6°14'46 Julian Calendar 1 Oct. 167 BCE == Greg. Calendar 28 Sept. 167 BCE

The year -166 astronomical counting style corresponds to year 167 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 167 BCE
geocentric

NOVEMBER 167 BCE (-166) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	2 26 5	5♏31'09	7♓19	26♏53	21♐30	6♐36	29♍38	23♎45	2°R45	12♏36	21°R49	1°R29	2♐36	29♓15	n.a.	W 1
T 2	2 30 2	6°32'07	19°11	27°43	22°21	7°22	29°50	23°52	2♈43	12°39	21♒49	1♐25	2°32	29°21	n.a.	T 2
F 3	2 33 58	7°33'06	1♈ 2	28°27	23°11	8° 9	0♎ 1	23°59	2°41	12°41	21°49	1°21	2°29	29°28	n.a.	F 3
S 4	2 37 55	8°34'06	12°56	29° 5	24° 0	8°55	0°13	24° 6	2°39	12°43	21°49	1°17	2°26	29°35	n.a.	S 4
S 5	2 41 51	9°35'06	24°54	29°35	24°49	9°42	0°25	24°13	2°37	12°45	21°49	1°13	2°23	29°42	n.a.	S 5
M 6	2 45 48	10°36'08	6♉59	29°58	25°36	10°28	0°36	24°20	2°36	12°48	21°49	1°10	2°20	29°48	n.a.	M 6
T 7	2 49 45	11°37'11	19°12	0♐12	26°23	11°15	0°48	24°27	2°34	12°50	21°48	1° 9	2°17	29°55	n.a.	T 7
W 8	2 53 41	12°38'15	1♊35	0°R16	27° 9	12° 1	0°59	24°33	2°32	12°52	21°48	1°D 8	2°13	0♈ 2	n.a.	W 8
T 9	2 57 38	13°39'20	14° 8	0°10	27°54	12°48	1°10	24°40	2°30	12°55	21°D48	1° 9	2°10	0° 8	n.a.	T 9
F 10	3 1 34	14°40'25	26°54	29♏53	28°37	13°34	1°21	24°47	2°29	12°57	21°48	1°10	2° 7	0°15	n.a.	F 10
S 11	3 5 31	15°41'32	9♋53	29°25	29°20	14°21	1°33	24°54	2°27	12°59	21°48	1°11	2° 4	0°22	n.a.	S 11
S 12	3 9 27	16°42'40	23° 6	28°45	0♌ 2	15° 8	1°44	25° 1	2°26	13° 1	21°48	1°13	2° 1	0°29	n.a.	S 12
M13	3 13 24	17°43'49	6♌37	27°53	0°42	15°54	1°55	25° 7	2°24	13° 4	21°49	1°13	1°57	0°35	n.a.	M13
T 14	3 17 20	18°44'58	20°24	26°52	1°21	16°41	2° 6	25°14	2°23	13° 6	21°49	1°R14	1°54	0°42	n.a.	T 14
W15	3 21 17	19°46'09	4♍30	25°42	1°59	17°28	2°16	25°21	2°21	13° 8	21°49	1°13	1°51	0°49	n.a.	W15
T 16	3 25 14	20°47'21	18°51	24°25	2°36	18°15	2°27	25°27	2°20	13°10	21°49	1°12	1°48	0°55	n.a.	T 16
F 17	3 29 10	21°48'33	3♎25	23° 4	3°12	19° 2	2°38	25°34	2°18	13°13	21°49	1°11	1°45	1° 2	n.a.	F 17
S 18	3 33 7	22°49'46	18° 8	21°42	3°46	19°49	2°48	25°40	2°17	13°15	21°49	1°10	1°42	1° 9	n.a.	S 18
S 19	3 37 3	23°51'00	2♏54	20°20	4°18	20°35	2°59	25°47	2°16	13°17	21°50	1° 9	1°38	1°15	n.a.	S 19
M20	3 41 0	24°52'15	17°34	19° 2	4°49	21°22	3° 9	25°54	2°14	13°19	21°50	1° 9	1°35	1°22	n.a.	M20
T 21	3 44 56	25°53'30	2♐ 2	17°51	5°18	22° 9	3°19	26° 0	2°13	13°22	21°50	1°D 9	1°32	1°29	n.a.	T 21
W22	3 48 53	26°54'45	16°12	16°47	5°46	22°56	3°30	26° 6	2°12	13°24	21°50	1° 9	1°29	1°36	n.a.	W22
T 23	3 52 49	27°56'01	0♑ 1	15°53	6°12	23°43	3°40	26°13	2°11	13°26	21°51	1° 9	1°26	1°42	n.a.	T 23
F 24	3 56 46	28°57'17	13°26	15° 9	6°36	24°31	3°50	26°19	2°10	13°28	21°51	1° 9	1°23	1°49	n.a.	F 24
S 25	4 0 43	29°58'33	26°27	14°37	6°59	25°18	4° 0	26°25	2° 9	13°30	21°51	1°10	1°19	1°56	n.a.	S 25
S 26	4 4 39	0♐59'49	9♒ 6	14°14	7°19	26° 5	4° 9	26°32	2° 8	13°33	21°52	1°R10	1°16	2° 2	n.a.	S 26
M27	4 8 36	2° 1'04	21°27	14° 3	7°38	26°52	4°19	26°38	2° 7	13°35	21°52	1°10	1°13	2° 9	n.a.	M27
T 28	4 12 32	3° 2'20	3♓33	14°D 1	7°54	27°39	4°29	26°44	2° 6	13°37	21°53	1°D10	1°10	2°16	n.a.	T 28
W29	4 16 29	4° 3'35	15°30	14° 8	8° 9	28°26	4°38	26°50	2° 5	13°39	21°53	1°10	1° 7	2°23	n.a.	W29
T 30	4 20 25	5♐ 4'50	27♓21	14♏24	8♑21	29♐13	4♎48	26♎56	2♈ 5	13♏41	21♒54	1♐10	1♐ 3	2♈29	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	13s31	4s 6	5n12	21s58	2s21	27s 6	3s41	22s39	1s 0	1n17	1n15	7s15	2n14	0n28	0s41	14s 9	1n44	28s53	15s25	20s42	20s55	3n55		n.a.
T 2	13 51	0n15	4 59	22 5	2 16	27 8	3 39	22 47	1 0	1 13	1 15	7 18	2 14	0 28	0 41	14 10	1 44	28 52	15 24	20 41	20 54	3 57		n.a.
F 3	14 11	4 35	4 33	22 9	2 10	27 9	3 37	22 55	1 1	1 8	1 15	7 20	2 14	0 27	0 41	14 10	1 44	28 52	15 24	20 40	20 54	3 59		n.a.
S 4	14 31	8 46	3 55	22 11	2 3	27 10	3 35	23 3	1 1	1 3	1 15	7 23	2 14	0 26	0 41	14 11	1 44	28 52	15 24	20 39	20 53	4 2		n.a.
S 5	14 51	12 38	3 7	22 9	1 54	27 9	3 33	23 10	1 1	0 59	1 15	7 25	2 14	0 25	0 41	14 12	1 44	28 52	15 23	20 38	20 53	4 4		n.a.
M 6	15 10	16 2	2 9	22 5	1 45	27 9	3 30	23 17	1 2	0 54	1 15	7 28	2 14	0 25	0 41	14 13	1 44	28 51	15 23	20 38	20 52	4 6		n.a.
T 7	15 30	18 46	1 5	21 57	1 33	27 7	3 28	23 24	1 2	0 50	1 15	7 31	2 14	0 24	0 41	14 13	1 44	28 51	15 23	20 38	20 51	4 8		n.a.
W 8	15 48	20 40	0s 2	21 45	1 21	27 5	3 24	23 31	1 2	0 45	1 15	7 33	2 14	0 23	0 41	14 14	1 44	28 51	15 22	20 37	20 51	4 11		n.a.
T 9	16 7	21 35	1 11	21 30	1 7	27 3	3 21	23 38	1 2	0 41	1 15	7 35	2 14	0 23	0 41	14 15	1 44	28 50	15 22	20 38	20 50	4 13		n.a.
F 10	16 25	21 23	2 18	21 11	0 51	27 0	3 18	23 44	1 3	0 36	1 16	7 38	2 14	0 22	0 41	14 15	1 44	28 50	15 22	20 38	20 49	4 15		n.a.
S 11	16 44	20 3	3 18	20 48	0 34	26 56	3 14	23 50	1 3	0 32	1 16	7 40	2 14	0 21	0 41	14 16	1 44	28 50	15 21	20 38	20 49	4 18		n.a.
S 12	17 1	17 37	4 10	20 22	0 15	26 52	3 9	23 55	1 3	0 28	1 16	7 43	2 14	0 21	0 41	14 17	1 44	28 50	15 21	20 38	20 48	4 20		n.a.
M13	17 19	14 11	4 48	19 51	0n 4	26 48	3 5	24 1	1 4	0 24	1 16	7 45	2 14	0 20	0 41	14 17	1 44	28 49	15 21	20 38	20 47	4 22		n.a.
T 14	17 36	9 56	5 11	19 17	0 24	26 43	3 0	24 6	1 4	0 19	1 16	7 48	2 14	0 20	0 41	14 18	1 44	28 49	15 20	20 39	20 47	4 25		n.a.
W15	17 53	5 4	5 16	18 41	0 45	26 37	2 55	24 11	1 4	0 15	1 16	7 50	2 14	0 19	0 41	14 19	1 44	28 48	15 20	20 38	20 46	4 27		n.a.
T 16	18 9	0s10	5 2	18 3	1 5	26 31	2 50	24 15	1 4	0 11	1 16	7 52	2 14	0 19	0 41	14 19	1 44	28 48	15 20	20 38	20 46	4 29		n.a.
F 17	18 26	5 28	4 28	17 23	1 25	26 24	2 44	24 20	1 5	0 7	1 17	7 55	2 14	0 18	0 41	14 20	1 44	28 48	15 19	20 38	20 45	4 32		n.a.
S 18	18 41	10 31	3 37	16 44	1 43	26 17	2 38	24 24	1 5	0 3	1 17	7 57	2 14	0 18	0 41	14 21	1 44	28 47	15 19	20 38	20 44	4 34		n.a.
S 19	18 57	14 58	2 30	16 6	2 0	26 10	2 31	24 27	1 5	0s 1	1 17	7 59	2 14	0 17	0 41	14 21	1 44	28 47	15 19	20 38	20 44	4 36		n.a.
M20	19 12	18 28	1 15	15 31	2 15	26 2	2 24	24 31	1 5	0 6	1 17	8 2	2 14	0 17	0 41	14 22	1 44	28 47	15 18	20 37	20 43	4 38		n.a.
T 21	19 27	20 44	0n 5	14 59	2 28	25 54	2 17	24 34	1 5	0 10	1 17	8 4	2 15	0 16	0 41	14 23	1 44	28 46	15 18	20 37	20 42	4 41		n.a.
W22	19 41	21 37	1 23	14 31	2 39	25 45	2 10	24 37	1 6	0 13	1 17	8 6	2 15	0 16	0 41	14 23	1 44	28 46	15 18	20 37	20 42	4 43		n.a.
T 23	19 56	21 9	2 34	14 7	2 47	25 36	2 2	24 40	1 6	0 17	1 17	8 9	2 15	0 15	0 41	14 24	1 44	28 45	15 17	20 38	20 41	4 45		n.a.
F 24	20 9	19 29	3 34	13 49	2 53	25 26	1 54	24 42	1 6	0 21	1 18	8 11	2 15	0 15	0 41	14 25	1 44	28 45	15 17	20 38	20 40	4 48		n.a.
S 25	20 23	16 50	4 21	13 35	2 57	25 16	1 45	24 44	1 6	0 25	1 18	8 13	2 15	0 15	0 41	14 25	1 44	28 44	15 17	20 38	20 40	4 50		n.a.
S 26	20 36	13 27	4 54	13 27	2 59	25 6	1 36	24 46	1 6	0 29	1 18	8 15	2 15	0 14	0 41	14 26	1 44	28 44	15 16	20 38	20 39	4 52		n.a.
M27	20 48	9 35	5 13	13 23	3 0	24 56	1 26	24 47	1 7	0 33	1 18	8 17	2 15	0 14	0 41	14 27	1 44	28 44	15 16	20 38	20 38	4 55		n.a.
T 28	21 0	5 24	5 17	13 23	2 58	24 45	1 16	24 48	1 7	0 36	1 18	8 19	2 15	0 14	0 41	14 27	1 44	28 43	15 16	20 38	20 38	4 57		n.a.
W29	21 12	1 4	5 8	13 28	2 56	24 33	1 6	24 49	1 7	0 40	1 18	8 22	2 15	0 13	0 41	14 28	1 44	28 43	15 15	20 38	20 37	4 59		n.a.
T 30	21s23	3n17	4n45	13s36	2n52	24s22	0s55	24s50	1s 7	0s43	1n19	8s24	2n15	0n13	0s41	14s29	1n44	28s42	15s15	20s38	20s36	5n 1		n.a.

Julian Day Number = 1660730.5, Delta T = 03h25m53s
Ecliptic obliquity = 23°42'51, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'42, Lahiri = - 6°14'42 Julian Calendar 1 Nov. 167 BCE == Greg. Calendar 29 Oct. 167 BCE

The year -166 astronomical counting style corresponds to year 167 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 167 BCE
geocentric

DECEMBER 167 BCE (-166) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	4 24 22	6♐ 6'05	9♈13	14♏48	8♑31	0♑ 1	4♎57	27♎ 2	2°R 4	13♏43	21♒54	1♐11	1♐ 0	2♈36	n.a.	F 1
S 2	4 28 18	7° 7'20	21° 8	15°18	8°38	0°48	5° 6	27° 8	2♈ 3	13°45	21°55	1°11	0°57	2°43	n.a.	S 2
S 3	4 32 15	8° 8'35	3♉10	15°55	8°43	1°35	5°15	27°14	2° 3	13°48	21°55	1°12	0°54	2°49	n.a.	S 3
M 4	4 36 12	9° 9'49	15°23	16°37	8°46	2°22	5°24	27°20	2° 2	13°50	21°56	1°13	0°51	2°56	n.a.	M 4
T 5	4 40 8	10°11'03	27°49	17°25	8°R47	3° 9	5°33	27°26	2° 2	13°52	21°57	1°R13	0°48	3° 3	n.a.	T 5
W 6	4 44 5	11°12'17	10♊29	18°17	8°44	3°57	5°41	27°32	2° 1	13°54	21°57	1°13	0°44	3° 9	n.a.	W 6
T 7	4 48 1	12°13'31	23°24	19°13	8°40	4°44	5°50	27°37	2° 1	13°56	21°58	1°12	0°41	3°16	n.a.	T 7
F 8	4 51 58	13°14'44	6♋33	20°12	8°33	5°31	5°58	27°43	2° 0	13°58	21°59	1°11	0°38	3°23	n.a.	F 8
S 9	4 55 54	14°15'58	19°56	21°15	8°23	6°19	6° 7	27°49	2° 0	14° 0	21°59	1° 9	0°35	3°30	n.a.	S 9
S 10	4 59 51	15°17'11	3♌31	22°20	8°11	7° 6	6°15	27°54	2° 0	14° 2	22° 0	1° 7	0°32	3°36	n.a.	S 10
M11	5 3 48	16°18'24	17°17	23°28	7°56	7°53	6°23	28° 0	2° 0	14° 4	22° 1	1° 5	0°29	3°43	n.a.	M11
T 12	5 7 44	17°19'36	1♍13	24°38	7°39	8°41	6°31	28° 5	1°59	14° 6	22° 1	1° 4	0°25	3°50	n.a.	T 12
W13	5 11 41	18°20'49	15°17	25°50	7°19	9°28	6°39	28°11	1°59	14° 8	22° 2	1°D 3	0°22	3°56	n.a.	W13
T 14	5 15 37	19°22'01	29°27	27° 4	6°57	10°15	6°46	28°16	1°D59	14°10	22° 3	1° 4	0°19	4° 3	n.a.	T 14
F 15	5 19 34	20°23'13	13♎41	28°20	6°33	11° 3	6°54	28°21	1°59	14°12	22° 4	1° 4	0°16	4°10	n.a.	F 15
S 16	5 23 30	21°24'25	27°57	29°37	6° 7	11°50	7° 1	28°26	1°59	14°14	22° 5	1° 6	0°13	4°16	n.a.	S 16
S 17	5 27 27	22°25'37	12♏12	0♐56	5°39	12°37	7° 9	28°31	1°59	14°16	22° 6	1° 7	0° 9	4°23	n.a.	S 17
M18	5 31 23	23°26'48	26°23	2°16	5° 9	13°25	7°16	28°36	2° 0	14°17	22° 7	1°R 8	0° 6	4°30	n.a.	M18
T 19	5 35 20	24°27'59	10♐26	3°37	4°37	14°12	7°23	28°41	2° 0	14°19	22° 7	1° 8	0° 3	4°37	n.a.	T 19
W20	5 39 17	25°29'09	24°17	4°59	4° 4	14°59	7°30	28°46	2° 0	14°21	22° 8	1° 6	29♏59	4°43	n.a.	W20
T 21	5 43 13	26°30'19	7♑53	6°22	3°30	15°47	7°36	28°51	2° 0	14°23	22° 9	1° 4	29°57	4°50	n.a.	T 21
F 22	5 47 10	27°31'27	21°11	7°46	2°54	16°34	7°43	28°56	2° 1	14°25	22°10	1° 0	29°54	4°57	n.a.	F 22
S 23	5 51 6	28°32'35	4♒10	9°11	2°18	17°22	7°49	29° 1	2° 1	14°27	22°11	0°55	29°50	5° 3	n.a.	S 23
S 24	5 55 3	29°33'41	16°50	10°37	1°41	18° 9	7°55	29° 5	2° 2	14°28	22°12	0°50	29°47	5°10	n.a.	S 24
M25	5 58 59	0♑34'46	29°13	12° 3	1° 4	18°56	8° 1	29°10	2° 2	14°30	22°13	0°46	29°44	5°17	n.a.	M25
T 26	6 2 56	1°35'50	11♓22	13°31	0°27	19°44	8° 7	29°14	2° 3	14°32	22°14	0°42	29°41	5°23	n.a.	T 26
W27	6 6 52	2°36'53	23°19	14°59	29♐50	20°31	8°13	29°19	2° 3	14°33	22°16	0°41	29°38	5°30	n.a.	W27
T 28	6 10 49	3°37'55	5♈11	16°28	29°14	21°18	8°19	29°23	2° 4	14°35	22°17	0°D40	29°35	5°37	n.a.	T 28
F 29	6 14 46	4°38'55	17° 2	17°57	28°38	22° 6	8°24	29°27	2° 5	14°37	22°18	0°41	29°31	5°44	n.a.	F 29
S 30	6 18 42	5°39'54	28°57	19°28	28° 4	22°53	8°29	29°31	2° 6	14°38	22°19	0°42	29°28	5°50	n.a.	S 30
S 31	6 22 39	6♑40'52	11♉ 0	20♐59	27♐30	23♑40	8♎35	29♎35	2♈ 6	14♏40	22♒20	0♐44	29♏25	5♈57	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21 s34	7n31	4n10	13 s47	2n48	24 s10	0 s44	24 s50	1 s 7	0 s47	1n19	8 s26	2n16	0n13	0 s40	14 s29	1n44	28 s42	15 s15	20 s38	20 s36	5n 4		n.a.
S 2	21 45	11 29	3 25	14 1	2 42	23 58	0 32	24 50	1 7	0 51	1 19	8 28	2 16	0 13	0 40	14 30	1 44	28 41	15 14	20 38	20 35	5 6		n.a.
S 3	21 55	15 3	2 29	14 18	2 36	23 46	0 20	24 50	1 7	0 54	1 19	8 30	2 16	0 12	0 40	14 30	1 44	28 41	15 14	20 38	20 34	5 8		n.a.
M 4	22 5	18 1	1 27	14 36	2 30	23 33	0 8	24 49	1 7	0 57	1 19	8 32	2 16	0 12	0 40	14 31	1 44	28 40	15 14	20 38	20 34	5 10		n.a.
T 5	22 14	20 12	0 19	14 57	2 23	23 20	0n 5	24 48	1 8	1 1	1 20	8 34	2 16	0 12	0 40	14 32	1 44	28 40	15 13	20 38	20 33	5 13		n.a.
W 6	22 23	21 26	0 s51	15 18	2 15	23 7	0 18	24 47	1 8	1 4	1 20	8 36	2 16	0 12	0 40	14 32	1 44	28 39	15 13	20 38	20 32	5 15		n.a.
T 7	22 31	21 33	2 0	15 41	2 7	22 54	0 31	24 45	1 8	1 7	1 20	8 38	2 16	0 12	0 40	14 33	1 44	28 39	15 13	20 38	20 32	5 17		n.a.
F 8	22 39	20 30	3 3	16 5	2 0	22 41	0 45	24 44	1 8	1 10	1 20	8 40	2 16	0 12	0 40	14 33	1 44	28 38	15 12	20 38	20 31	5 19		n.a.
S 9	22 46	18 17	3 58	16 29	1 51	22 27	1 0	24 41	1 8	1 14	1 20	8 42	2 17	0 11	0 40	14 34	1 44	28 38	15 12	20 38	20 30	5 22		n.a.
S 10	22 53	15 3	4 40	16 54	1 43	22 14	1 14	24 39	1 8	1 17	1 21	8 43	2 17	0 11	0 40	14 35	1 44	28 37	15 12	20 37	20 30	5 24		n.a.
M11	23 0	10 57	5 7	17 19	1 35	22 0	1 29	24 36	1 8	1 20	1 21	8 45	2 17	0 11	0 40	14 35	1 44	28 36	15 12	20 37	20 29	5 26		n.a.
T 12	23 6	6 15	5 16	17 45	1 26	21 46	1 44	24 33	1 8	1 23	1 21	8 47	2 17	0 11	0 40	14 36	1 44	28 36	15 11	20 36	20 28	5 28		n.a.
W13	23 12	1 10	5 6	18 11	1 18	21 32	1 59	24 30	1 8	1 26	1 21	8 49	2 17	0 11	0 40	14 36	1 44	28 35	15 11	20 36	20 28	5 31		n.a.
T 14	23 17	4 s 1	4 38	18 36	1 9	21 17	2 14	24 27	1 8	1 29	1 21	8 51	2 17	0 11	0 40	14 37	1 44	28 35	15 11	20 36	20 27	5 33		n.a.
F 15	23 22	9 1	3 53	19 2	1 1	21 3	2 30	24 23	1 8	1 31	1 22	8 52	2 17	0 11	0 40	14 37	1 44	28 34	15 10	20 37	20 26	5 35		n.a.
S 16	23 26	13 33	2 53	19 27	0 53	20 49	2 45	24 19	1 8	1 34	1 22	8 54	2 17	0 11	0 40	14 38	1 44	28 34	15 10	20 37	20 26	5 37		n.a.
S 17	23 30	17 18	1 43	19 51	0 44	20 35	3 1	24 14	1 8	1 37	1 22	8 56	2 18	0 12	0 40	14 39	1 44	28 33	15 10	20 37	20 25	5 40		n.a.
M18	23 33	19 59	0 26	20 16	0 36	20 21	3 16	24 10	1 8	1 39	1 22	8 57	2 18	0 12	0 40	14 39	1 44	28 33	15 10	20 37	20 24	5 42		n.a.
T 19	23 36	21 26	0n51	20 39	0 28	20 7	3 32	24 5	1 8	1 42	1 22	8 59	2 18	0 12	0 40	14 40	1 44	28 32	15 9	20 37	20 24	5 44		n.a.
W20	23 38	21 31	2 4	21 3	0 20	19 53	3 47	23 59	1 8	1 45	1 23	9 1	2 18	0 12	0 40	14 40	1 44	28 31	15 9	20 37	20 23	5 46		n.a.
T 21	23 40	20 21	3 8	21 25	0 12	19 39	4 1	23 54	1 8	1 47	1 23	9 2	2 18	0 12	0 40	14 41	1 44	28 31	15 9	20 36	20 22	5 49		n.a.
F 22	23 41	18 3	4 1	21 47	0 4	19 25	4 16	23 48	1 8	1 49	1 23	9 4	2 18	0 12	0 40	14 41	1 44	28 30	15 8	20 36	20 22	5 51		n.a.
S 23	23 42	14 54	4 40	22 8	0 s 3	19 12	4 30	23 42	1 8	1 52	1 23	9 5	2 19	0 12	0 40	14 42	1 45	28 30	15 8	20 35	20 21	5 53		n.a.
S 24	23 43	11 9	5 4	22 28	0 11	18 59	4 43	23 35	1 8	1 54	1 24	9 7	2 19	0 13	0 40	14 42	1 45	28 29	15 8	20 34	20 20	5 55		n.a.
M25	23 43	7 0	5 13	22 48	0 18	18 46	4 56	23 29	1 8	1 56	1 24	9 8	2 19	0 13	0 40	14 43	1 45	28 28	15 8	20 33	20 20	5 58		n.a.
T 26	23 42	2 39	5 8	23 6	0 25	18 34	5 9	23 22	1 8	1 58	1 24	9 10	2 19	0 13	0 40	14 43	1 45	28 28	15 7	20 32	20 19	6 0		n.a.
W27	23 41	1n44	4 49	23 23	0 32	18 22	5 21	23 15	1 8	2 1	1 24	9 11	2 19	0 13	0 39	14 43	1 45	28 27	15 7	20 32	20 18	6 2		n.a.
T 28	23 40	6 1	4 18	23 40	0 39	18 11	5 32	23 7	1 8	2 3	1 24	9 12	2 19	0 14	0 39	14 44	1 45	28 27	15 7	20 31	20 17	6 4		n.a.
F 29	23 38	10 5	3 36	23 55	0 46	18 0	5 42	22 59	1 8	2 4	1 25	9 14	2 20	0 14	0 39	14 44	1 45	28 26	15 7	20 32	20 17	6 6		n.a.
S 30	23 35	13 47	2 45	24 9	0 52	17 50	5 52	22 51	1 8	2 6	1 25	9 15	2 20	0 14	0 39	14 45	1 45	28 25	15 6	20 32	20 16	6 9		n.a.
S 31	23 s33	16n58	1n46	24 s22	0 s58	17 s41	6n 1	22 s43	1 s 8	2 s 8	1n25	9 s16	2n20	0n15	0 s39	14 s45	1n45	28 s25	15 s 6	20 s32	20 s15	6n11		n.a.

Julian Day Number = 1660760.5, Delta T = 03h25m52s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'38, Lahiri = - 6°14'37 Julian Calendar 1 Dec. 167 BCE == Greg. Calendar 28 Nov. 167 BCE

The year -166 astronomical counting style corresponds to year 167 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 166 BCE
geocentric

JANUARY 166 BCE (-165) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 26 35	7♑41'48	23♉18	22♐30	26°R58	24♑28	8♎40	29♎39	2♈ 7	14♏41	22♒21	0♐46	29♏22	6♈ 4	n.a.	M 1
T 2	6 30 32	8°42'43	5♊52	24° 3	26♐28	25°15	8°44	29°43	2° 8	14°43	22°22	0°R46	29°19	6°10	n.a.	T 2
W 3	6 34 28	9°43'36	18°45	25°36	25°59	26° 2	8°49	29°47	2° 9	14°44	22°24	0°44	29°15	6°17	n.a.	W 3
T 4	6 38 25	10°44'29	1♋59	27°10	25°32	26°50	8°53	29°51	2°10	14°46	22°25	0°41	29°12	6°24	n.a.	T 4
F 5	6 42 22	11°45'19	15°33	28°45	25° 8	27°37	8°58	29°54	2°11	14°47	22°26	0°35	29° 9	6°30	n.a.	F 5
S 6	6 46 18	12°46'09	29°24	0♑20	24°45	28°24	9° 2	29°58	2°13	14°49	22°27	0°29	29° 6	6°37	n.a.	S 6
S 7	6 50 15	13°46'57	13♌29	1°56	24°25	29°12	9° 6	0♏ 1	2°14	14°50	22°28	0°21	29° 3	6°44	n.a.	S 7
M 8	6 54 11	14°47'44	27°42	3°33	24° 7	29°59	9°10	0° 5	2°15	14°51	22°30	0°14	29° 0	6°51	n.a.	M 8
T 9	6 58 8	15°48'30	11♍59	5°10	23°52	0♒46	9°13	0° 8	2°16	14°53	22°31	0° 8	28°56	6°57	n.a.	T 9
W10	7 2 4	16°49'15	26°16	6°49	23°39	1°33	9°17	0°11	2°18	14°54	22°32	0° 4	28°53	7° 4	n.a.	W10
T 11	7 6 1	17°49'58	10♎29	8°28	23°29	2°20	9°20	0°15	2°19	14°55	22°34	0° 3	28°50	7°11	n.a.	T 11
F 12	7 9 57	18°50'41	24°36	10° 8	23°21	3° 8	9°23	0°18	2°20	14°57	22°35	0°D 2	28°47	7°17	n.a.	F 12
S 13	7 13 54	19°51'22	8♏36	11°49	23°15	3°55	9°26	0°21	2°22	14°58	22°36	0° 3	28°44	7°24	n.a.	S 13
S 14	7 17 51	20°52'02	22°28	13°30	23°13	4°42	9°29	0°23	2°23	14°59	22°38	0° 4	28°40	7°31	n.a.	S 14
M15	7 21 47	21°52'40	6♐12	15°13	23°D12	5°29	9°31	0°26	2°25	15° 0	22°39	0°R 4	28°37	7°37	n.a.	M15
T 16	7 25 44	22°53'18	19°47	16°56	23°14	6°16	9°34	0°29	2°27	15° 1	22°40	0° 3	28°34	7°44	n.a.	T 16
W17	7 29 40	23°53'54	3♑12	18°41	23°19	7° 3	9°36	0°31	2°28	15° 2	22°42	29♏58	28°31	7°51	n.a.	W17
T 18	7 33 37	24°54'28	16°26	20°26	23°25	7°50	9°38	0°34	2°30	15° 4	22°43	29°51	28°28	7°57	n.a.	T 18
F 19	7 37 33	25°55'01	29°27	22°12	23°34	8°37	9°39	0°36	2°32	15° 5	22°45	29°42	28°25	8° 4	n.a.	F 19
S 20	7 41 30	26°55'31	12♒14	23°59	23°46	9°24	9°41	0°39	2°34	15° 6	22°46	29°31	28°21	8°11	n.a.	S 20
S 21	7 45 26	27°56'00	24°47	25°47	23°59	10°11	9°42	0°41	2°35	15° 7	22°47	29°20	28°18	8°18	n.a.	S 21
M22	7 49 23	28°56'28	7♓ 6	27°36	24°14	10°58	9°44	0°43	2°37	15° 8	22°49	29°10	28°15	8°24	n.a.	M22
T 23	7 53 20	29°56'53	19°13	29°25	24°32	11°45	9°45	0°45	2°39	15° 8	22°50	29° 1	28°12	8°31	n.a.	T 23
W24	7 57 16	0♒57'16	1♈10	1♒16	24°51	12°32	9°46	0°47	2°41	15° 9	22°52	28°54	28° 9	8°38	n.a.	W24
T 25	8 1 13	1°57'37	13° 1	3° 7	25°12	13°19	9°46	0°49	2°43	15°10	22°53	28°49	28° 6	8°44	n.a.	T 25
F 26	8 5 9	2°57'56	24°50	4°59	25°35	14° 6	9°47	0°50	2°45	15°11	22°55	28°47	28° 2	8°51	n.a.	F 26
S 27	8 9 6	3°58'13	6♉43	6°52	26° 0	14°53	9°47	0°52	2°47	15°12	22°56	28°D47	27°59	8°58	n.a.	S 27
S 28	8 13 2	4°58'28	18°45	8°46	26°27	15°40	9°R47	0°54	2°50	15°13	22°58	28°47	27°56	9° 4	n.a.	S 28
M29	8 16 59	5°58'41	1♊ 1	10°40	26°55	16°26	9°47	0°55	2°52	15°13	22°59	28°R48	27°53	9°11	n.a.	M29
T 30	8 20 55	6°58'52	13°37	12°35	27°25	17°13	9°47	0°56	2°54	15°14	23° 1	28°47	27°50	9°18	n.a.	T 30
W31	8 24 52	7♒59'00	26♊36	14♒30	27♐56	18♒ 0	9♎46	0♏58	2♈56	15♏15	23♒ 2	28♏43	27♏46	9♈24	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	23s29	19n28	0n41	24s34	1s 4	17s32	6n 9	22s35	1s 7	2s10	1n25	9s18	2n20	0n15	0s39	14s46	1n45	28s24	15s 6	20s33	20s15	6n13		n.a.
T 2	23 25	21 5	0s28	24 45	1 10	17 24	6 16	22 26	1 7	2 12	1 26	9 19	2 20	0 16	0 39	14 46	1 45	28 24	15 6	20 33	20 14	6 15		n.a.
W 3	23 21	21 38	1 36	24 54	1 15	17 17	6 23	22 17	1 7	2 13	1 26	9 20	2 21	0 16	0 39	14 46	1 45	28 23	15 6	20 32	20 13	6 17		n.a.
T 4	23 16	21 1	2 41	25 2	1 21	17 10	6 29	22 8	1 7	2 15	1 26	9 21	2 21	0 17	0 39	14 47	1 45	28 22	15 5	20 32	20 13	6 20		n.a.
F 5	23 11	19 10	3 39	25 8	1 26	17 4	6 34	21 58	1 7	2 16	1 26	9 22	2 21	0 17	0 39	14 47	1 45	28 22	15 5	20 30	20 12	6 22		n.a.
S 6	23 6	16 12	4 25	25 13	1 30	16 59	6 38	21 48	1 7	2 18	1 27	9 23	2 21	0 18	0 39	14 48	1 45	28 21	15 5	20 29	20 11	6 24		n.a.
S 7	22 59	12 15	4 55	25 17	1 35	16 55	6 41	21 38	1 7	2 19	1 27	9 24	2 21	0 18	0 39	14 48	1 45	28 20	15 5	20 27	20 11	6 26		n.a.
M 8	22 53	7 35	5 8	25 19	1 39	16 51	6 44	21 28	1 7	2 20	1 27	9 25	2 22	0 19	0 39	14 48	1 45	28 20	15 5	20 26	20 10	6 28		n.a.
T 9	22 46	2 30	5 2	25 19	1 43	16 49	6 46	21 18	1 6	2 22	1 27	9 26	2 22	0 19	0 39	14 49	1 45	28 19	15 4	20 25	20 9	6 31		n.a.
W10	22 38	2s44	4 37	25 18	1 46	16 46	6 48	21 7	1 6	2 23	1 28	9 27	2 22	0 20	0 39	14 49	1 45	28 19	15 4	20 24	20 8	6 33		n.a.
T 11	22 31	7 48	3 55	25 16	1 50	16 45	6 48	20 56	1 6	2 24	1 28	9 28	2 22	0 20	0 39	14 49	1 45	28 18	15 4	20 24	20 8	6 35		n.a.
F 12	22 22	12 25	2 59	25 11	1 52	16 45	6 49	20 45	1 6	2 25	1 28	9 29	2 22	0 21	0 39	14 50	1 45	28 17	15 4	20 23	20 7	6 37		n.a.
S 13	22 14	16 19	1 53	25 5	1 55	16 45	6 48	20 34	1 6	2 26	1 28	9 30	2 23	0 22	0 39	14 50	1 45	28 17	15 4	20 24	20 6	6 39		n.a.
S 14	22 4	19 15	0 41	24 58	1 57	16 45	6 47	20 22	1 6	2 27	1 29	9 31	2 23	0 22	0 39	14 50	1 45	28 16	15 3	20 24	20 6	6 41		n.a.
M15	21 55	21 3	0n33	24 48	1 59	16 47	6 46	20 10	1 5	2 27	1 29	9 32	2 23	0 23	0 39	14 51	1 45	28 15	15 3	20 24	20 5	6 44		n.a.
T 16	21 45	21 35	1 44	24 37	2 0	16 49	6 44	19 58	1 5	2 28	1 29	9 32	2 23	0 24	0 39	14 51	1 46	28 15	15 3	20 24	20 4	6 46		n.a.
W17	21 34	20 52	2 48	24 24	2 1	16 51	6 42	19 46	1 5	2 29	1 29	9 33	2 23	0 24	0 39	14 51	1 46	28 14	15 3	20 23	20 3	6 48		n.a.
T 18	21 24	19 1	3 42	24 9	2 2	16 54	6 39	19 34	1 5	2 29	1 30	9 34	2 24	0 25	0 39	14 51	1 46	28 14	15 3	20 21	20 3	6 50		n.a.
F 19	21 12	16 12	4 23	23 52	2 2	16 58	6 36	19 21	1 5	2 30	1 30	9 34	2 24	0 26	0 39	14 52	1 46	28 13	15 3	20 19	20 2	6 52		n.a.
S 20	21 1	12 40	4 51	23 33	2 2	17 2	6 33	19 8	1 4	2 30	1 30	9 35	2 24	0 26	0 39	14 52	1 46	28 12	15 3	20 17	20 1	6 54		n.a.
S 21	20 49	8 39	5 3	23 13	2 1	17 6	6 29	18 55	1 4	2 30	1 30	9 36	2 24	0 27	0 39	14 52	1 46	28 12	15 2	20 14	20 1	6 57		n.a.
M22	20 36	4 21	5 1	22 50	2 0	17 11	6 25	18 42	1 4	2 31	1 31	9 36	2 24	0 28	0 39	14 52	1 46	28 11	15 2	20 12	20 0	6 59		n.a.
T 23	20 24	0n 3	4 46	22 26	1 58	17 16	6 20	18 29	1 4	2 31	1 31	9 37	2 25	0 29	0 38	14 53	1 46	28 11	15 2	20 10	19 59	7 1		n.a.
W24	20 11	4 24	4 18	21 59	1 56	17 21	6 16	18 15	1 3	2 31	1 31	9 37	2 25	0 30	0 38	14 53	1 46	28 10	15 2	20 9	19 58	7 3		n.a.
T 25	19 57	8 33	3 39	21 31	1 53	17 27	6 11	18 1	1 3	2 31	1 31	9 38	2 25	0 30	0 38	14 53	1 46	28 9	15 2	20 8	19 58	7 5		n.a.
F 26	19 43	12 22	2 51	21 0	1 50	17 33	6 6	17 47	1 3	2 31	1 32	9 38	2 25	0 31	0 38	14 53	1 46	28 9	15 2	20 7	19 57	7 7		n.a.
S 27	19 29	15 43	1 55	20 28	1 46	17 39	6 1	17 33	1 3	2 31	1 32	9 38	2 25	0 32	0 38	14 53	1 46	28 8	15 2	20 7	19 56	7 9		n.a.
S 28	19 14	18 27	0 53	19 54	1 41	17 45	5 55	17 19	1 2	2 31	1 32	9 39	2 26	0 33	0 38	14 54	1 46	28 7	15 2	20 7	19 56	7 12		n.a.
M29	19 0	20 24	0s12	19 18	1 36	17 51	5 49	17 4	1 2	2 30	1 32	9 39	2 26	0 34	0 38	14 54	1 46	28 7	15 2	20 7	19 55	7 14		n.a.
T 30	18 44	21 24	1 18	18 40	1 30	17 58	5 44	16 50	1 2	2 30	1 33	9 39	2 26	0 35	0 38	14 54	1 46	28 6	15 2	20 7	19 54	7 16		n.a.
W31	18s29	21n18	2s22	18s 0	1s24	18s 4	5n38	16s35	1s 1	2s30	1n33	9s39	2n26	0n36	0s38	14s54	1n46	28s 6	15s 2	20s 6	19s53	7n18		n.a.

Julian Day Number = 1660791.5, Delta T = 03h25m51s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'34, Lahiri = - 6°14'33 Julian Calendar 1 Jan. 166 BCE == Greg. Calendar 29 Dec. 167 BCE

The year -165 astronomical counting style corresponds to year 166 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 166 BCE
geocentric

FEBRUARY 166 BCE (-165) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 28 49	8♒59'07	10♋ 0	16♒25	28♐29	18♒46	9°R46	0♏59	2♈59	15♏15	23♒ 4	28°R38	27♏43	9♈31	n.a.	T 1
F 2	8 32 45	9°59'11	23°50	18°20	29° 3	19°33	9♎45	1° 0	3° 1	15°16	23° 5	28♏29	27°40	9°38	n.a.	F 2
S 3	8 36 42	10°59'13	8♌ 4	20°15	29°38	20°20	9°44	1° 1	3° 3	15°16	23° 7	28°19	27°37	9°45	n.a.	S 3
S 4	8 40 38	11°59'13	22°35	22°10	0♑15	21° 6	9°43	1° 2	3° 6	15°17	23° 8	28° 8	27°34	9°51	n.a.	S 4
M 5	8 44 35	12°59'11	7♍17	24° 3	0°53	21°53	9°41	1° 2	3° 8	15°17	23°10	27°56	27°31	9°58	n.a.	M 5
T 6	8 48 31	13°59'08	22° 2	25°56	1°32	22°39	9°40	1° 3	3°11	15°18	23°11	27°47	27°27	10° 5	n.a.	T 6
W 7	8 52 28	14°59'02	6♎42	27°47	2°13	23°26	9°38	1° 3	3°13	15°18	23°13	27°40	27°24	10°11	n.a.	W 7
T 8	8 56 24	15°58'55	21°11	29°37	2°54	24°12	9°36	1° 4	3°16	15°19	23°14	27°35	27°21	10°18	n.a.	T 8
F 9	9 0 21	16°58'46	5♏25	1♓23	3°37	24°59	9°34	1° 4	3°18	15°19	23°16	27°34	27°18	10°25	n.a.	F 9
S 10	9 4 17	17°58'35	19°24	3° 8	4°20	25°45	9°31	1° 4	3°21	15°19	23°17	27°33	27°15	10°31	n.a.	S 10
S 11	9 8 14	18°58'23	3♐ 7	4°49	5° 5	26°31	9°29	1° 5	3°24	15°20	23°19	27°33	27°12	10°38	n.a.	S 11
M12	9 12 11	19°58'08	16°35	6°26	5°50	27°18	9°26	1°R 5	3°26	15°20	23°21	27°32	27° 8	10°45	n.a.	M12
T 13	9 16 7	20°57'52	29°50	7°58	6°36	28° 4	9°23	1° 4	3°29	15°20	23°22	27°29	27° 5	10°51	n.a.	T 13
W14	9 20 4	21°57'34	12♑52	9°26	7°24	28°50	9°20	1° 4	3°32	15°20	23°24	27°23	27° 2	10°58	n.a.	W14
T 15	9 24 0	22°57'14	25°44	10°49	8°12	29°36	9°17	1° 4	3°34	15°20	23°25	27°14	26°59	11° 5	n.a.	T 15
F 16	9 27 57	23°56'53	8♒25	12° 6	9° 1	0♓22	9°14	1° 4	3°37	15°21	23°27	27° 2	26°56	11°11	n.a.	F 16
S 17	9 31 53	24°56'29	20°56	13°17	9°50	1° 9	9°10	1° 3	3°40	15°21	23°28	26°49	26°52	11°18	n.a.	S 17
S 18	9 35 50	25°56'02	3♓16	14°21	10°40	1°55	9° 6	1° 3	3°43	15°21	23°30	26°34	26°49	11°25	n.a.	S 18
M19	9 39 46	26°55'34	15°26	15°19	11°31	2°41	9° 2	1° 2	3°46	15°R21	23°31	26°20	26°46	11°32	n.a.	M19
T 20	9 43 43	27°55'04	27°26	16° 9	12°23	3°27	8°58	1° 1	3°49	15°21	23°33	26° 8	26°43	11°38	n.a.	T 20
W21	9 47 40	28°54'31	9♈20	16°52	13°15	4°13	8°54	1° 0	3°52	15°21	23°34	25°59	26°40	11°45	n.a.	W21
T 22	9 51 36	29°53'56	21° 9	17°27	14° 8	4°59	8°50	0°59	3°55	15°21	23°36	25°52	26°37	11°52	n.a.	T 22
F 23	9 55 33	0♓53'18	2♉57	17°55	15° 2	5°44	8°45	0°58	3°58	15°20	23°38	25°48	26°33	11°58	n.a.	F 23
S 24	9 59 29	1°52'38	14°48	18°14	15°56	6°30	8°40	0°57	4° 1	15°20	23°39	25°46	26°30	12° 5	n.a.	S 24
S 25	10 3 26	2°51'56	26°48	18°26	16°51	7°16	8°35	0°56	4° 4	15°20	23°41	25°46	26°27	12°12	n.a.	S 25
M26	10 7 22	3°51'12	9♊ 2	18°R31	17°46	8° 2	8°30	0°55	4° 7	15°20	23°42	25°46	26°24	12°18	n.a.	M26
T 27	10 11 19	4°50'25	21°34	18°27	18°41	8°47	8°25	0°53	4°10	15°20	23°44	25°45	26°21	12°25	n.a.	T 27
W28	10 15 15	5♓49'36	4♋31	18♓17	19♑38	9♓33	8♎20	0♏52	4♈13	15♏19	23♒45	25♏42	26♏18	12♈32	n.a.	W28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s13	20n 0	3s20	17s19	1s17	18s11	5n32	16s20	1s 1	2s29	1n33	9s40	2n27	0n37	0s38	14s54	1n46	28s 5	15s 1	20s 5	19s53	7n20		n.a.
F 2	17 57	17 30	4 9	16 36	1 9	18 17	5 26	16 5	1 1	2 29	1 33	9 40	2 27	0 38	0 38	14 54	1 46	28 4	15 1	20 3	19 52	7 22		n.a.
S 3	17 40	13 54	4 43	15 51	1 1	18 24	5 19	15 50	1 0	2 28	1 34	9 40	2 27	0 39	0 38	14 54	1 46	28 4	15 1	20 1	19 51	7 24		n.a.
S 4	17 24	9 25	5 0	15 6	0 52	18 30	5 13	15 35	1 0	2 27	1 34	9 40	2 27	0 40	0 38	14 54	1 47	28 3	15 1	19 58	19 51	7 27		n.a.
M 5	17 7	4 20	4 57	14 19	0 42	18 36	5 7	15 19	1 0	2 27	1 34	9 40	2 27	0 41	0 38	14 55	1 47	28 3	15 1	19 56	19 50	7 29		n.a.
T 6	16 49	1s 1	4 35	13 31	0 32	18 42	5 0	15 3	1 0	2 26	1 34	9 40	2 28	0 42	0 38	14 55	1 47	28 2	15 1	19 54	19 49	7 31		n.a.
W 7	16 32	6 16	3 55	12 42	0 21	18 48	4 53	14 48	0 59	2 25	1 34	9 40	2 28	0 43	0 38	14 55	1 47	28 2	15 1	19 52	19 48	7 33		n.a.
T 8	16 14	11 8	3 0	11 53	0 9	18 54	4 47	14 32	0 59	2 24	1 35	9 40	2 28	0 44	0 38	14 55	1 47	28 1	15 1	19 51	19 48	7 35		n.a.
F 9	15 56	15 16	1 54	11 4	0n 3	19 0	4 40	14 16	0 58	2 23	1 35	9 40	2 28	0 45	0 38	14 55	1 47	28 0	15 1	19 50	19 47	7 37		n.a.
S 10	15 37	18 28	0 43	10 14	0 15	19 5	4 33	14 0	0 58	2 22	1 35	9 40	2 29	0 46	0 38	14 55	1 47	28 0	15 1	19 50	19 46	7 39		n.a.
S 11	15 18	20 32	0n29	9 25	0 28	19 10	4 27	13 43	0 58	2 20	1 35	9 40	2 29	0 47	0 38	14 55	1 47	27 59	15 1	19 50	19 45	7 41		n.a.
M12	14 59	21 23	1 39	8 37	0 41	19 15	4 20	13 27	0 57	2 19	1 36	9 39	2 29	0 48	0 38	14 55	1 47	27 59	15 1	19 50	19 45	7 43		n.a.
T 13	14 40	21 1	2 42	7 50	0 55	19 20	4 13	13 10	0 57	2 18	1 36	9 39	2 29	0 49	0 38	14 55	1 47	27 58	15 1	19 49	19 44	7 46		n.a.
W14	14 21	19 31	3 35	7 4	1 8	19 24	4 6	12 54	0 57	2 16	1 36	9 39	2 29	0 50	0 38	14 55	1 47	27 58	15 1	19 48	19 43	7 48		n.a.
T 15	14 1	17 2	4 16	6 20	1 22	19 28	3 59	12 37	0 56	2 15	1 36	9 39	2 30	0 52	0 38	14 55	1 47	27 57	15 1	19 46	19 42	7 50		n.a.
F 16	13 41	13 47	4 44	5 38	1 36	19 32	3 53	12 20	0 56	2 13	1 36	9 38	2 30	0 53	0 38	14 55	1 47	27 57	15 1	19 43	19 42	7 52		n.a.
S 17	13 21	9 59	4 58	4 58	1 49	19 36	3 46	12 3	0 56	2 12	1 37	9 38	2 30	0 54	0 38	14 55	1 47	27 56	15 1	19 40	19 41	7 54		n.a.
S 18	13 1	5 48	4 58	4 21	2 2	19 39	3 39	11 46	0 55	2 10	1 37	9 38	2 30	0 55	0 38	14 55	1 47	27 56	15 1	19 37	19 40	7 56		n.a.
M19	12 41	1 27	4 44	3 47	2 15	19 41	3 32	11 29	0 55	2 8	1 37	9 37	2 30	0 56	0 38	14 55	1 47	27 55	15 1	19 33	19 39	7 58		n.a.
T 20	12 20	2n54	4 17	3 16	2 27	19 43	3 25	11 12	0 54	2 6	1 37	9 37	2 31	0 57	0 38	14 55	1 47	27 55	15 1	19 31	19 39	8 0		n.a.
W21	11 59	7 5	3 39	2 48	2 39	19 45	3 18	10 55	0 54	2 5	1 37	9 36	2 31	0 59	0 38	14 55	1 47	27 54	15 1	19 28	19 38	8 2		n.a.
T 22	11 38	11 0	2 52	2 25	2 50	19 47	3 12	10 37	0 54	2 3	1 38	9 36	2 31	1 0	0 38	14 55	1 48	27 54	15 1	19 27	19 37	8 4		n.a.
F 23	11 17	14 28	1 58	2 5	3 0	19 48	3 5	10 20	0 53	2 1	1 38	9 35	2 31	1 1	0 38	14 54	1 48	27 53	15 1	19 26	19 36	8 6		n.a.
S 24	10 56	17 23	0 58	1 49	3 9	19 48	2 58	10 2	0 53	1 59	1 38	9 34	2 31	1 2	0 38	14 54	1 48	27 53	15 1	19 25	19 36	8 8		n.a.
S 25	10 34	19 35	0s 5	1 37	3 17	19 48	2 52	9 45	0 52	1 57	1 38	9 34	2 32	1 4	0 38	14 54	1 48	27 52	15 2	19 25	19 35	8 11		n.a.
M26	10 12	20 55	1 10	1 29	3 23	19 48	2 45	9 27	0 52	1 54	1 38	9 33	2 32	1 5	0 38	14 54	1 48	27 52	15 2	19 25	19 34	8 13		n.a.
T 27	9 51	21 15	2 12	1 25	3 29	19 47	2 38	9 10	0 51	1 52	1 39	9 32	2 32	1 6	0 38	14 54	1 48	27 51	15 2	19 25	19 33	8 15		n.a.
W28	9s29	20n28	3s10	1s26	3n32	19s46	2n32	8s52	0s51	1s50	1n39	9s32	2n32	1n 7	0s37	14s54	1n48	27s51	15s 2	19s24	19s33	8n17		n.a.

Julian Day Number = 1660822.5, Delta T = 03h25m50s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'29, Lahiri = - 6°14'29 Julian Calendar 1 Feb. 166 BCE == Greg. Calendar 29 Jan. 166 BCE

The year -165 astronomical counting style corresponds to year 166 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 166 BCE
geocentric

MARCH 166 BCE (-165) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 19 12	6♓48'44	17♋56	18°R 0	20♑34	10♓19	8°R14	0°R50	4♈16	15°R19	23♒47	25°R37	26♏14	12♈38	n.a.	T 1
F 2	10 23 9	7°47'50	1♌50	17♓36	21°31	11° 4	8♎ 9	0♏48	4°19	15♏19	23°48	25♏29	26°11	12°45	n.a.	F 2
S 3	10 27 5	8°46'53	16°12	17° 6	22°29	11°50	8° 3	0°46	4°22	15°18	23°50	25°19	26° 8	12°52	n.a.	S 3
S 4	10 31 2	9°45'54	0♍57	16°32	23°27	12°35	7°57	0°44	4°26	15°18	23°51	25° 8	26° 5	12°58	n.a.	S 4
M 5	10 34 58	10°44'53	15°58	15°53	24°25	13°21	7°51	0°42	4°29	15°17	23°53	24°58	26° 2	13° 5	n.a.	M 5
T 6	10 38 55	11°43'50	1♎ 5	15°11	25°24	14° 6	7°45	0°40	4°32	15°17	23°54	24°48	25°58	13°12	n.a.	T 6
W 7	10 42 51	12°42'45	16° 8	14°25	26°23	14°51	7°39	0°38	4°35	15°16	23°56	24°41	25°55	13°18	n.a.	W 7
T 8	10 46 48	13°41'38	0♏58	13°39	27°23	15°36	7°33	0°36	4°39	15°16	23°57	24°37	25°52	13°25	n.a.	T 8
F 9	10 50 44	14°40'29	15°29	12°51	28°23	16°22	7°26	0°34	4°42	15°15	23°59	24°35	25°49	13°32	n.a.	F 9
S 10	10 54 41	15°39'19	29°38	12° 4	29°23	17° 7	7°20	0°31	4°45	15°15	24° 0	24°D35	25°46	13°38	n.a.	S 10
S 11	10 58 37	16°38'06	13♐25	11°18	0♒24	17°52	7°13	0°29	4°48	15°14	24° 2	24°R35	25°43	13°45	n.a.	S 11
M12	11 2 34	17°36'52	26°50	10°33	1°25	18°37	7° 6	0°26	4°52	15°14	24° 3	24°35	25°39	13°52	n.a.	M12
T 13	11 6 31	18°35'36	9♑57	9°51	2°26	19°22	6°59	0°24	4°55	15°13	24° 5	24°33	25°36	13°59	n.a.	T 13
W14	11 10 27	19°34'18	22°47	9°13	3°28	20° 7	6°52	0°21	4°58	15°12	24° 6	24°28	25°33	14° 5	n.a.	W14
T 15	11 14 24	20°32'59	5♒24	8°38	4°29	20°52	6°45	0°18	5° 2	15°11	24° 7	24°21	25°30	14°12	n.a.	T 15
F 16	11 18 20	21°31'37	17°49	8° 8	5°32	21°37	6°38	0°15	5° 5	15°11	24° 9	24°12	25°27	14°19	n.a.	F 16
S 17	11 22 17	22°30'14	0♓ 4	7°42	6°34	22°22	6°31	0°12	5° 9	15°10	24°10	24° 1	25°23	14°25	n.a.	S 17
S 18	11 26 13	23°28'49	12°11	7°21	7°37	23° 6	6°24	0° 9	5°12	15° 9	24°12	23°49	25°20	14°32	n.a.	S 18
M19	11 30 10	24°27'21	24°11	7° 5	8°40	23°51	6°17	0° 6	5°15	15° 8	24°13	23°38	25°17	14°39	n.a.	M19
T 20	11 34 6	25°25'52	6♈ 5	6°54	9°43	24°36	6° 9	0° 3	5°19	15° 7	24°14	23°28	25°14	14°45	n.a.	T 20
W21	11 38 3	26°24'21	17°55	6°48	10°46	25°21	6° 2	29♎59	5°22	15° 6	24°16	23°20	25°11	14°52	n.a.	W21
T 22	11 41 59	27°22'47	29°43	6°D48	11°50	26° 5	5°54	29°56	5°26	15° 5	24°17	23°15	25° 8	14°59	n.a.	T 22
F 23	11 45 56	28°21'12	11♉32	6°52	12°54	26°50	5°47	29°53	5°29	15° 5	24°18	23°12	25° 4	15° 5	n.a.	F 23
S 24	11 49 53	29°19'34	23°24	7° 1	13°58	27°34	5°39	29°49	5°32	15° 4	24°20	23°D11	25° 1	15°12	n.a.	S 24
S 25	11 53 49	0♈17'54	5♊24	7°16	15° 2	28°19	5°32	29°46	5°36	15° 3	24°21	23°12	24°58	15°19	n.a.	S 25
M26	11 57 46	1°16'13	17°37	7°35	16° 6	29° 3	5°24	29°42	5°39	15° 1	24°22	23°13	24°55	15°25	n.a.	M26
T 27	12 1 42	2°14'29	0♋ 8	7°58	17°11	29°47	5°16	29°39	5°43	15° 0	24°24	23°R14	24°52	15°32	n.a.	T 27
W28	12 5 39	3°12'43	13° 1	8°26	18°16	0♈32	5° 9	29°35	5°46	14°59	24°25	23°13	24°49	15°39	n.a.	W28
T 29	12 9 35	4°10'54	26°20	8°58	19°21	1°16	5° 1	29°31	5°50	14°58	24°26	23°11	24°45	15°45	n.a.	T 29
F 30	12 13 32	5° 9'04	10♌ 9	9°34	20°26	2° 0	4°53	29°27	5°53	14°57	24°27	23° 7	24°42	15°52	n.a.	F 30
S 31	12 17 28	6♈ 7'11	24♌26	10♓14	21♒32	2♈44	4♎46	29♎24	5♈56	14♏56	24♒29	23♏ 1	24♏39	15♈59	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	9s 7	18n33	3s59	1s31	3n35	19s44	2n25	8s34	0s51	1s48	1n39	9s31	2n32	1n 9	0s37	14s54	1n48	27s50	15s 2	19s23	19s32	8n19			n.a.
F 2	8 44	15 29	4 36	1 39	3 35	19 41	2 19	8 16	0 50	1 45	1 39	9 30	2 33	1 10	0 37	14 54	1 48	27 50	15 2	19 21	19 31	8 21			n.a.
S 3	8 22	11 26	4 58	1 52	3 34	19 39	2 12	7 58	0 50	1 43	1 39	9 29	2 33	1 11	0 37	14 53	1 48	27 49	15 2	19 19	19 30	8 23			n.a.
S 4	8 0	6 35	5 0	2 8	3 31	19 35	2 6	7 40	0 49	1 40	1 39	9 29	2 33	1 12	0 37	14 53	1 48	27 49	15 2	19 16	19 30	8 25			n.a.
M 5	7 37	1 16	4 42	2 27	3 27	19 31	1 59	7 22	0 49	1 38	1 39	9 28	2 33	1 14	0 37	14 53	1 48	27 48	15 2	19 14	19 29	8 27			n.a.
T 6	7 15	4s 9	4 4	2 49	3 21	19 27	1 53	7 4	0 48	1 35	1 40	9 27	2 33	1 15	0 37	14 53	1 48	27 48	15 2	19 11	19 28	8 29			n.a.
W 7	6 52	9 19	3 9	3 14	3 13	19 22	1 47	6 46	0 48	1 33	1 40	9 26	2 33	1 16	0 37	14 53	1 48	27 48	15 3	19 9	19 27	8 31			n.a.
T 8	6 29	13 51	2 2	3 41	3 4	19 17	1 41	6 28	0 47	1 30	1 40	9 25	2 34	1 18	0 37	14 53	1 48	27 47	15 3	19 8	19 27	8 33			n.a.
F 9	6 6	17 26	0 48	4 9	2 53	19 11	1 34	6 10	0 47	1 27	1 40	9 24	2 34	1 19	0 37	14 52	1 48	27 47	15 3	19 8	19 26	8 35			n.a.
S 10	5 43	19 52	0n27	4 38	2 41	19 4	1 28	5 51	0 46	1 25	1 40	9 23	2 34	1 20	0 37	14 52	1 48	27 46	15 3	19 8	19 25	8 37			n.a.
S 11	5 20	21 3	1 38	5 8	2 28	18 57	1 22	5 33	0 46	1 22	1 40	9 22	2 34	1 22	0 37	14 52	1 48	27 46	15 3	19 8	19 24	8 39			n.a.
M12	4 57	20 58	2 43	5 38	2 14	18 50	1 16	5 15	0 45	1 19	1 40	9 21	2 34	1 23	0 37	14 52	1 48	27 46	15 3	19 8	19 24	8 41			n.a.
T 13	4 34	19 44	3 37	6 8	1 59	18 42	1 11	4 57	0 45	1 16	1 40	9 20	2 34	1 24	0 37	14 51	1 49	27 45	15 3	19 7	19 23	8 43			n.a.
W14	4 10	17 31	4 19	6 37	1 43	18 33	1 5	4 38	0 44	1 14	1 40	9 19	2 35	1 26	0 37	14 51	1 49	27 45	15 4	19 6	19 22	8 45			n.a.
T 15	3 47	14 30	4 47	7 4	1 27	18 24	0 59	4 20	0 44	1 11	1 40	9 18	2 35	1 27	0 37	14 51	1 49	27 45	15 4	19 5	19 21	8 47			n.a.
F 16	3 24	10 53	5 2	7 31	1 11	18 15	0 53	4 2	0 43	1 8	1 41	9 16	2 35	1 28	0 37	14 51	1 49	27 44	15 4	19 2	19 21	8 49			n.a.
S 17	3 0	6 52	5 2	7 55	0 55	18 4	0 48	3 43	0 43	1 5	1 41	9 15	2 35	1 30	0 37	14 50	1 49	27 44	15 4	19 0	19 20	8 51			n.a.
S 18	2 37	2 38	4 48	8 18	0 39	17 54	0 42	3 25	0 42	1 2	1 41	9 14	2 35	1 31	0 37	14 50	1 49	27 44	15 4	18 57	19 19	8 53			n.a.
M19	2 14	1n40	4 22	8 39	0 24	17 43	0 37	3 6	0 42	0 59	1 41	9 13	2 35	1 33	0 37	14 50	1 49	27 43	15 4	18 54	19 18	8 55			n.a.
T 20	1 50	5 52	3 45	8 57	0 8	17 31	0 31	2 48	0 41	0 56	1 41	9 12	2 35	1 34	0 37	14 49	1 49	27 43	15 5	18 51	19 17	8 57			n.a.
W21	1 27	9 50	2 57	9 13	0s 7	17 19	0 26	2 30	0 41	0 53	1 41	9 10	2 36	1 35	0 37	14 49	1 49	27 43	15 5	18 49	19 17	8 59			n.a.
T 22	1 3	13 25	2 3	9 27	0 22	17 6	0 21	2 11	0 40	0 50	1 41	9 9	2 36	1 37	0 37	14 49	1 49	27 42	15 5	18 48	19 16	9 1			n.a.
F 23	0 40	16 27	1 2	9 39	0 36	16 53	0 16	1 53	0 40	0 47	1 41	9 8	2 36	1 38	0 37	14 49	1 49	27 42	15 5	18 47	19 15	9 3			n.a.
S 24	0 16	18 49	0s 1	9 47	0 49	16 39	0 11	1 35	0 39	0 44	1 41	9 6	2 36	1 39	0 37	14 48	1 49	27 42	15 5	18 47	19 14	9 5			n.a.
S 25	0n 7	20 23	1 5	9 54	1 2	16 25	0 6	1 16	0 39	0 41	1 41	9 5	2 36	1 41	0 37	14 48	1 49	27 42	15 6	18 47	19 14	9 7			n.a.
M26	0 31	21 1	2 8	9 58	1 14	16 10	0 1	0 58	0 38	0 38	1 41	9 4	2 36	1 42	0 37	14 48	1 49	27 41	15 6	18 47	19 13	9 9			n.a.
T 27	0 54	20 37	3 6	10 0	1 26	15 55	0s 4	0 40	0 38	0 35	1 41	9 2	2 36	1 44	0 37	14 47	1 49	27 41	15 6	18 48	19 12	9 11			n.a.
W28	1 17	19 9	3 56	9 59	1 36	15 40	0 8	0 21	0 37	0 32	1 41	9 1	2 36	1 45	0 37	14 47	1 49	27 41	15 6	18 47	19 11	9 13			n.a.
T 29	1 41	16 37	4 35	9 56	1 46	15 24	0 13	0 3	0 37	0 29	1 41	9 0	2 36	1 46	0 37	14 46	1 49	27 41	15 7	18 47	19 10	9 15			n.a.
F 30	2 4	13 5	5 1	9 51	1 56	15 7	0 17	0n15	0 36	0 26	1 41	8 58	2 37	1 48	0 37	14 46	1 49	27 40	15 7	18 46	19 10	9 17			n.a.
S 31	2n27	8n41	5s 8	9s44	2s 4	14s50	0s22	0n33	0s36	0s23	1n41	8s57	2n37	1n49	0s37	14s46	1n49	27s40	15s 7	18s44	19s 9	9n19			n.a.

Julian Day Number = 1660850.5, Delta T = 03h25m49s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'26, Lahiri = - 6°14'25 Julian Calendar 1 March 166 BCE == Greg. Calendar 26 Feb. 166 BCE

The year -165 astronomical counting style corresponds to year 166 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 166 BCE
geocentric

APRIL 166 BCE (-165) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 21 25	7♈ 5'17	9♍10	10♓57	22♒37	3♈28	4°R38	29°R20	6♈ 0	14°R55	24♒30	22°R54	24♏36	16♈ 5	n.a.	S 1
M 2	12 25 22	8° 3'20	24°13	11°44	23°43	4°12	4♎31	29♎16	6° 3	14♏54	24°31	22♏48	24°33	16°12	n.a.	M 2
T 3	12 29 18	9° 1'22	9♎28	12°35	24°49	4°56	4°23	29°12	6° 7	14°52	24°32	22°42	24°29	16°19	n.a.	T 3
W 4	12 33 15	9°59'22	24°43	13°29	25°55	5°40	4°15	29° 8	6°10	14°51	24°33	22°37	24°26	16°25	n.a.	W 4
T 5	12 37 11	10°57'20	9♏48	14°26	27° 1	6°24	4° 8	29° 4	6°14	14°50	24°34	22°35	24°23	16°32	n.a.	T 5
F 6	12 41 8	11°55'17	24°35	15°26	28° 7	7° 8	4° 0	28°59	6°17	14°49	24°36	22°D34	24°20	16°39	n.a.	F 6
S 7	12 45 4	12°53'12	8♐59	16°28	29°14	7°51	3°53	28°55	6°21	14°47	24°37	22°35	24°17	16°45	n.a.	S 7
S 8	12 49 1	13°51'06	22°56	17°34	0♓20	8°35	3°45	28°51	6°24	14°46	24°38	22°37	24°14	16°52	n.a.	S 8
M 9	12 52 57	14°48'59	6♑28	18°43	1°27	9°19	3°38	28°47	6°27	14°45	24°39	22°38	24°10	16°59	n.a.	M 9
T 10	12 56 54	15°46'50	19°37	19°54	2°34	10° 2	3°30	28°43	6°31	14°43	24°40	22°R38	24° 7	17° 5	n.a.	T 10
W11	13 0 51	16°44'40	2♒24	21° 7	3°41	10°46	3°23	28°38	6°34	14°42	24°41	22°37	24° 4	17°12	n.a.	W11
T 12	13 4 47	17°42'29	14°54	22°24	4°48	11°29	3°16	28°34	6°38	14°41	24°42	22°34	24° 1	17°19	n.a.	T 12
F 13	13 8 44	18°40'16	27°11	23°42	5°56	12°13	3° 9	28°30	6°41	14°39	24°43	22°30	23°58	17°25	n.a.	F 13
S 14	13 12 40	19°38'02	9♓17	25° 3	7° 3	12°56	3° 2	28°25	6°44	14°38	24°44	22°25	23°54	17°32	n.a.	S 14
S 15	13 16 37	20°35'47	21°15	26°26	8°10	13°40	2°54	28°21	6°48	14°36	24°45	22°19	23°51	17°39	n.a.	S 15
M16	13 20 33	21°33'30	3♈ 7	27°52	9°18	14°23	2°48	28°17	6°51	14°35	24°46	22°13	23°48	17°45	n.a.	M16
T 17	13 24 30	22°31'12	14°57	29°20	10°26	15° 6	2°41	28°12	6°54	14°33	24°47	22° 9	23°45	17°52	n.a.	T 17
W18	13 28 26	23°28'52	26°45	0♈50	11°34	15°49	2°34	28° 8	6°58	14°32	24°48	22° 5	23°42	17°59	n.a.	W18
T 19	13 32 23	24°26'31	8♉35	2°23	12°42	16°32	2°27	28° 4	7° 1	14°30	24°49	22° 3	23°39	18° 5	n.a.	T 19
F 20	13 36 19	25°24'09	20°27	3°57	13°50	17°15	2°21	27°59	7° 4	14°29	24°50	22°D 2	23°35	18°12	n.a.	F 20
S 21	13 40 16	26°21'46	2♊25	5°34	14°58	17°58	2°14	27°55	7° 8	14°27	24°51	22° 2	23°32	18°19	n.a.	S 21
S 22	13 44 13	27°19'20	14°32	7°13	16° 6	18°41	2° 8	27°50	7°11	14°26	24°51	22° 4	23°29	18°26	n.a.	S 22
M23	13 48 9	28°16'54	26°51	8°55	17°14	19°24	2° 1	27°46	7°14	14°24	24°52	22° 5	23°26	18°32	n.a.	M23
T 24	13 52 6	29°14'26	9♋25	10°38	18°23	20° 7	1°55	27°41	7°18	14°23	24°53	22° 7	23°23	18°39	n.a.	T 24
W25	13 56 2	0♉11'56	22°18	12°24	19°31	20°50	1°49	27°37	7°21	14°21	24°54	22° 8	23°20	18°46	n.a.	W25
T 26	13 59 59	1° 9'25	5♌33	14°12	20°40	21°33	1°43	27°33	7°24	14°20	24°55	22°R 8	23°16	18°52	n.a.	T 26
F 27	14 3 55	2° 6'53	19°14	16° 2	21°49	22°15	1°38	27°28	7°27	14°18	24°55	22° 7	23°13	18°59	n.a.	F 27
S 28	14 7 52	3° 4'19	3♍21	17°54	22°57	22°58	1°32	27°24	7°30	14°17	24°56	22° 5	23°10	19° 6	n.a.	S 28
S 29	14 11 48	4° 1'43	17°52	19°48	24° 6	23°41	1°26	27°19	7°34	14°15	24°57	22° 3	23° 7	19°12	n.a.	S 29
M30	14 15 45	4♉59'06	2♎43	21♈45	25♓15	24♈23	1♎21	27♎15	7♈37	14♏13	24♒57	22♏ 1	23♏ 4	19♈19	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	2n51	3n39	4s56	9s34	2s12	14s33	0s26	0n52	0s35	0s20	1n41	8s55	2n37	1n51	0s37	14s45	1n49	27s40	15s 7	18s43	19s 8	9n21		n.a.
M 2	3 14	1s42	4 24	9 23	2 19	14 15	0 30	1 10	0 34	0 17	1 41	8 54	2 37	1 52	0 37	14 45	1 49	27 40	15 8	18 41	19 7	9 23		n.a.
T 3	3 37	7 2	3 32	9 9	2 26	13 57	0 35	1 28	0 34	0 14	1 41	8 52	2 37	1 53	0 37	14 45	1 49	27 40	15 8	18 39	19 7	9 25		n.a.
W 4	4 0	11 56	2 25	8 53	2 31	13 38	0 39	1 46	0 33	0 11	1 40	8 51	2 37	1 55	0 37	14 44	1 49	27 39	15 8	18 38	19 6	9 27		n.a.
T 5	4 23	16 0	1 9	8 36	2 36	13 19	0 42	2 4	0 33	0 8	1 40	8 49	2 37	1 56	0 37	14 44	1 49	27 39	15 8	18 38	19 5	9 29		n.a.
F 6	4 46	18 57	0n11	8 16	2 41	12 59	0 46	2 22	0 32	0 5	1 40	8 48	2 37	1 57	0 37	14 43	1 49	27 39	15 9	18 38	19 4	9 31		n.a.
S 7	5 9	20 36	1 28	7 55	2 44	12 39	0 50	2 40	0 32	0 2	1 40	8 46	2 37	1 59	0 37	14 43	1 49	27 39	15 9	18 38	19 3	9 33		n.a.
S 8	5 32	20 54	2 38	7 32	2 47	12 19	0 54	2 58	0 31	0n 1	1 40	8 45	2 37	2 0	0 37	14 43	1 50	27 39	15 9	18 38	19 3	9 35		n.a.
M 9	5 54	19 57	3 36	7 7	2 49	11 58	0 57	3 16	0 31	0 4	1 40	8 43	2 37	2 2	0 37	14 42	1 50	27 39	15 9	18 38	19 2	9 37		n.a.
T 10	6 17	17 57	4 22	6 40	2 51	11 37	1 1	3 34	0 30	0 7	1 40	8 42	2 37	2 3	0 37	14 42	1 50	27 39	15 10	18 38	19 1	9 39		n.a.
W11	6 39	15 6	4 53	6 11	2 52	11 16	1 4	3 51	0 29	0 10	1 40	8 40	2 37	2 4	0 37	14 41	1 50	27 38	15 10	18 38	19 0	9 41		n.a.
T 12	7 2	11 38	5 9	5 41	2 52	10 54	1 7	4 9	0 29	0 13	1 40	8 38	2 37	2 6	0 37	14 41	1 50	27 38	15 10	18 37	18 59	9 43		n.a.
F 13	7 24	7 44	5 11	5 9	2 52	10 32	1 10	4 27	0 28	0 15	1 40	8 37	2 37	2 7	0 37	14 40	1 50	27 38	15 11	18 36	18 59	9 45		n.a.
S 14	7 46	3 35	4 58	4 36	2 51	10 9	1 13	4 44	0 28	0 18	1 39	8 35	2 37	2 8	0 37	14 40	1 50	27 38	15 11	18 35	18 58	9 47		n.a.
S 15	8 8	0n40	4 33	4 1	2 50	9 47	1 16	5 2	0 27	0 21	1 39	8 34	2 37	2 10	0 37	14 40	1 50	27 38	15 11	18 33	18 57	9 49		n.a.
M16	8 30	4 52	3 56	3 25	2 48	9 24	1 19	5 20	0 27	0 23	1 39	8 32	2 37	2 11	0 37	14 39	1 50	27 38	15 12	18 32	18 56	9 51		n.a.
T 17	8 52	8 52	3 9	2 47	2 45	9 0	1 22	5 37	0 26	0 26	1 39	8 31	2 37	2 12	0 37	14 39	1 50	27 38	15 12	18 31	18 55	9 52		n.a.
W18	9 13	12 31	2 14	2 8	2 42	8 37	1 25	5 54	0 25	0 29	1 39	8 29	2 37	2 14	0 37	14 38	1 50	27 38	15 12	18 30	18 55	9 54		n.a.
T 19	9 35	15 41	1 13	1 27	2 38	8 13	1 27	6 12	0 25	0 31	1 39	8 27	2 37	2 15	0 37	14 38	1 50	27 38	15 12	18 29	18 54	9 56		n.a.
F 20	9 56	18 12	0 9	0 45	2 33	7 48	1 30	6 29	0 24	0 34	1 38	8 26	2 37	2 16	0 37	14 37	1 50	27 38	15 13	18 29	18 53	9 58		n.a.
S 21	10 17	19 57	0s57	0 2	2 28	7 24	1 32	6 46	0 24	0 36	1 38	8 24	2 37	2 18	0 37	14 37	1 50	27 38	15 13	18 29	18 52	10 0		n.a.
S 22	10 38	20 48	2 1	0n43	2 23	6 59	1 34	7 3	0 23	0 39	1 38	8 23	2 37	2 19	0 37	14 36	1 50	27 38	15 13	18 30	18 51	10 2		n.a.
M23	10 59	20 40	3 0	1 29	2 17	6 34	1 36	7 20	0 22	0 41	1 38	8 21	2 37	2 20	0 37	14 36	1 50	27 38	15 14	18 30	18 51	10 4		n.a.
T 24	11 20	19 31	3 52	2 16	2 10	6 9	1 38	7 37	0 22	0 43	1 38	8 20	2 37	2 22	0 37	14 35	1 50	27 38	15 14	18 30	18 50	10 6		n.a.
W25	11 40	17 20	4 34	3 4	2 3	5 44	1 40	7 54	0 21	0 45	1 38	8 18	2 37	2 23	0 37	14 35	1 50	27 38	15 14	18 31	18 49	10 8		n.a.
T 26	12 1	14 12	5 3	3 54	1 55	5 18	1 42	8 11	0 21	0 48	1 37	8 17	2 37	2 24	0 37	14 34	1 50	27 38	15 15	18 31	18 48	10 10		n.a.
F 27	12 21	10 14	5 15	4 44	1 47	4 52	1 44	8 27	0 20	0 50	1 37	8 15	2 37	2 25	0 37	14 34	1 50	27 38	15 15	18 30	18 47	10 12		n.a.
S 28	12 41	5 35	5 10	5 35	1 39	4 26	1 46	8 44	0 19	0 52	1 37	8 13	2 37	2 27	0 37	14 34	1 50	27 38	15 15	18 30	18 47	10 13		n.a.
S 29	13 0	0 30	4 45	6 27	1 30	4 0	1 47	9 0	0 19	0 54	1 37	8 12	2 37	2 28	0 37	14 33	1 50	27 38	15 16	18 29	18 46	10 15		n.a.
M30	13n20	4s45	4s 0	7n20	1s20	3s34	1s49	9n17	0s18	0n56	1n36	8s10	2n37	2n29	0s37	14s33	1n50	27s38	15s16	18s29	18s45	10n17		n.a.

Julian Day Number = 1660881.5, Delta T = 03h25m48s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'21, Lahiri = - 6°14'21 Julian Calendar 1 Apr. 166 BCE == Greg. Calendar 29 March 166 BCE

The year -165 astronomical counting style corresponds to year 166 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 166 BCE
geocentric

MAY 166 BCE (-165) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 19 42	5♉56'28	17♎49	23♈43	26♓24	25♈ 6	1°R16	27°R11	7♈40	14°R12	24♒58	21°R59	23♏ 0	19♈26	n.a.	T 1
W 2	14 23 38	6°53'49	2♏59	25°44	27°33	25°48	1♎11	27♎ 6	7°43	14♏10	24°59	21♏58	22°57	19°32	n.a.	W 2
T 3	14 27 35	7°51'09	18° 5	27°46	28°42	26°30	1° 6	27° 2	7°46	14° 9	24°59	21°D57	22°54	19°39	n.a.	T 3
F 4	14 31 31	8°48'28	2♐58	29°51	29°52	27°13	1° 1	26°58	7°49	14° 7	25° 0	21°58	22°51	19°46	n.a.	F 4
S 5	14 35 28	9°45'47	17°31	1♑56	1♈ 1	27°55	0°56	26°53	7°52	14° 5	25° 1	21°58	22°48	19°52	n.a.	S 5
S 6	14 39 24	10°43'04	1♒38	4° 4	2°10	28°37	0°52	26°49	7°55	14° 4	25° 1	21°59	22°45	19°59	n.a.	S 6
M 7	14 43 21	11°40'21	15°19	6°13	3°20	29°19	0°48	26°45	7°58	14° 2	25° 2	22° 0	22°41	20° 6	n.a.	M 7
T 8	14 47 18	12°37'38	28°34	8°22	4°29	0♉ 1	0°43	26°41	8° 1	14° 1	25° 2	22° 1	22°38	20°12	n.a.	T 8
W 9	14 51 14	13°34'53	11♒25	10°33	5°39	0°44	0°39	26°37	8° 4	13°59	25° 3	22°R 1	22°35	20°19	n.a.	W 9
T 10	14 55 11	14°32'09	23°56	12°44	6°49	1°26	0°35	26°32	8° 7	13°57	25° 3	22° 1	22°32	20°26	n.a.	T 10
F 11	14 59 7	15°29'23	6♓10	14°56	7°58	2° 8	0°32	26°28	8°10	13°56	25° 4	22° 0	22°29	20°32	n.a.	F 11
S 12	15 3 4	16°26'38	18°13	17° 8	9° 8	2°49	0°28	26°24	8°13	13°54	25° 4	22° 0	22°26	20°39	n.a.	S 12
S 13	15 7 0	17°23'51	0♈ 6	19°19	10°18	3°31	0°25	26°20	8°16	13°53	25° 4	21°59	22°22	20°46	n.a.	S 13
M14	15 10 57	18°21'05	11°56	21°31	11°28	4°13	0°22	26°16	8°19	13°51	25° 5	21°59	22°19	20°52	n.a.	M14
T 15	15 14 53	19°18'18	23°44	23°41	12°38	4°55	0°19	26°12	8°21	13°49	25° 5	21°58	22°16	20°59	n.a.	T 15
W16	15 18 50	20°15'30	5♉34	25°51	13°48	5°37	0°16	26° 9	8°24	13°48	25° 5	21°58	22°13	21° 6	n.a.	W16
T 17	15 22 47	21°12'42	17°28	27°59	14°58	6°18	0°13	26° 5	8°27	13°46	25° 6	21°D58	22°10	21°12	n.a.	T 17
F 18	15 26 43	22° 9'54	29°28	0♊ 6	16° 8	7° 0	0°11	26° 1	8°30	13°44	25° 6	21°R58	22° 6	21°19	n.a.	F 18
S 19	15 30 40	23° 7'05	11♊37	2°11	17°19	7°41	0° 8	25°57	8°32	13°43	25° 6	21°58	22° 3	21°26	n.a.	S 19
S 20	15 34 36	24° 4'15	23°57	4°15	18°29	8°23	0° 6	25°54	8°35	13°41	25° 6	21°58	22° 0	21°32	n.a.	S 20
M21	15 38 33	25° 1'25	6♋28	6°17	19°39	9° 4	0° 4	25°50	8°38	13°40	25° 7	21°58	21°57	21°39	n.a.	M21
T 22	15 42 29	25°58'34	19°13	8°17	20°50	9°46	0° 2	25°47	8°40	13°38	25° 7	21°57	21°54	21°46	n.a.	T 22
W23	15 46 26	26°55'43	2♌15	10°15	22° 0	10°27	0° 1	25°43	8°43	13°37	25° 7	21°57	21°51	21°52	n.a.	W23
T 24	15 50 22	27°52'51	15°34	12°11	23°11	11° 8	29♍59	25°40	8°45	13°35	25° 7	21°56	21°47	21°59	n.a.	T 24
F 25	15 54 19	28°49'59	29°12	14° 5	24°21	11°50	29°58	25°36	8°48	13°33	25° 7	21°D56	21°44	22° 6	n.a.	F 25
S 26	15 58 16	29°47'06	13♍ 9	15°57	25°32	12°31	29°57	25°33	8°50	13°32	25° 7	21°56	21°41	22°12	n.a.	S 26
S 27	16 2 12	0♊44'12	27°25	17°47	26°43	13°12	29°56	25°30	8°53	13°30	25° 7	21°57	21°38	22°19	n.a.	S 27
M28	16 6 9	1°41'18	11♎58	19°34	27°53	13°53	29°55	25°27	8°55	13°29	25° 8	21°58	21°35	22°26	n.a.	M28
T 29	16 10 5	2°38'24	26°44	21°19	29° 4	14°34	29°55	25°24	8°57	13°27	25° 8	21°58	21°31	22°32	n.a.	T 29
W30	16 14 2	3°35'29	11♏36	23° 3	0♑15	15°15	29°54	25°21	9° 0	13°26	25°R 8	21°59	21°28	22°39	n.a.	W30
T 31	16 17 58	4♊32'34	26♏28	24♊43	1♑26	15♑56	29°D54	25♎18	9♈ 2	13♏24	25♒ 8	21°R59	21♏25	22♈46	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	13n39	9s48	2s58	8n13	1s11	3s 7	1s50	9n33	0s18	0n58	1n36	8s 9	2n37	2n30	0s37	14s32	1n50	27s38	15s16	18s28	18s44	10n19			n.a.
W 2	13 58	14 16	1 43	9 7	1 1	2 41	1 51	9 49	0 17	0 59	1 36	8 7	2 37	2 32	0 37	14 32	1 50	27 38	15 17	18 28	18 43	10 21			n.a.
T 3	14 17	17 45	0 21	10 1	0 50	2 14	1 52	10 5	0 16	1 1	1 36	8 6	2 37	2 33	0 37	14 31	1 50	27 39	15 17	18 28	18 43	10 23			n.a.
F 4	14 36	20 0	1n 1	10 55	0 40	1 47	1 53	10 21	0 16	1 3	1 36	8 4	2 37	2 34	0 37	14 31	1 50	27 39	15 18	18 28	18 42	10 25			n.a.
S 5	14 54	20 51	2 17	11 50	0 29	1 20	1 54	10 37	0 15	1 5	1 35	8 3	2 36	2 35	0 37	14 30	1 50	27 39	15 18	18 28	18 41	10 27			n.a.
S 6	15 13	20 19	3 23	12 44	0 19	0 53	1 55	10 53	0 15	1 6	1 35	8 2	2 36	2 37	0 37	14 30	1 50	27 39	15 18	18 28	18 40	10 29			n.a.
M 7	15 31	18 36	4 15	13 37	0 8	0 26	1 56	11 9	0 14	1 8	1 35	8 0	2 36	2 38	0 37	14 29	1 50	27 39	15 19	18 29	18 39	10 30			n.a.
T 8	15 48	15 56	4 51	14 30	0n 3	0n 1	1 57	11 24	0 13	1 9	1 35	7 59	2 36	2 39	0 37	14 29	1 50	27 39	15 19	18 29	18 38	10 32			n.a.
W 9	16 6	12 33	5 12	15 22	0 13	0 29	1 57	11 40	0 13	1 11	1 34	7 57	2 36	2 40	0 37	14 28	1 50	27 39	15 19	18 29	18 38	10 34			n.a.
T 10	16 23	8 42	5 17	16 13	0 24	0 56	1 58	11 55	0 12	1 12	1 34	7 56	2 36	2 41	0 37	14 28	1 50	27 40	15 20	18 29	18 37	10 36			n.a.
F 11	16 40	4 35	5 8	17 2	0 34	1 24	1 58	12 10	0 11	1 13	1 34	7 55	2 36	2 42	0 37	14 27	1 50	27 40	15 20	18 29	18 36	10 38			n.a.
S 12	16 57	0 21	4 45	17 50	0 44	1 51	1 58	12 25	0 11	1 14	1 34	7 53	2 36	2 43	0 37	14 27	1 50	27 40	15 20	18 29	18 35	10 40			n.a.
S 13	17 13	3n51	4 10	18 37	0 53	2 19	1 59	12 40	0 10	1 15	1 33	7 52	2 36	2 45	0 37	14 26	1 50	27 40	15 21	18 28	18 34	10 42			n.a.
M14	17 29	7 54	3 25	19 21	1 2	2 46	1 59	12 55	0 10	1 16	1 33	7 51	2 35	2 46	0 37	14 26	1 50	27 40	15 21	18 28	18 34	10 43			n.a.
T 15	17 45	11 38	2 31	20 3	1 11	3 14	1 59	13 10	0 9	1 17	1 33	7 49	2 35	2 47	0 37	14 25	1 50	27 41	15 22	18 28	18 33	10 45			n.a.
W16	18 1	14 56	1 30	20 43	1 19	3 41	1 59	13 25	0 8	1 18	1 32	7 48	2 35	2 48	0 37	14 25	1 50	27 41	15 22	18 28	18 32	10 47			n.a.
T 17	18 16	17 38	0 25	21 20	1 26	4 9	1 59	13 39	0 8	1 19	1 32	7 47	2 35	2 49	0 37	14 24	1 50	27 41	15 22	18 28	18 31	10 49			n.a.
F 18	18 31	19 36	0s42	21 55	1 33	4 36	1 58	13 54	0 7	1 20	1 32	7 46	2 35	2 50	0 37	14 24	1 50	27 41	15 23	18 28	18 30	10 51			n.a.
S 19	18 46	20 40	1 47	22 27	1 39	5 4	1 58	14 8	0 7	1 21	1 32	7 44	2 35	2 51	0 37	14 23	1 50	27 42	15 23	18 28	18 29	10 53			n.a.
S 20	19 0	20 46	2 49	22 56	1 44	5 31	1 58	14 22	0 6	1 21	1 31	7 43	2 34	2 52	0 37	14 23	1 50	27 42	15 23	18 28	18 29	10 54			n.a.
M21	19 14	19 51	3 43	23 23	1 49	5 58	1 57	14 36	0 5	1 22	1 31	7 42	2 34	2 53	0 37	14 23	1 50	27 42	15 24	18 28	18 28	10 56			n.a.
T 22	19 28	17 54	4 27	23 48	1 53	6 25	1 57	14 50	0 5	1 22	1 31	7 41	2 34	2 54	0 37	14 22	1 50	27 42	15 24	18 28	18 27	10 58			n.a.
W23	19 42	15 2	4 59	24 9	1 56	6 53	1 56	15 4	0 4	1 23	1 30	7 40	2 34	2 55	0 37	14 22	1 50	27 43	15 25	18 28	18 26	11 0			n.a.
T 24	19 55	11 20	5 15	24 28	1 59	7 20	1 55	15 17	0 3	1 23	1 30	7 39	2 34	2 56	0 37	14 21	1 50	27 43	15 25	18 28	18 25	11 2			n.a.
F 25	20 8	6 58	5 15	24 45	2 0	7 47	1 54	15 31	0 3	1 23	1 30	7 38	2 34	2 57	0 38	14 21	1 50	27 43	15 25	18 28	18 24	11 4			n.a.
S 26	20 20	2 9	4 56	24 59	2 2	8 13	1 54	15 44	0 2	1 23	1 30	7 37	2 33	2 58	0 38	14 20	1 50	27 44	15 26	18 28	18 24	11 5			n.a.
S 27	20 32	2s55	4 19	25 10	2 2	8 40	1 53	15 57	0 2	1 23	1 29	7 36	2 33	2 59	0 38	14 20	1 50	27 44	15 26	18 28	18 23	11 7			n.a.
M28	20 44	7 55	3 24	25 19	2 2	9 7	1 52	16 10	0 1	1 23	1 29	7 35	2 33	3 0	0 38	14 19	1 50	27 44	15 26	18 28	18 22	11 9			n.a.
T 29	20 56	12 31	2 16	25 26	2 1	9 33	1 51	16 23	0 0	1 23	1 29	7 34	2 33	3 1	0 38	14 19	1 50	27 45	15 27	18 28	18 21	11 11			n.a.
W30	21 7	16 24	0 57	25 31	1 59	9 59	1 49	16 36	0n 0	1 23	1 28	7 33	2 33	3 2	0 38	14 19	1 50	27 45	15 27	18 28	18 20	11 13			n.a.
T 31	21n18	19s11	0n25	25n33	1n57	10n25	1s48	16n49	0n 1	1n23	1n28	7s32	2n32	3n 3	0s38	14s18	1n50	27s45	15s28	18s28	18s19	11n14			n.a.

Julian Day Number = 1660911.5, Delta T = 03h25m47s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'17, Lahiri = - 6°14'17 Julian Calendar 1 May 166 BCE == Greg. Calendar 28 Apr. 166 BCE

The year -165 astronomical counting style corresponds to year 166 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 166 BCE
geocentric

JUNE 166 BCE (-165) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 21 55	5♊29'39	11♐12	26♊22	2♉37	16♉37	29♍54	25°R15	9♈ 4	13°R23	25°R 8	21°R59	21♏22	22♈52	n.a.	F 1
S 2	16 25 51	6°26'45	25°42	27°59	3°48	17°18	29°54	25♎12	9° 7	13♏21	25♒ 7	21♏57	21°19	22°59	n.a.	S 2
S 3	16 29 48	7°23'50	9♑50	29°33	4°59	17°59	29°55	25° 9	9° 9	13°20	25° 7	21°56	21°16	23° 6	n.a.	S 3
M 4	16 33 45	8°20'55	23°35	1♋ 5	6°10	18°39	29°55	25° 7	9°11	13°19	25° 7	21°54	21°12	23°12	n.a.	M 4
T 5	16 37 41	9°18'01	6♒55	2°35	7°21	19°20	29°56	25° 4	9°13	13°17	25° 7	21°51	21° 9	23°19	n.a.	T 5
W 6	16 41 38	10°15'07	19°50	4° 2	8°32	20° 1	29°57	25° 2	9°15	13°16	25° 7	21°50	21° 6	23°26	n.a.	W 6
T 7	16 45 34	11°12'14	2♓24	5°27	9°44	20°41	29°58	24°59	9°17	13°14	25° 7	21°49	21° 3	23°32	n.a.	T 7
F 8	16 49 31	12° 9'20	14°39	6°50	10°55	21°22	29°59	24°57	9°19	13°13	25° 7	21°D48	21° 0	23°39	n.a.	F 8
S 9	16 53 27	13° 6'28	26°41	8°11	12° 6	22° 2	0♎ 1	24°55	9°21	13°12	25° 6	21°49	20°57	23°45	n.a.	S 9
S 10	16 57 24	14° 3'35	8♈34	9°29	13°18	22°43	0° 2	24°52	9°23	13°10	25° 6	21°50	20°53	23°52	n.a.	S 10
M11	17 1 20	15° 0'44	20°23	10°45	14°29	23°23	0° 4	24°50	9°25	13° 9	25° 6	21°52	20°50	23°59	n.a.	M11
T 12	17 5 17	15°57'53	2♉12	11°58	15°41	24° 4	0° 6	24°48	9°27	13° 8	25° 6	21°54	20°47	24° 5	n.a.	T 12
W13	17 9 14	16°55'02	14° 6	13° 8	16°52	24°44	0° 8	24°47	9°28	13° 6	25° 5	21°55	20°44	24°12	n.a.	W13
T 14	17 13 10	17°52'12	26° 6	14°16	18° 4	25°24	0°11	24°45	9°30	13° 5	25° 5	21°R55	20°41	24°19	n.a.	T 14
F 15	17 17 7	18°49'23	8♊18	15°22	19°16	26° 4	0°13	24°43	9°32	13° 4	25° 5	21°54	20°37	24°25	n.a.	F 15
S 16	17 21 3	19°46'34	20°41	16°24	20°28	26°45	0°16	24°41	9°33	13° 3	25° 4	21°51	20°34	24°32	n.a.	S 16
S 17	17 25 0	20°43'46	3♋18	17°24	21°39	27°25	0°19	24°40	9°35	13° 1	25° 4	21°48	20°31	24°39	n.a.	S 17
M18	17 28 56	21°40'58	16° 9	18°20	22°51	28° 5	0°22	24°38	9°37	13° 0	25° 3	21°43	20°28	24°45	n.a.	M18
T 19	17 32 53	22°38'10	29°13	19°13	24° 3	28°45	0°25	24°37	9°38	12°59	25° 3	21°38	20°25	24°52	n.a.	T 19
W20	17 36 50	23°35'23	12♌32	20° 4	25°15	29°25	0°28	24°36	9°39	12°58	25° 3	21°34	20°22	24°59	n.a.	W20
T 21	17 40 46	24°32'36	26° 3	20°50	26°27	0♊ 5	0°32	24°35	9°41	12°57	25° 2	21°30	20°18	25° 5	n.a.	T 21
F 22	17 44 43	25°29'50	9♍48	21°33	27°39	0°45	0°35	24°33	9°42	12°56	25° 2	21°28	20°15	25°12	n.a.	F 22
S 23	17 48 39	26°27'04	23°43	22°13	28°51	1°24	0°39	24°33	9°44	12°55	25° 1	21°D27	20°12	25°19	n.a.	S 23
S 24	17 52 36	27°24'18	7♎50	22°48	0♊ 3	2° 4	0°43	24°32	9°45	12°54	25° 1	21°27	20° 9	25°25	n.a.	S 24
M25	17 56 32	28°21'33	22° 7	23°20	1°15	2°44	0°47	24°31	9°46	12°53	25° 0	21°28	20° 6	25°32	n.a.	M25
T 26	18 0 29	29°18'48	6♏30	23°47	2°27	3°24	0°52	24°30	9°47	12°52	24°59	21°29	20° 3	25°39	n.a.	T 26
W27	18 4 25	0♋16'04	20°59	24°10	3°40	4° 3	0°56	24°29	9°48	12°51	24°59	21°R30	19°59	25°45	n.a.	W27
T 28	18 8 22	1°13'21	5♐27	24°29	4°52	4°43	1° 1	24°29	9°50	12°50	24°58	21°29	19°56	25°52	n.a.	T 28
F 29	18 12 19	2°10'38	19°50	24°43	6° 4	5°22	1° 6	24°29	9°51	12°49	24°58	21°27	19°53	25°59	n.a.	F 29
S 30	18 16 15	3♋ 7'56	4♑ 4	24♋52	7♊17	6♊ 2	1♎11	24♎28	9♈52	12♏48	24♒57	21♏22	19♏50	26♈ 5	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n28	20s39	1n45	25n34	1n54	10n51	1s47	17n 1	0n 2	1n23	1n28	7s31	2n32	3n 4	0s38	14s18	1n49	27s46	15s28	18s28	18s19	11n16		n.a.
S 2	21 38	20 43	2 56	25 33	1 51	11 17	1 45	17 14	0 2	1 22	1 27	7 30	2 32	3 4	0 38	14 17	1 49	27 46	15 28	18 28	18 18	11 18		n.a.
S 3	21 48	19 26	3 55	25 30	1 47	11 42	1 44	17 26	0 3	1 22	1 27	7 29	2 32	3 5	0 38	14 17	1 49	27 46	15 29	18 27	18 17	11 20		n.a.
M 4	21 57	17 3	4 38	25 25	1 42	12 7	1 42	17 38	0 4	1 21	1 27	7 29	2 32	3 6	0 38	14 17	1 49	27 47	15 29	18 27	18 16	11 22		n.a.
T 5	22 6	13 50	5 5	25 18	1 37	12 32	1 41	17 50	0 4	1 21	1 27	7 28	2 31	3 7	0 38	14 16	1 49	27 47	15 29	18 26	18 15	11 23		n.a.
W 6	22 14	10 2	5 16	25 10	1 31	12 57	1 39	18 1	0 5	1 20	1 26	7 27	2 31	3 8	0 38	14 16	1 49	27 47	15 30	18 26	18 14	11 25		n.a.
T 7	22 23	5 55	5 11	25 1	1 25	13 21	1 38	18 13	0 5	1 20	1 26	7 27	2 31	3 9	0 38	14 15	1 49	27 48	15 30	18 26	18 14	11 27		n.a.
F 8	22 31	1 38	4 51	24 50	1 18	13 45	1 36	18 24	0 6	1 19	1 26	7 26	2 31	3 9	0 38	14 15	1 49	27 48	15 30	18 26	18 13	11 29		n.a.
S 9	22 38	2n38	4 19	24 38	1 11	14 9	1 34	18 36	0 7	1 18	1 25	7 25	2 30	3 10	0 38	14 15	1 49	27 49	15 31	18 26	18 12	11 31		n.a.
S 10	22 45	6 45	3 37	24 25	1 3	14 33	1 32	18 47	0 7	1 17	1 25	7 25	2 30	3 11	0 38	14 14	1 49	27 49	15 31	18 26	18 11	11 32		n.a.
M11	22 52	10 36	2 45	24 10	0 54	14 56	1 30	18 58	0 8	1 16	1 25	7 24	2 30	3 11	0 38	14 14	1 49	27 50	15 32	18 26	18 10	11 34		n.a.
T 12	22 58	14 2	1 47	23 55	0 45	15 19	1 28	19 9	0 9	1 15	1 24	7 24	2 30	3 12	0 38	14 14	1 49	27 50	15 32	18 27	18 9	11 36		n.a.
W13	23 4	16 56	0 43	23 39	0 36	15 41	1 26	19 19	0 9	1 14	1 24	7 23	2 29	3 13	0 38	14 13	1 49	27 50	15 32	18 27	18 8	11 38		n.a.
T 14	23 9	19 8	0s23	23 22	0 26	16 4	1 24	19 30	0 10	1 13	1 24	7 23	2 29	3 14	0 38	14 13	1 49	27 51	15 33	18 27	18 8	11 39		n.a.
F 15	23 14	20 29	1 29	23 5	0 16	16 25	1 22	19 40	0 11	1 11	1 24	7 22	2 29	3 14	0 38	14 12	1 49	27 51	15 33	18 27	18 7	11 41		n.a.
S 16	23 19	20 52	2 31	22 47	0 5	16 47	1 20	19 50	0 11	1 10	1 23	7 22	2 29	3 15	0 38	14 12	1 49	27 52	15 33	18 26	18 6	11 43		n.a.
S 17	23 23	20 13	3 28	22 29	0s 6	17 8	1 18	20 0	0 12	1 9	1 23	7 22	2 29	3 15	0 38	14 12	1 49	27 52	15 34	18 25	18 5	11 45		n.a.
M18	23 27	18 31	4 14	22 10	0 17	17 29	1 16	20 10	0 12	1 7	1 23	7 21	2 28	3 16	0 38	14 12	1 49	27 53	15 34	18 24	18 4	11 46		n.a.
T 19	23 30	15 50	4 49	21 51	0 29	17 49	1 13	20 19	0 13	1 6	1 22	7 21	2 28	3 17	0 38	14 11	1 49	27 53	15 34	18 23	18 3	11 48		n.a.
W20	23 33	12 18	5 8	21 31	0 41	18 9	1 11	20 29	0 14	1 4	1 22	7 21	2 28	3 17	0 38	14 11	1 49	27 54	15 35	18 22	18 2	11 50		n.a.
T 21	23 36	8 6	5 11	21 12	0 53	18 28	1 9	20 38	0 14	1 2	1 22	7 21	2 28	3 18	0 38	14 11	1 49	27 54	15 35	18 21	18 2	11 52		n.a.
F 22	23 38	3 25	4 57	20 53	1 6	18 47	1 6	20 47	0 15	1 0	1 22	7 21	2 27	3 18	0 38	14 10	1 49	27 55	15 35	18 20	18 1	11 53		n.a.
S 23	23 40	1s31	4 24	20 34	1 19	19 6	1 4	20 56	0 16	0 59	1 21	7 20	2 27	3 19	0 38	14 10	1 49	27 55	15 36	18 20	18 0	11 55		n.a.
S 24	23 41	6 26	3 36	20 15	1 32	19 24	1 1	21 5	0 16	0 57	1 21	7 20	2 27	3 19	0 38	14 10	1 49	27 56	15 36	18 20	17 59	11 57		n.a.
M25	23 42	11 4	2 33	19 56	1 45	19 41	0 59	21 13	0 17	0 55	1 21	7 20	2 26	3 20	0 38	14 10	1 49	27 56	15 36	18 20	17 58	11 58		n.a.
T 26	23 43	15 7	1 21	19 38	1 59	19 58	0 56	21 22	0 18	0 53	1 20	7 20	2 26	3 20	0 38	14 9	1 48	27 57	15 37	18 21	17 57	12 0		n.a.
W27	23 43	18 15	0 3	19 21	2 12	20 15	0 54	21 30	0 18	0 51	1 20	7 20	2 26	3 21	0 38	14 9	1 48	27 57	15 37	18 21	17 56	12 2		n.a.
T 28	23 42	20 13	1n15	19 4	2 26	20 31	0 51	21 38	0 19	0 49	1 20	7 20	2 26	3 21	0 38	14 9	1 48	27 58	15 37	18 21	17 56	12 4		n.a.
F 29	23 42	20 52	2 28	18 49	2 40	20 46	0 49	21 46	0 20	0 46	1 20	7 20	2 25	3 21	0 38	14 9	1 48	27 58	15 38	18 20	17 55	12 5		n.a.
S 30	23n41	20s 9	3n30	18n34	2s53	21n 1	0s46	21n54	0n20	0n44	1n19	7s21	2n25	3n22	0s38	14s 8	1n48	27s59	15s38	18s19	17s54	12n 7		n.a.

Julian Day Number = 1660942.5, Delta T = 03h25m46s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'13, Lahiri = - 6°14'13 Julian Calendar 1 June 166 BCE == Greg. Calendar 29 May 166 BCE

The year -165 astronomical counting style corresponds to year 166 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 166 BCE
geocentric

JULY 166 BCE (-165) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 20 12	4♋ 5'15	18♉ 2	24°R56	8♊29	6♊41	1♎16	24°R28	9♈53	12°R47	24°R56	21°R16	19♏47	26♈12	n.a.	S 1
M 2	18 24 8	5° 2'36	1♒41	24♋54	9°41	7°21	1°21	24♎28	9°54	12♏46	24♒55	21♏ 9	19°43	26°19	n.a.	M 2
T 3	18 28 5	5°59'57	14°58	24°48	10°54	8° 0	1°26	24°D28	9°54	12°45	24°55	21° 2	19°40	26°25	n.a.	T 3
W 4	18 32 1	6°57'19	27°53	24°37	12° 7	8°39	1°32	24°28	9°55	12°45	24°54	20°56	19°37	26°32	n.a.	W 4
T 5	18 35 58	7°54'43	10♓27	24°20	13°19	9°19	1°38	24°28	9°56	12°44	24°53	20°51	19°34	26°39	n.a.	T 5
F 6	18 39 54	8°52'08	22°44	23°58	14°32	9°58	1°44	24°28	9°57	12°43	24°53	20°47	19°31	26°45	n.a.	F 6
S 7	18 43 51	9°49'34	4♈46	23°31	15°45	10°37	1°50	24°29	9°57	12°42	24°52	20°D46	19°28	26°52	n.a.	S 7
S 8	18 47 48	10°47'02	16°39	23° 0	16°57	11°16	1°56	24°29	9°58	12°42	24°51	20°46	19°24	26°59	n.a.	S 8
M 9	18 51 44	11°44'31	28°28	22°24	18°10	11°55	2° 2	24°30	9°59	12°41	24°50	20°47	19°21	27° 5	n.a.	M 9
T 10	18 55 41	12°42'02	10♉19	21°44	19°23	12°34	2° 8	24°30	9°59	12°40	24°49	20°48	19°18	27°12	n.a.	T 10
W11	18 59 37	13°39'34	22°15	21° 1	20°36	13°13	2°15	24°31	10° 0	12°40	24°48	20°R48	19°15	27°19	n.a.	W11
T 12	19 3 34	14°37'07	4♊22	20°15	21°49	13°52	2°22	24°32	10° 0	12°39	24°48	20°47	19°12	27°25	n.a.	T 12
F 13	19 7 30	15°34'43	16°43	19°27	23° 2	14°31	2°29	24°33	10° 0	12°39	24°47	20°44	19° 9	27°32	n.a.	F 13
S 14	19 11 27	16°32'19	29°21	18°38	24°15	15°10	2°36	24°34	10° 1	12°38	24°46	20°39	19° 5	27°39	n.a.	S 14
S 15	19 15 23	17°29'57	12♋16	17°48	25°28	15°49	2°43	24°35	10° 1	12°38	24°45	20°31	19° 2	27°45	n.a.	S 15
M16	19 19 20	18°27'37	25°29	16°59	26°41	16°28	2°50	24°36	10° 1	12°37	24°44	20°22	18°59	27°52	n.a.	M16
T 17	19 23 17	19°25'17	8♌58	16°12	27°54	17° 7	2°57	24°37	10° 1	12°37	24°43	20°12	18°56	27°59	n.a.	T 17
W18	19 27 13	20°22'59	22°41	15°28	29° 8	17°45	3° 5	24°39	10° 2	12°37	24°42	20° 3	18°53	28° 5	n.a.	W18
T 19	19 31 10	21°20'43	6♍34	14°46	0♋21	18°24	3°13	24°40	10° 2	12°36	24°41	19°55	18°49	28°12	n.a.	T 19
F 20	19 35 6	22°18'27	20°35	14°10	1°34	19° 2	3°20	24°42	10°R 2	12°36	24°40	19°49	18°46	28°19	n.a.	F 20
S 21	19 39 3	23°16'13	4♎40	13°38	2°47	19°41	3°28	24°44	10° 2	12°36	24°39	19°45	18°43	28°25	n.a.	S 21
S 22	19 42 59	24°14'00	18°47	13°12	4° 1	20°19	3°36	24°45	10° 2	12°35	24°38	19°D44	18°40	28°32	n.a.	S 22
M23	19 46 56	25°11'48	2♏55	12°53	5°14	20°58	3°44	24°47	10° 1	12°35	24°37	19°44	18°37	28°38	n.a.	M23
T 24	19 50 52	26° 9'38	17° 3	12°41	6°28	21°36	3°53	24°49	10° 1	12°35	24°36	19°R44	18°34	28°45	n.a.	T 24
W25	19 54 49	27° 7'28	1♐10	12°D36	7°41	22°15	4° 1	24°51	10° 1	12°35	24°35	19°44	18°30	28°52	n.a.	W25
T 26	19 58 46	28° 5'21	15°13	12°39	8°55	22°53	4°10	24°53	10° 1	12°35	24°34	19°41	18°27	28°58	n.a.	T 26
F 27	20 2 42	29° 3'14	29°11	12°50	10° 8	23°31	4°18	24°56	10° 0	12°35	24°33	19°36	18°24	29° 5	n.a.	F 27
S 28	20 6 39	0♑ 1'10	13♉ 0	13° 9	11°22	24° 9	4°27	24°58	10° 0	12°35	24°32	19°29	18°21	29°12	n.a.	S 28
S 29	20 10 35	0°59'06	26°38	13°36	12°36	24°48	4°36	25° 0	10° 0	12°D35	24°31	19°19	18°18	29°18	n.a.	S 29
M30	20 14 32	1°57'05	10♒ 2	14°11	13°50	25°26	4°45	25° 3	9°59	12°35	24°29	19° 7	18°15	29°25	n.a.	M30
T 31	20 18 28	2♑55'05	23♒ 8	14♋53	15♋ 3	26♊ 4	4♎54	25♎ 5	9♈59	12♏35	24♒28	18♏55	18♏11	29♈32	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	23n39	18s12	4n19	18n20	3s 6	21n15	0s44	22n 1	0n21	0n42	1n19	7s21	2n25	3n22	0s38	14s 8	1n48	27s59	15s38	18s17	17s53	12n 9			n.a.
M 2	23 37	15 17	4 51	18 8	3 19	21 29	0 41	22 8	0 21	0 40	1 19	7 21	2 25	3 22	0 38	14 8	1 48	28 0	15 39	18 15	17 52	12 10			n.a.
T 3	23 35	11 38	5 7	17 57	3 31	21 42	0 38	22 15	0 22	0 37	1 18	7 21	2 24	3 23	0 38	14 8	1 48	28 0	15 39	18 13	17 51	12 12			n.a.
W 4	23 32	7 33	5 7	17 47	3 43	21 55	0 36	22 22	0 23	0 35	1 18	7 21	2 24	3 23	0 38	14 8	1 48	28 1	15 39	18 12	17 50	12 14			n.a.
T 5	23 28	3 15	4 51	17 39	3 54	22 7	0 33	22 29	0 23	0 32	1 18	7 22	2 24	3 23	0 38	14 7	1 48	28 1	15 39	18 10	17 49	12 16			n.a.
F 6	23 25	1n 6	4 22	17 33	4 5	22 18	0 30	22 36	0 24	0 29	1 18	7 22	2 24	3 24	0 39	14 7	1 48	28 2	15 40	18 9	17 49	12 17			n.a.
S 7	23 21	5 19	3 43	17 28	4 14	22 29	0 28	22 42	0 25	0 27	1 17	7 22	2 23	3 24	0 39	14 7	1 48	28 2	15 40	18 9	17 48	12 19			n.a.
S 8	23 16	9 17	2 54	17 25	4 22	22 39	0 25	22 48	0 25	0 24	1 17	7 23	2 23	3 24	0 39	14 7	1 48	28 3	15 40	18 9	17 47	12 21			n.a.
M 9	23 11	12 53	1 58	17 24	4 29	22 49	0 22	22 54	0 26	0 21	1 17	7 23	2 23	3 24	0 39	14 7	1 48	28 4	15 41	18 9	17 46	12 22			n.a.
T 10	23 6	15 58	0 56	17 25	4 35	22 57	0 20	23 0	0 27	0 18	1 17	7 24	2 22	3 24	0 39	14 7	1 48	28 4	15 41	18 10	17 45	12 24			n.a.
W11	23 0	18 25	0s 8	17 27	4 39	23 6	0 17	23 6	0 27	0 16	1 16	7 24	2 22	3 25	0 39	14 6	1 48	28 5	15 41	18 10	17 44	12 26			n.a.
T 12	22 54	20 4	1 12	17 32	4 42	23 13	0 14	23 11	0 28	0 13	1 16	7 25	2 22	3 25	0 39	14 6	1 48	28 5	15 41	18 9	17 43	12 27			n.a.
F 13	22 48	20 49	2 15	17 38	4 42	23 20	0 12	23 17	0 29	0 10	1 16	7 25	2 22	3 25	0 39	14 6	1 48	28 6	15 42	18 9	17 42	12 29			n.a.
S 14	22 41	20 31	3 12	17 46	4 41	23 26	0 9	23 22	0 29	0 7	1 16	7 26	2 21	3 25	0 39	14 6	1 47	28 6	15 42	18 7	17 42	12 31			n.a.
S 15	22 33	19 9	4 0	17 55	4 38	23 32	0 6	23 27	0 30	0 4	1 15	7 27	2 21	3 25	0 39	14 6	1 47	28 7	15 42	18 5	17 41	12 32			n.a.
M16	22 25	16 45	4 37	18 6	4 33	23 37	0 4	23 31	0 31	0 0	1 15	7 27	2 21	3 25	0 39	14 6	1 47	28 7	15 42	18 3	17 40	12 34			n.a.
T 17	22 17	13 25	4 59	18 18	4 27	23 41	0 1	23 36	0 31	0s 3	1 15	7 28	2 21	3 25	0 39	14 6	1 47	28 8	15 43	18 0	17 39	12 36			n.a.
W18	22 9	9 19	5 4	18 32	4 18	23 44	0n 2	23 40	0 32	0 6	1 15	7 29	2 20	3 25	0 39	14 6	1 47	28 9	15 43	17 57	17 38	12 37			n.a.
T 19	22 0	4 41	4 52	18 47	4 8	23 47	0 4	23 44	0 32	0 9	1 14	7 30	2 20	3 25	0 39	14 6	1 47	28 9	15 43	17 55	17 37	12 39			n.a.
F 20	21 51	0s14	4 22	19 2	3 56	23 49	0 7	23 48	0 33	0 13	1 14	7 31	2 20	3 25	0 39	14 6	1 47	28 10	15 43	17 53	17 36	12 41			n.a.
S 21	21 41	5 10	3 36	19 18	3 43	23 51	0 10	23 52	0 34	0 16	1 14	7 31	2 20	3 25	0 39	14 6	1 47	28 10	15 43	17 53	17 35	12 42			n.a.
S 22	21 31	9 51	2 37	19 35	3 29	23 51	0 12	23 56	0 34	0 20	1 14	7 32	2 19	3 25	0 39	14 6	1 47	28 11	15 44	17 52	17 35	12 44			n.a.
M23	21 20	14 0	1 28	19 52	3 14	23 51	0 15	23 59	0 35	0 23	1 13	7 33	2 19	3 25	0 39	14 6	1 47	28 11	15 44	17 52	17 34	12 45			n.a.
T 24	21 10	17 21	0 14	20 9	2 58	23 50	0 17	24 2	0 36	0 27	1 13	7 34	2 19	3 25	0 39	14 6	1 47	28 12	15 44	17 52	17 33	12 47			n.a.
W25	20 58	19 38	1n 0	20 26	2 41	23 49	0 20	24 5	0 36	0 30	1 13	7 35	2 18	3 25	0 39	14 6	1 47	28 12	15 44	17 52	17 32	12 49			n.a.
T 26	20 47	20 43	2 11	20 43	2 24	23 47	0 22	24 8	0 37	0 34	1 13	7 36	2 18	3 25	0 39	14 6	1 47	28 13	15 44	17 51	17 31	12 50			n.a.
F 27	20 35	20 29	3 13	20 59	2 7	23 44	0 25	24 11	0 38	0 37	1 12	7 37	2 18	3 25	0 39	14 6	1 47	28 14	15 45	17 50	17 30	12 52			n.a.
S 28	20 23	19 2	4 3	21 15	1 49	23 40	0 27	24 13	0 38	0 41	1 12	7 38	2 18	3 24	0 39	14 6	1 47	28 14	15 45	17 48	17 29	12 54			n.a.
S 29	20 10	16 30	4 39	21 29	1 32	23 36	0 29	24 16	0 39	0 45	1 12	7 39	2 17	3 24	0 39	14 6	1 47	28 15	15 45	17 45	17 28	12 55			n.a.
M30	19 57	13 9	4 58	21 43	1 15	23 31	0 32	24 18	0 40	0 49	1 12	7 41	2 17	3 24	0 39	14 6	1 46	28 15	15 45	17 42	17 27	12 57			n.a.
T 31	19n44	9s14	5n 1	21n55	0s58	23n25	0n34	24n20	0n40	0s52	1n12	7s42	2n17	3n24	0s39	14s 6	1n46	28s16	15s45	17s39	17s27	12n58			n.a.

Julian Day Number = 1660972.5, Delta T = 03h25m45s
Ecliptic obliquity = 23°42'48, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'09, Lahiri = - 6°14'09 Julian Calendar 1 July 166 BCE == Greg. Calendar 28 June 166 BCE

The year -165 astronomical counting style corresponds to year 166 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 166 BCE
geocentric

AUGUST 166 BCE (-165) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 22 25	3♌53'07	5♓55	15♋43	16♋17	26♊42	5♎ 3	25♎ 8	9°R58	12♏35	24°R27	18°R44	18♏ 8	29♈38	n.a.	W 1
T 2	20 26 21	4°51'11	18°25	16°41	17°31	27°20	5°12	25°11	9♈57	12°35	24♒26	18♏35	18° 5	29°45	n.a.	T 2
F 3	20 30 18	5°49'16	0♈39	17°45	18°45	27°58	5°22	25°14	9°57	12°35	24°25	18°28	18° 2	29°52	n.a.	F 3
S 4	20 34 15	6°47'24	12°40	18°56	19°59	28°36	5°31	25°17	9°56	12°35	24°24	18°23	17°59	29°58	n.a.	S 4
S 5	20 38 11	7°45'34	24°33	20°13	21°13	29°13	5°41	25°20	9°55	12°35	24°23	18°21	17°55	0♉ 5	n.a.	S 5
M 6	20 42 8	8°43'46	6♉21	21°36	22°27	29°51	5°51	25°23	9°55	12°36	24°21	18°D20	17°52	0°12	n.a.	M 6
T 7	20 46 4	9°42'00	18°11	23° 4	23°41	0♋29	6° 0	25°26	9°54	12°36	24°20	18°R20	17°49	0°18	n.a.	T 7
W 8	20 50 1	10°40'17	0♊ 8	24°37	24°55	1° 7	6°10	25°29	9°53	12°36	24°19	18°20	17°46	0°25	n.a.	W 8
T 9	20 53 57	11°38'35	12°18	26°13	26° 9	1°44	6°20	25°33	9°52	12°36	24°18	18°18	17°43	0°32	n.a.	T 9
F 10	20 57 54	12°36'56	24°44	27°54	27°23	2°22	6°30	25°36	9°51	12°37	24°17	18°14	17°40	0°38	n.a.	F 10
S 11	21 1 50	13°35'19	7♋32	29°37	28°38	3° 0	6°40	25°40	9°50	12°37	24°16	18° 7	17°36	0°45	n.a.	S 11
S 12	21 5 47	14°33'44	20°41	1♌23	29°52	3°37	6°51	25°43	9°49	12°38	24°14	17°58	17°33	0°52	n.a.	S 12
M13	21 9 44	15°32'11	4♌13	3°11	1♌ 6	4°15	7° 1	25°47	9°48	12°38	24°13	17°46	17°30	0°58	n.a.	M13
T 14	21 13 40	16°30'40	18° 6	5° 1	2°21	4°52	7°12	25°51	9°46	12°39	24°12	17°34	17°27	1° 5	n.a.	T 14
W15	21 17 37	17°29'11	2♍15	6°52	3°35	5°29	7°22	25°55	9°45	12°39	24°11	17°22	17°24	1°11	n.a.	W15
T 16	21 21 33	18°27'44	16°34	8°44	4°49	6° 7	7°33	25°58	9°44	12°40	24°10	17°12	17°21	1°18	n.a.	T 16
F 17	21 25 30	19°26'19	0♎59	10°37	6° 4	6°44	7°44	26° 2	9°43	12°40	24° 8	17° 4	17°17	1°25	n.a.	F 17
S 18	21 29 26	20°24'55	15°23	12°30	7°18	7°21	7°54	26° 7	9°41	12°41	24° 7	16°59	17°14	1°31	n.a.	S 18
S 19	21 33 23	21°23'33	29°42	14°23	8°33	7°58	8° 5	26°11	9°40	12°42	24° 6	16°56	17°11	1°38	n.a.	S 19
M20	21 37 19	22°22'14	13♏54	16°16	9°47	8°35	8°16	26°15	9°39	12°42	24° 5	16°56	17° 8	1°45	n.a.	M20
T 21	21 41 16	23°20'55	27°57	18° 9	11° 2	9°12	8°27	26°19	9°37	12°43	24° 3	16°56	17° 5	1°51	n.a.	T 21
W22	21 45 12	24°19'39	11♐51	20° 1	12°17	9°49	8°38	26°24	9°36	12°44	24° 2	16°55	17° 1	1°58	n.a.	W22
T 23	21 49 9	25°18'25	25°36	21°53	13°31	10°26	8°50	26°28	9°34	12°45	24° 1	16°52	16°58	2° 5	n.a.	T 23
F 24	21 53 6	26°17'12	9♑11	23°44	14°46	11° 3	9° 1	26°33	9°32	12°45	24° 0	16°47	16°55	2°11	n.a.	F 24
S 25	21 57 2	27°16'01	22°36	25°34	16° 1	11°40	9°12	26°37	9°31	12°46	23°59	16°39	16°52	2°18	n.a.	S 25
S 26	22 0 59	28°14'52	5♒51	27°23	17°15	12°17	9°24	26°42	9°29	12°47	23°57	16°28	16°49	2°25	n.a.	S 26
M27	22 4 55	29°13'45	18°53	29°12	18°30	12°54	9°35	26°47	9°28	12°48	23°56	16°16	16°46	2°31	n.a.	M27
T 28	22 8 52	0♍12'40	1♓41	1♍ 0	19°45	13°30	9°47	26°51	9°26	12°49	23°55	16° 3	16°42	2°38	n.a.	T 28
W29	22 12 48	1°11'38	14°16	2°47	21° 0	14° 7	9°58	26°56	9°24	12°50	23°54	15°51	16°39	2°45	n.a.	W29
T 30	22 16 45	2°10'37	26°36	4°33	22°15	14°44	10°10	27° 1	9°22	12°51	23°52	15°40	16°36	2°51	n.a.	T 30
F 31	22 20 41	3♍ 9'39	8♈44	6♍18	23♌29	15♋20	10♎22	27♎ 6	9♈20	12♏52	23♒51	15♏32	16♏33	2♉58	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	19n30	4s59	4n48	22n 5	0s41	23n19	0n36	24n21	0n41	0s56	1n11	7s43	2n17	3n23	0s39	14s 6	1n46	28s16	15s45	17s36	17s26	13n 0			n.a.
T 2	19 16	0 37	4 22	22 14	0 25	23 11	0 39	24 23	0 42	1 0	1 11	7 44	2 16	3 23	0 39	14 6	1 46	28 17	15 46	17 33	17 25	13 2			n.a.
F 3	19 2	3n41	3 45	22 21	0 10	23 3	0 41	24 24	0 42	1 4	1 11	7 46	2 16	3 23	0 39	14 6	1 46	28 17	15 46	17 31	17 24	13 3			n.a.
S 4	18 47	7 47	2 57	22 26	0n 4	22 55	0 43	24 25	0 43	1 8	1 11	7 47	2 16	3 23	0 39	14 6	1 46	28 18	15 46	17 30	17 23	13 5			n.a.
S 5	18 32	11 31	2 3	22 28	0 18	22 46	0 45	24 26	0 44	1 12	1 11	7 48	2 16	3 22	0 39	14 7	1 46	28 18	15 46	17 29	17 22	13 6			n.a.
M 6	18 17	14 47	1 3	22 28	0 30	22 36	0 47	24 27	0 44	1 16	1 10	7 50	2 15	3 22	0 39	14 7	1 46	28 19	15 46	17 29	17 21	13 8			n.a.
T 7	18 1	17 27	0 1	22 25	0 42	22 25	0 49	24 28	0 45	1 20	1 10	7 51	2 15	3 22	0 39	14 7	1 46	28 20	15 46	17 29	17 20	13 10			n.a.
W 8	17 46	19 24	1s 2	22 19	0 53	22 14	0 51	24 28	0 46	1 25	1 10	7 52	2 15	3 21	0 39	14 7	1 46	28 20	15 46	17 29	17 19	13 11			n.a.
T 9	17 29	20 29	2 3	22 11	1 3	22 2	0 53	24 28	0 46	1 29	1 10	7 54	2 15	3 21	0 39	14 7	1 46	28 21	15 46	17 28	17 18	13 13			n.a.
F 10	17 13	20 36	3 0	21 59	1 12	21 49	0 55	24 29	0 47	1 33	1 10	7 55	2 14	3 20	0 39	14 7	1 46	28 21	15 47	17 27	17 18	13 14			n.a.
S 11	16 56	19 41	3 49	21 46	1 20	21 36	0 57	24 28	0 48	1 37	1 9	7 57	2 14	3 20	0 39	14 8	1 46	28 22	15 47	17 25	17 17	13 16			n.a.
S 12	16 39	17 41	4 28	21 29	1 26	21 22	0 59	24 28	0 48	1 42	1 9	7 58	2 14	3 20	0 40	14 8	1 46	28 22	15 47	17 23	17 16	13 17			n.a.
M13	16 22	14 41	4 52	21 10	1 32	21 7	1 0	24 28	0 49	1 46	1 9	8 0	2 14	3 19	0 40	14 8	1 46	28 23	15 47	17 19	17 15	13 19			n.a.
T 14	16 4	10 49	5 1	20 48	1 37	20 52	1 2	24 27	0 50	1 50	1 9	8 2	2 14	3 19	0 40	14 8	1 46	28 23	15 47	17 16	17 14	13 21			n.a.
W15	15 46	6 16	4 51	20 24	1 41	20 36	1 4	24 26	0 50	1 55	1 9	8 3	2 13	3 18	0 40	14 8	1 45	28 24	15 47	17 13	17 13	13 22			n.a.
T 16	15 28	1 20	4 22	19 58	1 45	20 20	1 5	24 25	0 51	1 59	1 8	8 5	2 13	3 18	0 40	14 9	1 45	28 24	15 47	17 10	17 12	13 24			n.a.
F 17	15 10	3s43	3 37	19 29	1 47	20 3	1 7	24 24	0 52	2 3	1 8	8 7	2 13	3 17	0 40	14 9	1 45	28 25	15 47	17 7	17 11	13 25			n.a.
S 18	14 51	8 33	2 39	18 59	1 48	19 45	1 8	24 23	0 52	2 8	1 8	8 8	2 13	3 16	0 40	14 9	1 45	28 25	15 47	17 6	17 10	13 27			n.a.
S 19	14 32	12 54	1 30	18 27	1 49	19 27	1 10	24 21	0 53	2 12	1 8	8 10	2 12	3 16	0 40	14 9	1 45	28 26	15 47	17 5	17 9	13 28			n.a.
M20	14 13	16 27	0 16	17 53	1 49	19 9	1 11	24 20	0 54	2 17	1 8	8 12	2 12	3 15	0 40	14 10	1 45	28 26	15 47	17 5	17 9	13 30			n.a.
T 21	13 53	18 59	0n58	17 17	1 49	18 49	1 13	24 18	0 54	2 21	1 7	8 13	2 12	3 15	0 40	14 10	1 45	28 26	15 47	17 5	17 8	13 31			n.a.
W22	13 34	20 21	2 8	16 41	1 48	18 29	1 14	24 16	0 55	2 26	1 7	8 15	2 12	3 14	0 40	14 10	1 45	28 27	15 47	17 5	17 7	13 33			n.a.
T 23	13 14	20 29	3 9	16 3	1 46	18 9	1 15	24 13	0 56	2 31	1 7	8 17	2 12	3 14	0 40	14 10	1 45	28 27	15 47	17 4	17 6	13 34			n.a.
F 24	12 54	19 25	3 59	15 24	1 44	17 48	1 16	24 11	0 56	2 35	1 7	8 19	2 11	3 13	0 40	14 11	1 45	28 28	15 47	17 3	17 5	13 36			n.a.
S 25	12 34	17 16	4 35	14 44	1 41	17 27	1 17	24 9	0 57	2 40	1 7	8 21	2 11	3 12	0 40	14 11	1 45	28 28	15 47	17 0	17 4	13 38			n.a.
S 26	12 13	14 15	4 56	14 3	1 38	17 5	1 18	24 6	0 58	2 45	1 7	8 23	2 11	3 12	0 40	14 11	1 45	28 29	15 47	16 57	17 3	13 39			n.a.
M27	11 52	10 34	5 1	13 21	1 35	16 42	1 19	24 3	0 59	2 49	1 7	8 25	2 11	3 11	0 40	14 12	1 45	28 29	15 47	16 54	17 2	13 41			n.a.
T 28	11 32	6 29	4 50	12 39	1 31	16 20	1 20	24 0	0 59	2 54	1 6	8 27	2 10	3 10	0 40	14 12	1 45	28 30	15 47	16 50	17 1	13 42			n.a.
W29	11 10	2 11	4 25	11 56	1 26	15 56	1 21	23 57	1 0	2 59	1 6	8 28	2 10	3 9	0 40	14 12	1 45	28 30	15 47	16 46	17 0	13 44			n.a.
T 30	10 49	2n 7	3 49	11 13	1 22	15 32	1 22	23 54	1 1	3 4	1 6	8 30	2 10	3 9	0 40	14 13	1 45	28 30	15 47	16 43	16 59	13 45			n.a.
F 31	10n28	6n17	3n 2	10n29	1n17	15n 8	1n22	23n50	1n 1	3s 8	1n 6	8s32	2n10	3n 8	0s40	14s13	1n44	28s31	15s47	16s41	16s58	13n47			n.a.

Julian Day Number = 1661003.5, Delta T = 03h25m44s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'05, Lahiri = - 6°14'04 Julian Calendar 1 Aug. 166 BCE == Greg. Calendar 29 July 166 BCE

The year -165 astronomical counting style corresponds to year 166 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 166 BCE
geocentric

SEPTEMBER 166 BCE (-165) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 24 38	4♍ 8'42	20♈41	8♍ 3	24♌44	15♋57	10♎34	27♎11	9°R19	12♏53	23°R50	15°R27	16♏30	3♉ 5	n.a.	S 1
S 2	22 28 35	5° 7'49	2♉31	9°46	25°59	16°33	10°45	27°16	9♈17	12°54	23♒49	15♏24	16°26	3°11	n.a.	S 2
M 3	22 32 31	6° 6'57	14°18	11°29	27°14	17° 9	10°57	27°22	9°15	12°55	23°48	15°D23	16°23	3°18	n.a.	M 3
T 4	22 36 28	7° 6'09	26° 7	13°11	28°29	17°46	11° 9	27°27	9°13	12°56	23°46	15°23	16°20	3°24	n.a.	T 4
W 5	22 40 24	8° 5'22	8♊ 3	14°51	29°44	18°22	11°21	27°32	9°11	12°58	23°45	15°R24	16°17	3°31	n.a.	W 5
T 6	22 44 21	9° 4'38	20°11	16°32	0♍59	18°58	11°34	27°38	9° 9	12°59	23°44	15°23	16°14	3°38	n.a.	T 6
F 7	22 48 17	10° 3'56	2♋37	18°11	2°14	19°34	11°46	27°43	9° 7	13° 0	23°43	15°21	16°11	3°44	n.a.	F 7
S 8	22 52 14	11° 3'17	15°26	19°49	3°29	20°10	11°58	27°48	9° 5	13° 1	23°42	15°16	16° 7	3°51	n.a.	S 8
S 9	22 56 10	12° 2'40	28°41	21°27	4°44	20°46	12°10	27°54	9° 2	13° 3	23°41	15° 9	16° 4	3°58	n.a.	S 9
M10	23 0 7	13° 2'06	12♌22	23° 4	6° 0	21°22	12°23	28° 0	9° 0	13° 4	23°39	15° 0	16° 1	4° 4	n.a.	M10
T 11	23 4 3	14° 1'34	26°28	24°40	7°15	21°58	12°35	28° 5	8°58	13° 5	23°38	14°50	15°58	4°11	n.a.	T 11
W12	23 8 0	15° 1'04	10♍57	26°16	8°30	22°34	12°48	28°11	8°56	13° 7	23°37	14°40	15°55	4°18	n.a.	W12
T 13	23 11 57	16° 0'36	25°39	27°50	9°45	23°10	13° 0	28°17	8°54	13° 8	23°36	14°31	15°52	4°24	n.a.	T 13
F 14	23 15 53	17° 0'10	10♎29	29°24	11° 0	23°46	13°13	28°23	8°51	13° 9	23°35	14°25	15°48	4°31	n.a.	F 14
S 15	23 19 50	17°59'46	25°18	0♎58	12°15	24°21	13°25	28°28	8°49	13°11	23°34	14°21	15°45	4°38	n.a.	S 15
S 16	23 23 46	18°59'24	9♏58	2°30	13°31	24°57	13°38	28°34	8°47	13°12	23°33	14°D20	15°42	4°44	n.a.	S 16
M17	23 27 43	19°59'04	24°26	4° 2	14°46	25°33	13°51	28°40	8°45	13°14	23°32	14°20	15°39	4°51	n.a.	M17
T 18	23 31 39	20°58'46	8♐37	5°34	16° 1	26° 8	14° 3	28°46	8°42	13°15	23°31	14°21	15°36	4°58	n.a.	T 18
W19	23 35 36	21°58'30	22°31	7° 4	17°17	26°43	14°16	28°52	8°40	13°17	23°30	14°R21	15°32	5° 4	n.a.	W19
T 20	23 39 32	22°58'15	6♑ 8	8°34	18°32	27°19	14°29	28°59	8°38	13°19	23°29	14°20	15°29	5°11	n.a.	T 20
F 21	23 43 29	23°58'03	19°30	10° 4	19°47	27°54	14°42	29° 5	8°35	13°20	23°28	14°18	15°26	5°17	n.a.	F 21
S 22	23 47 26	24°57'52	2♒37	11°32	21° 2	28°29	14°55	29°11	8°33	13°22	23°26	14°12	15°23	5°24	n.a.	S 22
S 23	23 51 22	25°57'43	15°30	13° 1	22°18	29° 4	15° 7	29°17	8°31	13°23	23°25	14° 5	15°20	5°31	n.a.	S 23
M24	23 55 19	26°57'35	28°12	14°28	23°33	29°39	15°20	29°23	8°28	13°25	23°25	13°57	15°17	5°37	n.a.	M24
T 25	23 59 15	27°57'30	10♓41	15°55	24°48	0♌14	15°33	29°30	8°26	13°27	23°24	13°48	15°13	5°44	n.a.	T 25
W26	0 3 12	28°57'26	23° 0	17°20	26° 4	0°49	15°46	29°36	8°23	13°29	23°23	13°40	15°10	5°51	n.a.	W26
T 27	0 7 8	29°57'25	5♈ 9	18°46	27°19	1°24	15°59	29°42	8°21	13°30	23°22	13°33	15° 7	5°57	n.a.	T 27
F 28	0 11 5	0♎57'25	17° 8	20°10	28°34	1°59	16°12	29°49	8°18	13°32	23°21	13°27	15° 4	6° 4	n.a.	F 28
S 29	0 15 1	1°57'28	29° 1	21°34	29°50	2°34	16°25	29°55	8°16	13°34	23°20	13°24	15° 1	6°11	n.a.	S 29
S 30	0 18 58	2♎57'33	10♉49	22♎56	1♎ 5	3♌ 8	16♎39	0♏ 2	8♈13	13♏36	23♒19	13°D23	14♏57	6♉17	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	10n 6	10n 8	2n 8	9n45	1n12	14n44	1n23	23n46	1n 2	3s13	1n 6	8s34	2n10	3n 7	0s40	14s14	1n44	28s31	15s47	16s39	16s58	13n48		n.a.
S 2	9 44	13 33	1 8	9 1	1 6	14 18	1 24	23 43	1 3	3 18	1 6	8 37	2 9	3 6	0 40	14 14	1 44	28 31	15 47	16 38	16 57	13 50		n.a.
M 3	9 22	16 24	0 6	8 16	1 1	13 53	1 24	23 39	1 3	3 23	1 5	8 39	2 9	3 6	0 40	14 14	1 44	28 32	15 47	16 38	16 56	13 51		n.a.
T 4	9 0	18 35	0s57	7 32	0 55	13 27	1 24	23 35	1 4	3 28	1 5	8 41	2 9	3 5	0 40	14 15	1 44	28 32	15 47	16 38	16 55	13 53		n.a.
W 5	8 38	19 58	1 58	6 47	0 49	13 1	1 25	23 30	1 5	3 33	1 5	8 43	2 9	3 4	0 40	14 15	1 44	28 33	15 47	16 38	16 54	13 54		n.a.
T 6	8 15	20 27	2 55	6 2	0 43	12 34	1 25	23 26	1 5	3 38	1 5	8 45	2 9	3 3	0 40	14 16	1 44	28 33	15 47	16 38	16 53	13 56		n.a.
F 7	7 53	19 57	3 44	5 17	0 36	12 7	1 25	23 22	1 6	3 43	1 5	8 47	2 9	3 2	0 40	14 16	1 44	28 33	15 47	16 37	16 52	13 57		n.a.
S 8	7 30	18 26	4 25	4 32	0 30	11 40	1 26	23 17	1 7	3 47	1 5	8 49	2 8	3 2	0 40	14 16	1 44	28 34	15 47	16 36	16 51	13 59		n.a.
S 9	7 7	15 54	4 52	3 47	0 23	11 12	1 26	23 12	1 8	3 52	1 5	8 51	2 8	3 1	0 40	14 17	1 44	28 34	15 47	16 34	16 50	14 0		n.a.
M10	6 44	12 25	5 4	3 2	0 17	10 44	1 26	23 7	1 8	3 57	1 5	8 53	2 8	3 0	0 40	14 17	1 44	28 34	15 46	16 31	16 49	14 1		n.a.
T 11	6 21	8 10	4 58	2 18	0 10	10 16	1 26	23 2	1 9	4 2	1 4	8 56	2 8	2 59	0 40	14 18	1 44	28 35	15 46	16 28	16 48	14 3		n.a.
W12	5 58	3 20	4 33	1 33	0 3	9 48	1 26	22 57	1 10	4 7	1 4	8 58	2 8	2 58	0 40	14 18	1 44	28 35	15 46	16 25	16 47	14 4		n.a.
T 13	5 35	1s46	3 50	0 49	0s 4	9 19	1 25	22 51	1 10	4 12	1 4	9 0	2 8	2 57	0 40	14 19	1 44	28 35	15 46	16 23	16 46	14 6		n.a.
F 14	5 11	6 49	2 51	0 5	0 11	8 50	1 25	22 46	1 11	4 18	1 4	9 2	2 7	2 56	0 40	14 19	1 44	28 35	15 46	16 21	16 46	14 7		n.a.
S 15	4 48	11 27	1 40	0s39	0 17	8 21	1 25	22 40	1 12	4 23	1 4	9 5	2 7	2 55	0 40	14 20	1 44	28 36	15 46	16 20	16 45	14 9		n.a.
S 16	4 24	15 21	0 23	1 23	0 24	7 51	1 25	22 35	1 13	4 28	1 4	9 7	2 7	2 54	0 40	14 20	1 44	28 36	15 46	16 19	16 44	14 10		n.a.
M17	4 1	18 13	0n54	2 6	0 31	7 21	1 24	22 29	1 13	4 33	1 4	9 9	2 7	2 54	0 40	14 21	1 44	28 36	15 46	16 19	16 43	14 12		n.a.
T 18	3 37	19 54	2 7	2 49	0 38	6 51	1 24	22 23	1 14	4 38	1 4	9 11	2 7	2 53	0 40	14 21	1 43	28 36	15 45	16 20	16 42	14 13		n.a.
W19	3 13	20 20	3 11	3 32	0 45	6 21	1 23	22 17	1 15	4 43	1 3	9 14	2 7	2 52	0 40	14 22	1 43	28 37	15 45	16 20	16 41	14 15		n.a.
T 20	2 49	19 32	4 2	4 14	0 52	5 51	1 22	22 10	1 16	4 48	1 3	9 16	2 6	2 51	0 40	14 22	1 43	28 37	15 45	16 19	16 40	14 16		n.a.
F 21	2 25	17 40	4 40	4 56	0 59	5 20	1 22	22 4	1 16	4 53	1 3	9 18	2 6	2 50	0 40	14 23	1 43	28 37	15 45	16 19	16 39	14 17		n.a.
S 22	2 1	14 54	5 2	5 37	1 6	4 50	1 21	21 57	1 17	4 58	1 3	9 21	2 6	2 49	0 40	14 23	1 43	28 37	15 45	16 17	16 38	14 19		n.a.
S 23	1 37	11 28	5 8	6 18	1 12	4 19	1 20	21 51	1 18	5 3	1 3	9 23	2 6	2 48	0 40	14 24	1 43	28 37	15 45	16 15	16 37	14 20		n.a.
M24	1 13	7 34	4 58	6 58	1 19	3 48	1 19	21 44	1 19	5 8	1 3	9 25	2 6	2 47	0 40	14 24	1 43	28 38	15 44	16 12	16 36	14 22		n.a.
T 25	0 49	3 24	4 35	7 38	1 25	3 17	1 18	21 37	1 19	5 14	1 3	9 28	2 6	2 46	0 40	14 25	1 43	28 38	15 44	16 10	16 35	14 23		n.a.
W26	0 25	0n51	3 59	8 18	1 32	2 46	1 18	21 30	1 20	5 19	1 3	9 30	2 6	2 45	0 40	14 26	1 43	28 38	15 44	16 7	16 34	14 25		n.a.
T 27	0 1	5 0	3 12	8 56	1 38	2 15	1 16	21 23	1 21	5 24	1 3	9 32	2 5	2 44	0 40	14 26	1 43	28 38	15 44	16 5	16 33	14 26		n.a.
F 28	0s23	8 55	2 18	9 34	1 44	1 43	1 15	21 16	1 22	5 29	1 3	9 35	2 5	2 43	0 40	14 27	1 43	28 38	15 44	16 3	16 32	14 27		n.a.
S 29	0 47	12 27	1 17	10 12	1 50	1 12	1 14	21 9	1 22	5 34	1 2	9 37	2 5	2 42	0 40	14 27	1 43	28 38	15 43	16 2	16 31	14 29		n.a.
S 30	1s11	15n28	0n14	10s49	1s56	0n41	1n13	21n 2	1n23	5s39	1n 2	9s40	2n 5	2n41	0s40	14s28	1n43	28s39	15s43	16s 2	16s31	14n30		n.a.

Julian Day Number = 1661034.5, Delta T = 03h25m43s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°21'01, Lahiri = - 6°14'00 Julian Calendar 1 Sept. 166 BCE == Greg. Calendar 29 Aug. 166 BCE

The year -165 astronomical counting style corresponds to year 166 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 166 BCE
geocentric

OCTOBER 166 BCE (-165) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 22 54	3♎57'40	22♉35	24♎18	2♎21	3♌43	16♎52	0♏ 8	8°R11	13♏37	23°R18	13♏23	14♏54	6♉24	n.a.	M 1
T 2	0 26 51	4°57'49	4♊23	25°39	3°36	4°17	17° 5	0°15	8♈ 9	13°39	23♒17	13°25	14°51	6°31	n.a.	T 2
W 3	0 30 48	5°58'00	16°18	26°59	4°51	4°52	17°18	0°22	8° 6	13°41	23°16	13°26	14°48	6°37	n.a.	W 3
T 4	0 34 44	6°58'13	28°25	28°18	6° 7	5°26	17°31	0°28	8° 4	13°43	23°15	13°28	14°45	6°44	n.a.	T 4
F 5	0 38 41	7°58'29	10♋48	29°35	7°22	6° 0	17°45	0°35	8° 1	13°45	23°15	13°R28	14°42	6°51	n.a.	F 5
S 6	0 42 37	8°58'47	23°32	0♏51	8°38	6°34	17°58	0°42	7°59	13°47	23°14	13°27	14°38	6°57	n.a.	S 6
S 7	0 46 34	9°59'06	6♌42	2° 5	9°53	7° 8	18°11	0°48	7°56	13°49	23°13	13°24	14°35	7° 4	n.a.	S 7
M 8	0 50 30	10°59'28	20°20	3°18	11° 9	7°42	18°24	0°55	7°54	13°51	23°12	13°21	14°32	7°10	n.a.	M 8
T 9	0 54 27	11°59'52	4♍26	4°29	12°24	8°16	18°38	1° 2	7°51	13°53	23°12	13°16	14°29	7°17	n.a.	T 9
W10	0 58 23	13° 0'18	18°58	5°38	13°40	8°50	18°51	1° 9	7°49	13°55	23°11	13°11	14°26	7°24	n.a.	W10
T 11	1 2 20	14° 0'46	3♎51	6°44	14°55	9°24	19° 4	1°15	7°46	13°57	23°10	13° 7	14°23	7°30	n.a.	T 11
F 12	1 6 17	15° 1'15	18°56	7°48	16°11	9°57	19°18	1°22	7°44	13°59	23° 9	13° 4	14°19	7°37	n.a.	F 12
S 13	1 10 13	16° 1'47	4♏ 5	8°49	17°26	10°31	19°31	1°29	7°41	14° 1	23° 9	13° 2	14°16	7°44	n.a.	S 13
S 14	1 14 10	17° 2'19	19° 8	9°46	18°42	11° 4	19°44	1°36	7°39	14° 3	23° 8	13°D 2	14°13	7°50	n.a.	S 14
M15	1 18 6	18° 2'54	3♐56	10°40	19°57	11°38	19°58	1°43	7°36	14° 5	23° 7	13° 3	14°10	7°57	n.a.	M15
T 16	1 22 3	19° 3'30	18°25	11°29	21°13	12°11	20°11	1°50	7°34	14° 7	23° 7	13° 5	14° 7	8° 4	n.a.	T 16
W17	1 25 59	20° 4'07	2♑31	12°14	22°28	12°44	20°24	1°57	7°32	14° 9	23° 6	13° 6	14° 3	8°10	n.a.	W17
T 18	1 29 56	21° 4'46	16°13	12°53	23°44	13°17	20°38	2° 4	7°29	14°11	23° 6	13°R 7	14° 0	8°17	n.a.	T 18
F 19	1 33 52	22° 5'26	29°33	13°26	24°59	13°50	20°51	2°11	7°27	14°13	23° 5	13° 7	13°57	8°24	n.a.	F 19
S 20	1 37 49	23° 6'07	12♒32	13°53	26°15	14°23	21° 4	2°18	7°24	14°16	23° 5	13° 6	13°54	8°30	n.a.	S 20
S 21	1 41 46	24° 6'49	25°14	14°12	27°30	14°56	21°18	2°25	7°22	14°18	23° 4	13° 4	13°51	8°37	n.a.	S 21
M22	1 45 42	25° 7'32	7♓41	14°23	28°46	15°28	21°31	2°32	7°20	14°20	23° 4	13° 1	13°48	8°44	n.a.	M22
T 23	1 49 39	26° 8'17	19°56	14°R24	0♏ 1	16° 1	21°44	2°39	7°17	14°22	23° 3	12°58	13°44	8°50	n.a.	T 23
W24	1 53 35	27° 9'03	2♈ 1	14°16	1°16	16°33	21°58	2°46	7°15	14°24	23° 3	12°55	13°41	8°57	n.a.	W24
T 25	1 57 32	28° 9'50	13°58	13°58	2°32	17° 6	22°11	2°53	7°13	14°26	23° 2	12°53	13°38	9° 3	n.a.	T 25
F 26	2 1 28	29°10'38	25°50	13°29	3°47	17°38	22°25	3° 0	7°11	14°29	23° 2	12°52	13°35	9°10	n.a.	F 26
S 27	2 5 25	0♏11'28	7♉39	12°50	5° 3	18°10	22°38	3° 7	7° 8	14°31	23° 2	12°D51	13°32	9°17	n.a.	S 27
S 28	2 9 21	1°12'20	19°27	11°59	6°18	18°42	22°51	3°14	7° 6	14°33	23° 1	12°51	13°29	9°23	n.a.	S 28
M29	2 13 18	2°13'12	1♊15	10°59	7°34	19°14	23° 4	3°21	7° 4	14°35	23° 1	12°52	13°25	9°30	n.a.	M29
T 30	2 17 15	3°14'06	13° 7	9°50	8°49	19°45	23°18	3°28	7° 2	14°37	23° 1	12°53	13°22	9°37	n.a.	T 30
W31	2 21 11	4♏15'02	25♊ 5	8♏35	10♏ 5	20♌17	23♎31	3♏35	7♈ 0	14♏40	23♒ 0	12♏54	13♏19	9♉43	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	1s36	17n49	0s50	11s24	2s 2	0n 9	1n12	20n54	1n24	5s44	1n 2	9s42	2n 5	2n40	0s40	14s28	1n43	28s39	15s43	16s 2	16s30	14n32			n.a.
T 2	2 0	19 26	1 52	12 0	2 7	0s22	1 10	20 47	1 25	5 50	1 2	9 45	2 5	2 39	0 40	14 29	1 43	28 39	15 43	16 3	16 29	14 33			n.a.
W 3	2 24	20 11	2 50	12 34	2 12	0 54	1 9	20 39	1 25	5 55	1 2	9 47	2 5	2 38	0 40	14 30	1 43	28 39	15 43	16 3	16 28	14 34			n.a.
T 4	2 48	20 1	3 42	13 7	2 17	1 25	1 8	20 31	1 26	6 0	1 2	9 49	2 5	2 37	0 40	14 30	1 43	28 39	15 42	16 4	16 27	14 36			n.a.
F 5	3 12	18 53	4 24	13 39	2 22	1 57	1 6	20 23	1 27	6 5	1 2	9 52	2 5	2 36	0 40	14 31	1 43	28 39	15 42	16 4	16 26	14 37			n.a.
S 6	3 36	16 48	4 54	14 10	2 26	2 28	1 5	20 15	1 28	6 10	1 2	9 54	2 4	2 35	0 40	14 31	1 43	28 39	15 42	16 3	16 25	14 39			n.a.
S 7	4 0	13 48	5 11	14 40	2 30	3 0	1 3	20 7	1 28	6 15	1 2	9 57	2 4	2 34	0 40	14 32	1 43	28 39	15 42	16 3	16 24	14 40			n.a.
M 8	4 24	9 58	5 11	15 9	2 33	3 31	1 2	19 59	1 29	6 21	1 2	9 59	2 4	2 33	0 40	14 33	1 43	28 39	15 41	16 1	16 23	14 41			n.a.
T 9	4 48	5 28	4 52	15 37	2 37	4 2	1 0	19 51	1 30	6 26	1 2	10 2	2 4	2 32	0 40	14 33	1 43	28 39	15 41	16 0	16 22	14 43			n.a.
W10	5 12	0 31	4 14	16 3	2 39	4 34	0 58	19 43	1 31	6 31	1 2	10 4	2 4	2 31	0 40	14 34	1 43	28 39	15 41	15 59	16 21	14 44			n.a.
T 11	5 35	4s35	3 19	16 27	2 41	5 5	0 56	19 35	1 32	6 36	1 2	10 7	2 4	2 30	0 40	14 35	1 42	28 39	15 41	15 57	16 20	14 45			n.a.
F 12	5 59	9 29	2 9	16 50	2 43	5 36	0 55	19 26	1 32	6 41	1 2	10 9	2 4	2 29	0 40	14 35	1 42	28 39	15 40	15 56	16 19	14 47			n.a.
S 13	6 23	13 48	0 49	17 11	2 44	6 7	0 53	19 18	1 33	6 46	1 1	10 11	2 4	2 28	0 40	14 36	1 42	28 39	15 40	15 56	16 18	14 48			n.a.
S 14	6 46	17 10	0n34	17 30	2 44	6 37	0 51	19 9	1 34	6 52	1 1	10 14	2 4	2 27	0 40	14 37	1 42	28 39	15 40	15 56	16 17	14 49			n.a.
M15	7 9	19 20	1 53	17 47	2 44	7 8	0 49	19 1	1 35	6 57	1 1	10 16	2 4	2 26	0 40	14 37	1 42	28 39	15 39	15 56	16 16	14 51			n.a.
T 16	7 33	20 10	3 3	18 2	2 43	7 38	0 47	18 52	1 36	7 2	1 1	10 19	2 4	2 26	0 40	14 38	1 42	28 39	15 39	15 57	16 15	14 52			n.a.
W17	7 56	19 41	4 0	18 14	2 41	8 9	0 45	18 43	1 37	7 7	1 1	10 21	2 3	2 25	0 40	14 38	1 42	28 39	15 39	15 57	16 14	14 53			n.a.
T 18	8 19	18 3	4 42	18 23	2 38	8 39	0 43	18 35	1 37	7 12	1 1	10 24	2 3	2 24	0 40	14 39	1 42	28 39	15 39	15 57	16 13	14 55			n.a.
F 19	8 42	15 28	5 7	18 29	2 33	9 9	0 41	18 26	1 38	7 17	1 1	10 26	2 3	2 23	0 40	14 40	1 42	28 39	15 38	15 57	16 12	14 56			n.a.
S 20	9 5	12 11	5 16	18 32	2 28	9 38	0 39	18 17	1 39	7 22	1 1	10 29	2 3	2 22	0 40	14 40	1 42	28 39	15 38	15 57	16 12	14 57			n.a.
S 21	9 27	8 25	5 9	18 32	2 21	10 8	0 37	18 8	1 40	7 27	1 1	10 31	2 3	2 21	0 40	14 41	1 42	28 39	15 38	15 56	16 11	14 59			n.a.
M22	9 50	4 21	4 47	18 27	2 13	10 37	0 35	17 59	1 41	7 32	1 1	10 34	2 3	2 20	0 40	14 42	1 42	28 39	15 37	15 55	16 10	15 0			n.a.
T 23	10 12	0 10	4 13	18 19	2 4	11 6	0 32	17 50	1 42	7 38	1 1	10 36	2 3	2 19	0 40	14 42	1 42	28 38	15 37	15 55	16 9	15 1			n.a.
W24	10 34	3n59	3 28	18 6	1 53	11 35	0 30	17 41	1 42	7 43	1 1	10 39	2 3	2 18	0 40	14 43	1 42	28 38	15 37	15 54	16 8	15 3			n.a.
T 25	10 57	7 55	2 33	17 48	1 40	12 3	0 28	17 32	1 43	7 48	1 1	10 41	2 3	2 17	0 40	14 44	1 42	28 38	15 37	15 53	16 7	15 4			n.a.
F 26	11 18	11 32	1 33	17 26	1 26	12 31	0 26	17 23	1 44	7 53	1 1	10 44	2 3	2 16	0 40	14 44	1 42	28 38	15 36	15 53	16 6	15 5			n.a.
S 27	11 40	14 41	0 29	16 58	1 10	12 59	0 23	17 13	1 45	7 58	1 1	10 46	2 3	2 15	0 40	14 45	1 42	28 38	15 36	15 52	16 5	15 7			n.a.
S 28	12 2	17 12	0s37	16 26	0 52	13 27	0 21	17 4	1 46	8 3	1 1	10 48	2 3	2 15	0 40	14 46	1 42	28 38	15 36	15 52	16 4	15 8			n.a.
M29	12 23	19 0	1 40	15 49	0 34	13 54	0 19	16 55	1 47	8 8	1 1	10 51	2 3	2 14	0 40	14 46	1 42	28 37	15 35	15 53	16 3	15 9			n.a.
T 30	12 44	19 59	2 40	15 9	0 14	14 21	0 16	16 46	1 48	8 13	1 1	10 53	2 3	2 13	0 40	14 47	1 42	28 37	15 35	15 53	16 2	15 11			n.a.
W31	13s 5	20n 3	3s34	14s25	0n 7	14s47	0n14	16n36	1n49	8s18	1n 1	10s56	2n 3	2n12	0s40	14s48	1n42	28s37	15s35	15s53	16s 1	15n12			n.a.

Julian Day Number = 1661064.5, Delta T = 03h25m42s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°20'56, Lahiri = - 6°13'56 Julian Calendar 1 Oct. 166 BCE == Greg. Calendar 28 Sept. 166 BCE

The year -165 astronomical counting style corresponds to year 166 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 166 BCE
geocentric

NOVEMBER 166 BCE (-165) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 25 8	5♏15'59	7♋14	7°R14	11♏20	20♌49	23♎44	3♏42	6°R58	14♏42	23°R 0	12♏55	13♏16	9♉50	n.a.	T 1
F 2	2 29 4	6°16'57	19°37	5♏52	12°36	21°20	23°57	3°49	6♈56	14°44	23♒ 0	12°55	13°13	9°57	n.a.	F 2
S 3	2 33 1	7°17'56	2♌18	4°30	13°51	21°51	24°11	3°56	6°53	14°46	23° 0	12°R56	13° 9	10° 3	n.a.	S 3
S 4	2 36 57	8°18'57	15°20	3°11	15° 7	22°22	24°24	4° 3	6°51	14°49	23° 0	12°56	13° 6	10°10	n.a.	S 4
M 5	2 40 54	9°19'59	28°48	1°59	16°22	22°53	24°37	4°10	6°49	14°51	22°59	12°55	13° 3	10°17	n.a.	M 5
T 6	2 44 50	10°21'03	12♍42	0°55	17°37	23°24	24°50	4°17	6°48	14°53	22°59	12°55	13° 0	10°23	n.a.	T 6
W 7	2 48 47	11°22'08	27° 3	29♎59	18°53	23°55	25° 3	4°24	6°46	14°55	22°59	12°55	12°57	10°30	n.a.	W 7
T 8	2 52 44	12°23'13	11♎47	29°16	20° 8	24°25	25°16	4°31	6°44	14°58	22°59	12°55	12°54	10°36	n.a.	T 8
F 9	2 56 40	13°24'20	26°50	28°43	21°24	24°56	25°30	4°38	6°42	15° 0	22°59	12°D55	12°50	10°43	n.a.	F 9
S 10	3 0 37	14°25'28	12♏ 3	28°22	22°39	25°26	25°43	4°45	6°40	15° 2	22°59	12°R55	12°47	10°50	n.a.	S 10
S 11	3 4 33	15°26'37	27°16	28°D12	23°55	25°56	25°56	4°52	6°38	15° 4	22°D59	12°55	12°44	10°56	n.a.	S 11
M12	3 8 30	16°27'47	12♐20	28°13	25°10	26°26	26° 9	4°59	6°36	15° 7	22°59	12°54	12°41	11° 3	n.a.	M12
T 13	3 12 26	17°28'57	27° 6	28°23	26°26	26°56	26°22	5° 6	6°35	15° 9	22°59	12°54	12°38	11°10	n.a.	T 13
W14	3 16 23	18°30'08	11♑28	28°42	27°41	27°25	26°35	5°13	6°33	15°11	22°59	12°53	12°34	11°16	n.a.	W14
T 15	3 20 19	19°31'19	25°23	29°10	28°56	27°55	26°47	5°20	6°31	15°14	22°59	12°53	12°31	11°23	n.a.	T 15
F 16	3 24 16	20°32'31	8♒51	29°44	0♐12	28°24	27° 0	5°27	6°30	15°16	22°59	12°52	12°28	11°30	n.a.	F 16
S 17	3 28 13	21°33'42	21°53	0♏26	1°27	28°53	27°13	5°33	6°28	15°18	23° 0	12°D52	12°25	11°36	n.a.	S 17
S 18	3 32 9	22°34'54	4♓33	1°13	2°43	29°22	27°26	5°40	6°27	15°20	23° 0	12°52	12°22	11°43	n.a.	S 18
M19	3 36 6	23°36'06	16°54	2° 6	3°58	29°51	27°39	5°47	6°25	15°23	23° 0	12°53	12°19	11°50	n.a.	M19
T 20	3 40 2	24°37'19	29° 1	3° 3	5°13	0♍19	27°51	5°54	6°24	15°25	23° 0	12°54	12°15	11°56	n.a.	T 20
W21	3 43 59	25°38'31	10♈58	4° 3	6°29	0°48	28° 4	6° 1	6°22	15°27	23° 0	12°55	12°12	12° 3	n.a.	W21
T 22	3 47 55	26°39'44	22°48	5° 8	7°44	1°16	28°16	6° 8	6°21	15°29	23° 1	12°57	12° 9	12°10	n.a.	T 22
F 23	3 51 52	27°40'57	4♉36	6°15	8°59	1°44	28°29	6°14	6°20	15°32	23° 1	12°57	12° 6	12°16	n.a.	F 23
S 24	3 55 48	28°42'11	16°23	7°26	10°15	2°12	28°41	6°21	6°19	15°34	23° 1	12°R58	12° 3	12°23	n.a.	S 24
S 25	3 59 45	29°43'24	28°13	8°38	11°30	2°39	28°54	6°28	6°17	15°36	23° 2	12°57	12° 0	12°29	n.a.	S 25
M26	4 3 42	0♐44'38	10♊ 7	9°53	12°45	3° 7	29° 6	6°34	6°16	15°38	23° 2	12°55	11°56	12°36	n.a.	M26
T 27	4 7 38	1°45'52	22° 8	11° 9	14° 0	3°34	29°19	6°41	6°15	15°40	23° 2	12°53	11°53	12°43	n.a.	T 27
W28	4 11 35	2°47'07	4♋17	12°28	15°16	4° 1	29°31	6°47	6°14	15°43	23° 3	12°49	11°50	12°49	n.a.	W28
T 29	4 15 31	3°48'21	16°36	13°47	16°31	4°27	29°43	6°54	6°13	15°45	23° 3	12°46	11°47	12°56	n.a.	T 29
F 30	4 19 28	4♐49'36	29♋ 6	15♏ 8	17♐46	4♍54	29♎55	7♏ 1	6♈12	15♏47	23♒ 4	12♏43	11♏44	13♉ 3	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s26	19n12	4s19	13s39	0n27	15s13	0n12	16n27	1n50	8s23	1n 1	10s58	2n 3	2n11	0s40	14s49	1n42	28s37	15s34	15s53	16s 0	15n13		n.a.
F 2	13 46	17 26	4 52	12 53	0 48	15 39	0 9	16 18	1 50	8 28	1 1	11 1	2 3	2 10	0 40	14 49	1 42	28 37	15 34	15 54	15 59	15 15		n.a.
S 3	14 6	14 48	5 13	12 7	1 7	16 4	0 7	16 8	1 51	8 33	1 1	11 3	2 3	2 10	0 40	14 50	1 42	28 36	15 34	15 54	15 58	15 16		n.a.
S 4	14 26	11 21	5 18	11 23	1 26	16 29	0 5	15 59	1 52	8 37	1 1	11 5	2 3	2 9	0 40	14 51	1 42	28 36	15 33	15 54	15 57	15 17		n.a.
M 5	14 46	7 15	5 6	10 42	1 42	16 53	0 2	15 49	1 53	8 42	1 1	11 8	2 3	2 8	0 40	14 51	1 42	28 36	15 33	15 54	15 56	15 18		n.a.
T 6	15 6	2 37	4 36	10 6	1 57	17 17	0s 0	15 40	1 54	8 47	1 1	11 10	2 3	2 7	0 40	14 52	1 42	28 36	15 33	15 54	15 55	15 20		n.a.
W 7	15 25	2s18	3 49	9 35	2 10	17 41	0 3	15 31	1 55	8 52	1 1	11 13	2 3	2 7	0 40	14 53	1 42	28 35	15 32	15 54	15 54	15 21		n.a.
T 8	15 44	7 14	2 45	9 9	2 20	18 4	0 5	15 21	1 56	8 57	1 1	11 15	2 3	2 6	0 39	14 53	1 42	28 35	15 32	15 53	15 53	15 22		n.a.
F 9	16 3	11 50	1 28	8 50	2 29	18 26	0 7	15 12	1 57	9 2	1 1	11 17	2 3	2 5	0 39	14 54	1 42	28 35	15 32	15 53	15 52	15 23		n.a.
S 10	16 21	15 42	0 5	8 36	2 35	18 48	0 10	15 2	1 58	9 7	1 1	11 20	2 3	2 4	0 39	14 55	1 42	28 34	15 31	15 54	15 51	15 25		n.a.
S 11	16 39	18 29	1n19	8 28	2 40	19 10	0 12	14 53	1 59	9 11	1 1	11 22	2 3	2 4	0 39	14 55	1 42	28 34	15 31	15 53	15 50	15 26		n.a.
M12	16 57	19 57	2 37	8 26	2 42	19 31	0 15	14 43	2 0	9 16	1 1	11 24	2 3	2 3	0 39	14 56	1 42	28 34	15 31	15 53	15 49	15 27		n.a.
T 13	17 15	19 59	3 42	8 28	2 44	19 51	0 17	14 34	2 1	9 21	1 1	11 27	2 3	2 2	0 39	14 57	1 42	28 34	15 30	15 53	15 48	15 28		n.a.
W14	17 32	18 42	4 32	8 36	2 43	20 11	0 19	14 25	2 2	9 25	1 1	11 29	2 3	2 2	0 39	14 57	1 42	28 33	15 30	15 53	15 47	15 30		n.a.
T 15	17 49	16 20	5 3	8 47	2 42	20 30	0 22	14 15	2 3	9 30	1 1	11 31	2 3	2 1	0 39	14 58	1 42	28 33	15 30	15 53	15 46	15 31		n.a.
F 16	18 5	13 9	5 17	9 1	2 40	20 49	0 24	14 6	2 4	9 35	1 1	11 34	2 3	2 1	0 39	14 59	1 42	28 32	15 29	15 53	15 45	15 32		n.a.
S 17	18 22	9 25	5 14	9 19	2 36	21 7	0 26	13 56	2 5	9 39	1 1	11 36	2 3	2 0	0 39	14 59	1 42	28 32	15 29	15 53	15 44	15 33		n.a.
S 18	18 38	5 22	4 56	9 39	2 32	21 25	0 29	13 47	2 6	9 44	1 1	11 38	2 3	1 59	0 39	15 0	1 42	28 32	15 29	15 53	15 43	15 35		n.a.
M19	18 53	1 11	4 24	10 2	2 27	21 42	0 31	13 38	2 7	9 49	1 1	11 40	2 3	1 59	0 39	15 1	1 42	28 31	15 28	15 53	15 42	15 36		n.a.
T 20	19 8	2n58	3 41	10 27	2 22	21 58	0 33	13 29	2 8	9 53	1 1	11 43	2 3	1 58	0 39	15 1	1 42	28 31	15 28	15 53	15 41	15 37		n.a.
W21	19 23	6 58	2 49	10 53	2 16	22 13	0 36	13 19	2 9	9 58	1 1	11 45	2 3	1 58	0 39	15 2	1 42	28 31	15 28	15 54	15 40	15 38		n.a.
T 22	19 38	10 40	1 50	11 21	2 10	22 28	0 38	13 10	2 10	10 2	1 1	11 47	2 3	1 57	0 39	15 3	1 42	28 30	15 27	15 54	15 39	15 40		n.a.
F 23	19 52	13 55	0 46	11 49	2 3	22 43	0 40	13 1	2 11	10 7	1 1	11 49	2 3	1 57	0 39	15 3	1 42	28 30	15 27	15 54	15 38	15 41		n.a.
S 24	20 6	16 37	0s19	12 19	1 56	22 56	0 42	12 52	2 12	10 11	1 1	11 52	2 3	1 56	0 39	15 4	1 42	28 29	15 27	15 54	15 37	15 42		n.a.
S 25	20 19	18 38	1 24	12 49	1 49	23 9	0 45	12 43	2 13	10 16	1 1	11 54	2 3	1 56	0 39	15 4	1 42	28 29	15 26	15 54	15 36	15 43		n.a.
M26	20 32	19 50	2 25	13 20	1 42	23 21	0 47	12 34	2 14	10 20	1 1	11 56	2 3	1 55	0 39	15 5	1 42	28 28	15 26	15 54	15 36	15 44		n.a.
T 27	20 45	20 9	3 20	13 51	1 34	23 33	0 49	12 25	2 15	10 24	1 1	11 58	2 3	1 55	0 39	15 6	1 42	28 28	15 26	15 53	15 35	15 46		n.a.
W28	20 57	19 32	4 7	14 23	1 27	23 44	0 51	12 16	2 16	10 29	1 1	12 0	2 3	1 55	0 39	15 6	1 42	28 28	15 25	15 52	15 34	15 47		n.a.
T 29	21 9	17 59	4 43	14 54	1 19	23 54	0 53	12 7	2 17	10 33	1 1	12 2	2 3	1 54	0 39	15 7	1 42	28 27	15 25	15 51	15 33	15 48		n.a.
F 30	21s21	15n35	5s 6	15s25	1n11	24s 3	0s55	11n58	2n18	10s37	1n 1	12s 4	2n 3	1n54	0s39	15s 8	1n42	28s27	15s25	15s50	15s32	15n49		n.a.

Julian Day Number = 1661095.5, Delta T = 03h25m41s
Ecliptic obliquity = 23°42'48, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°20'52, Lahiri = - 6°13'52 Julian Calendar 1 Nov. 166 BCE == Greg. Calendar 29 Oct. 166 BCE

The year -165 astronomical counting style corresponds to year 166 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 166 BCE
geocentric

DECEMBER 166 BCE (-165) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 23 24	5♐50'51	11♌51	16♏30	19♐ 2	5♍20	0♏ 7	7♏ 7	6°R11	15♏49	23♒ 4	12°R40	11♏40	13♉ 9	n.a.	S 1
S 2	4 27 21	6°52'07	24°53	17°53	20°17	5°46	0°19	7°13	6♈10	15°51	23° 5	12♏38	11°37	13°16	n.a.	S 2
M 3	4 31 17	7°53'22	8♍13	19°17	21°32	6°12	0°31	7°20	6° 9	15°53	23° 5	12°D38	11°34	13°23	n.a.	M 3
T 4	4 35 14	8°54'38	21°55	20°42	22°47	6°38	0°43	7°26	6° 9	15°56	23° 6	12°38	11°31	13°29	n.a.	T 4
W 5	4 39 11	9°55'54	5♎58	22° 8	24° 2	7° 3	0°55	7°33	6° 8	15°58	23° 6	12°39	11°28	13°36	n.a.	W 5
T 6	4 43 7	10°57'10	20°23	23°34	25°18	7°28	1° 7	7°39	6° 7	16° 0	23° 7	12°41	11°25	13°43	n.a.	T 6
F 7	4 47 4	11°58'26	5♏ 7	25° 1	26°33	7°53	1°19	7°45	6° 7	16° 2	23° 8	12°R42	11°21	13°49	n.a.	F 7
S 8	4 51 0	12°59'43	20° 4	26°29	27°48	8°18	1°30	7°51	6° 6	16° 4	23° 8	12°42	11°18	13°56	n.a.	S 8
S 9	4 54 57	14° 0'59	5♐ 8	27°57	29° 3	8°42	1°42	7°57	6° 5	16° 6	23° 9	12°41	11°15	14° 2	n.a.	S 9
M10	4 58 53	15° 2'15	20°10	29°26	0♑18	9° 6	1°53	8° 4	6° 5	16° 8	23°10	12°37	11°12	14° 9	n.a.	M10
T 11	5 2 50	16° 3'30	5♑ 0	0♐55	1°34	9°30	2° 5	8°10	6° 5	16°10	23°10	12°33	11° 9	14°16	n.a.	T 11
W12	5 6 47	17° 4'45	19°31	2°25	2°49	9°53	2°16	8°16	6° 4	16°12	23°11	12°27	11° 6	14°22	n.a.	W12
T 13	5 10 43	18° 6'00	3♒37	3°55	4° 4	10°16	2°27	8°22	6° 4	16°14	23°12	12°22	11° 2	14°29	n.a.	T 13
F 14	5 14 40	19° 7'13	17°15	5°26	5°19	10°39	2°38	8°28	6° 4	16°16	23°13	12°17	10°59	14°36	n.a.	F 14
S 15	5 18 36	20° 8'26	0♓25	6°58	6°34	11° 1	2°50	8°33	6° 3	16°18	23°13	12°13	10°56	14°42	n.a.	S 15
S 16	5 22 33	21° 9'38	13° 9	8°30	7°49	11°24	3° 1	8°39	6° 3	16°20	23°14	12°11	10°53	14°49	n.a.	S 16
M17	5 26 29	22°10'49	25°32	10° 2	9° 4	11°45	3°12	8°45	6° 3	16°22	23°15	12°D11	10°50	14°56	n.a.	M17
T 18	5 30 26	23°11'59	7♈38	11°35	10°19	12° 7	3°22	8°51	6° 3	16°24	23°16	12°12	10°46	15° 2	n.a.	T 18
W19	5 34 22	24°13'08	19°32	13° 8	11°34	12°28	3°33	8°56	6°D 3	16°26	23°17	12°13	10°43	15° 9	n.a.	W19
T 20	5 38 19	25°14'17	1♉20	14°42	12°49	12°49	3°44	9° 2	6° 3	16°28	23°18	12°15	10°40	15°16	n.a.	T 20
F 21	5 42 16	26°15'24	13° 6	16°17	14° 4	13°10	3°54	9° 7	6° 3	16°29	23°19	12°R16	10°37	15°22	n.a.	F 21
S 22	5 46 12	27°16'30	24°55	17°52	15°19	13°30	4° 5	9°13	6° 3	16°31	23°20	12°15	10°34	15°29	n.a.	S 22
S 23	5 50 9	28°17'36	6♊49	19°27	16°34	13°49	4°15	9°18	6° 3	16°33	23°21	12°11	10°31	15°36	n.a.	S 23
M24	5 54 5	29°18'40	18°52	21° 3	17°49	14° 9	4°25	9°24	6° 4	16°35	23°21	12° 6	10°27	15°42	n.a.	M24
T 25	5 58 2	0♑19'44	1♋ 5	22°40	19° 4	14°28	4°36	9°29	6° 4	16°37	23°23	11°59	10°24	15°49	n.a.	T 25
W26	6 1 58	1°20'47	13°29	24°17	20°19	14°47	4°46	9°34	6° 4	16°38	23°24	11°49	10°21	15°55	n.a.	W26
T 27	6 5 55	2°21'48	26° 5	25°55	21°34	15° 5	4°56	9°39	6° 5	16°40	23°25	11°40	10°18	16° 2	n.a.	T 27
F 28	6 9 51	3°22'49	8♌53	27°34	22°49	15°23	5° 6	9°44	6° 5	16°42	23°26	11°30	10°15	16° 9	n.a.	F 28
S 29	6 13 48	4°23'49	21°53	29°13	24° 3	15°40	5°15	9°50	6° 6	16°44	23°27	11°22	10°12	16°15	n.a.	S 29
S 30	6 17 45	5°24'48	5♍ 5	0♑53	25°18	15°57	5°25	9°54	6° 6	16°45	23°28	11°16	10° 8	16°22	n.a.	S 30
M31	6 21 41	6♑25'46	18♍30	2♑34	26♑33	16♍13	5♏34	9♏59	6♈ 7	16♏47	23♒29	11♏12	10♏ 5	16♉29	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s32	12n23	5s15	15s57	1n 4	24s12	0s57	11n49	2n20	10s42	1n 1	12s 6	2n 3	1n53	0s39	15s 8	1n42	28s26	15s24	15s49	15s31	15n50		n.a.
S 2	21 42	8 32	5 8	16 28	0 56	24 20	0 59	11 40	2 21	10 46	1 1	12 8	2 3	1 53	0 39	15 9	1 42	28 26	15 24	15 48	15 30	15 52		n.a.
M 3	21 53	4 11	4 44	16 58	0 48	24 27	1 1	11 32	2 22	10 50	1 1	12 11	2 3	1 53	0 39	15 9	1 42	28 25	15 24	15 48	15 29	15 53		n.a.
T 4	22 2	0s29	4 4	17 29	0 41	24 33	1 3	11 23	2 23	10 54	1 1	12 13	2 3	1 53	0 39	15 10	1 42	28 25	15 23	15 48	15 28	15 54		n.a.
W 5	22 12	5 17	3 9	17 59	0 33	24 39	1 5	11 15	2 24	10 58	1 1	12 15	2 3	1 52	0 39	15 11	1 42	28 24	15 23	15 49	15 27	15 55		n.a.
T 6	22 21	9 54	2 0	18 28	0 25	24 44	1 6	11 6	2 25	11 2	1 1	12 17	2 3	1 52	0 39	15 11	1 42	28 24	15 23	15 49	15 26	15 56		n.a.
F 7	22 29	14 2	0 42	18 57	0 18	24 48	1 8	10 58	2 26	11 7	1 1	12 18	2 4	1 52	0 39	15 12	1 42	28 23	15 22	15 50	15 25	15 57		n.a.
S 8	22 37	17 19	0n40	19 25	0 11	24 51	1 10	10 50	2 28	11 11	1 1	12 20	2 4	1 52	0 39	15 12	1 42	28 23	15 22	15 50	15 24	15 59		n.a.
S 9	22 45	19 26	2 0	19 53	0 3	24 54	1 11	10 42	2 29	11 15	1 1	12 22	2 4	1 51	0 38	15 13	1 42	28 22	15 22	15 49	15 23	16 0		n.a.
M10	22 52	20 10	3 11	20 19	0s 4	24 56	1 13	10 34	2 30	11 19	1 1	12 24	2 4	1 51	0 38	15 14	1 42	28 22	15 21	15 48	15 22	16 1		n.a.
T 11	22 58	19 29	4 8	20 45	0 11	24 57	1 15	10 26	2 31	11 22	1 1	12 26	2 4	1 51	0 38	15 14	1 42	28 21	15 21	15 47	15 21	16 2		n.a.
W12	23 5	17 32	4 48	21 11	0 18	24 57	1 16	10 18	2 32	11 26	1 1	12 28	2 4	1 51	0 38	15 15	1 42	28 20	15 21	15 45	15 20	16 3		n.a.
T 13	23 10	14 34	5 8	21 35	0 25	24 57	1 18	10 10	2 34	11 30	1 1	12 30	2 4	1 51	0 38	15 15	1 42	28 20	15 21	15 43	15 19	16 4		n.a.
F 14	23 16	10 54	5 11	21 58	0 32	24 55	1 19	10 2	2 35	11 34	1 1	12 32	2 4	1 51	0 38	15 16	1 42	28 19	15 20	15 42	15 18	16 5		n.a.
S 15	23 21	6 50	4 56	22 21	0 38	24 53	1 20	9 55	2 36	11 38	1 2	12 34	2 4	1 51	0 38	15 16	1 42	28 19	15 20	15 41	15 17	16 7		n.a.
S 16	23 25	2 35	4 28	22 42	0 44	24 50	1 22	9 48	2 37	11 42	1 2	12 35	2 4	1 51	0 38	15 17	1 42	28 18	15 20	15 40	15 16	16 8		n.a.
M17	23 29	1n40	3 47	23 3	0 51	24 47	1 23	9 40	2 39	11 45	1 2	12 37	2 4	1 51	0 38	15 17	1 42	28 18	15 19	15 40	15 15	16 9		n.a.
T 18	23 32	5 46	2 57	23 22	0 57	24 42	1 24	9 33	2 40	11 49	1 2	12 39	2 4	1 51	0 38	15 18	1 42	28 17	15 19	15 40	15 14	16 10		n.a.
W19	23 35	9 35	2 1	23 40	1 2	24 37	1 25	9 26	2 41	11 52	1 2	12 40	2 5	1 51	0 38	15 18	1 42	28 17	15 19	15 41	15 13	16 11		n.a.
T 20	23 38	13 0	0 59	23 57	1 8	24 31	1 26	9 19	2 42	11 56	1 2	12 42	2 5	1 51	0 38	15 19	1 42	28 16	15 19	15 41	15 12	16 12		n.a.
F 21	23 40	15 53	0s 5	24 13	1 14	24 24	1 27	9 12	2 44	12 0	1 2	12 44	2 5	1 51	0 38	15 19	1 42	28 15	15 18	15 41	15 11	16 13		n.a.
S 22	23 41	18 7	1 8	24 27	1 19	24 17	1 28	9 6	2 45	12 3	1 2	12 46	2 5	1 51	0 38	15 20	1 42	28 15	15 18	15 41	15 10	16 14		n.a.
S 23	23 42	19 35	2 9	24 41	1 24	24 9	1 29	8 59	2 46	12 7	1 2	12 47	2 5	1 51	0 38	15 20	1 42	28 14	15 18	15 40	15 9	16 16		n.a.
M24	23 43	20 10	3 5	24 53	1 28	24 0	1 30	8 53	2 48	12 10	1 2	12 49	2 5	1 51	0 38	15 21	1 43	28 14	15 17	15 38	15 8	16 17		n.a.
T 25	23 43	19 50	3 53	25 3	1 33	23 50	1 31	8 47	2 49	12 13	1 2	12 50	2 5	1 51	0 38	15 21	1 43	28 13	15 17	15 36	15 7	16 18		n.a.
W26	23 42	18 32	4 30	25 12	1 37	23 40	1 31	8 40	2 50	12 17	1 2	12 52	2 5	1 52	0 38	15 22	1 43	28 12	15 17	15 33	15 6	16 19		n.a.
T 27	23 42	16 20	4 55	25 20	1 41	23 29	1 32	8 35	2 52	12 20	1 2	12 53	2 5	1 52	0 38	15 22	1 43	28 12	15 17	15 30	15 5	16 20		n.a.
F 28	23 40	13 19	5 6	25 26	1 44	23 17	1 32	8 29	2 53	12 23	1 2	12 55	2 6	1 52	0 38	15 23	1 43	28 11	15 16	15 27	15 4	16 21		n.a.
S 29	23 38	9 37	5 1	25 30	1 48	23 4	1 33	8 23	2 54	12 26	1 3	12 56	2 6	1 52	0 38	15 23	1 43	28 11	15 16	15 25	15 3	16 22		n.a.
S 30	23 36	5 24	4 41	25 33	1 51	22 51	1 33	8 18	2 56	12 30	1 3	12 58	2 6	1 53	0 38	15 24	1 43	28 10	15 16	15 23	15 2	16 23		n.a.
M31	23s33	0n51	4s 4	25s35	1s53	22s37	1s34	8n12	2n57	12s33	1n 3	12s59	2n 6	1n53	0s38	15s24	1n43	28s 9	15s16	15s22	15s 1	16n24		n.a.

Julian Day Number = 1661125.5, Delta T = 03h25m41s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°20'48, Lahiri = - 6°13'48 Julian Calendar 1 Dec. 166 BCE == Greg. Calendar 28 Nov. 166 BCE

The year -165 astronomical counting style corresponds to year 166 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 165 BCE
geocentric

JANUARY 165 BCE (-164) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 25 38	7♑26'44	2♎ 9	4♑15	27♑48	16♍30	5♏44	10♏ 4	6♈ 8	16♏48	23♒30	11°D10	10♏ 2	16♉35	n.a.	T 1
W 2	6 29 34	8°27'40	16° 2	5°57	29° 3	16°45	5°53	10° 9	6° 8	16°50	23°31	11♏10	9°59	16°42	n.a.	W 2
T 3	6 33 31	9°28'36	0♏ 9	7°39	0♒17	17° 0	6° 2	10°14	6° 9	16°52	23°32	11°11	9°56	16°49	n.a.	T 3
F 4	6 37 27	10°29'30	14°30	9°23	1°32	17°15	6°12	10°18	6°10	16°53	23°34	11°R11	9°52	16°55	n.a.	F 4
S 5	6 41 24	11°30'24	29° 3	11° 7	2°47	17°29	6°21	10°23	6°11	16°55	23°35	11°10	9°49	17° 2	n.a.	S 5
S 6	6 45 20	12°31'17	13♐43	12°52	4° 1	17°43	6°29	10°27	6°12	16°56	23°36	11° 6	9°46	17° 9	n.a.	S 6
M 7	6 49 17	13°32'08	28°25	14°37	5°16	17°56	6°38	10°32	6°13	16°58	23°37	10°59	9°43	17°15	n.a.	M 7
T 8	6 53 14	14°32'59	13♑ 1	16°23	6°30	18° 9	6°47	10°36	6°14	16°59	23°38	10°50	9°40	17°22	n.a.	T 8
W 9	6 57 10	15°33'47	27°24	18°10	7°45	18°21	6°55	10°40	6°15	17° 0	23°40	10°40	9°37	17°29	n.a.	W 9
T 10	7 1 7	16°34'35	11♒27	19°58	9° 0	18°32	7° 4	10°44	6°16	17° 2	23°41	10°29	9°33	17°35	n.a.	T 10
F 11	7 5 3	17°35'20	25° 6	21°46	10°14	18°43	7°12	10°48	6°17	17° 3	23°42	10°18	9°30	17°42	n.a.	F 11
S 12	7 9 0	18°36'04	8♓19	23°35	11°29	18°54	7°20	10°52	6°18	17° 5	23°44	10°10	9°27	17°48	n.a.	S 12
S 13	7 12 56	19°36'47	21° 8	25°24	12°43	19° 4	7°28	10°56	6°20	17° 6	23°45	10° 4	9°24	17°55	n.a.	S 13
M14	7 16 53	20°37'27	3♈34	27°14	13°57	19°13	7°36	11° 0	6°21	17° 7	23°46	10° 0	9°21	18° 2	n.a.	M14
T 15	7 20 50	21°38'06	15°42	29° 4	15°12	19°21	7°43	11° 4	6°22	17° 8	23°47	9°59	9°18	18° 8	n.a.	T 15
W16	7 24 46	22°38'42	27°38	0♒54	16°26	19°30	7°51	11° 8	6°24	17° 9	23°49	9°D58	9°14	18°15	n.a.	W16
T 17	7 28 43	23°39'17	9♉27	2°44	17°40	19°37	7°58	11°11	6°25	17°11	23°50	9°R59	9°11	18°22	n.a.	T 17
F 18	7 32 39	24°39'50	21°13	4°34	18°55	19°44	8° 6	11°15	6°27	17°12	23°52	9°58	9° 8	18°28	n.a.	F 18
S 19	7 36 36	25°40'21	3♊ 4	6°24	20° 9	19°50	8°13	11°18	6°28	17°13	23°53	9°56	9° 5	18°35	n.a.	S 19
S 20	7 40 32	26°40'51	15° 3	8°13	21°23	19°55	8°20	11°22	6°30	17°14	23°54	9°51	9° 2	18°42	n.a.	S 20
M21	7 44 29	27°41'18	27°13	10° 2	22°37	20° 0	8°27	11°25	6°32	17°15	23°56	9°43	8°58	18°48	n.a.	M21
T 22	7 48 25	28°41'43	9♋38	11°49	23°51	20° 4	8°33	11°28	6°33	17°16	23°57	9°33	8°55	18°55	n.a.	T 22
W23	7 52 22	29°42'07	22°18	13°34	25° 6	20° 8	8°40	11°31	6°35	17°17	23°59	9°21	8°52	19° 2	n.a.	W23
T 24	7 56 19	0♒42'29	5♌14	15°18	26°20	20°11	8°46	11°34	6°37	17°18	24° 0	9° 7	8°49	19° 8	n.a.	T 24
F 25	8 0 15	1°42'49	18°24	16°59	27°34	20°13	8°53	11°37	6°39	17°19	24° 1	8°54	8°46	19°15	n.a.	F 25
S 26	8 4 12	2°43'07	1♍48	18°37	28°48	20°14	8°59	11°40	6°41	17°20	24° 3	8°42	8°43	19°22	n.a.	S 26
S 27	8 8 8	3°43'23	15°21	20°12	0♓ 1	20°R15	9° 5	11°42	6°43	17°21	24° 4	8°33	8°39	19°28	n.a.	S 27
M28	8 12 5	4°43'38	29° 4	21°42	1°15	20°15	9°11	11°45	6°45	17°22	24° 6	8°27	8°36	19°35	n.a.	M28
T 29	8 16 1	5°43'51	12♎54	23° 8	2°29	20°14	9°16	11°47	6°47	17°22	24° 7	8°23	8°33	19°41	n.a.	T 29
W30	8 19 58	6°44'03	26°50	24°28	3°43	20°13	9°22	11°50	6°49	17°23	24° 9	8°22	8°30	19°48	n.a.	W30
T 31	8 23 54	7♒44'13	10♏52	25♒43	4♓57	20♍10	9♏27	11♏52	6♈51	17♏24	24♒10	8♏22	8♏27	19♉55	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	23s30	3s49	3s14	25s34	1s56	22s22	1s34	8n 7	2n58	12s36	1n 3	13s 1	2n 6	1n53	0s38	15s24	1n43	28s 9	15s15	15s21	15s 0	16n25			n.a.
W 2	23 26	8 23	2 11	25 32	1 58	22 7	1 34	8 3	3 0	12 39	1 3	13 2	2 6	1 53	0 38	15 25	1 43	28 8	15 15	15 21	14 58	16 26			n.a.
T 3	23 22	12 34	0 59	25 28	1 59	21 51	1 34	7 58	3 1	12 42	1 3	13 3	2 6	1 54	0 38	15 25	1 43	28 7	15 15	15 21	14 57	16 27			n.a.
F 4	23 18	16 5	0n18	25 23	2 1	21 35	1 34	7 53	3 3	12 45	1 3	13 5	2 6	1 54	0 37	15 26	1 43	28 7	15 15	15 21	14 56	16 29			n.a.
S 5	23 12	18 39	1 34	25 15	2 1	21 18	1 34	7 49	3 4	12 48	1 3	13 6	2 7	1 55	0 37	15 26	1 43	28 6	15 15	15 21	14 55	16 30			n.a.
S 6	23 7	19 59	2 45	25 6	2 2	21 0	1 34	7 45	3 5	12 51	1 3	13 7	2 7	1 55	0 37	15 26	1 43	28 6	15 14	15 20	14 54	16 31			n.a.
M 7	23 1	19 58	3 44	24 55	2 2	20 42	1 34	7 41	3 7	12 53	1 3	13 9	2 7	1 55	0 37	15 27	1 43	28 5	15 14	15 18	14 53	16 32			n.a.
T 8	22 54	18 37	4 29	24 42	2 1	20 23	1 34	7 37	3 8	12 56	1 3	13 10	2 7	1 56	0 37	15 27	1 43	28 4	15 14	15 15	14 52	16 33			n.a.
W 9	22 48	16 6	4 55	24 27	2 0	20 3	1 34	7 34	3 10	12 59	1 4	13 11	2 7	1 56	0 37	15 28	1 43	28 4	15 14	15 12	14 51	16 34			n.a.
T 10	22 40	12 41	5 3	24 10	1 59	19 43	1 33	7 31	3 11	13 1	1 4	13 12	2 7	1 57	0 37	15 28	1 43	28 3	15 14	15 8	14 50	16 35			n.a.
F 11	22 32	8 42	4 53	23 51	1 56	19 22	1 33	7 27	3 13	13 4	1 4	13 13	2 7	1 57	0 37	15 28	1 43	28 2	15 13	15 5	14 49	16 36			n.a.
S 12	22 24	4 24	4 28	23 30	1 54	19 1	1 33	7 25	3 14	13 7	1 4	13 14	2 8	1 58	0 37	15 29	1 43	28 2	15 13	15 2	14 48	16 37			n.a.
S 13	22 16	0 3	3 50	23 7	1 51	18 39	1 32	7 22	3 16	13 9	1 4	13 15	2 8	1 58	0 37	15 29	1 43	28 1	15 13	15 0	14 47	16 38			n.a.
M14	22 7	4n12	3 1	22 42	1 47	18 17	1 31	7 20	3 17	13 12	1 4	13 16	2 8	1 59	0 37	15 29	1 43	28 1	15 13	14 59	14 46	16 39			n.a.
T 15	21 57	8 10	2 6	22 15	1 42	17 54	1 31	7 18	3 18	13 14	1 4	13 18	2 8	2 0	0 37	15 30	1 43	28 0	15 13	14 58	14 45	16 40			n.a.
W16	21 47	11 46	1 5	21 46	1 37	17 31	1 30	7 16	3 20	13 16	1 4	13 18	2 8	2 0	0 37	15 30	1 43	27 59	15 12	14 58	14 44	16 41			n.a.
T 17	21 37	14 51	0 3	21 15	1 32	17 7	1 29	7 14	3 21	13 19	1 4	13 19	2 8	2 1	0 37	15 30	1 44	27 59	15 12	14 58	14 43	16 42			n.a.
F 18	21 26	17 19	0s59	20 43	1 25	16 43	1 28	7 13	3 23	13 21	1 4	13 20	2 9	2 1	0 37	15 30	1 44	27 58	15 12	14 58	14 42	16 43			n.a.
S 19	21 15	19 3	1 59	20 9	1 18	16 19	1 27	7 12	3 24	13 23	1 5	13 21	2 9	2 2	0 37	15 31	1 44	27 57	15 12	14 58	14 41	16 44			n.a.
S 20	21 4	19 58	2 55	19 33	1 10	15 53	1 26	7 11	3 26	13 25	1 5	13 22	2 9	2 3	0 37	15 31	1 44	27 57	15 12	14 56	14 40	16 45			n.a.
M21	20 52	19 58	3 43	18 56	1 2	15 28	1 25	7 10	3 27	13 28	1 5	13 23	2 9	2 3	0 37	15 31	1 44	27 56	15 12	14 54	14 39	16 46			n.a.
T 22	20 39	19 1	4 21	18 17	0 52	15 2	1 24	7 10	3 28	13 30	1 5	13 24	2 9	2 4	0 37	15 31	1 44	27 56	15 12	14 50	14 38	16 47			n.a.
W23	20 27	17 7	4 48	17 37	0 42	14 36	1 22	7 9	3 30	13 32	1 5	13 25	2 9	2 5	0 37	15 32	1 44	27 55	15 11	14 46	14 37	16 48			n.a.
T 24	20 14	14 20	5 0	16 56	0 32	14 9	1 21	7 10	3 31	13 34	1 5	13 25	2 10	2 6	0 37	15 32	1 44	27 54	15 11	14 42	14 36	16 49			n.a.
F 25	20 0	10 47	4 56	16 15	0 20	13 42	1 20	7 10	3 32	13 35	1 5	13 26	2 10	2 6	0 37	15 32	1 44	27 54	15 11	14 38	14 35	16 50			n.a.
S 26	19 47	6 39	4 37	15 33	0 8	13 15	1 18	7 11	3 34	13 37	1 5	13 27	2 10	2 7	0 37	15 32	1 44	27 53	15 11	14 34	14 34	16 51			n.a.
S 27	19 32	2 8	4 1	14 51	0n 5	12 47	1 17	7 12	3 35	13 39	1 6	13 28	2 10	2 8	0 37	15 32	1 44	27 52	15 11	14 31	14 33	16 52			n.a.
M28	19 18	2s33	3 12	14 9	0 18	12 19	1 15	7 13	3 37	13 41	1 6	13 28	2 10	2 9	0 37	15 33	1 44	27 52	15 11	14 29	14 32	16 53			n.a.
T 29	19 3	7 9	2 10	13 28	0 32	11 51	1 13	7 14	3 38	13 43	1 6	13 29	2 10	2 10	0 37	15 33	1 44	27 51	15 11	14 28	14 31	16 54			n.a.
W30	18 48	11 24	1 1	12 48	0 46	11 22	1 12	7 16	3 39	13 44	1 6	13 29	2 11	2 10	0 37	15 33	1 44	27 51	15 11	14 27	14 30	16 55			n.a.
T 31	18s33	15s 3	0n13	12s 9	1n 1	10s53	1s10	7n18	3n40	13s46	1n 6	13s30	2n11	2n11	0s37	15s33	1n44	27s50	15s11	14s27	14s29	16n56			n.a.

Julian Day Number = 1661156.5, Delta T = 03h25m40s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°20'44, Lahiri = - 6°13'43 Julian Calendar 1 Jan. 165 BCE == Greg. Calendar 29 Dec. 166 BCE

The year -164 astronomical counting style corresponds to year 165 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 165 BCE
geocentric

FEBRUARY 165 BCE (-164) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 27 51	8♒44'21	25♏ 0	26♒51	6♓10	20°R 7	9♏32	11♏55	6♈53	17♏25	24♒12	8°R21	8♏24	20♉ 1	n.a.	F 1
S 2	8 31 47	9°44'28	9♐12	27°52	7°24	20♍ 3	9°37	11°57	6°55	17°25	24°13	8♏19	8°20	20° 8	n.a.	S 2
S 3	8 35 44	10°44'33	23°27	28°45	8°38	19°59	9°42	11°59	6°57	17°26	24°15	8°15	8°17	20°15	n.a.	S 3
M 4	8 39 41	11°44'36	7♑41	29°30	9°51	19°53	9°47	12° 1	6°59	17°26	24°16	8° 7	8°14	20°21	n.a.	M 4
T 5	8 43 37	12°44'38	21°51	0♓ 7	11° 5	19°47	9°51	12° 3	7° 2	17°27	24°18	7°57	8°11	20°28	n.a.	T 5
W 6	8 47 34	13°44'38	5♒51	0°35	12°18	19°40	9°55	12° 4	7° 4	17°28	24°19	7°45	8° 8	20°35	n.a.	W 6
T 7	8 51 30	14°44'35	19°36	0°55	13°32	19°32	10° 0	12° 6	7° 6	17°28	24°21	7°32	8° 4	20°41	n.a.	T 7
F 8	8 55 27	15°44'31	3♓ 3	1° 5	14°45	19°24	10° 4	12° 8	7° 9	17°29	24°22	7°20	8° 1	20°48	n.a.	F 8
S 9	8 59 23	16°44'24	16° 9	1°R 6	15°58	19°15	10° 7	12° 9	7°11	17°29	24°24	7° 9	7°58	20°55	n.a.	S 9
S 10	9 3 20	17°44'15	28°55	0°59	17°12	19° 4	10°11	12°10	7°14	17°29	24°26	7° 2	7°55	21° 1	n.a.	S 10
M11	9 7 16	18°44'04	11♈20	0°43	18°25	18°54	10°14	12°12	7°16	17°30	24°27	6°57	7°52	21° 8	n.a.	M11
T 12	9 11 13	19°43'50	23°29	0°19	19°38	18°42	10°18	12°13	7°19	17°30	24°29	6°54	7°49	21°15	n.a.	T 12
W13	9 15 10	20°43'34	5♉26	29♒47	20°51	18°30	10°21	12°14	7°21	17°30	24°30	6°D53	7°45	21°21	n.a.	W13
T 14	9 19 6	21°43'16	17°16	29° 9	22° 4	18°17	10°24	12°15	7°24	17°31	24°32	6°R53	7°42	21°28	n.a.	T 14
F 15	9 23 3	22°42'56	29° 4	28°26	23°17	18° 3	10°26	12°16	7°27	17°31	24°33	6°53	7°39	21°34	n.a.	F 15
S 16	9 26 59	23°42'33	10♊56	27°38	24°30	17°48	10°29	12°17	7°29	17°31	24°35	6°52	7°36	21°41	n.a.	S 16
S 17	9 30 56	24°42'08	22°57	26°46	25°43	17°33	10°31	12°17	7°32	17°31	24°36	6°48	7°33	21°48	n.a.	S 17
M18	9 34 52	25°41'40	5♋12	25°52	26°55	17°17	10°34	12°18	7°35	17°31	24°38	6°42	7°29	21°54	n.a.	M18
T 19	9 38 49	26°41'10	17°44	24°57	28° 8	17° 1	10°36	12°18	7°38	17°31	24°39	6°34	7°26	22° 1	n.a.	T 19
W20	9 42 45	27°40'38	0♌36	24° 2	29°21	16°43	10°37	12°19	7°40	17°32	24°41	6°23	7°23	22° 8	n.a.	W20
T 21	9 46 42	28°40'04	13°47	23° 8	0♈33	16°26	10°39	12°19	7°43	17°R32	24°42	6°12	7°20	22°14	n.a.	T 21
F 22	9 50 39	29°39'27	27°18	22°16	1°46	16° 7	10°41	12°19	7°46	17°32	24°44	6° 1	7°17	22°21	n.a.	F 22
S 23	9 54 35	0♓38'48	11♍ 6	21°28	2°58	15°48	10°42	12°R19	7°49	17°32	24°46	5°51	7°14	22°28	n.a.	S 23
S 24	9 58 32	1°38'07	25° 6	20°43	4°11	15°29	10°43	12°19	7°52	17°31	24°47	5°43	7°10	22°34	n.a.	S 24
M25	10 2 28	2°37'24	9♎14	20° 3	5°23	15° 9	10°44	12°19	7°55	17°31	24°49	5°37	7° 7	22°41	n.a.	M25
T 26	10 6 25	3°36'39	23°26	19°28	6°35	14°48	10°45	12°19	7°58	17°31	24°50	5°35	7° 4	22°48	n.a.	T 26
W27	10 10 21	4°35'52	7♏39	18°58	7°47	14°28	10°45	12°19	8° 1	17°31	24°52	5°D34	7° 1	22°54	n.a.	W27
T 28	10 14 18	5°35'03	21°51	18°34	8°59	14° 6	10°45	12°18	8° 4	17°31	24°53	5°35	6°58	23° 1	n.a.	T 28
F 29	10 18 14	6♓34'13	5♐59	18♒16	10♈11	13♍45	10°R46	12♏18	8♈ 7	17♏31	24♒55	5°R35	6♏55	23♉ 8	n.a.	F 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	18s17	17s50	1n27	11s31	1n16	10s24	1s 8	7n21	3n42	13s47	1n 6	13s30	2n11	2n12	0s37	15s33	1n44	27s49	15s11	14s27	14s28	16n57		n.a.
S 2	18 1	19 31	2 35	10 56	1 31	9 55	1 6	7 23	3 43	13 49	1 6	13 31	2 11	2 13	0 36	15 33	1 44	27 49	15 11	14 26	14 27	16 58		n.a.
S 3	17 44	19 59	3 34	10 24	1 46	9 25	1 4	7 26	3 44	13 50	1 6	13 31	2 11	2 14	0 36	15 34	1 44	27 48	15 10	14 25	14 26	16 59		n.a.
M 4	17 28	19 10	4 20	9 54	2 0	8 55	1 2	7 29	3 45	13 52	1 7	13 32	2 11	2 15	0 36	15 34	1 44	27 48	15 10	14 23	14 25	17 0		n.a.
T 5	17 11	17 10	4 49	9 27	2 15	8 25	1 0	7 33	3 46	13 53	1 7	13 32	2 12	2 16	0 36	15 34	1 44	27 47	15 10	14 19	14 24	17 1		n.a.
W 6	16 53	14 10	5 0	9 4	2 29	7 54	0 58	7 37	3 47	13 54	1 7	13 33	2 12	2 17	0 36	15 34	1 45	27 46	15 10	14 15	14 23	17 2		n.a.
T 7	16 36	10 27	4 54	8 45	2 43	7 24	0 55	7 41	3 48	13 55	1 7	13 33	2 12	2 18	0 36	15 34	1 45	27 46	15 10	14 11	14 22	17 3		n.a.
F 8	16 18	6 17	4 31	8 29	2 55	6 53	0 53	7 45	3 49	13 56	1 7	13 33	2 12	2 19	0 36	15 34	1 45	27 45	15 10	14 7	14 21	17 4		n.a.
S 9	16 0	1 55	3 55	8 18	3 7	6 22	0 51	7 50	3 50	13 58	1 7	13 34	2 12	2 20	0 36	15 34	1 45	27 45	15 10	14 3	14 19	17 4		n.a.
S 10	15 42	2n25	3 7	8 11	3 17	5 51	0 48	7 54	3 51	13 59	1 7	13 34	2 12	2 21	0 36	15 34	1 45	27 44	15 10	14 1	14 18	17 5		n.a.
M11	15 23	6 33	2 11	8 8	3 26	5 20	0 46	7 59	3 52	14 0	1 7	13 34	2 13	2 22	0 36	15 34	1 45	27 44	15 10	13 59	14 17	17 6		n.a.
T 12	15 4	10 19	1 11	8 9	3 34	4 49	0 43	8 5	3 53	14 0	1 8	13 34	2 13	2 23	0 36	15 34	1 45	27 43	15 10	13 58	14 16	17 7		n.a.
W13	14 45	13 36	0 8	8 15	3 40	4 17	0 41	8 10	3 53	14 1	1 8	13 34	2 13	2 24	0 36	15 34	1 45	27 42	15 10	13 58	14 15	17 8		n.a.
T 14	14 26	16 18	0s55	8 24	3 44	3 46	0 38	8 16	3 54	14 2	1 8	13 34	2 13	2 25	0 36	15 34	1 45	27 42	15 10	13 58	14 14	17 9		n.a.
F 15	14 6	18 18	1 55	8 37	3 46	3 14	0 35	8 22	3 55	14 3	1 8	13 35	2 13	2 26	0 36	15 34	1 45	27 41	15 10	13 58	14 13	17 10		n.a.
S 16	13 46	19 31	2 51	8 53	3 47	2 43	0 33	8 28	3 55	14 4	1 8	13 35	2 14	2 27	0 36	15 34	1 45	27 41	15 10	13 58	14 12	17 11		n.a.
S 17	13 26	19 52	3 39	9 13	3 45	2 11	0 30	8 35	3 56	14 4	1 8	13 35	2 14	2 28	0 36	15 34	1 45	27 40	15 10	13 57	14 11	17 12		n.a.
M18	13 6	19 18	4 19	9 34	3 41	1 39	0 27	8 41	3 56	14 5	1 8	13 35	2 14	2 29	0 36	15 34	1 45	27 40	15 10	13 55	14 10	17 13		n.a.
T 19	12 46	17 47	4 47	9 58	3 36	1 7	0 24	8 48	3 56	14 5	1 8	13 35	2 14	2 31	0 36	15 34	1 45	27 39	15 10	13 52	14 9	17 14		n.a.
W20	12 25	15 21	5 1	10 23	3 29	0 35	0 21	8 55	3 56	14 6	1 9	13 35	2 14	2 32	0 36	15 34	1 45	27 39	15 10	13 48	14 8	17 15		n.a.
T 21	12 4	12 5	5 0	10 49	3 20	0 4	0 19	9 2	3 57	14 6	1 9	13 35	2 14	2 33	0 36	15 34	1 45	27 38	15 10	13 44	14 7	17 15		n.a.
F 22	11 43	8 8	4 42	11 16	3 9	0n28	0 16	9 10	3 57	14 6	1 9	13 34	2 15	2 34	0 36	15 34	1 45	27 38	15 10	13 41	14 6	17 16		n.a.
S 23	11 22	3 40	4 8	11 42	2 58	1 0	0 13	9 17	3 57	14 7	1 9	13 34	2 15	2 35	0 36	15 34	1 45	27 37	15 10	13 37	14 5	17 17		n.a.
S 24	11 1	1s 3	3 18	12 9	2 45	1 32	0 9	9 25	3 56	14 7	1 9	13 34	2 15	2 36	0 36	15 34	1 45	27 37	15 10	13 35	14 4	17 18		n.a.
M25	10 39	5 46	2 16	12 34	2 32	2 4	0 6	9 32	3 56	14 7	1 9	13 34	2 15	2 38	0 36	15 34	1 46	27 36	15 10	13 33	14 3	17 19		n.a.
T 26	10 18	10 12	1 4	12 59	2 17	2 36	0 3	9 40	3 56	14 7	1 9	13 34	2 15	2 39	0 36	15 34	1 46	27 36	15 11	13 32	14 2	17 20		n.a.
W27	9 56	14 3	0n11	13 22	2 3	3 7	0 0	9 48	3 56	14 7	1 9	13 33	2 16	2 40	0 36	15 34	1 46	27 35	15 11	13 32	14 1	17 21		n.a.
T 28	9 34	17 3	1 26	13 43	1 48	3 39	0n 3	9 56	3 55	14 7	1 10	13 33	2 16	2 41	0 36	15 34	1 46	27 35	15 11	13 32	14 0	17 22		n.a.
F 29	9s12	19s 0	2n35	14s 3	1n33	4n11	0n 6	10n 4	3n54	14s 7	1n10	13s33	2n16	2n42	0s36	15s34	1n46	27s34	15s11	13s32	13s59	17n22		n.a.

Julian Day Number = 1661187.5, Delta T = 03h25m39s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°20'40, Lahiri = - 6°13'39 Julian Calendar 1 Feb. 165 BCE == Greg. Calendar 29 Jan. 165 BCE

The year -164 astronomical counting style corresponds to year 165 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 165 BCE
geocentric

MARCH 165 BCE (-164) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 22 11	7♓33'20	20♐ 3	18°R 3	11♈23	13°R23	10°R45	12°R17	8♈10	17°R30	24♒56	5°R34	6♏51	23♉14	n.a.	S 1
S 2	10 26 7	8°32'26	4♑ 1	17♒57	12°35	13♍ 0	10♏45	12♏16	8°13	17♏30	24°58	5♏32	6°48	23°21	n.a.	S 2
M 3	10 30 4	9°31'30	17°53	17°D56	13°47	12°38	10°45	12°16	8°16	17°30	24°59	5°27	6°45	23°28	n.a.	M 3
T 4	10 34 1	10°30'32	1♒37	18° 0	14°59	12°15	10°44	12°15	8°19	17°29	25° 1	5°19	6°42	23°34	n.a.	T 4
W 5	10 37 57	11°29'32	15°10	18°10	16°10	11°52	10°43	12°14	8°22	17°29	25° 2	5°11	6°39	23°41	n.a.	W 5
T 6	10 41 54	12°28'30	28°30	18°25	17°22	11°29	10°42	12°13	8°26	17°29	25° 4	5° 1	6°35	23°48	n.a.	T 6
F 7	10 45 50	13°27'26	11♓35	18°45	18°33	11° 6	10°41	12°11	8°29	17°28	25° 5	4°52	6°32	23°54	n.a.	F 7
S 8	10 49 47	14°26'20	24°25	19° 9	19°45	10°43	10°40	12°10	8°32	17°28	25° 7	4°45	6°29	24° 1	n.a.	S 8
S 9	10 53 43	15°25'12	6♈59	19°38	20°56	10°20	10°38	12° 9	8°35	17°27	25° 8	4°39	6°26	24° 7	n.a.	S 9
M10	10 57 40	16°24'01	19°17	20°11	22° 7	9°58	10°37	12° 7	8°38	17°27	25°10	4°36	6°23	24°14	n.a.	M10
T 11	11 1 36	17°22'49	1♉23	20°49	23°18	9°35	10°35	12° 6	8°42	17°26	25°11	4°D34	6°20	24°21	n.a.	T 11
W12	11 5 33	18°21'34	13°18	21°30	24°29	9°12	10°33	12° 4	8°45	17°25	25°13	4°34	6°16	24°27	n.a.	W12
T 13	11 9 30	19°20'17	25° 8	22°15	25°40	8°50	10°30	12° 2	8°48	17°25	25°14	4°36	6°13	24°34	n.a.	T 13
F 14	11 13 26	20°18'57	6♊56	23° 3	26°51	8°28	10°28	12° 1	8°52	17°24	25°15	4°37	6°10	24°41	n.a.	F 14
S 15	11 17 23	21°17'35	18°48	23°55	28° 2	8° 6	10°25	11°59	8°55	17°23	25°17	4°R38	6° 7	24°47	n.a.	S 15
S 16	11 21 19	22°16'11	0♋50	24°49	29°13	7°44	10°22	11°57	8°58	17°23	25°18	4°38	6° 4	24°54	n.a.	S 16
M17	11 25 16	23°14'45	13° 5	25°47	0♉23	7°23	10°19	11°55	9° 2	17°22	25°20	4°36	6° 1	25° 1	n.a.	M17
T 18	11 29 12	24°13'16	25°39	26°48	1°34	7° 3	10°16	11°52	9° 5	17°21	25°21	4°32	5°57	25° 7	n.a.	T 18
W19	11 33 9	25°11'45	8♌34	27°51	2°44	6°43	10°13	11°50	9° 8	17°20	25°22	4°27	5°54	25°14	n.a.	W19
T 20	11 37 5	26°10'12	21°53	28°57	3°54	6°23	10° 9	11°48	9°12	17°20	25°24	4°21	5°51	25°21	n.a.	T 20
F 21	11 41 2	27° 8'37	5♍36	0♓ 5	5° 4	6° 4	10° 6	11°45	9°15	17°19	25°25	4°15	5°48	25°27	n.a.	F 21
S 22	11 44 58	28° 7'00	19°40	1°16	6°14	5°45	10° 2	11°43	9°18	17°18	25°27	4° 9	5°45	25°34	n.a.	S 22
S 23	11 48 55	29° 5'20	4♎ 2	2°30	7°24	5°27	9°58	11°40	9°22	17°17	25°28	4° 5	5°41	25°41	n.a.	S 23
M24	11 52 52	0♈ 3'39	18°35	3°45	8°34	5°10	9°54	11°38	9°25	17°16	25°29	4° 3	5°38	25°47	n.a.	M24
T 25	11 56 48	1° 1'56	3♏14	5° 3	9°44	4°53	9°49	11°35	9°29	17°15	25°30	4°D 2	5°35	25°54	n.a.	T 25
W26	12 0 45	2° 0'11	17°52	6°23	10°53	4°37	9°45	11°32	9°32	17°14	25°32	4° 2	5°32	26° 1	n.a.	W26
T 27	12 4 41	2°58'25	2♐23	7°45	12° 3	4°21	9°40	11°29	9°35	17°13	25°33	4° 4	5°29	26° 7	n.a.	T 27
F 28	12 8 38	3°56'37	16°45	9° 9	13°12	4° 7	9°35	11°26	9°39	17°12	25°34	4° 5	5°26	26°14	n.a.	F 28
S 29	12 12 34	4°54'47	0♑53	10°35	14°21	3°52	9°30	11°23	9°42	17°11	25°36	4°R 6	5°22	26°21	n.a.	S 29
S 30	12 16 31	5°52'56	14°48	12° 3	15°30	3°39	9°25	11°20	9°46	17°10	25°37	4° 6	5°19	26°27	n.a.	S 30
M31	12 20 27	6♈51'04	28♑28	13♓33	16♉39	3♍27	9♏20	11♏17	9♈49	17♏ 9	25♒38	4♏ 4	5♏16	26♉34	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	8s50	19s46	3n35	14s22	1n18	4n42	0n 9	10n12	3n54	14s 7	1n10	13s32	2n16	2n44	0s36	15s34	1n46	27s34	15s11	13s32	13s58	17n23		n.a.	S 1
S 2	8 28	19 18	4 21	14 38	1 3	5 13	0 13	10 20	3 53	14 7	1 10	13 32	2 16	2 45	0 36	15 33	1 46	27 33	15 11	13 31	13 56	17 24		n.a.	S 2
M 3	8 5	17 41	4 52	14 52	0 48	5 45	0 16	10 28	3 52	14 7	1 10	13 32	2 16	2 46	0 36	15 33	1 46	27 33	15 11	13 29	13 55	17 25		n.a.	M 3
T 4	7 43	15 4	5 5	15 5	0 33	6 16	0 19	10 35	3 51	14 6	1 10	13 31	2 17	2 47	0 36	15 33	1 46	27 32	15 11	13 27	13 54	17 26		n.a.	T 4
W 5	7 20	11 41	5 1	15 15	0 19	6 47	0 23	10 43	3 50	14 6	1 10	13 31	2 17	2 49	0 36	15 33	1 46	27 32	15 11	13 24	13 53	17 27		n.a.	W 5
T 6	6 57	7 45	4 41	15 24	0 5	7 17	0 26	10 51	3 49	14 6	1 10	13 30	2 17	2 50	0 36	15 33	1 46	27 32	15 11	13 21	13 52	17 27		n.a.	T 6
F 7	6 35	3 31	4 6	15 30	0s 8	7 48	0 29	10 59	3 47	14 5	1 10	13 30	2 17	2 51	0 36	15 33	1 46	27 31	15 11	13 18	13 51	17 28		n.a.	F 7
S 8	6 12	0n48	3 19	15 35	0 21	8 19	0 33	11 6	3 46	14 5	1 11	13 29	2 17	2 53	0 36	15 32	1 46	27 31	15 12	13 15	13 50	17 29		n.a.	S 8
S 9	5 49	4 59	2 23	15 37	0 33	8 49	0 36	11 14	3 45	14 4	1 11	13 29	2 17	2 54	0 36	15 32	1 46	27 30	15 12	13 13	13 49	17 30		n.a.	S 9
M10	5 26	8 53	1 22	15 37	0 45	9 19	0 39	11 21	3 43	14 3	1 11	13 28	2 17	2 55	0 36	15 32	1 46	27 30	15 12	13 12	13 48	17 31		n.a.	M10
T 11	5 2	12 21	0 17	15 36	0 56	9 49	0 43	11 28	3 41	14 3	1 11	13 27	2 18	2 56	0 36	15 32	1 46	27 30	15 12	13 11	13 47	17 32		n.a.	T 11
W12	4 39	15 16	0s47	15 33	1 6	10 18	0 46	11 35	3 40	14 2	1 11	13 27	2 18	2 58	0 36	15 32	1 46	27 29	15 12	13 12	13 46	17 32		n.a.	W12
T 13	4 16	17 30	1 49	15 27	1 16	10 48	0 49	11 42	3 38	14 1	1 11	13 26	2 18	2 59	0 36	15 31	1 46	27 29	15 12	13 12	13 45	17 33		n.a.	T 13
F 14	3 53	18 59	2 46	15 20	1 26	11 17	0 53	11 49	3 36	14 0	1 11	13 25	2 18	3 0	0 36	15 31	1 46	27 28	15 12	13 12	13 44	17 34		n.a.	F 14
S 15	3 29	19 38	3 37	15 11	1 35	11 46	0 56	11 55	3 34	13 59	1 11	13 25	2 18	3 2	0 36	15 31	1 46	27 28	15 13	13 13	13 43	17 35		n.a.	S 15
S 16	3 6	19 24	4 19	15 1	1 43	12 15	0 59	12 2	3 32	13 58	1 11	13 24	2 18	3 3	0 35	15 31	1 47	27 28	15 13	13 13	13 42	17 36		n.a.	S 16
M17	2 43	18 16	4 49	14 48	1 51	12 43	1 3	12 8	3 29	13 57	1 11	13 23	2 19	3 4	0 35	15 30	1 47	27 27	15 13	13 12	13 41	17 36		n.a.	M17
T 18	2 19	16 14	5 7	14 34	1 58	13 11	1 6	12 13	3 27	13 56	1 12	13 22	2 19	3 6	0 35	15 30	1 47	27 27	15 13	13 11	13 39	17 37		n.a.	T 18
W19	1 56	13 20	5 10	14 18	2 4	13 39	1 9	12 19	3 25	13 55	1 12	13 22	2 19	3 7	0 35	15 30	1 47	27 27	15 13	13 9	13 38	17 38		n.a.	W19
T 20	1 32	9 42	4 56	14 0	2 10	14 6	1 13	12 24	3 22	13 54	1 12	13 21	2 19	3 9	0 35	15 30	1 47	27 26	15 14	13 7	13 37	17 39		n.a.	T 20
F 21	1 9	5 27	4 26	13 41	2 15	14 33	1 16	12 29	3 20	13 53	1 12	13 20	2 19	3 10	0 35	15 29	1 47	27 26	15 14	13 5	13 36	17 40		n.a.	F 21
S 22	0 45	0 47	3 38	13 19	2 20	15 0	1 19	12 34	3 18	13 51	1 12	13 19	2 19	3 11	0 35	15 29	1 47	27 26	15 14	13 3	13 35	17 40		n.a.	S 22
S 23	0 22	4s 1	2 36	12 57	2 24	15 26	1 23	12 38	3 15	13 50	1 12	13 18	2 19	3 13	0 35	15 29	1 47	27 25	15 14	13 2	13 34	17 41		n.a.	S 23
M24	0n 1	8 39	1 23	12 32	2 28	15 52	1 26	12 42	3 12	13 49	1 12	13 17	2 19	3 14	0 35	15 28	1 47	27 25	15 14	13 1	13 33	17 42		n.a.	M24
T 25	0 25	12 48	0 4	12 6	2 31	16 18	1 29	12 46	3 10	13 47	1 12	13 16	2 20	3 15	0 35	15 28	1 47	27 25	15 15	13 0	13 32	17 43		n.a.	T 25
W26	0 48	16 9	1n15	11 39	2 33	16 43	1 32	12 49	3 7	13 46	1 12	13 15	2 20	3 17	0 35	15 28	1 47	27 25	15 15	13 1	13 31	17 43		n.a.	W26
T 27	1 12	18 26	2 29	11 9	2 35	17 8	1 35	12 53	3 4	13 44	1 12	13 14	2 20	3 18	0 35	15 27	1 47	27 24	15 15	13 1	13 30	17 44		n.a.	T 27
F 28	1 35	19 31	3 33	10 38	2 36	17 32	1 38	12 56	3 2	13 43	1 12	13 13	2 20	3 19	0 35	15 27	1 47	27 24	15 15	13 1	13 29	17 45		n.a.	F 28
S 29	1 58	19 20	4 23	10 6	2 37	17 56	1 41	12 58	2 59	13 41	1 12	13 12	2 20	3 21	0 35	15 27	1 47	27 24	15 15	13 2	13 28	17 46		n.a.	S 29
S 30	2 22	17 58	4 56	9 32	2 37	18 20	1 45	13 1	2 56	13 39	1 12	13 11	2 20	3 22	0 35	15 26	1 47	27 24	15 16	13 2	13 27	17 47		n.a.	S 30
M31	2n45	15s36	5n12	8s57	2s37	18n43	1n47	13n 3	2n53	13s38	1n12	13s10	2n20	3n24	0s35	15s26	1n47	27s23	15s16	13s 1	13s26	17n47		n.a.	M31

Julian Day Number = 1661216.5, Delta T = 03h25m38s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°20'36, Lahiri = - 6°13'35 Julian Calendar 1 March 165 BCE == Greg. Calendar 27 Feb. 165 BCE

The year -164 astronomical counting style corresponds to year 165 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 165 BCE
geocentric

APRIL 165 BCE (-164) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 24 24	7♈49'10	11♒53	15♓ 5	17♉48	3°R15	9°R15	11°R14	9♈53	17°R 7	25♒39	4°R 1	5♏13	26♉40	n.a.	T 1
W 2	12 28 21	8°47'14	25° 4	16°39	18°57	3♍ 4	9♏ 9	11♏10	9°56	17♏ 6	25°40	3♏58	5°10	26°47	n.a.	W 2
T 3	12 32 17	9°45'17	8♓ 0	18°15	20° 5	2°53	9° 4	11° 7	10° 0	17° 5	25°42	3°54	5° 6	26°54	n.a.	T 3
F 4	12 36 14	10°43'18	20°44	19°52	21°14	2°44	8°58	11° 3	10° 3	17° 4	25°43	3°50	5° 3	27° 0	n.a.	F 4
S 5	12 40 10	11°41'17	3♈14	21°32	22°22	2°35	8°52	11° 0	10° 6	17° 3	25°44	3°47	5° 0	27° 7	n.a.	S 5
S 6	12 44 7	12°39'15	15°32	23°14	23°30	2°28	8°46	10°56	10°10	17° 1	25°45	3°45	4°57	27°14	n.a.	S 6
M 7	12 48 3	13°37'12	27°40	24°57	24°38	2°21	8°40	10°53	10°13	17° 0	25°46	3°44	4°54	27°20	n.a.	M 7
T 8	12 52 0	14°35'06	9♉38	26°42	25°46	2°14	8°33	10°49	10°17	16°59	25°47	3°D44	4°51	27°27	n.a.	T 8
W 9	12 55 56	15°32'59	21°30	28°30	26°54	2° 9	8°27	10°45	10°20	16°58	25°48	3°45	4°47	27°34	n.a.	W 9
T 10	12 59 53	16°30'50	3♊19	0♈19	28° 2	2° 4	8°20	10°42	10°24	16°56	25°49	3°46	4°44	27°40	n.a.	T 10
F 11	13 3 49	17°28'40	15° 7	2°10	29° 9	2° 0	8°14	10°38	10°27	16°55	25°51	3°48	4°41	27°47	n.a.	F 11
S 12	13 7 46	18°26'27	27° 0	4° 3	0♊16	1°58	8° 7	10°34	10°31	16°54	25°52	3°49	4°38	27°54	n.a.	S 12
S 13	13 11 43	19°24'13	9♋ 0	5°58	1°23	1°55	8° 0	10°30	10°34	16°52	25°53	3°50	4°35	28° 0	n.a.	S 13
M14	13 15 39	20°21'57	21°14	7°54	2°30	1°54	7°53	10°26	10°37	16°51	25°54	3°R50	4°32	28° 7	n.a.	M14
T 15	13 19 36	21°19'40	3♌46	9°53	3°37	1°D53	7°46	10°22	10°41	16°49	25°55	3°50	4°28	28°14	n.a.	T 15
W16	13 23 32	22°17'20	16°39	11°53	4°44	1°54	7°39	10°18	10°44	16°48	25°56	3°49	4°25	28°20	n.a.	W16
T 17	13 27 29	23°14'59	29°57	13°55	5°50	1°55	7°32	10°14	10°48	16°47	25°56	3°48	4°22	28°27	n.a.	T 17
F 18	13 31 25	24°12'36	13♍40	15°59	6°56	1°56	7°25	10°10	10°51	16°45	25°57	3°47	4°19	28°34	n.a.	F 18
S 19	13 35 22	25°10'12	27°50	18° 4	8° 2	1°59	7°18	10° 6	10°54	16°44	25°58	3°46	4°16	28°40	n.a.	S 19
S 20	13 39 18	26° 7'46	12♎22	20°11	9° 8	2° 2	7°10	10° 1	10°58	16°42	25°59	3°45	4°12	28°47	n.a.	S 20
M21	13 43 15	27° 5'19	27°11	22°19	10°14	2° 6	7° 3	9°57	11° 1	16°41	26° 0	3°D45	4° 9	28°54	n.a.	M21
T 22	13 47 12	28° 2'50	12♏10	24°28	11°19	2°11	6°56	9°53	11° 4	16°39	26° 1	3°45	4° 6	29° 0	n.a.	T 22
W23	13 51 8	29° 0'21	27°11	26°39	12°24	2°16	6°48	9°49	11° 8	16°38	26° 2	3°45	4° 3	29° 7	n.a.	W23
T 24	13 55 5	29°57'50	12♐ 5	28°49	13°29	2°22	6°41	9°44	11°11	16°36	26° 3	3°45	4° 0	29°14	n.a.	T 24
F 25	13 59 1	0♑55'18	26°46	1♑ 1	14°34	2°29	6°33	9°40	11°14	16°35	26° 3	3°46	3°57	29°20	n.a.	F 25
S 26	14 2 58	1°52'46	11♑ 8	3°12	15°39	2°36	6°26	9°36	11°18	16°33	26° 4	3°46	3°53	29°27	n.a.	S 26
S 27	14 6 54	2°50'12	25° 9	5°24	16°43	2°45	6°18	9°31	11°21	16°32	26° 5	3°46	3°50	29°34	n.a.	S 27
M28	14 10 51	3°47'38	8♒48	7°35	17°47	2°53	6°10	9°27	11°24	16°30	26° 6	3°46	3°47	29°40	n.a.	M28
T 29	14 14 47	4°45'03	22° 5	9°46	18°51	3° 3	6° 3	9°23	11°27	16°28	26° 6	3°46	3°44	29°47	n.a.	T 29
W30	14 18 44	5♉42'27	5♓ 3	11♉55	19♊55	3♍13	5♏55	9♏18	11♈31	16♏27	26♒ 7	3♏46	3♏41	29♉54	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n 8	12s27	5n11	8s20	2s36	19n 6	1n50	13n 4	2n50	13s36	1n12	13s 9	2n20	3n25	0s35	15s26	1n47	27s23	15s16	13s 0	13s25	17n48		n.a.
W 2	3 31	8 43	4 53	7 42	2 34	19 28	1 53	13 6	2 47	13 34	1 12	13 8	2 20	3 26	0 35	15 25	1 47	27 23	15 16	12 59	13 23	17 49		n.a.
T 3	3 54	4 38	4 20	7 2	2 32	19 50	1 56	13 7	2 45	13 32	1 12	13 7	2 20	3 28	0 35	15 25	1 47	27 23	15 17	12 58	13 22	17 49		n.a.
F 4	4 17	0 25	3 35	6 20	2 30	20 11	1 59	13 7	2 42	13 30	1 13	13 5	2 21	3 29	0 35	15 25	1 47	27 23	15 17	12 57	13 21	17 50		n.a.
S 5	4 40	3n45	2 40	5 38	2 26	20 32	2 2	13 8	2 39	13 28	1 13	13 4	2 21	3 30	0 35	15 24	1 47	27 23	15 17	12 55	13 20	17 51		n.a.
S 6	5 3	7 42	1 39	4 54	2 23	20 52	2 4	13 8	2 36	13 26	1 13	13 3	2 21	3 32	0 35	15 24	1 47	27 22	15 18	12 55	13 19	17 52		n.a.
M 7	5 26	11 17	0 33	4 8	2 18	21 12	2 7	13 8	2 33	13 24	1 13	13 2	2 21	3 33	0 35	15 23	1 47	27 22	15 18	12 54	13 18	17 52		n.a.
T 8	5 49	14 21	0s33	3 22	2 13	21 31	2 10	13 8	2 30	13 22	1 13	13 1	2 21	3 35	0 35	15 23	1 47	27 22	15 18	12 54	13 17	17 53		n.a.
W 9	6 11	16 47	1 37	2 34	2 8	21 50	2 12	13 7	2 27	13 20	1 13	12 59	2 21	3 36	0 35	15 23	1 47	27 22	15 18	12 55	13 16	17 54		n.a.
T 10	6 34	18 30	2 36	1 44	2 2	22 8	2 15	13 6	2 24	13 18	1 13	12 58	2 21	3 37	0 35	15 22	1 47	27 22	15 19	12 55	13 15	17 55		n.a.
F 11	6 56	19 24	3 30	0 54	1 56	22 25	2 17	13 4	2 21	13 16	1 13	12 57	2 21	3 39	0 35	15 22	1 47	27 22	15 19	12 56	13 14	17 55		n.a.
S 12	7 19	19 27	4 14	0 2	1 49	22 42	2 19	13 3	2 18	13 14	1 13	12 56	2 21	3 40	0 35	15 21	1 47	27 22	15 19	12 56	13 13	17 56		n.a.
S 13	7 41	18 37	4 48	0n51	1 41	22 59	2 22	13 1	2 15	13 12	1 13	12 54	2 21	3 41	0 35	15 21	1 48	27 22	15 19	12 56	13 12	17 57		n.a.
M14	8 3	16 55	5 9	1 45	1 33	23 15	2 24	12 59	2 13	13 9	1 13	12 53	2 21	3 43	0 35	15 21	1 48	27 21	15 20	12 56	13 11	17 57		n.a.
T 15	8 25	14 24	5 17	2 39	1 25	23 30	2 26	12 56	2 10	13 7	1 13	12 52	2 21	3 44	0 35	15 20	1 48	27 21	15 20	12 56	13 9	17 58		n.a.
W16	8 46	11 7	5 9	3 35	1 16	23 45	2 28	12 54	2 7	13 5	1 12	12 51	2 21	3 45	0 35	15 20	1 48	27 21	15 20	12 56	13 8	17 59		n.a.
T 17	9 8	7 11	4 45	4 31	1 7	23 59	2 30	12 51	2 4	13 3	1 12	12 49	2 21	3 47	0 35	15 19	1 48	27 21	15 21	12 56	13 7	17 59		n.a.
F 18	9 30	2 45	4 4	5 28	0 58	24 12	2 32	12 47	2 1	13 0	1 12	12 48	2 21	3 48	0 35	15 19	1 48	27 21	15 21	12 55	13 6	18 0		n.a.
S 19	9 51	1s58	3 7	6 26	0 48	24 25	2 33	12 44	1 59	12 58	1 12	12 47	2 21	3 49	0 35	15 18	1 48	27 21	15 21	12 55	13 5	18 1		n.a.
S 20	10 12	6 43	1 56	7 24	0 38	24 38	2 35	12 40	1 56	12 56	1 12	12 45	2 21	3 51	0 35	15 18	1 48	27 21	15 22	12 55	13 4	18 1		n.a.
M21	10 33	11 9	0 36	8 22	0 28	24 49	2 37	12 36	1 53	12 53	1 12	12 44	2 21	3 52	0 35	15 18	1 48	27 21	15 22	12 54	13 3	18 2		n.a.
T 22	10 54	14 55	0n47	9 20	0 17	25 0	2 38	12 32	1 50	12 51	1 12	12 43	2 21	3 53	0 35	15 17	1 48	27 21	15 22	12 54	13 2	18 3		n.a.
W23	11 15	17 42	2 7	10 17	0 7	25 11	2 40	12 28	1 48	12 48	1 12	12 41	2 21	3 55	0 35	15 17	1 48	27 21	15 23	12 55	13 1	18 3		n.a.
T 24	11 35	19 14	3 17	11 15	0n 4	25 20	2 41	12 23	1 45	12 46	1 12	12 40	2 21	3 56	0 35	15 16	1 48	27 21	15 23	12 55	13 0	18 4		n.a.
F 25	11 56	19 26	4 14	12 11	0 15	25 29	2 42	12 18	1 42	12 44	1 12	12 39	2 21	3 57	0 35	15 16	1 48	27 21	15 23	12 55	12 59	18 5		n.a.
S 26	12 16	18 22	4 53	13 7	0 25	25 38	2 43	12 13	1 40	12 41	1 12	12 37	2 21	3 59	0 35	15 15	1 48	27 21	15 24	12 55	12 57	18 5		n.a.
S 27	12 36	16 12	5 14	14 1	0 35	25 46	2 44	12 7	1 37	12 39	1 12	12 36	2 21	4 0	0 35	15 15	1 48	27 21	15 24	12 55	12 56	18 6		n.a.
M28	12 56	13 10	5 17	14 55	0 45	25 53	2 45	12 2	1 35	12 36	1 12	12 34	2 21	4 1	0 35	15 14	1 48	27 21	15 24	12 55	12 55	18 7		n.a.
T 29	13 15	9 33	5 2	15 46	0 55	25 59	2 46	11 56	1 32	12 34	1 12	12 33	2 21	4 2	0 35	15 14	1 48	27 21	15 25	12 55	12 54	18 7		n.a.
W30	13n35	5s33	4n32	16n36	1n 4	26n 5	2n46	11n50	1n30	12s31	1n12	12s32	2n21	4n 4	0s35	15s14	1n48	27s21	15s25	12s55	12s53	18n 8		n.a.

Julian Day Number = 1661247.5, Delta T = 03h25m37s
Ecliptic obliquity = 23°42'48, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°20'32, Lahiri = - 6°13'31 Julian Calendar 1 Apr. 165 BCE == Greg. Calendar 29 March 165 BCE

The year -164 astronomical counting style corresponds to year 165 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 165 BCE
geocentric

MAY 165 BCE (-164) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 22 41	6♉39'50	17♓44	14♉ 4	20♊58	3♍24	5°R47	9°R14	11♈34	16°R25	26♒ 8	3♏46	3♏37	0♊ 0	n.a.	T 1
F 2	14 26 37	7°37'12	0♈10	16°11	22° 1	3°35	5♏40	9♏ 9	11°37	16♏24	26° 8	3°47	3°34	0° 7	n.a.	F 2
S 3	14 30 34	8°34'34	12°24	18°17	23° 4	3°47	5°32	9° 5	11°40	16°22	26° 9	3°47	3°31	0°14	n.a.	S 3
S 4	14 34 30	9°31'55	24°29	20°21	24° 6	3°59	5°25	9° 1	11°43	16°20	26°10	3°47	3°28	0°20	n.a.	S 4
M 5	14 38 27	10°29'15	6♉26	22°23	25° 9	4°13	5°17	8°56	11°47	16°19	26°10	3°R47	3°25	0°27	n.a.	M 5
T 6	14 42 23	11°26'34	18°18	24°23	26°11	4°26	5° 9	8°52	11°50	16°17	26°11	3°47	3°22	0°34	n.a.	T 6
W 7	14 46 20	12°23'52	0♊ 6	26°21	27°12	4°41	5° 2	8°47	11°53	16°16	26°11	3°46	3°18	0°40	n.a.	W 7
T 8	14 50 16	13°21'10	11°55	28°16	28°14	4°56	4°54	8°43	11°56	16°14	26°12	3°45	3°15	0°47	n.a.	T 8
F 9	14 54 13	14°18'26	23°44	0♊10	29°15	5°11	4°47	8°39	11°59	16°12	26°12	3°44	3°12	0°54	n.a.	F 9
S 10	14 58 10	15°15'42	5♋39	2° 0	0♋16	5°27	4°39	8°34	12° 2	16°11	26°13	3°42	3° 9	1° 0	n.a.	S 10
S 11	15 2 6	16°12'57	17°42	3°49	1°16	5°43	4°32	8°30	12° 5	16° 9	26°13	3°41	3° 6	1° 7	n.a.	S 11
M12	15 6 3	17°10'10	29°56	5°35	2°16	6° 0	4°25	8°25	12° 8	16° 8	26°14	3°40	3° 3	1°13	n.a.	M12
T 13	15 9 59	18° 7'23	12♌25	7°18	3°16	6°18	4°17	8°21	12°11	16° 6	26°14	3°D39	2°59	1°20	n.a.	T 13
W14	15 13 56	19° 4'35	25°14	8°59	4°15	6°36	4°10	8°17	12°14	16° 4	26°14	3°39	2°56	1°27	n.a.	W14
T 15	15 17 52	20° 1'46	8♍26	10°37	5°14	6°55	4° 3	8°13	12°17	16° 3	26°15	3°40	2°53	1°33	n.a.	T 15
F 16	15 21 49	20°58'56	22° 3	12°13	6°13	7°14	3°56	8° 8	12°20	16° 1	26°15	3°41	2°50	1°40	n.a.	F 16
S 17	15 25 45	21°56'06	6♎ 7	13°46	7°11	7°33	3°49	8° 4	12°22	15°59	26°15	3°42	2°47	1°47	n.a.	S 17
S 18	15 29 42	22°53'14	20°36	15°17	8° 9	7°53	3°42	8° 0	12°25	15°58	26°16	3°43	2°43	1°53	n.a.	S 18
M19	15 33 39	23°50'22	5♏27	16°45	9° 6	8°13	3°35	7°56	12°28	15°56	26°16	3°R43	2°40	2° 0	n.a.	M19
T 20	15 37 35	24°47'30	20°34	18°10	10° 3	8°34	3°29	7°52	12°31	15°55	26°16	3°43	2°37	2° 7	n.a.	T 20
W21	15 41 32	25°44'37	5♐47	19°33	10°59	8°55	3°22	7°48	12°33	15°53	26°16	3°41	2°34	2°13	n.a.	W21
T 22	15 45 28	26°41'44	20°57	20°53	11°55	9°17	3°16	7°43	12°36	15°51	26°17	3°39	2°31	2°20	n.a.	T 22
F 23	15 49 25	27°38'50	5♑55	22°10	12°50	9°39	3° 9	7°39	12°39	15°50	26°17	3°36	2°28	2°27	n.a.	F 23
S 24	15 53 21	28°35'57	20°32	23°24	13°45	10° 1	3° 3	7°35	12°41	15°48	26°17	3°32	2°24	2°33	n.a.	S 24
S 25	15 57 18	29°33'04	4♒44	24°36	14°39	10°24	2°57	7°32	12°44	15°47	26°17	3°30	2°21	2°40	n.a.	S 25
M26	16 1 15	0♊30'10	18°29	25°44	15°33	10°47	2°51	7°28	12°47	15°45	26°17	3°28	2°18	2°47	n.a.	M26
T 27	16 5 11	1°27'17	1♓48	26°50	16°26	11°11	2°45	7°24	12°49	15°44	26°17	3°D28	2°15	2°53	n.a.	T 27
W28	16 9 8	2°24'23	14°41	27°53	17°19	11°35	2°39	7°20	12°52	15°42	26°17	3°28	2°12	3° 0	n.a.	W28
T 29	16 13 4	3°21'30	27°15	28°52	18°11	11°59	2°33	7°16	12°54	15°41	26°17	3°30	2° 9	3° 7	n.a.	T 29
F 30	16 17 1	4°18'37	9♈31	29°48	19° 3	12°24	2°28	7°13	12°57	15°39	26°R17	3°31	2° 5	3°13	n.a.	F 30
S 31	16 20 57	5♊15'44	21♈35	0♋41	19♋53	12♍49	2♏22	7♏ 9	12♈59	15♏38	26♒17	3♏33	2♏ 2	3♊20	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	13n54	1s24	3n49	17n24	1n13	26n10	2n47	11n44	1n27	12s29	1n11	12s30	2n21	4n 5	0s35	15s13	1n48	27s21	15s25	12s55	12s52	18n 9			n.a.
F 2	14 13	2n45	2 56	18 10	1 21	26 15	2 47	11 37	1 25	12 26	1 11	12 29	2 21	4 6	0 35	15 13	1 48	27 22	15 26	12 55	12 51	18 9			n.a.
S 3	14 31	6 44	1 56	18 54	1 29	26 19	2 47	11 31	1 22	12 24	1 11	12 28	2 21	4 8	0 35	15 12	1 48	27 22	15 26	12 55	12 50	18 10			n.a.
S 4	14 50	10 23	0 52	19 35	1 36	26 22	2 48	11 24	1 20	12 22	1 11	12 26	2 21	4 9	0 35	15 12	1 48	27 22	15 26	12 55	12 49	18 11			n.a.
M 5	15 8	13 35	0s15	20 14	1 43	26 25	2 48	11 17	1 17	12 19	1 11	12 25	2 21	4 10	0 35	15 11	1 48	27 22	15 27	12 55	12 48	18 11			n.a.
T 6	15 26	16 12	1 20	20 50	1 49	26 27	2 47	11 9	1 15	12 17	1 11	12 23	2 21	4 11	0 35	15 11	1 48	27 22	15 27	12 55	12 47	18 12			n.a.
W 7	15 44	18 7	2 21	21 24	1 54	26 28	2 47	11 2	1 13	12 14	1 11	12 22	2 21	4 12	0 35	15 10	1 48	27 22	15 27	12 55	12 45	18 12			n.a.
T 8	16 2	19 14	3 16	21 55	1 58	26 29	2 47	10 54	1 10	12 12	1 11	12 21	2 21	4 14	0 35	15 10	1 48	27 22	15 28	12 55	12 44	18 13			n.a.
F 9	16 19	19 31	4 3	22 24	2 2	26 29	2 46	10 46	1 8	12 9	1 10	12 19	2 21	4 15	0 35	15 9	1 48	27 22	15 28	12 54	12 43	18 14			n.a.
S 10	16 36	18 56	4 40	22 51	2 5	26 28	2 46	10 38	1 6	12 7	1 10	12 18	2 21	4 16	0 35	15 9	1 48	27 23	15 29	12 54	12 42	18 14			n.a.
S 11	16 53	17 30	5 4	23 14	2 7	26 27	2 45	10 30	1 4	12 5	1 10	12 17	2 21	4 17	0 35	15 8	1 48	27 23	15 29	12 53	12 41	18 15			n.a.
M12	17 9	15 15	5 16	23 36	2 9	26 25	2 44	10 22	1 2	12 2	1 10	12 15	2 21	4 18	0 35	15 8	1 48	27 23	15 29	12 53	12 40	18 15			n.a.
T 13	17 25	12 16	5 13	23 55	2 10	26 23	2 43	10 13	0 59	12 0	1 10	12 14	2 20	4 19	0 35	15 8	1 48	27 23	15 30	12 53	12 39	18 16			n.a.
W14	17 41	8 38	4 55	24 11	2 10	26 20	2 42	10 5	0 57	11 58	1 10	12 13	2 20	4 21	0 35	15 7	1 48	27 23	15 30	12 53	12 38	18 17			n.a.
T 15	17 57	4 29	4 20	24 26	2 9	26 16	2 40	9 56	0 55	11 56	1 9	12 12	2 20	4 22	0 35	15 7	1 48	27 24	15 30	12 53	12 37	18 17			n.a.
F 16	18 12	0s 2	3 31	24 38	2 8	26 12	2 39	9 47	0 53	11 53	1 9	12 10	2 20	4 23	0 35	15 6	1 48	27 24	15 31	12 53	12 36	18 18			n.a.
S 17	18 28	4 42	2 27	24 48	2 6	26 8	2 37	9 37	0 51	11 51	1 9	12 9	2 20	4 24	0 35	15 6	1 48	27 24	15 31	12 54	12 34	18 18			n.a.
S 18	18 42	9 15	1 12	24 56	2 3	26 2	2 35	9 28	0 49	11 49	1 9	12 8	2 20	4 25	0 35	15 5	1 48	27 24	15 32	12 54	12 33	18 19			n.a.
M19	18 57	13 20	0n10	25 2	2 0	25 56	2 33	9 18	0 47	11 47	1 9	12 7	2 20	4 26	0 36	15 5	1 48	27 25	15 32	12 54	12 32	18 19			n.a.
T 20	19 11	16 37	1 32	25 6	1 56	25 50	2 31	9 9	0 45	11 45	1 9	12 5	2 20	4 27	0 36	15 4	1 48	27 25	15 32	12 54	12 31	18 20			n.a.
W21	19 25	18 46	2 48	25 8	1 51	25 43	2 28	8 59	0 43	11 43	1 8	12 4	2 20	4 28	0 36	15 4	1 48	27 25	15 33	12 53	12 30	18 21			n.a.
T 22	19 38	19 33	3 52	25 9	1 46	25 35	2 26	8 49	0 41	11 41	1 8	12 3	2 19	4 29	0 36	15 3	1 48	27 25	15 33	12 52	12 29	18 21			n.a.
F 23	19 52	18 56	4 39	25 8	1 39	25 27	2 23	8 39	0 39	11 39	1 8	12 2	2 19	4 30	0 36	15 3	1 48	27 26	15 33	12 51	12 28	18 22			n.a.
S 24	20 5	17 4	5 7	25 5	1 33	25 19	2 20	8 28	0 37	11 37	1 8	12 1	2 19	4 31	0 36	15 3	1 48	27 26	15 34	12 50	12 27	18 22			n.a.
S 25	20 17	14 12	5 14	25 1	1 25	25 10	2 17	8 18	0 35	11 35	1 8	11 59	2 19	4 32	0 36	15 2	1 48	27 26	15 34	12 49	12 26	18 23			n.a.
M26	20 29	10 38	5 4	24 56	1 17	25 0	2 13	8 7	0 33	11 33	1 7	11 58	2 19	4 33	0 36	15 2	1 48	27 27	15 35	12 49	12 25	18 23			n.a.
T 27	20 41	6 39	4 37	24 49	1 9	24 50	2 10	7 56	0 32	11 31	1 7	11 57	2 19	4 34	0 36	15 1	1 48	27 27	15 35	12 49	12 23	18 24			n.a.
W28	20 53	2 27	3 57	24 41	0 59	24 40	2 6	7 45	0 30	11 29	1 7	11 56	2 19	4 35	0 36	15 1	1 48	27 27	15 35	12 49	12 22	18 24			n.a.
T 29	21 4	1n44	3 6	24 32	0 50	24 29	2 2	7 34	0 28	11 27	1 7	11 55	2 18	4 36	0 36	15 0	1 48	27 27	15 36	12 49	12 21	18 25			n.a.
F 30	21 15	5 46	2 8	24 22	0 39	24 18	1 58	7 23	0 26	11 26	1 6	11 54	2 18	4 37	0 36	15 0	1 47	27 28	15 36	12 50	12 20	18 25			n.a.
S 31	21n25	9n31	1n 5	24n11	0n28	24n 6	1n54	7n12	0n25	11s24	1n 6	11s53	2n18	4n38	0s36	15s 0	1n47	27s28	15s36	12s50	12s19	18n26			n.a.

Julian Day Number = 1661277.5, Delta T = 03h25m36s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°20'27, Lahiri = - 6°13'27 Julian Calendar 1 May 165 BCE == Greg. Calendar 28 Apr. 165 BCE

The year -164 astronomical counting style corresponds to year 165 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 165 BCE
geocentric

JUNE 165 BCE (-164) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 24 54	6♊12'51	3♉31	1♋30	20♋43	13♍15	2°R17	7°R 5	13♈ 1	15°R36	26°R17	3°R33	1♏59	3♊27	n.a.	S 1
M 2	16 28 50	7° 9'59	15°21	2°16	21°33	13°41	2♏12	7♏ 2	13° 4	15♏35	26♒17	3♏33	1°56	3°33	n.a.	M 2
T 3	16 32 47	8° 7'07	27° 9	2°58	22°22	14° 7	2° 7	6°58	13° 6	15°33	26°17	3°30	1°53	3°40	n.a.	T 3
W 4	16 36 44	9° 4'14	8♊57	3°37	23°10	14°33	2° 2	6°55	13° 8	15°32	26°17	3°26	1°49	3°47	n.a.	W 4
T 5	16 40 40	10° 1'22	20°48	4°11	23°57	15° 0	1°57	6°52	13°11	15°30	26°17	3°21	1°46	3°53	n.a.	T 5
F 6	16 44 37	10°58'30	2♋42	4°41	24°43	15°27	1°53	6°48	13°13	15°29	26°17	3°14	1°43	4° 0	n.a.	F 6
S 7	16 48 33	11°55'38	14°43	5° 7	25°29	15°54	1°48	6°45	13°15	15°27	26°17	3° 7	1°40	4° 7	n.a.	S 7
S 8	16 52 30	12°52'47	26°52	5°29	26°13	16°22	1°44	6°42	13°17	15°26	26°17	3° 1	1°37	4°13	n.a.	S 8
M 9	16 56 26	13°49'55	9♌11	5°46	26°57	16°50	1°40	6°39	13°19	15°25	26°16	2°55	1°34	4°20	n.a.	M 9
T 10	17 0 23	14°47'03	21°44	5°59	27°40	17°19	1°36	6°36	13°21	15°23	26°16	2°51	1°30	4°27	n.a.	T 10
W11	17 4 19	15°44'11	4♍32	6° 7	28°22	17°47	1°33	6°33	13°23	15°22	26°16	2°49	1°27	4°33	n.a.	W11
T 12	17 8 16	16°41'20	17°39	6°R10	29° 3	18°16	1°29	6°30	13°25	15°21	26°16	2°D48	1°24	4°40	n.a.	T 12
F 13	17 12 13	17°38'28	1♎ 8	6° 8	29°42	18°46	1°26	6°27	13°27	15°19	26°15	2°49	1°21	4°47	n.a.	F 13
S 14	17 16 9	18°35'36	15° 2	6° 2	0♌21	19°15	1°22	6°25	13°29	15°18	26°15	2°50	1°18	4°53	n.a.	S 14
S 15	17 20 6	19°32'45	29°19	5°51	0°58	19°45	1°19	6°22	13°31	15°17	26°15	2°R51	1°14	5° 0	n.a.	S 15
M16	17 24 2	20°29'54	14♏ 0	5°35	1°35	20°15	1°17	6°20	13°33	15°15	26°14	2°50	1°11	5° 7	n.a.	M16
T 17	17 27 59	21°27'03	28°59	5°15	2°10	20°45	1°14	6°17	13°34	15°14	26°14	2°48	1° 8	5°13	n.a.	T 17
W18	17 31 55	22°24'13	14♐ 9	4°50	2°44	21°16	1°11	6°15	13°36	15°13	26°13	2°44	1° 5	5°20	n.a.	W18
T 19	17 35 52	23°21'23	29°21	4°21	3°16	21°46	1° 9	6°12	13°38	15°12	26°13	2°37	1° 2	5°27	n.a.	T 19
F 20	17 39 48	24°18'34	14♑25	3°49	3°47	22°18	1° 7	6°10	13°39	15°11	26°13	2°30	0°59	5°34	n.a.	F 20
S 21	17 43 45	25°15'46	29°11	3°13	4°17	22°49	1° 5	6° 8	13°41	15°10	26°12	2°22	0°55	5°40	n.a.	S 21
S 22	17 47 42	26°12'58	13♒32	2°35	4°45	23°20	1° 3	6° 6	13°43	15° 8	26°12	2°15	0°52	5°47	n.a.	S 22
M23	17 51 38	27°10'12	27°24	1°54	5°11	23°52	1° 1	6° 4	13°44	15° 7	26°11	2°10	0°49	5°54	n.a.	M23
T 24	17 55 35	28° 7'26	10♓47	1°12	5°36	24°24	1° 0	6° 2	13°45	15° 6	26°11	2° 6	0°46	6° 0	n.a.	T 24
W25	17 59 31	29° 4'41	23°43	0°29	6° 0	24°56	0°59	6° 0	13°47	15° 5	26°10	2°D 5	0°43	6° 7	n.a.	W25
T 26	18 3 28	0♋ 1'58	6♈15	29♊47	6°21	25°29	0°58	5°59	13°48	15° 4	26° 9	2° 5	0°40	6°14	n.a.	T 26
F 27	18 7 24	0°59'15	18°29	29° 5	6°41	26° 1	0°57	5°57	13°50	15° 3	26° 9	2° 5	0°36	6°20	n.a.	F 27
S 28	18 11 21	1°56'34	0♉29	28°24	6°59	26°34	0°56	5°55	13°51	15° 2	26° 8	2°R 6	0°33	6°27	n.a.	S 28
S 29	18 15 17	2°53'54	12°21	27°46	7°16	27° 8	0°55	5°54	13°52	15° 1	26° 8	2° 5	0°30	6°34	n.a.	S 29
M30	18 19 14	3♋51'15	24♉ 9	27♊10	7♌30	27♍41	0♏55	5♏53	13♈53	15♏ 0	26♒ 7	2♏ 3	0♏27	6♊40	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n36	12n50	0n 0	23n59	0n17	23n54	1n49	7n 0	0n23	11s22	1n 6	11s52	2n18	4n39	0s36	14s59	1n47	27s29	15s37	12s51	12s18	18n27		n.a.
M 2	21 45	15 36	1s 4	23 46	0 5	23 41	1 45	6 49	0 21	11 21	1 6	11 51	2 18	4 40	0 36	14 59	1 47	27 29	15 37	12 50	12 17	18 27		n.a.
T 3	21 55	17 43	2 5	23 33	0s 8	23 28	1 40	6 37	0 19	11 19	1 5	11 50	2 18	4 41	0 36	14 58	1 47	27 29	15 37	12 50	12 16	18 28		n.a.
W 4	22 4	19 4	3 1	23 19	0 21	23 15	1 34	6 25	0 18	11 18	1 5	11 49	2 17	4 42	0 36	14 58	1 47	27 30	15 38	12 48	12 15	18 28		n.a.
T 5	22 12	19 35	3 49	23 4	0 34	23 1	1 29	6 13	0 16	11 16	1 5	11 48	2 17	4 43	0 36	14 58	1 47	27 30	15 38	12 46	12 13	18 29		n.a.
F 6	22 21	19 14	4 27	22 50	0 48	22 48	1 23	6 1	0 14	11 15	1 5	11 47	2 17	4 44	0 36	14 57	1 47	27 30	15 39	12 44	12 12	18 29		n.a.
S 7	22 29	18 1	4 54	22 35	1 2	22 33	1 18	5 49	0 13	11 14	1 4	11 46	2 17	4 44	0 36	14 57	1 47	27 31	15 39	12 42	12 11	18 30		n.a.
S 8	22 36	15 59	5 8	22 19	1 17	22 19	1 11	5 37	0 11	11 13	1 4	11 45	2 17	4 45	0 36	14 56	1 47	27 31	15 39	12 39	12 10	18 30		n.a.
M 9	22 43	13 13	5 8	22 4	1 31	22 4	1 5	5 24	0 10	11 11	1 4	11 45	2 16	4 46	0 36	14 56	1 47	27 32	15 40	12 37	12 9	18 31		n.a.
T 10	22 50	9 48	4 53	21 48	1 46	21 49	0 59	5 12	0 8	11 10	1 4	11 44	2 16	4 47	0 36	14 56	1 47	27 32	15 40	12 36	12 8	18 31		n.a.
W11	22 56	5 52	4 24	21 33	2 1	21 34	0 52	4 59	0 7	11 9	1 3	11 43	2 16	4 48	0 36	14 55	1 47	27 32	15 40	12 35	12 7	18 32		n.a.
T 12	23 2	1 34	3 40	21 18	2 16	21 19	0 45	4 46	0 5	11 8	1 3	11 42	2 16	4 48	0 36	14 55	1 47	27 33	15 41	12 35	12 6	18 32		n.a.
F 13	23 8	2s57	2 43	21 3	2 31	21 3	0 37	4 33	0 4	11 7	1 3	11 42	2 16	4 49	0 36	14 55	1 47	27 33	15 41	12 35	12 5	18 33		n.a.
S 14	23 13	7 26	1 35	20 48	2 46	20 47	0 30	4 20	0 2	11 6	1 3	11 41	2 15	4 50	0 36	14 54	1 47	27 34	15 41	12 36	12 3	18 33		n.a.
S 15	23 18	11 39	0 19	20 34	3 1	20 31	0 22	4 7	0 1	11 6	1 2	11 40	2 15	4 50	0 36	14 54	1 47	27 34	15 42	12 36	12 2	18 33		n.a.
M16	23 22	15 16	1n 0	20 21	3 15	20 15	0 14	3 54	0s 1	11 5	1 2	11 40	2 15	4 51	0 36	14 54	1 47	27 35	15 42	12 36	12 1	18 34		n.a.
T 17	23 26	17 57	2 16	20 8	3 28	19 59	0 5	3 40	0 2	11 4	1 2	11 39	2 15	4 52	0 36	14 53	1 47	27 35	15 43	12 35	12 0	18 34		n.a.
W18	23 30	19 23	3 24	19 56	3 41	19 43	0s 3	3 27	0 4	11 4	1 2	11 38	2 15	4 52	0 36	14 53	1 47	27 36	15 43	12 33	11 59	18 35		n.a.
T 19	23 33	19 26	4 17	19 45	3 53	19 27	0 12	3 13	0 5	11 3	1 1	11 38	2 14	4 53	0 36	14 53	1 47	27 36	15 43	12 31	11 58	18 35		n.a.
F 20	23 35	18 5	4 52	19 35	4 4	19 11	0 21	3 0	0 6	11 2	1 1	11 37	2 14	4 54	0 36	14 52	1 47	27 37	15 44	12 29	11 57	18 36		n.a.
S 21	23 38	15 34	5 6	19 26	4 14	18 54	0 31	2 46	0 8	11 2	1 1	11 37	2 14	4 54	0 36	14 52	1 47	27 37	15 44	12 26	11 56	18 36		n.a.
S 22	23 39	12 9	5 1	19 18	4 23	18 38	0 41	2 32	0 9	11 2	1 1	11 36	2 14	4 55	0 36	14 52	1 47	27 38	15 44	12 24	11 55	18 37		n.a.
M23	23 41	8 10	4 38	19 12	4 30	18 22	0 51	2 18	0 10	11 1	1 0	11 36	2 13	4 55	0 36	14 52	1 47	27 38	15 45	12 22	11 53	18 37		n.a.
T 24	23 42	3 55	4 0	19 6	4 36	18 6	1 1	2 4	0 12	11 1	1 0	11 35	2 13	4 56	0 36	14 51	1 47	27 39	15 45	12 20	11 52	18 38		n.a.
W25	23 43	0n24	3 11	19 2	4 40	17 50	1 12	1 50	0 13	11 1	1 0	11 35	2 13	4 57	0 36	14 51	1 47	27 39	15 45	12 20	11 51	18 38		n.a.
T 26	23 43	4 33	2 14	19 0	4 43	17 34	1 23	1 36	0 14	11 1	0 59	11 35	2 13	4 57	0 36	14 51	1 46	27 40	15 46	12 20	11 50	18 38		n.a.
F 27	23 43	8 26	1 12	18 59	4 44	17 18	1 34	1 22	0 16	11 1	0 59	11 34	2 13	4 58	0 36	14 51	1 46	27 40	15 46	12 20	11 49	18 39		n.a.
S 28	23 42	11 54	0 9	19 0	4 43	17 2	1 45	1 7	0 17	11 1	0 59	11 34	2 12	4 58	0 36	14 50	1 46	27 41	15 46	12 20	11 48	18 39		n.a.
S 29	23 41	14 51	0s55	19 2	4 40	16 47	1 57	0 53	0 18	11 1	0 59	11 34	2 12	4 58	0 36	14 50	1 46	27 41	15 47	12 20	11 47	18 40		n.a.
M30	23n39	17n10	1s55	19n 6	4s35	16n32	2s 9	0n38	0s19	11s 1	0n58	11s34	2n12	4n59	0s36	14s50	1n46	27s42	15s47	12s19	11s46	18n40		n.a.

Julian Day Number = 1661308.5, Delta T = 03h25m35s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°20'23, Lahiri = - 6°13'23 Julian Calendar 1 June 165 BCE == Greg. Calendar 29 May 165 BCE

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ASTRODIENST EPHEMERIS for the year 165 BCE
geocentric

JULY 165 BCE (-164) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 23 11	4♋48'37	5♊56	26°R39	7♌42	28♍14	0°D55	5°R51	13♈54	14°R59	26°R 6	1°R58	0♏24	6♊47	n.a.	T 1
W 2	18 27 7	5°46'00	17°47	26♊12	7°52	28°48	0♏55	5♏50	13°55	14♏58	26♒ 6	1♏51	0°20	6°54	n.a.	W 2
T 3	18 31 4	6°43'24	29°43	25°49	8° 0	29°22	0°55	5°49	13°56	14°58	26° 5	1°41	0°17	7° 0	n.a.	T 3
F 4	18 35 0	7°40'50	11♋46	25°32	8° 6	29°56	0°55	5°48	13°57	14°57	26° 4	1°29	0°14	7° 7	n.a.	F 4
S 5	18 38 57	8°38'16	23°57	25°21	8°10	0♎31	0°56	5°47	13°58	14°56	26° 3	1°17	0°11	7°14	n.a.	S 5
S 6	18 42 53	9°35'43	6♌18	25°D15	8°R12	1° 5	0°57	5°46	13°59	14°55	26° 3	1° 6	0° 8	7°20	n.a.	S 6
M 7	18 46 50	10°33'12	18°49	25°17	8°11	1°40	0°58	5°46	14° 0	14°54	26° 2	0°55	0° 5	7°27	n.a.	M 7
T 8	18 50 47	11°30'41	1♍31	25°24	8° 8	2°15	0°59	5°45	14° 1	14°54	26° 1	0°47	0° 1	7°34	n.a.	T 8
W 9	18 54 43	12°28'12	14°26	25°39	8° 2	2°50	1° 0	5°45	14° 2	14°53	26° 0	0°42	29♎58	7°40	n.a.	W 9
T 10	18 58 40	13°25'43	27°36	26° 0	7°54	3°26	1° 2	5°44	14° 2	14°52	25°59	0°39	29°55	7°47	n.a.	T 10
F 11	19 2 36	14°23'15	11♎ 3	26°28	7°44	4° 1	1° 3	5°44	14° 3	14°52	25°59	0°D38	29°52	7°54	n.a.	F 11
S 12	19 6 33	15°20'49	24°48	27° 3	7°31	4°37	1° 5	5°44	14° 4	14°51	25°58	0°R38	29°49	8° 0	n.a.	S 12
S 13	19 10 29	16°18'23	8♏53	27°45	7°16	5°13	1° 7	5°43	14° 4	14°51	25°57	0°38	29°46	8° 7	n.a.	S 13
M14	19 14 26	17°15'58	23°17	28°33	6°59	5°49	1°10	5°D43	14° 5	14°50	25°56	0°36	29°42	8°14	n.a.	M14
T 15	19 18 22	18°13'35	7♐59	29°28	6°39	6°25	1°12	5°44	14° 5	14°50	25°55	0°33	29°39	8°20	n.a.	T 15
W16	19 22 19	19°11'13	22°53	0♋29	6°17	7° 2	1°14	5°44	14° 5	14°49	25°54	0°26	29°36	8°27	n.a.	W16
T 17	19 26 16	20° 8'52	7♑52	1°37	5°53	7°38	1°17	5°44	14° 6	14°49	25°53	0°17	29°33	8°34	n.a.	T 17
F 18	19 30 12	21° 6'32	22°46	2°50	5°27	8°15	1°20	5°44	14° 6	14°48	25°52	0° 6	29°30	8°40	n.a.	F 18
S 19	19 34 9	22° 4'14	7♒27	4° 9	4°59	8°52	1°23	5°45	14° 6	14°48	25°51	29♎55	29°26	8°47	n.a.	S 19
S 20	19 38 5	23° 1'57	21°47	5°34	4°29	9°29	1°27	5°45	14° 7	14°47	25°50	29°45	29°23	8°54	n.a.	S 20
M21	19 42 2	23°59'42	5♓41	7° 3	3°58	10° 6	1°30	5°46	14° 7	14°47	25°49	29°36	29°20	9° 0	n.a.	M21
T 22	19 45 58	24°57'29	19° 7	8°37	3°25	10°43	1°34	5°47	14° 7	14°47	25°48	29°30	29°17	9° 7	n.a.	T 22
W23	19 49 55	25°55'17	2♈ 5	10°16	2°51	11°21	1°37	5°47	14° 7	14°47	25°47	29°27	29°14	9°14	n.a.	W23
T 24	19 53 51	26°53'07	14°40	11°58	2°16	11°59	1°41	5°48	14°R 7	14°46	25°46	29°25	29°11	9°20	n.a.	T 24
F 25	19 57 48	27°51'00	26°55	13°43	1°40	12°37	1°45	5°49	14° 7	14°46	25°45	29°25	29° 7	9°27	n.a.	F 25
S 26	20 1 44	28°48'54	8♉56	15°32	1° 4	13°15	1°50	5°51	14° 7	14°46	25°44	29°25	29° 4	9°34	n.a.	S 26
S 27	20 5 41	29°46'50	20°47	17°23	0°27	13°53	1°54	5°52	14° 7	14°46	25°43	29°24	29° 1	9°40	n.a.	S 27
M28	20 9 38	0♌44'48	2♊36	19°16	29♋50	14°31	1°59	5°53	14° 6	14°46	25°42	29°21	28°58	9°47	n.a.	M28
T 29	20 13 34	1°42'48	14°25	21°11	29°13	15° 9	2° 4	5°54	14° 6	14°46	25°41	29°15	28°55	9°54	n.a.	T 29
W30	20 17 31	2°40'50	26°20	23° 7	28°36	15°48	2° 9	5°56	14° 6	14°46	25°40	29° 7	28°52	10° 1	n.a.	W30
T 31	20 21 27	3♌38'53	8♋23	25♋ 3	28♋ 1	16♎27	2♏14	5♏58	14♈ 6	14°D46	25♒39	28♎56	28♎48	10♊ 7	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	23n37	18n45	2s50	19n11	4s29	16n17	2s21	0n24	0s21	11s 1	0n58	11s33	2n12	4n59	0s36	14s50	1n46	27s42	15s47	12s18	11s44	18n41			n.a.
W 2	23 35	19 31	3 39	19 18	4 22	16 2	2 34	0 9	0 22	11 1	0 58	11 33	2 11	5 0	0 36	14 49	1 46	27 43	15 47	12 15	11 43	18 41			n.a.
T 3	23 32	19 25	4 17	19 26	4 13	15 48	2 46	0s 6	0 23	11 2	0 58	11 33	2 11	5 0	0 36	14 49	1 46	27 43	15 48	12 12	11 42	18 41			n.a.
F 4	23 29	18 27	4 45	19 36	4 3	15 34	2 59	0 21	0 24	11 2	0 57	11 33	2 11	5 0	0 36	14 49	1 46	27 44	15 48	12 8	11 41	18 42			n.a.
S 5	23 26	16 38	5 0	19 47	3 51	15 20	3 12	0 36	0 25	11 3	0 57	11 33	2 11	5 1	0 36	14 49	1 46	27 44	15 48	12 3	11 40	18 42			n.a.
S 6	23 22	14 3	5 1	19 59	3 39	15 7	3 26	0 50	0 26	11 3	0 57	11 33	2 10	5 1	0 37	14 49	1 46	27 45	15 49	11 59	11 39	18 43			n.a.
M 7	23 17	10 48	4 48	20 12	3 26	14 54	3 39	1 5	0 28	11 4	0 56	11 33	2 10	5 1	0 37	14 48	1 46	27 45	15 49	11 56	11 38	18 43			n.a.
T 8	23 12	7 0	4 20	20 27	3 11	14 42	3 53	1 21	0 29	11 4	0 56	11 33	2 10	5 2	0 37	14 48	1 46	27 46	15 49	11 53	11 37	18 43			n.a.
W 9	23 7	2 50	3 39	20 42	2 57	14 30	4 6	1 36	0 30	11 5	0 56	11 33	2 10	5 2	0 37	14 48	1 46	27 46	15 49	11 51	11 35	18 44			n.a.
T 10	23 2	1s34	2 46	20 58	2 42	14 19	4 20	1 51	0 31	11 6	0 56	11 33	2 9	5 2	0 37	14 48	1 46	27 47	15 50	11 50	11 34	18 44			n.a.
F 11	22 56	5 59	1 42	21 14	2 26	14 8	4 34	2 6	0 32	11 7	0 55	11 33	2 9	5 2	0 37	14 48	1 46	27 48	15 50	11 49	11 33	18 45			n.a.
S 12	22 49	10 11	0 31	21 31	2 10	13 58	4 48	2 22	0 33	11 8	0 55	11 33	2 9	5 3	0 37	14 48	1 46	27 48	15 50	11 49	11 32	18 45			n.a.
S 13	22 42	13 56	0n44	21 47	1 54	13 48	5 1	2 37	0 34	11 9	0 55	11 34	2 9	5 3	0 37	14 48	1 46	27 49	15 51	11 49	11 31	18 45			n.a.
M14	22 35	16 55	1 57	22 4	1 38	13 40	5 15	2 52	0 35	11 10	0 55	11 34	2 8	5 3	0 37	14 48	1 45	27 49	15 51	11 49	11 30	18 46			n.a.
T 15	22 27	18 52	3 4	22 20	1 22	13 31	5 28	3 8	0 36	11 11	0 54	11 34	2 8	5 3	0 37	14 47	1 45	27 50	15 51	11 48	11 29	18 46			n.a.
W16	22 19	19 32	3 59	22 36	1 7	13 24	5 42	3 23	0 37	11 12	0 54	11 34	2 8	5 3	0 37	14 47	1 45	27 50	15 51	11 45	11 27	18 46			n.a.
T 17	22 11	18 50	4 39	22 51	0 51	13 17	5 55	3 39	0 38	11 13	0 54	11 35	2 8	5 3	0 37	14 47	1 45	27 51	15 51	11 42	11 26	18 47			n.a.
F 18	22 2	16 51	4 59	23 5	0 36	13 11	6 8	3 54	0 39	11 14	0 53	11 35	2 7	5 4	0 37	14 47	1 45	27 51	15 52	11 38	11 25	18 47			n.a.
S 19	21 53	13 48	4 58	23 17	0 22	13 5	6 20	4 10	0 40	11 16	0 53	11 36	2 7	5 4	0 37	14 47	1 45	27 52	15 52	11 34	11 24	18 47			n.a.
S 20	21 43	10 0	4 39	23 28	0 8	13 1	6 32	4 26	0 41	11 17	0 53	11 36	2 7	5 4	0 37	14 47	1 45	27 53	15 52	11 31	11 23	18 48			n.a.
M21	21 33	5 45	4 4	23 37	0n 5	12 57	6 43	4 41	0 42	11 18	0 53	11 36	2 7	5 4	0 37	14 47	1 45	27 53	15 52	11 28	11 22	18 48			n.a.
T 22	21 23	1 21	3 16	23 44	0 18	12 54	6 54	4 57	0 43	11 20	0 52	11 37	2 6	5 4	0 37	14 47	1 45	27 54	15 53	11 25	11 21	18 48			n.a.
W23	21 12	2n58	2 19	23 49	0 30	12 51	7 4	5 13	0 44	11 22	0 52	11 37	2 6	5 4	0 37	14 47	1 45	27 54	15 53	11 24	11 20	18 49			n.a.
T 24	21 1	7 2	1 17	23 51	0 41	12 50	7 14	5 28	0 45	11 23	0 52	11 38	2 6	5 4	0 37	14 47	1 45	27 55	15 53	11 24	11 18	18 49			n.a.
F 25	20 50	10 42	0 13	23 51	0 51	12 49	7 23	5 44	0 46	11 25	0 52	11 39	2 6	5 4	0 37	14 47	1 45	27 55	15 53	11 23	11 17	18 49			n.a.
S 26	20 38	13 51	0s50	23 48	1 1	12 48	7 31	6 0	0 47	11 27	0 51	11 39	2 5	5 4	0 37	14 47	1 45	27 56	15 53	11 23	11 16	18 50			n.a.
S 27	20 26	16 23	1 51	23 43	1 9	12 49	7 39	6 16	0 48	11 28	0 51	11 40	2 5	5 3	0 37	14 47	1 45	27 57	15 54	11 23	11 15	18 50			n.a.
M28	20 13	18 12	2 46	23 35	1 17	12 50	7 45	6 32	0 48	11 30	0 51	11 40	2 5	5 3	0 37	14 47	1 45	27 57	15 54	11 22	11 14	18 50			n.a.
T 29	20 0	19 15	3 34	23 24	1 24	12 52	7 51	6 48	0 49	11 32	0 51	11 41	2 4	5 3	0 37	14 47	1 45	27 58	15 54	11 20	11 13	18 51			n.a.
W30	19 47	19 27	4 13	23 11	1 30	12 54	7 56	7 3	0 50	11 34	0 50	11 42	2 4	5 3	0 37	14 47	1 44	27 58	15 54	11 17	11 12	18 51			n.a.
T 31	19n34	18n46	4s41	22n55	1n35	12n57	8s 0	7s19	0s51	11s36	0n50	11s43	2n 4	5n 3	0s37	14s47	1n44	27s59	15s54	11s13	11s10	18n51			n.a.

Julian Day Number = 1661338.5, Delta T = 03h25m34s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°20'19, Lahiri = - 6°13'19 Julian Calendar 1 July 165 BCE == Greg. Calendar 28 June 165 BCE

The year -164 astronomical counting style corresponds to year 165 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 165 BCE
geocentric

AUGUST 165 BCE (-164) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 25 24	4♌36'59	20♋36	27♋ 1	27°R25	17♎ 6	2♏19	5♏59	14°R 5	14♏46	25°R38	28°R43	28♎45	10♊14	n.a.	F 1
S 2	20 29 20	5°35'06	3♌ 1	28°59	26♋51	17°45	2°24	6° 1	14♈ 5	14°46	25♒37	28♎30	28°42	10°21	n.a.	S 2
S 3	20 33 17	6°33'16	15°38	0♌56	26°18	18°24	2°30	6° 3	14° 4	14°46	25°35	28°17	28°39	10°27	n.a.	S 3
M 4	20 37 13	7°31'27	28°26	2°54	25°47	19° 3	2°36	6° 5	14° 4	14°46	25°34	28° 5	28°36	10°34	n.a.	M 4
T 5	20 41 10	8°29'40	11♍26	4°51	25°17	19°43	2°42	6° 7	14° 3	14°46	25°33	27°56	28°32	10°41	n.a.	T 5
W 6	20 45 7	9°27'54	24°37	6°48	24°49	20°22	2°48	6° 9	14° 2	14°46	25°32	27°50	28°29	10°47	n.a.	W 6
T 7	20 49 3	10°26'10	8♎ 0	8°43	24°23	21° 2	2°54	6°11	14° 2	14°46	25°31	27°46	28°26	10°54	n.a.	T 7
F 8	20 53 0	11°24'28	21°33	10°39	23°58	21°42	3° 0	6°14	14° 1	14°47	25°30	27°45	28°23	11° 1	n.a.	F 8
S 9	20 56 56	12°22'47	5♏19	12°33	23°36	22°22	3° 7	6°16	14° 0	14°47	25°28	27°45	28°20	11° 7	n.a.	S 9
S 10	21 0 53	13°21'08	19°18	14°26	23°16	23° 2	3°13	6°19	13°59	14°47	25°27	27°45	28°17	11°14	n.a.	S 10
M11	21 4 49	14°19'31	3♐30	16°18	22°58	23°42	3°20	6°21	13°58	14°48	25°26	27°44	28°13	11°21	n.a.	M11
T 12	21 8 46	15°17'55	17°53	18°10	22°43	24°22	3°27	6°24	13°58	14°48	25°25	27°40	28°10	11°27	n.a.	T 12
W13	21 12 42	16°16'22	2♑24	20° 0	22°30	25° 3	3°34	6°27	13°57	14°48	25°24	27°34	28° 7	11°34	n.a.	W13
T 14	21 16 39	17°14'49	16°59	21°49	22°19	25°43	3°41	6°29	13°56	14°49	25°22	27°26	28° 4	11°41	n.a.	T 14
F 15	21 20 36	18°13'19	1♒31	23°37	22°11	26°24	3°49	6°32	13°55	14°49	25°21	27°16	28° 1	11°47	n.a.	F 15
S 16	21 24 32	19°11'51	15°53	25°24	22° 5	27° 5	3°56	6°35	13°53	14°50	25°20	27° 5	27°58	11°54	n.a.	S 16
S 17	21 28 29	20°10'24	29°59	27°10	22° 2	27°46	4° 4	6°39	13°52	14°50	25°19	26°55	27°54	12° 1	n.a.	S 17
M18	21 32 25	21° 9'00	13♓44	28°55	22°D 1	28°27	4°12	6°42	13°51	14°51	25°18	26°47	27°51	12° 7	n.a.	M18
T 19	21 36 22	22° 7'38	27° 5	0♍39	22° 2	29° 8	4°19	6°45	13°50	14°52	25°16	26°41	27°48	12°14	n.a.	T 19
W20	21 40 18	23° 6'18	10♈ 2	2°21	22° 6	29°49	4°27	6°48	13°49	14°52	25°15	26°37	27°45	12°21	n.a.	W20
T 21	21 44 15	24° 5'00	22°37	4° 3	22°12	0♏31	4°36	6°52	13°47	14°53	25°14	26°D36	27°42	12°28	n.a.	T 21
F 22	21 48 11	25° 3'45	4♉54	5°44	22°20	1°12	4°44	6°55	13°46	14°54	25°13	26°36	27°38	12°34	n.a.	F 22
S 23	21 52 8	26° 2'32	16°56	7°24	22°31	1°54	4°52	6°59	13°44	14°54	25°12	26°37	27°35	12°41	n.a.	S 23
S 24	21 56 5	27° 1'21	28°50	9° 2	22°43	2°35	5° 1	7° 3	13°43	14°55	25°10	26°R37	27°32	12°48	n.a.	S 24
M25	22 0 1	28° 0'13	10♊39	10°40	22°58	3°17	5° 9	7° 7	13°41	14°56	25° 9	26°36	27°29	12°54	n.a.	M25
T 26	22 3 58	28°59'07	22°31	12°17	23°15	3°59	5°18	7°10	13°40	14°57	25° 8	26°33	27°26	13° 1	n.a.	T 26
W27	22 7 54	29°58'03	4♋29	13°53	23°33	4°41	5°27	7°14	13°38	14°58	25° 7	26°28	27°23	13° 8	n.a.	W27
T 28	22 11 51	0♍57'02	16°37	15°28	23°54	5°23	5°36	7°18	13°37	14°58	25° 5	26°20	27°19	13°14	n.a.	T 28
F 29	22 15 47	1°56'03	28°59	17° 2	24°16	6° 6	5°45	7°22	13°35	14°59	25° 4	26°11	27°16	13°21	n.a.	F 29
S 30	22 19 44	2°55'07	11♌35	18°35	24°40	6°48	5°54	7°27	13°33	15° 0	25° 3	26° 2	27°13	13°28	n.a.	S 30
S 31	22 23 40	3♍54'13	24♌28	20♍ 8	25♋ 6	7♏30	6♏ 4	7♏31	13♈32	15♏ 1	25♒ 2	25♎52	27♎10	13♊34	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
F 1	19n20	17n13	4s57	22n36	1n39	13n 1	8s 3	7s35	0s52	11s38	0n50	11s43	2n 4	5n 3	0s37	14s47	1n44	27s59	15s54	11s 9	11s 9	18n52		n.a.	
S 2	19 5	14 51	4 59	22 16	1 42	13 5	8 5	7 51	0 53	11 40	0 50	11 44	2 3	5 3	0 37	14 47	1 44	28 0	15 55	11 4	11 8	18 52		n.a.	
S 3	18 51	11 46	4 47	21 53	1 45	13 10	8 7	8 7	0 53	11 42	0 49	11 45	2 3	5 2	0 37	14 47	1 44	28 0	15 55	10 59	11 7	18 52		n.a.	
M 4	18 36	8 5	4 20	21 27	1 46	13 15	8 7	8 23	0 54	11 45	0 49	11 46	2 3	5 2	0 37	14 48	1 44	28 1	15 55	10 55	11 6	18 53		n.a.	
T 5	18 21	3 59	3 39	21 0	1 47	13 20	8 7	8 39	0 55	11 47	0 49	11 47	2 3	5 2	0 37	14 48	1 44	28 1	15 55	10 52	11 5	18 53		n.a.	
W 6	18 5	0s22	2 46	20 31	1 48	13 26	8 6	8 54	0 56	11 49	0 49	11 48	2 2	5 2	0 37	14 48	1 44	28 2	15 55	10 49	11 4	18 53		n.a.	
T 7	17 49	4 46	1 43	20 1	1 47	13 32	8 4	9 10	0 57	11 52	0 48	11 49	2 2	5 1	0 37	14 48	1 44	28 3	15 55	10 48	11 2	18 53		n.a.	
F 8	17 33	9 0	0 33	19 28	1 47	13 39	8 2	9 26	0 57	11 54	0 48	11 50	2 2	5 1	0 37	14 48	1 44	28 3	15 55	10 47	11 1	18 54		n.a.	
S 9	17 17	12 49	0n40	18 55	1 45	13 46	7 59	9 42	0 58	11 56	0 48	11 51	2 2	5 1	0 37	14 48	1 44	28 4	15 55	10 47	11 0	18 54		n.a.	
S 10	17 0	15 58	1 52	18 20	1 43	13 53	7 55	9 58	0 59	11 59	0 48	11 52	2 1	5 0	0 37	14 48	1 44	28 4	15 56	10 47	10 59	18 54		n.a.	
M11	16 43	18 11	2 58	17 44	1 41	14 0	7 50	10 13	1 0	12 1	0 47	11 53	2 1	5 0	0 37	14 49	1 44	28 5	15 56	10 47	10 58	18 55		n.a.	
T 12	16 26	19 17	3 53	17 6	1 38	14 7	7 45	10 29	1 0	12 4	0 47	11 54	2 1	5 0	0 37	14 49	1 44	28 5	15 56	10 46	10 57	18 55		n.a.	
W13	16 8	19 7	4 34	16 28	1 34	14 15	7 40	10 45	1 1	12 7	0 47	11 55	2 1	4 59	0 37	14 49	1 44	28 6	15 56	10 44	10 56	18 55		n.a.	
T 14	15 51	17 42	4 57	15 49	1 31	14 23	7 34	11 0	1 2	12 9	0 47	11 56	2 1	4 59	0 37	14 49	1 44	28 6	15 56	10 41	10 54	18 55		n.a.	
F 15	15 32	15 9	5 2	15 10	1 26	14 30	7 27	11 16	1 2	12 12	0 47	11 58	2 0	4 58	0 37	14 49	1 43	28 7	15 56	10 37	10 53	18 56		n.a.	
S 16	15 14	11 42	4 46	14 29	1 22	14 38	7 20	11 32	1 3	12 15	0 46	11 59	2 0	4 58	0 38	14 49	1 43	28 7	15 56	10 33	10 52	18 56		n.a.	
S 17	14 56	7 39	4 14	13 48	1 17	14 46	7 13	11 47	1 4	12 18	0 46	12 0	2 0	4 57	0 38	14 50	1 43	28 8	15 56	10 29	10 51	18 56		n.a.	
M18	14 37	3 17	3 28	13 6	1 12	14 54	7 5	12 3	1 4	12 21	0 46	12 1	2 0	4 57	0 38	14 50	1 43	28 8	15 56	10 26	10 50	18 56		n.a.	
T 19	14 18	1n 8	2 31	12 25	1 7	15 1	6 57	12 18	1 5	12 23	0 46	12 3	1 59	4 56	0 38	14 50	1 43	28 9	15 56	10 24	10 49	18 57		n.a.	
W20	13 58	5 21	1 27	11 42	1 1	15 9	6 49	12 33	1 6	12 26	0 45	12 4	1 59	4 56	0 38	14 50	1 43	28 9	15 56	10 23	10 47	18 57		n.a.	
T 21	13 39	9 14	0 21	10 59	0 55	15 16	6 41	12 49	1 6	12 29	0 45	12 5	1 59	4 55	0 38	14 51	1 43	28 9	15 56	10 22	10 46	18 57		n.a.	
F 22	13 19	12 36	0s44	10 17	0 49	15 23	6 32	13 4	1 7	12 32	0 45	12 7	1 59	4 55	0 38	14 51	1 43	28 10	15 56	10 22	10 45	18 57		n.a.	
S 23	12 59	15 23	1 47	9 33	0 43	15 30	6 24	13 19	1 7	12 35	0 45	12 8	1 58	4 54	0 38	14 51	1 43	28 10	15 56	10 23	10 44	18 57		n.a.	
S 24	12 39	17 28	2 44	8 50	0 37	15 37	6 15	13 34	1 8	12 38	0 45	12 10	1 58	4 54	0 38	14 52	1 43	28 11	15 56	10 23	10 43	18 58		n.a.	
M25	12 18	18 47	3 33	8 7	0 30	15 43	6 6	13 49	1 9	12 42	0 44	12 11	1 58	4 53	0 38	14 52	1 43	28 11	15 56	10 22	10 42	18 58		n.a.	
T 26	11 58	19 16	4 14	7 23	0 23	15 50	5 56	14 4	1 9	12 45	0 44	12 13	1 58	4 52	0 38	14 52	1 43	28 12	15 56	10 21	10 41	18 58		n.a.	
W27	11 37	18 55	4 44	6 40	0 16	15 56	5 47	14 19	1 10	12 48	0 44	12 14	1 58	4 52	0 38	14 52	1 43	28 12	15 56	10 19	10 39	18 58		n.a.	
T 28	11 16	17 41	5 1	5 56	0 9	16 1	5 38	14 34	1 10	12 51	0 44	12 16	1 57	4 51	0 38	14 53	1 43	28 13	15 56	10 17	10 38	18 59		n.a.	
F 29	10 54	15 37	5 5	5 13	0 2	16 7	5 29	14 49	1 11	12 54	0 44	12 17	1 57	4 51	0 38	14 53	1 43	28 13	15 56	10 13	10 37	18 59		n.a.	
S 30	10 33	12 47	4 55	4 30	0s 5	16 12	5 19	15 4	1 11	12 58	0 43	12 19	1 57	4 50	0 38	14 53	1 43	28 13	15 56	10 10	10 36	18 59		n.a.	
S 31	10n11	9n17	4s29	3n46	0s12	16n17	5s10	15s18	1s12	13s 1	0n43	12s20	1n57	4n49	0s38	14s54	1n42	28s14	15s56	10s 6	10s35	18n59		n.a.	

Julian Day Number = 1661369.5, Delta T = 03h25m33s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°20'15, Lahiri = - 6°13'14 Julian Calendar 1 Aug. 165 BCE == Greg. Calendar 29 July 165 BCE

The year -164 astronomical counting style corresponds to year 165 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 165 BCE
geocentric

SEPTEMBER 165 BCE (-164) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 27 37	4♍53'20	7♍37	21♍39	25♋33	8♏13	6♏13	7♏35	13°R30	15♏ 2	25°R 1	25°R44	27♎ 7	13♊41	n.a.	M 1
T 2	22 31 33	5°52'30	20°59	23°10	26° 2	8°56	6°23	7°40	13♈28	15° 3	24♒59	25♎37	27° 3	13°48	n.a.	T 2
W 3	22 35 30	6°51'42	4♎34	24°40	26°33	9°38	6°33	7°44	13°26	15° 5	24°58	25°33	27° 0	13°54	n.a.	W 3
T 4	22 39 27	7°50'56	18°18	26° 8	27° 5	10°21	6°42	7°49	13°24	15° 6	24°57	25°31	26°57	14° 1	n.a.	T 4
F 5	22 43 23	8°50'12	2♏11	27°36	27°39	11° 4	6°52	7°53	13°23	15° 7	24°56	25°D31	26°54	14° 8	n.a.	F 5
S 6	22 47 20	9°49'30	16°10	29° 4	28°13	11°47	7° 2	7°58	13°21	15° 8	24°55	25°32	26°51	14°14	n.a.	S 6
S 7	22 51 16	10°48'50	0♐15	0♎30	28°50	12°30	7°12	8° 3	13°19	15° 9	24°54	25°33	26°48	14°21	n.a.	S 7
M 8	22 55 13	11°48'12	14°23	1°55	29°27	13°13	7°23	8° 7	13°17	15°10	24°52	25°R33	26°44	14°28	n.a.	M 8
T 9	22 59 9	12°47'35	28°34	3°19	0♌ 6	13°57	7°33	8°12	13°15	15°12	24°51	25°32	26°41	14°35	n.a.	T 9
W10	23 3 6	13°47'01	12♑46	4°43	0°45	14°40	7°43	8°17	13°13	15°13	24°50	25°29	26°38	14°41	n.a.	W10
T 11	23 7 2	14°46'28	26°56	6° 5	1°26	15°24	7°54	8°22	13°11	15°14	24°49	25°24	26°35	14°48	n.a.	T 11
F 12	23 10 59	15°45'57	11♒ 0	7°26	2° 9	16° 7	8° 4	8°27	13° 8	15°16	24°48	25°19	26°32	14°55	n.a.	F 12
S 13	23 14 56	16°45'28	24°54	8°46	2°52	16°51	8°15	8°32	13° 6	15°17	24°47	25°12	26°29	15° 1	n.a.	S 13
S 14	23 18 52	17°45'01	8♓36	10° 5	3°36	17°34	8°26	8°38	13° 4	15°18	24°46	25° 6	26°25	15° 8	n.a.	S 14
M15	23 22 49	18°44'37	22° 1	11°23	4°21	18°18	8°37	8°43	13° 2	15°20	24°44	25° 1	26°22	15°15	n.a.	M15
T 16	23 26 45	19°44'14	5♈ 8	12°40	5° 7	19° 2	8°48	8°48	13° 0	15°21	24°43	24°58	26°19	15°21	n.a.	T 16
W17	23 30 42	20°43'53	17°57	13°55	5°54	19°46	8°59	8°54	12°58	15°23	24°42	24°56	26°16	15°28	n.a.	W17
T 18	23 34 38	21°43'35	0♉27	15° 8	6°42	20°30	9°10	8°59	12°55	15°24	24°41	24°D56	26°13	15°35	n.a.	T 18
F 19	23 38 35	22°43'19	12°42	16°20	7°31	21°14	9°21	9° 5	12°53	15°26	24°40	24°57	26° 9	15°41	n.a.	F 19
S 20	23 42 31	23°43'05	24°45	17°30	8°21	21°58	9°33	9°10	12°51	15°27	24°39	24°59	26° 6	15°48	n.a.	S 20
S 21	23 46 28	24°42'54	6♊39	18°39	9°11	22°43	9°44	9°16	12°48	15°29	24°38	25° 0	26° 3	15°55	n.a.	S 21
M22	23 50 24	25°42'45	18°30	19°45	10° 3	23°27	9°55	9°21	12°46	15°30	24°37	25° 2	26° 0	16° 2	n.a.	M22
T 23	23 54 21	26°42'38	0♋22	20°49	10°55	24°11	10° 7	9°27	12°44	15°32	24°36	25°R 2	25°57	16° 8	n.a.	T 23
W24	23 58 18	27°42'34	12°20	21°50	11°47	24°56	10°19	9°33	12°41	15°34	24°35	25° 1	25°54	16°15	n.a.	W24
T 25	0 2 14	28°42'32	24°29	22°49	12°41	25°40	10°30	9°39	12°39	15°35	24°34	24°59	25°50	16°22	n.a.	T 25
F 26	0 6 11	29°42'32	6♌54	23°44	13°35	26°25	10°42	9°45	12°37	15°37	24°33	24°55	25°47	16°28	n.a.	F 26
S 27	0 10 7	0♎42'35	19°36	24°36	14°30	27°10	10°54	9°51	12°34	15°39	24°32	24°52	25°44	16°35	n.a.	S 27
S 28	0 14 4	1°42'39	2♍39	25°24	15°25	27°54	11° 6	9°57	12°32	15°40	24°31	24°48	25°41	16°42	n.a.	S 28
M29	0 18 0	2°42'46	16° 3	26° 8	16°21	28°39	11°18	10° 3	12°29	15°42	24°30	24°44	25°38	16°48	n.a.	M29
T 30	0 21 57	3♎42'55	29♍45	26♎47	17♌17	29♏24	11♏30	10♏ 9	12♈27	15♏44	24♒29	24♎42	25♎35	16♊55	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	9n50	5n17	3s49	3n 3	0s19	16n21	5s 1	15s33	1s12	13s 4	0n43	12s22	1n56	4n48	0s38	14s54	1n42	28s14	15s56	10s 3	10s34	18n59		n.a.
T 2	9 28	0 56	2 55	2 20	0 26	16 25	4 51	15 47	1 13	13 8	0 43	12 24	1 56	4 48	0 38	14 54	1 42	28 15	15 56	10 1	10 32	19 0		n.a.
W 3	9 6	3s31	1 51	1 38	0 34	16 28	4 42	16 1	1 13	13 11	0 43	12 25	1 56	4 47	0 38	14 55	1 42	28 15	15 56	9 59	10 31	19 0		n.a.
T 4	8 43	7 51	0 39	0 56	0 41	16 32	4 32	16 15	1 14	13 15	0 42	12 27	1 56	4 46	0 38	14 55	1 42	28 15	15 56	9 58	10 30	19 0		n.a.
F 5	8 21	11 48	0n36	0 14	0 48	16 34	4 23	16 30	1 14	13 18	0 42	12 29	1 56	4 45	0 38	14 56	1 42	28 16	15 56	9 58	10 29	19 0		n.a.
S 6	7 58	15 7	1 49	0s28	0 56	16 36	4 14	16 43	1 15	13 21	0 42	12 30	1 55	4 45	0 38	14 56	1 42	28 16	15 56	9 59	10 28	19 0		n.a.
S 7	7 36	17 33	2 57	1 9	1 3	16 38	4 5	16 57	1 15	13 25	0 42	12 32	1 55	4 44	0 38	14 56	1 42	28 16	15 56	9 59	10 27	19 0		n.a.
M 8	7 13	18 55	3 54	1 50	1 10	16 40	3 55	17 11	1 15	13 29	0 42	12 34	1 55	4 43	0 38	14 57	1 42	28 17	15 56	9 59	10 26	19 1		n.a.
T 9	6 50	19 6	4 36	2 31	1 17	16 40	3 46	17 25	1 16	13 32	0 41	12 35	1 55	4 42	0 38	14 57	1 42	28 17	15 56	9 59	10 24	19 1		n.a.
W10	6 27	18 5	5 2	3 11	1 24	16 41	3 37	17 38	1 16	13 36	0 41	12 37	1 55	4 42	0 38	14 58	1 42	28 17	15 55	9 58	10 23	19 1		n.a.
T 11	6 4	15 57	5 10	3 50	1 31	16 41	3 28	17 51	1 17	13 39	0 41	12 39	1 55	4 41	0 38	14 58	1 42	28 18	15 55	9 56	10 22	19 1		n.a.
F 12	5 41	12 53	4 58	4 29	1 38	16 40	3 20	18 5	1 17	13 43	0 41	12 41	1 54	4 40	0 38	14 59	1 42	28 18	15 55	9 54	10 21	19 1		n.a.
S 13	5 17	9 8	4 30	5 8	1 45	16 39	3 11	18 18	1 17	13 47	0 41	12 43	1 54	4 39	0 38	14 59	1 42	28 18	15 55	9 52	10 20	19 1		n.a.
S 14	4 54	4 57	3 46	5 45	1 52	16 37	3 2	18 31	1 18	13 50	0 41	12 45	1 54	4 38	0 38	14 59	1 42	28 19	15 55	9 49	10 19	19 2		n.a.
M15	4 30	0 36	2 50	6 22	1 59	16 35	2 53	18 43	1 18	13 54	0 40	12 46	1 54	4 37	0 38	15 0	1 42	28 19	15 55	9 48	10 17	19 2		n.a.
T 16	4 7	3n41	1 46	6 58	2 5	16 32	2 45	18 56	1 18	13 58	0 40	12 48	1 54	4 36	0 38	15 0	1 42	28 19	15 55	9 46	10 16	19 2		n.a.
W17	3 43	7 42	0 38	7 34	2 11	16 29	2 36	19 9	1 19	14 1	0 40	12 50	1 53	4 36	0 38	15 1	1 42	28 19	15 55	9 46	10 15	19 2		n.a.
T 18	3 19	11 17	0s30	8 8	2 17	16 25	2 28	19 21	1 19	14 5	0 40	12 52	1 53	4 35	0 38	15 1	1 41	28 20	15 54	9 46	10 14	19 2		n.a.
F 19	2 55	14 18	1 36	8 41	2 23	16 21	2 20	19 33	1 19	14 9	0 40	12 54	1 53	4 34	0 38	15 2	1 41	28 20	15 54	9 46	10 13	19 2		n.a.
S 20	2 31	16 39	2 36	9 14	2 28	16 16	2 12	19 45	1 20	14 13	0 39	12 56	1 53	4 33	0 38	15 2	1 41	28 20	15 54	9 47	10 12	19 2		n.a.
S 21	2 7	18 14	3 29	9 45	2 34	16 11	2 4	19 57	1 20	14 16	0 39	12 58	1 53	4 32	0 38	15 3	1 41	28 20	15 54	9 47	10 10	19 3		n.a.
M22	1 43	19 1	4 13	10 15	2 39	16 4	1 56	20 9	1 20	14 20	0 39	13 0	1 53	4 31	0 38	15 3	1 41	28 21	15 54	9 48	10 9	19 3		n.a.
T 23	1 19	18 57	4 46	10 44	2 43	15 58	1 48	20 20	1 21	14 24	0 39	13 2	1 52	4 30	0 38	15 4	1 41	28 21	15 54	9 48	10 8	19 3		n.a.
W24	0 55	18 3	5 6	11 11	2 47	15 51	1 40	20 31	1 21	14 28	0 39	13 4	1 52	4 29	0 38	15 4	1 41	28 21	15 53	9 47	10 7	19 3		n.a.
T 25	0 31	16 19	5 14	11 36	2 51	15 43	1 33	20 43	1 21	14 32	0 39	13 6	1 52	4 28	0 38	15 5	1 41	28 21	15 53	9 47	10 6	19 3		n.a.
F 26	0 7	13 48	5 7	12 0	2 54	15 35	1 25	20 54	1 21	14 36	0 39	13 8	1 52	4 27	0 38	15 6	1 41	28 21	15 53	9 45	10 5	19 3		n.a.
S 27	0s17	10 35	4 45	12 22	2 57	15 26	1 18	21 4	1 22	14 40	0 38	13 10	1 52	4 26	0 38	15 6	1 41	28 21	15 53	9 44	10 3	19 3		n.a.
S 28	0 41	6 47	4 9	12 42	2 59	15 17	1 10	21 15	1 22	14 43	0 38	13 12	1 52	4 25	0 38	15 7	1 41	28 22	15 53	9 43	10 2	19 3		n.a.
M29	1 5	2 33	3 17	12 59	3 0	15 7	1 3	21 25	1 22	14 47	0 38	13 14	1 51	4 24	0 38	15 7	1 41	28 22	15 52	9 41	10 1	19 3		n.a.
T 30	1s30	1s56	2s13	13s14	3s 0	14n56	0s56	21s35	1s22	14s51	0n38	13s16	1n51	4n23	0s38	15s 8	1n41	28s22	15s52	9s40	10s 0	19n 4		n.a.

Julian Day Number = 1661400.5, Delta T = 03h25m32s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°20'11, Lahiri = - 6°13'10 Julian Calendar 1 Sept. 165 BCE == Greg. Calendar 29 Aug. 165 BCE

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ASTRODIENST EPHEMERIS for the year 165 BCE
geocentric

OCTOBER 165 BCE (-164) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 25 53	4♎43'05	13♎45	27♎21	18♌15	0♐ 9	11♏42	10♏15	12°R24	15♏46	24°R29	24°R40	25♎31	17♊ 2	n.a.	W 1
T 2	0 29 50	5°43'18	27°57	27°49	19°12	0°54	11°54	10°21	12♈22	15°48	24♒28	24°D40	25°28	17° 8	n.a.	T 2
F 3	0 33 46	6°43'32	12♏18	28°10	20°10	1°39	12° 7	10°27	12°19	15°49	24°27	24♎41	25°25	17°15	n.a.	F 3
S 4	0 37 43	7°43'48	26°41	28°25	21° 9	2°24	12°19	10°33	12°17	15°51	24°26	24°42	25°22	17°22	n.a.	S 4
S 5	0 41 40	8°44'06	11♐ 4	28°R32	22° 8	3°10	12°31	10°40	12°14	15°53	24°25	24°43	25°19	17°29	n.a.	S 5
M 6	0 45 36	9°44'26	25°23	28°30	23° 8	3°55	12°44	10°46	12°12	15°55	24°24	24°44	25°15	17°35	n.a.	M 6
T 7	0 49 33	10°44'47	9♑35	28°19	24° 8	4°40	12°56	10°52	12°10	15°57	24°24	24°R45	25°12	17°42	n.a.	T 7
W 8	0 53 29	11°45'09	23°37	27°59	25° 8	5°26	13° 9	10°59	12° 7	15°59	24°23	24°44	25° 9	17°49	n.a.	W 8
T 9	0 57 26	12°45'33	7♒29	27°29	26° 9	6°11	13°21	11° 5	12° 5	16° 1	24°22	24°43	25° 6	17°55	n.a.	T 9
F 10	1 1 22	13°45'59	21° 9	26°50	27°10	6°57	13°34	11°12	12° 2	16° 3	24°21	24°42	25° 3	18° 2	n.a.	F 10
S 11	1 5 19	14°46'26	4♓36	26° 0	28°12	7°42	13°47	11°18	12° 0	16° 5	24°21	24°41	25° 0	18° 9	n.a.	S 11
S 12	1 9 15	15°46'54	17°51	25° 1	29°14	8°28	14° 0	11°25	11°57	16° 7	24°20	24°40	24°56	18°15	n.a.	S 12
M13	1 13 12	16°47'24	0♈51	23°54	0♍17	9°13	14°13	11°31	11°55	16° 9	24°19	24°39	24°53	18°22	n.a.	M13
T 14	1 17 9	17°47'56	13°38	22°41	1°20	9°59	14°25	11°38	11°52	16°11	24°19	24°38	24°50	18°29	n.a.	T 14
W15	1 21 5	18°48'29	26°12	21°22	2°23	10°45	14°38	11°44	11°50	16°13	24°18	24°D38	24°47	18°35	n.a.	W15
T 16	1 25 2	19°49'04	8♉32	20° 2	3°27	11°31	14°51	11°51	11°47	16°15	24°17	24°38	24°44	18°42	n.a.	T 16
F 17	1 28 58	20°49'40	20°42	18°42	4°31	12°16	15° 4	11°58	11°45	16°17	24°17	24°38	24°40	18°49	n.a.	F 17
S 18	1 32 55	21°50'19	2♊42	17°24	5°35	13° 2	15°17	12° 5	11°42	16°19	24°16	24°39	24°37	18°56	n.a.	S 18
S 19	1 36 51	22°50'59	14°35	16°12	6°40	13°48	15°30	12°11	11°40	16°21	24°16	24°39	24°34	19° 2	n.a.	S 19
M20	1 40 48	23°51'41	26°26	15° 8	7°45	14°34	15°44	12°18	11°37	16°23	24°15	24°39	24°31	19° 9	n.a.	M20
T 21	1 44 44	24°52'24	8♋17	14°13	8°50	15°20	15°57	12°25	11°35	16°26	24°15	24°R39	24°28	19°16	n.a.	T 21
W22	1 48 41	25°53'10	20°14	13°29	9°55	16° 6	16°10	12°32	11°33	16°28	24°14	24°D39	24°25	19°22	n.a.	W22
T 23	1 52 38	26°53'57	2♌21	12°57	11° 1	16°52	16°23	12°39	11°30	16°30	24°14	24°39	24°21	19°29	n.a.	T 23
F 24	1 56 34	27°54'46	14°42	12°36	12° 7	17°38	16°37	12°45	11°28	16°32	24°13	24°39	24°18	19°36	n.a.	F 24
S 25	2 0 31	28°55'36	27°22	12°D26	13°14	18°25	16°50	12°52	11°26	16°34	24°13	24°40	24°15	19°42	n.a.	S 25
S 26	2 4 27	29°56'28	10♍25	12°28	14°20	19°11	17° 3	12°59	11°23	16°36	24°12	24°40	24°12	19°49	n.a.	S 26
M27	2 8 24	0♏57'21	23°52	12°40	15°27	19°57	17°17	13° 6	11°21	16°39	24°12	24°41	24° 9	19°56	n.a.	M27
T 28	2 12 20	1°58'16	7♎45	13° 2	16°34	20°43	17°30	13°13	11°19	16°41	24°12	24°41	24° 6	20° 3	n.a.	T 28
W29	2 16 17	2°59'13	22° 0	13°33	17°41	21°30	17°44	13°20	11°16	16°43	24°11	24°R42	24° 2	20° 9	n.a.	W29
T 30	2 20 13	4° 0'10	6♏35	14°11	18°49	22°16	17°57	13°27	11°14	16°45	24°11	24°42	23°59	20°16	n.a.	T 30
F 31	2 24 10	5♏ 1'09	21♏23	14♎57	19♍57	23♐ 2	18♏11	13♏34	11♈12	16♏47	24♒11	24♎41	23♎56	20♊23	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	1s54	6s24	1s 0	13s26	3s 0	14n45	0s49	21s45	1s22	14s55	0n38	13s18	1n51	4n22	0s38	15s 8	1n41	28s22	15s52	9s40	9s59	19n 4			n.a.
T 2	2 18	10 35	0n18	13 35	2 59	14 34	0 43	21 55	1 23	14 59	0 38	13 20	1 51	4 21	0 38	15 9	1 41	28 22	15 52	9 40	9 58	19 4			n.a.
F 3	2 42	14 11	1 36	13 41	2 56	14 22	0 36	22 5	1 23	15 3	0 37	13 22	1 51	4 21	0 38	15 9	1 41	28 22	15 52	9 40	9 56	19 4			n.a.
S 4	3 6	16 55	2 48	13 43	2 53	14 9	0 29	22 14	1 23	15 7	0 37	13 24	1 51	4 20	0 38	15 10	1 41	28 22	15 51	9 40	9 55	19 4			n.a.
S 5	3 30	18 34	3 49	13 41	2 48	13 56	0 23	22 23	1 23	15 11	0 37	13 26	1 51	4 19	0 38	15 11	1 41	28 22	15 51	9 41	9 54	19 4			n.a.
M 6	3 54	19 2	4 36	13 35	2 42	13 42	0 17	22 32	1 23	15 15	0 37	13 29	1 50	4 18	0 38	15 11	1 41	28 22	15 51	9 41	9 53	19 4			n.a.
T 7	4 18	18 17	5 6	13 23	2 34	13 28	0 10	22 41	1 23	15 19	0 37	13 31	1 50	4 17	0 38	15 12	1 41	28 22	15 51	9 41	9 52	19 4			n.a.
W 8	4 42	16 25	5 17	13 7	2 25	13 13	0 4	22 49	1 24	15 23	0 37	13 33	1 50	4 16	0 38	15 12	1 41	28 22	15 50	9 41	9 50	19 4			n.a.
T 9	5 6	13 38	5 9	12 46	2 13	12 58	0n 2	22 58	1 24	15 27	0 37	13 35	1 50	4 15	0 38	15 13	1 41	28 22	15 50	9 41	9 49	19 4			n.a.
F 10	5 29	10 8	4 44	12 19	2 0	12 42	0 7	23 6	1 24	15 31	0 36	13 37	1 50	4 14	0 38	15 14	1 41	28 22	15 50	9 41	9 48	19 4			n.a.
S 11	5 53	6 10	4 3	11 48	1 46	12 26	0 13	23 13	1 24	15 35	0 36	13 39	1 50	4 13	0 38	15 14	1 40	28 23	15 50	9 40	9 47	19 4			n.a.
S 12	6 17	1 57	3 10	11 11	1 29	12 10	0 19	23 21	1 24	15 39	0 36	13 41	1 50	4 12	0 38	15 15	1 40	28 23	15 49	9 40	9 46	19 4			n.a.
M13	6 40	2n18	2 8	10 29	1 11	11 52	0 24	23 28	1 24	15 43	0 36	13 43	1 50	4 11	0 38	15 15	1 40	28 22	15 49	9 39	9 45	19 4			n.a.
T 14	7 4	6 22	1 1	9 44	0 52	11 35	0 29	23 35	1 24	15 47	0 36	13 46	1 50	4 10	0 38	15 16	1 40	28 22	15 49	9 39	9 43	19 4			n.a.
W15	7 27	10 5	0s 9	8 55	0 32	11 17	0 34	23 42	1 24	15 51	0 36	13 48	1 49	4 9	0 38	15 17	1 40	28 22	15 48	9 39	9 42	19 5			n.a.
T 16	7 50	13 18	1 16	8 6	0 11	10 58	0 39	23 49	1 24	15 55	0 36	13 50	1 49	4 8	0 38	15 17	1 40	28 22	15 48	9 39	9 41	19 5			n.a.
F 17	8 13	15 53	2 20	7 16	0n 9	10 39	0 44	23 55	1 24	15 59	0 36	13 52	1 49	4 7	0 38	15 18	1 40	28 22	15 48	9 39	9 40	19 5			n.a.
S 18	8 36	17 44	3 16	6 27	0 29	10 20	0 49	24 1	1 24	16 3	0 35	13 54	1 49	4 6	0 38	15 19	1 40	28 22	15 48	9 39	9 39	19 5			n.a.
S 19	8 59	18 47	4 3	5 42	0 49	10 0	0 54	24 7	1 24	16 7	0 35	13 56	1 49	4 5	0 38	15 19	1 40	28 22	15 47	9 39	9 38	19 5			n.a.
M20	9 22	19 0	4 40	5 0	1 7	9 40	0 58	24 12	1 24	16 10	0 35	13 59	1 49	4 4	0 38	15 20	1 40	28 22	15 47	9 39	9 36	19 5			n.a.
T 21	9 44	18 23	5 5	4 23	1 23	9 19	1 3	24 18	1 24	16 14	0 35	14 1	1 49	4 3	0 38	15 20	1 40	28 22	15 47	9 39	9 35	19 5			n.a.
W22	10 7	16 57	5 17	3 53	1 38	8 58	1 7	24 23	1 24	16 18	0 35	14 3	1 49	4 2	0 38	15 21	1 40	28 22	15 46	9 39	9 34	19 5			n.a.
T 23	10 29	14 45	5 15	3 28	1 51	8 36	1 11	24 27	1 24	16 22	0 35	14 5	1 49	4 1	0 38	15 22	1 40	28 22	15 46	9 39	9 33	19 5			n.a.
F 24	10 51	11 51	4 58	3 10	2 2	8 15	1 15	24 32	1 24	16 26	0 35	14 7	1 49	4 0	0 38	15 22	1 40	28 22	15 46	9 39	9 32	19 5			n.a.
S 25	11 13	8 20	4 27	2 58	2 10	7 52	1 19	24 36	1 24	16 30	0 35	14 9	1 48	3 59	0 38	15 23	1 40	28 22	15 46	9 40	9 30	19 5			n.a.
S 26	11 35	4 20	3 42	2 53	2 17	7 30	1 22	24 40	1 24	16 34	0 34	14 12	1 48	3 59	0 38	15 24	1 40	28 21	15 45	9 40	9 29	19 5			n.a.
M27	11 56	0s 2	2 43	2 52	2 23	7 7	1 26	24 44	1 24	16 38	0 34	14 14	1 48	3 58	0 38	15 24	1 40	28 21	15 45	9 40	9 28	19 5			n.a.
T 28	12 18	4 31	1 33	2 58	2 26	6 44	1 30	24 47	1 24	16 42	0 34	14 16	1 48	3 57	0 38	15 25	1 40	28 21	15 45	9 40	9 27	19 5			n.a.
W29	12 39	8 54	0 15	3 8	2 29	6 20	1 33	24 50	1 24	16 46	0 34	14 18	1 48	3 56	0 38	15 26	1 40	28 21	15 44	9 40	9 26	19 5			n.a.
T 30	13 0	12 50	1n 6	3 22	2 30	5 57	1 36	24 53	1 24	16 50	0 34	14 20	1 48	3 55	0 38	15 26	1 40	28 21	15 44	9 40	9 25	19 5			n.a.
F 31	13s21	16s 1	2n23	3s40	2n29	5n33	1n39	24s55	1s24	16s54	0n34	14s22	1n48	3n54	0s38	15s27	1n40	28s20	15s44	9s40	9s23	19n 5			n.a.

Julian Day Number = 1661430.5, Delta T = 03h25m31s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°20'07, Lahiri = - 6°13'06 Julian Calendar 1 Oct. 165 BCE == Greg. Calendar 28 Sept. 165 BCE

The year -164 astronomical counting style corresponds to year 165 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 165 BCE
geocentric

NOVEMBER 165 BCE (-164) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 28 7	6♏ 2'09	6♐15	15♎48	21♍ 5	23♐49	18♏24	13♏41	11°R10	16♏50	24°R10	24°R40	23♎53	20♊29	n.a.	S 1
S 2	2 32 3	7° 3'10	21° 6	16°45	22°13	24°35	18°38	13°48	11♈ 8	16°52	24♒10	24♎38	23°50	20°36	n.a.	S 2
M 3	2 36 0	8° 4'12	5♑46	17°47	23°21	25°22	18°51	13°55	11° 5	16°54	24°10	24°37	23°46	20°43	n.a.	M 3
T 4	2 39 56	9° 5'14	20°11	18°53	24°30	26° 8	19° 5	14° 2	11° 3	16°56	24°10	24°35	23°43	20°49	n.a.	T 4
W 5	2 43 53	10° 6'18	4♒18	20° 2	25°39	26°55	19°18	14° 9	11° 1	16°59	24°10	24°D35	23°40	20°56	n.a.	W 5
T 6	2 47 49	11° 7'22	18° 5	21°15	26°48	27°41	19°32	14°16	10°59	17° 1	24°10	24°35	23°37	21° 3	n.a.	T 6
F 7	2 51 46	12° 8'26	1♓32	22°30	27°57	28°28	19°46	14°23	10°57	17° 3	24° 9	24°35	23°34	21°10	n.a.	F 7
S 8	2 55 42	13° 9'31	14°41	23°47	29° 6	29°15	19°59	14°30	10°55	17° 5	24° 9	24°37	23°31	21°16	n.a.	S 8
S 9	2 59 39	14°10'37	27°34	25° 6	0♎15	0♑ 1	20°13	14°37	10°53	17° 8	24° 9	24°38	23°27	21°23	n.a.	S 9
M10	3 3 36	15°11'43	10♈13	26°27	1°25	0°48	20°27	14°44	10°51	17°10	24° 9	24°40	23°24	21°30	n.a.	M10
T 11	3 7 32	16°12'50	22°40	27°50	2°35	1°35	20°40	14°51	10°49	17°12	24°D 9	24°R40	23°21	21°36	n.a.	T 11
W12	3 11 29	17°13'58	4♉57	29°14	3°45	2°21	20°54	14°58	10°47	17°14	24° 9	24°40	23°18	21°43	n.a.	W12
T 13	3 15 25	18°15'06	17° 5	0♏39	4°55	3° 8	21° 8	15° 5	10°46	17°17	24° 9	24°38	23°15	21°50	n.a.	T 13
F 14	3 19 22	19°16'15	29° 6	2° 5	6° 5	3°55	21°22	15°12	10°44	17°19	24° 9	24°35	23°11	21°56	n.a.	F 14
S 15	3 23 18	20°17'25	11♊ 2	3°31	7°15	4°41	21°35	15°19	10°42	17°21	24° 9	24°31	23° 8	22° 3	n.a.	S 15
S 16	3 27 15	21°18'36	22°54	4°59	8°26	5°28	21°49	15°26	10°40	17°24	24°10	24°26	23° 5	22°10	n.a.	S 16
M17	3 31 11	22°19'47	4♋45	6°27	9°36	6°15	22° 3	15°33	10°39	17°26	24°10	24°21	23° 2	22°17	n.a.	M17
T 18	3 35 8	23°20'59	16°37	7°55	10°47	7° 2	22°17	15°40	10°37	17°28	24°10	24°16	22°59	22°23	n.a.	T 18
W19	3 39 5	24°22'12	28°33	9°24	11°58	7°48	22°30	15°47	10°35	17°30	24°10	24°12	22°56	22°30	n.a.	W19
T 20	3 43 1	25°23'25	10♌37	10°54	13° 9	8°35	22°44	15°54	10°34	17°33	24°10	24°10	22°52	22°37	n.a.	T 20
F 21	3 46 58	26°24'39	22°54	12°24	14°20	9°22	22°58	16° 1	10°32	17°35	24°10	24°D 9	22°49	22°43	n.a.	F 21
S 22	3 50 54	27°25'53	5♍28	13°54	15°31	10° 9	23°11	16° 8	10°31	17°37	24°11	24° 9	22°46	22°50	n.a.	S 22
S 23	3 54 51	28°27'09	18°23	15°25	16°43	10°56	23°25	16°15	10°29	17°39	24°11	24°10	22°43	22°57	n.a.	S 23
M24	3 58 47	29°28'24	1♎43	16°56	17°54	11°42	23°39	16°22	10°28	17°42	24°11	24°12	22°40	23° 4	n.a.	M24
T 25	4 2 44	0♐29'41	15°31	18°27	19° 6	12°29	23°53	16°29	10°26	17°44	24°12	24°13	22°37	23°10	n.a.	T 25
W26	4 6 40	1°30'57	29°47	19°59	20°17	13°16	24° 6	16°35	10°25	17°46	24°12	24°R13	22°33	23°17	n.a.	W26
T 27	4 10 37	2°32'14	14♏29	21°30	21°29	14° 3	24°20	16°42	10°24	17°48	24°12	24°12	22°30	23°24	n.a.	T 27
F 28	4 14 34	3°33'32	29°30	23° 3	22°41	14°50	24°34	16°49	10°23	17°50	24°13	24° 8	22°27	23°30	n.a.	F 28
S 29	4 18 30	4°34'50	14♐43	24°35	23°53	15°37	24°47	16°56	10°21	17°53	24°13	24° 3	22°24	23°37	n.a.	S 29
S 30	4 22 27	5♐36'07	29♐57	26♏ 8	25♎ 5	16♑24	25♏ 1	17♏ 3	10♈20	17♏55	24♒14	23♎56	22♎21	23♊44	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s41	18s 9	3n31	4s 1	2n28	5n 8	1n42	24s58	1s24	16s58	0n34	14s25	1n48	3n53	0s38	15s28	1n40	28s20	15s43	9s40	9s22	19n 5		n.a.
S 2	14 1	19 1	4 24	4 25	2 26	4 44	1 45	25 0	1 24	17 2	0 34	14 27	1 48	3 52	0 38	15 28	1 40	28 20	15 43	9 39	9 21	19 5		n.a.
M 3	14 21	18 36	5 0	4 51	2 23	4 19	1 48	25 1	1 24	17 5	0 34	14 29	1 48	3 52	0 38	15 29	1 40	28 20	15 43	9 38	9 20	19 5		n.a.
T 4	14 41	16 58	5 16	5 20	2 19	3 54	1 50	25 3	1 23	17 9	0 33	14 31	1 48	3 51	0 38	15 29	1 40	28 20	15 42	9 38	9 19	19 5		n.a.
W 5	15 1	14 21	5 12	5 50	2 15	3 28	1 53	25 4	1 23	17 13	0 33	14 33	1 48	3 50	0 38	15 30	1 40	28 19	15 42	9 38	9 17	19 5		n.a.
T 6	15 20	10 59	4 50	6 22	2 10	3 3	1 55	25 5	1 23	17 17	0 33	14 35	1 48	3 49	0 38	15 31	1 40	28 19	15 42	9 38	9 16	19 5		n.a.
F 7	15 39	7 7	4 13	6 55	2 5	2 37	1 57	25 5	1 23	17 21	0 33	14 38	1 48	3 48	0 38	15 31	1 40	28 19	15 41	9 38	9 15	19 5		n.a.
S 8	15 58	2 59	3 23	7 29	2 0	2 11	1 59	25 5	1 23	17 25	0 33	14 40	1 47	3 48	0 38	15 32	1 40	28 18	15 41	9 39	9 14	19 5		n.a.
S 9	16 16	1n13	2 24	8 4	1 54	1 45	2 1	25 5	1 23	17 28	0 33	14 42	1 47	3 47	0 37	15 33	1 40	28 18	15 41	9 39	9 13	19 4		n.a.
M10	16 35	5 18	1 19	8 39	1 47	1 18	2 3	25 5	1 23	17 32	0 33	14 44	1 47	3 46	0 37	15 33	1 40	28 18	15 40	9 40	9 11	19 4		n.a.
T 11	16 53	9 5	0 11	9 15	1 41	0 52	2 5	25 5	1 22	17 36	0 33	14 46	1 47	3 45	0 37	15 34	1 40	28 18	15 40	9 40	9 10	19 4		n.a.
W12	17 10	12 26	0s56	9 51	1 34	0 25	2 6	25 4	1 22	17 40	0 33	14 48	1 47	3 45	0 37	15 35	1 40	28 17	15 40	9 40	9 9	19 4		n.a.
T 13	17 28	15 12	2 0	10 28	1 28	0s 1	2 8	25 2	1 22	17 43	0 33	14 50	1 47	3 44	0 37	15 35	1 40	28 17	15 39	9 39	9 8	19 4		n.a.
F 14	17 45	17 17	2 58	11 4	1 21	0 28	2 9	25 1	1 22	17 47	0 32	14 52	1 47	3 43	0 37	15 36	1 40	28 17	15 39	9 38	9 7	19 4		n.a.
S 15	18 1	18 36	3 48	11 41	1 14	0 55	2 10	24 59	1 22	17 51	0 32	14 54	1 47	3 43	0 37	15 37	1 40	28 16	15 39	9 36	9 6	19 4		n.a.
S 16	18 18	19 4	4 27	12 17	1 6	1 22	2 11	24 57	1 21	17 55	0 32	14 56	1 47	3 42	0 37	15 37	1 40	28 16	15 38	9 35	9 4	19 4		n.a.
M17	18 34	18 43	4 55	12 53	0 59	1 50	2 12	24 55	1 21	17 58	0 32	14 59	1 47	3 41	0 37	15 38	1 40	28 16	15 38	9 33	9 3	19 4		n.a.
T 18	18 49	17 32	5 10	13 29	0 52	2 17	2 13	24 52	1 21	18 2	0 32	15 1	1 47	3 41	0 37	15 39	1 40	28 15	15 38	9 31	9 2	19 4		n.a.
W19	19 5	15 36	5 12	14 5	0 45	2 44	2 14	24 49	1 21	18 5	0 32	15 3	1 47	3 40	0 37	15 39	1 40	28 15	15 37	9 29	9 1	19 4		n.a.
T 20	19 20	12 58	5 0	14 40	0 38	3 11	2 14	24 46	1 20	18 9	0 32	15 5	1 47	3 40	0 37	15 40	1 40	28 14	15 37	9 28	9 0	19 4		n.a.
F 21	19 34	9 43	4 34	15 15	0 31	3 39	2 15	24 43	1 20	18 13	0 32	15 7	1 47	3 39	0 37	15 40	1 40	28 14	15 37	9 28	8 58	19 4		n.a.
S 22	19 49	5 58	3 55	15 49	0 23	4 6	2 15	24 39	1 20	18 16	0 32	15 9	1 47	3 38	0 37	15 41	1 40	28 14	15 36	9 28	8 57	19 4		n.a.
S 23	20 3	1 50	3 3	16 23	0 16	4 33	2 16	24 35	1 20	18 20	0 32	15 11	1 47	3 38	0 37	15 42	1 40	28 13	15 36	9 29	8 56	19 4		n.a.
M24	20 16	2s31	2 0	16 56	0 9	5 1	2 16	24 30	1 19	18 23	0 32	15 13	1 47	3 37	0 37	15 42	1 40	28 13	15 36	9 29	8 55	19 3		n.a.
T 25	20 29	6 54	0 47	17 29	0 2	5 28	2 16	24 26	1 19	18 27	0 31	15 15	1 47	3 37	0 37	15 43	1 40	28 12	15 35	9 30	8 54	19 3		n.a.
W26	20 42	11 3	0n30	18 1	0s 5	5 55	2 16	24 21	1 19	18 30	0 31	15 17	1 47	3 36	0 37	15 44	1 40	28 12	15 35	9 30	8 52	19 3		n.a.
T 27	20 54	14 39	1 48	18 32	0 12	6 23	2 16	24 16	1 18	18 34	0 31	15 19	1 47	3 36	0 37	15 44	1 40	28 11	15 35	9 29	8 51	19 3		n.a.
F 28	21 6	17 21	3 0	19 2	0 18	6 50	2 15	24 10	1 18	18 37	0 31	15 21	1 47	3 35	0 37	15 45	1 40	28 11	15 34	9 28	8 50	19 3		n.a.
S 29	21 18	18 51	4 0	19 32	0 25	7 17	2 15	24 4	1 18	18 41	0 31	15 23	1 47	3 35	0 37	15 45	1 40	28 11	15 34	9 26	8 49	19 3		n.a.
S 30	21s29	19s 0	4n43	20s 1	0s31	7s44	2n15	23s58	1s17	18s44	0n31	15s25	1n47	3n34	0s37	15s46	1n40	28s10	15s34	9s23	8s48	19n 3		n.a.

Julian Day Number = 1661461.5, Delta T = 03h25m30s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°20'02, Lahiri = - 6°13'02 Julian Calendar 1 Nov. 165 BCE == Greg. Calendar 29 Oct. 165 BCE

The year -164 astronomical counting style corresponds to year 165 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 165 BCE
geocentric

DECEMBER 165 BCE (-164) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 26 23	6♐37'25	15♑ 2	27♏41	26♎17	17♑10	25♏15	17♏10	10°R19	17♏57	24♒14	23°R50	22♎17	23♊50	n.a.	M 1
T 2	4 30 20	7°38'42	29°48	29°14	27°29	17°57	25°28	17°16	10♈18	17°59	24°15	23♎44	22°14	23°57	n.a.	T 2
W 3	4 34 16	8°39'59	14♒ 9	0♐48	28°41	18°44	25°42	17°23	10°17	18° 1	24°15	23°39	22°11	24° 4	n.a.	W 3
T 4	4 38 13	9°41'15	28° 4	2°22	29°54	19°31	25°55	17°30	10°16	18° 3	24°16	23°37	22° 8	24°11	n.a.	T 4
F 5	4 42 10	10°42'31	11♓31	3°56	1♏ 6	20°18	26° 9	17°36	10°15	18° 6	24°16	23°D36	22° 5	24°17	n.a.	F 5
S 6	4 46 6	11°43'46	24°35	5°31	2°18	21° 5	26°23	17°43	10°15	18° 8	24°17	23°37	22° 2	24°24	n.a.	S 6
S 7	4 50 3	12°45'01	7♈17	7° 6	3°31	21°51	26°36	17°50	10°14	18°10	24°17	23°38	21°58	24°31	n.a.	S 7
M 8	4 53 59	13°46'16	19°43	8°42	4°43	22°38	26°50	17°56	10°13	18°12	24°18	23°R39	21°55	24°37	n.a.	M 8
T 9	4 57 56	14°47'29	1♉56	10°17	5°56	23°25	27° 3	18° 3	10°12	18°14	24°19	23°39	21°52	24°44	n.a.	T 9
W10	5 1 52	15°48'43	14° 0	11°54	7° 9	24°12	27°16	18° 9	10°12	18°16	24°19	23°36	21°49	24°51	n.a.	W10
T 11	5 5 49	16°49'55	25°58	13°30	8°21	24°59	27°30	18°16	10°11	18°18	24°20	23°31	21°46	24°58	n.a.	T 11
F 12	5 9 45	17°51'08	7♊52	15° 8	9°34	25°45	27°43	18°22	10°11	18°20	24°21	23°24	21°43	25° 4	n.a.	F 12
S 13	5 13 42	18°52'20	19°44	16°45	10°47	26°32	27°56	18°29	10°10	18°22	24°22	23°14	21°39	25°11	n.a.	S 13
S 14	5 17 39	19°53'31	1♋36	18°23	12° 0	27°19	28°10	18°35	10°10	18°24	24°22	23° 3	21°36	25°18	n.a.	S 14
M15	5 21 35	20°54'42	13°29	20° 2	13°13	28° 6	28°23	18°41	10° 9	18°26	24°23	22°51	21°33	25°24	n.a.	M15
T 16	5 25 32	21°55'52	25°24	21°41	14°26	28°53	28°36	18°48	10° 9	18°28	24°24	22°39	21°30	25°31	n.a.	T 16
W17	5 29 28	22°57'02	7♌24	23°20	15°39	29°39	28°49	18°54	10° 9	18°30	24°25	22°29	21°27	25°38	n.a.	W17
T 18	5 33 25	23°58'11	19°31	25° 0	16°52	0♒26	29° 3	19° 0	10° 8	18°32	24°26	22°21	21°23	25°45	n.a.	T 18
F 19	5 37 21	24°59'20	1♍48	26°41	18° 5	1°13	29°16	19° 6	10° 8	18°34	24°27	22°16	21°20	25°51	n.a.	F 19
S 20	5 41 18	26° 0'28	14°18	28°22	19°18	1°59	29°29	19°12	10° 8	18°36	24°27	22°13	21°17	25°58	n.a.	S 20
S 21	5 45 14	27° 1'36	27° 7	0♑ 4	20°32	2°46	29°42	19°18	10° 8	18°38	24°28	22°D12	21°14	26° 5	n.a.	S 21
M22	5 49 11	28° 2'44	10♎17	1°46	21°45	3°33	29°55	19°24	10°D 8	18°40	24°29	22°13	21°11	26°11	n.a.	M22
T 23	5 53 8	29° 3'50	23°53	3°29	22°58	4°19	0♐ 8	19°30	10° 8	18°42	24°30	22°R13	21° 8	26°18	n.a.	T 23
W24	5 57 4	0♑ 4'56	7♏57	5°12	24°11	5° 6	0°20	19°36	10° 8	18°43	24°31	22°12	21° 4	26°25	n.a.	W24
T 25	6 1 1	1° 6'02	22°29	6°55	25°25	5°52	0°33	19°42	10° 8	18°45	24°32	22° 9	21° 1	26°31	n.a.	T 25
F 26	6 4 57	2° 7'07	7♐25	8°39	26°38	6°39	0°46	19°48	10° 8	18°47	24°33	22° 3	20°58	26°38	n.a.	F 26
S 27	6 8 54	3° 8'11	22°39	10°24	27°52	7°25	0°59	19°54	10° 9	18°49	24°34	21°54	20°55	26°45	n.a.	S 27
S 28	6 12 50	4° 9'14	8♑ 0	12° 9	29° 5	8°12	1°11	19°59	10° 9	18°50	24°35	21°44	20°52	26°52	n.a.	S 28
M29	6 16 47	5°10'16	23°17	13°54	0♐18	8°59	1°24	20° 5	10° 9	18°52	24°36	21°33	20°49	26°58	n.a.	M29
T 30	6 20 44	6°11'17	8♒18	15°39	1°32	9°45	1°37	20°11	10°10	18°54	24°37	21°22	20°45	27° 5	n.a.	T 30
W31	6 24 40	7♑12'16	22♒54	17♑24	2♐45	10♒31	1♐49	20♏16	10♈10	18♏56	24♒39	21♎14	20♎42	27♊12	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
M 1	21 s40	17 s48	5n 6	20 s29	0 s38	8 s11	2n14	23 s52	1 s17	18 s47	0n31	15 s26	1n47	3n34	0 s37	15 s47	1n40	28 s10	15 s33	9 s21	8 s46	19n 3			n.a.
T 2	21 50	15 25	5 7	20 56	0 44	8 37	2 13	23 46	1 17	18 51	0 31	15 28	1 47	3 34	0 37	15 47	1 40	28 9	15 33	9 19	8 45	19 3			n.a.
W 3	22 0	12 9	4 50	21 22	0 50	9 4	2 13	23 39	1 16	18 54	0 31	15 30	1 47	3 33	0 37	15 48	1 40	28 9	15 33	9 17	8 44	19 2			n.a.
T 4	22 9	8 17	4 15	21 47	0 56	9 30	2 12	23 32	1 16	18 58	0 31	15 32	1 47	3 33	0 37	15 48	1 40	28 8	15 32	9 16	8 43	19 2			n.a.
F 5	22 18	4 8	3 28	22 11	1 2	9 57	2 11	23 24	1 16	19 1	0 31	15 34	1 47	3 33	0 37	15 49	1 40	28 8	15 32	9 16	8 42	19 2			n.a.
S 6	22 27	0n 7	2 30	22 34	1 7	10 23	2 10	23 17	1 15	19 4	0 31	15 36	1 47	3 32	0 37	15 50	1 40	28 7	15 32	9 16	8 40	19 2			n.a.
S 7	22 35	4 15	1 27	22 56	1 13	10 49	2 9	23 9	1 15	19 7	0 31	15 38	1 47	3 32	0 37	15 50	1 40	28 7	15 31	9 17	8 39	19 2			n.a.
M 8	22 43	8 8	0 21	23 17	1 18	11 14	2 8	23 1	1 15	19 11	0 30	15 39	1 47	3 32	0 37	15 51	1 40	28 6	15 31	9 17	8 38	19 2			n.a.
T 9	22 50	11 35	0 s45	23 37	1 23	11 40	2 6	22 52	1 14	19 14	0 30	15 41	1 47	3 32	0 37	15 51	1 40	28 6	15 31	9 17	8 37	19 2			n.a.
W10	22 57	14 31	1 47	23 55	1 27	12 5	2 5	22 44	1 14	19 17	0 30	15 43	1 47	3 31	0 37	15 52	1 40	28 5	15 30	9 16	8 36	19 2			n.a.
T 11	23 3	16 48	2 45	24 12	1 32	12 30	2 4	22 35	1 13	19 20	0 30	15 45	1 47	3 31	0 36	15 52	1 40	28 4	15 30	9 14	8 34	19 1			n.a.
F 12	23 9	18 21	3 34	24 28	1 36	12 55	2 2	22 26	1 13	19 23	0 30	15 47	1 47	3 31	0 36	15 53	1 40	28 4	15 30	9 11	8 33	19 1			n.a.
S 13	23 14	19 5	4 14	24 42	1 40	13 19	2 1	22 16	1 13	19 26	0 30	15 48	1 47	3 31	0 36	15 53	1 40	28 3	15 29	9 8	8 32	19 1			n.a.
S 14	23 19	18 59	4 43	24 55	1 44	13 43	1 59	22 7	1 12	19 29	0 30	15 50	1 47	3 31	0 36	15 54	1 40	28 3	15 29	9 3	8 31	19 1			n.a.
M15	23 24	18 3	5 0	25 7	1 47	14 7	1 57	21 57	1 12	19 32	0 30	15 52	1 47	3 31	0 36	15 55	1 40	28 2	15 29	8 59	8 30	19 1			n.a.
T 16	23 28	16 20	5 3	25 17	1 51	14 31	1 55	21 47	1 11	19 35	0 30	15 53	1 47	3 30	0 36	15 55	1 40	28 2	15 28	8 55	8 28	19 1			n.a.
W17	23 31	13 54	4 54	25 26	1 53	14 54	1 54	21 37	1 11	19 38	0 30	15 55	1 47	3 30	0 36	15 56	1 40	28 1	15 28	8 51	8 27	19 0			n.a.
T 18	23 34	10 51	4 31	25 33	1 56	15 17	1 52	21 26	1 10	19 41	0 30	15 57	1 47	3 30	0 36	15 56	1 40	28 1	15 28	8 48	8 26	19 0			n.a.
F 19	23 37	7 18	3 55	25 38	1 58	15 40	1 50	21 15	1 10	19 44	0 30	15 58	1 48	3 30	0 36	15 57	1 40	28 0	15 28	8 46	8 25	19 0			n.a.
S 20	23 39	3 22	3 8	25 42	2 0	16 2	1 48	21 4	1 10	19 47	0 30	16 0	1 48	3 30	0 36	15 57	1 40	27 59	15 27	8 45	8 24	19 0			n.a.
S 21	23 41	0 s49	2 10	25 44	2 1	16 23	1 45	20 53	1 9	19 50	0 30	16 2	1 48	3 30	0 36	15 58	1 40	27 59	15 27	8 45	8 22	19 0			n.a.
M22	23 42	5 5	1 3	25 44	2 2	16 45	1 43	20 42	1 9	19 53	0 30	16 3	1 48	3 30	0 36	15 58	1 40	27 58	15 27	8 45	8 21	19 0			n.a.
T 23	23 43	9 14	0n 9	25 43	2 3	17 6	1 41	20 30	1 8	19 56	0 30	16 5	1 48	3 30	0 36	15 59	1 40	27 58	15 26	8 45	8 20	18 59			n.a.
W24	23 43	13 1	1 23	25 39	2 3	17 26	1 39	20 18	1 8	19 58	0 29	16 6	1 48	3 30	0 36	15 59	1 40	27 57	15 26	8 44	8 19	18 59			n.a.
T 25	23 42	16 8	2 33	25 34	2 3	17 46	1 36	20 6	1 7	20 1	0 29	16 8	1 48	3 30	0 36	15 59	1 40	27 56	15 26	8 43	8 18	18 59			n.a.
F 26	23 42	18 15	3 36	25 27	2 2	18 6	1 34	19 54	1 7	20 4	0 29	16 9	1 48	3 31	0 36	16 0	1 40	27 56	15 26	8 41	8 16	18 59			n.a.
S 27	23 40	19 7	4 24	25 18	2 0	18 25	1 32	19 41	1 6	20 7	0 29	16 11	1 48	3 31	0 36	16 0	1 40	27 55	15 25	8 38	8 15	18 59			n.a.
S 28	23 39	18 36	4 53	25 7	1 59	18 44	1 29	19 29	1 6	20 9	0 29	16 12	1 48	3 31	0 36	16 1	1 41	27 55	15 25	8 34	8 14	18 58			n.a.
M29	23 37	16 44	5 1	24 54	1 56	19 2	1 27	19 16	1 5	20 12	0 29	16 14	1 48	3 31	0 36	16 1	1 41	27 54	15 25	8 30	8 13	18 58			n.a.
T 30	23 34	13 45	4 49	24 39	1 53	19 20	1 24	19 3	1 5	20 15	0 29	16 15	1 48	3 31	0 36	16 2	1 41	27 53	15 25	8 26	8 12	18 58			n.a.
W31	23 s31	9 s59	4n17	24 s22	1 s49	19 s37	1n21	18 s50	1 s 4	20 s17	0n29	16 s17	1n48	3n31	0 s36	16 s 2	1n41	27 s53	15 s24	8 s22	8 s10	18n58			n.a.

Julian Day Number = 1661491.5, Delta T = 03h25m29s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'58, Lahiri = - 6°12'58 Julian Calendar 1 Dec. 165 BCE == Greg. Calendar 28 Nov. 165 BCE

The year -164 astronomical counting style corresponds to year 165 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 164 BCE
geocentric

JANUARY 164 BCE (-163) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 28 37	8♉13'14	7♓ 2	19♉ 9	3♐59	11♒18	2♐ 1	20♏22	10♈11	18♏57	24♒40	21°R 8	20♎39	27♊18	n.a.	T 1
F 2	6 32 33	9°14'10	20°38	20°53	5°13	12° 4	2°14	20°27	10°11	18°59	24°41	21♎ 4	20°36	27°25	n.a.	F 2
S 3	6 36 30	10°15'05	3♈47	22°38	6°26	12°51	2°26	20°32	10°12	19° 0	24°42	21° 3	20°33	27°32	n.a.	S 3
S 4	6 40 26	11°15'59	16°30	24°21	7°40	13°37	2°38	20°38	10°12	19° 2	24°43	21° 3	20°29	27°39	n.a.	S 4
M 5	6 44 23	12°16'50	28°53	26° 3	8°53	14°23	2°50	20°43	10°13	19° 4	24°44	21° 3	20°26	27°45	n.a.	M 5
T 6	6 48 19	13°17'41	11♉ 2	27°44	10° 7	15°10	3° 3	20°48	10°14	19° 5	24°46	21° 1	20°23	27°52	n.a.	T 6
W 7	6 52 16	14°18'29	23° 0	29°24	11°20	15°56	3°15	20°53	10°15	19° 7	24°47	20°58	20°20	27°59	n.a.	W 7
T 8	6 56 13	15°19'16	4♊52	1♒ 1	12°34	16°42	3°27	20°58	10°16	19° 8	24°48	20°51	20°17	28° 5	n.a.	T 8
F 9	7 0 9	16°20'02	16°42	2°35	13°48	17°28	3°38	21° 3	10°16	19° 9	24°49	20°42	20°14	28°12	n.a.	F 9
S 10	7 4 6	17°20'46	28°33	4° 6	15° 1	18°14	3°50	21° 8	10°17	19°11	24°50	20°29	20°10	28°19	n.a.	S 10
S 11	7 8 2	18°21'28	10♋27	5°34	16°15	19° 1	4° 2	21°13	10°18	19°12	24°52	20°15	20° 7	28°26	n.a.	S 11
M12	7 11 59	19°22'09	22°24	6°57	17°29	19°47	4°14	21°18	10°20	19°14	24°53	20° 0	20° 4	28°32	n.a.	M12
T 13	7 15 55	20°22'48	4♌26	8°15	18°43	20°33	4°25	21°22	10°21	19°15	24°54	19°45	20° 1	28°39	n.a.	T 13
W14	7 19 52	21°23'25	16°35	9°27	19°56	21°19	4°37	21°27	10°22	19°16	24°56	19°32	19°58	28°46	n.a.	W14
T 15	7 23 48	22°24'02	28°51	10°32	21°10	22° 5	4°48	21°32	10°23	19°18	24°57	19°22	19°55	28°52	n.a.	T 15
F 16	7 27 45	23°24'36	11♍16	11°31	22°24	22°51	4°59	21°36	10°24	19°19	24°58	19°14	19°51	28°59	n.a.	F 16
S 17	7 31 42	24°25'10	23°52	12°21	23°38	23°37	5°11	21°40	10°26	19°20	25° 0	19°10	19°48	29° 6	n.a.	S 17
S 18	7 35 38	25°25'41	6♎43	13° 3	24°51	24°22	5°22	21°45	10°27	19°21	25° 1	19° 8	19°45	29°13	n.a.	S 18
M19	7 39 35	26°26'12	19°51	13°35	26° 5	25° 8	5°33	21°49	10°28	19°22	25° 2	19° 8	19°42	29°19	n.a.	M19
T 20	7 43 31	27°26'41	3♏19	13°59	27°19	25°54	5°44	21°53	10°30	19°23	25° 4	19° 8	19°39	29°26	n.a.	T 20
W21	7 47 28	28°27'08	17°11	14°12	28°33	26°40	5°55	21°57	10°31	19°25	25° 5	19° 7	19°35	29°33	n.a.	W21
T 22	7 51 24	29°27'35	1♐27	14°R15	29°47	27°26	6° 5	22° 1	10°33	19°26	25° 7	19° 3	19°32	29°39	n.a.	T 22
F 23	7 55 21	0♒27'59	16° 5	14° 7	1♑ 0	28°11	6°16	22° 5	10°35	19°27	25° 8	18°58	19°29	29°46	n.a.	F 23
S 24	7 59 17	1°28'22	1♑ 2	13°50	2°14	28°57	6°27	22° 9	10°36	19°28	25° 9	18°49	19°26	29°53	n.a.	S 24
S 25	8 3 14	2°28'44	16°10	13°24	3°28	29°43	6°37	22°13	10°38	19°29	25°11	18°39	19°23	29°59	n.a.	S 25
M26	8 7 11	3°29'04	1♒18	12°49	4°42	0♓28	6°48	22°17	10°40	19°30	25°12	18°27	19°20	0♋ 6	n.a.	M26
T 27	8 11 7	4°29'22	16°16	12° 6	5°56	1°14	6°58	22°20	10°41	19°30	25°14	18°17	19°16	0°13	n.a.	T 27
W28	8 15 4	5°29'37	0♓55	11°16	7°10	1°59	7° 8	22°24	10°43	19°31	25°15	18° 8	19°13	0°20	n.a.	W28
T 29	8 19 0	6°29'51	15° 8	10°21	8°23	2°45	7°18	22°27	10°45	19°32	25°17	18° 1	19°10	0°26	n.a.	T 29
F 30	8 22 57	7°30'03	28°53	9°21	9°37	3°30	7°28	22°31	10°47	19°33	25°18	17°57	19° 7	0°33	n.a.	F 30
S 31	8 26 53	8♒30'12	12♈ 8	8♒20	10♑51	4♓16	7♐38	22♏34	10♈49	19♏34	25♒20	17°D56	19♎ 4	0♋40	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	23s27	5s46	3n31	24s 4	1s45	19s54	1n19	18s36	1s 4	20s20	0n29	16s18	1n48	3n32	0s36	16s 3	1n41	27s52	15s24	8s20	8s 9	18n58			n.a.
F 2	23 23	1 24	2 34	23 43	1 40	20 10	1 16	18 23	1 3	20 22	0 29	16 19	1 48	3 32	0 36	16 3	1 41	27 51	15 24	8 19	8 8	18 57			n.a.
S 3	23 19	2n54	1 30	23 20	1 34	20 26	1 13	18 9	1 3	20 25	0 29	16 21	1 48	3 32	0 36	16 3	1 41	27 51	15 24	8 18	8 7	18 57			n.a.
S 4	23 14	6 56	0 24	22 56	1 28	20 41	1 11	17 55	1 2	20 27	0 29	16 22	1 49	3 33	0 36	16 4	1 41	27 50	15 24	8 18	8 6	18 57			n.a.
M 5	23 8	10 33	0s41	22 30	1 21	20 55	1 8	17 41	1 2	20 30	0 29	16 23	1 49	3 33	0 36	16 4	1 41	27 50	15 23	8 18	8 4	18 57			n.a.
T 6	23 2	13 40	1 44	22 2	1 13	21 9	1 5	17 27	1 1	20 32	0 29	16 25	1 49	3 33	0 36	16 5	1 41	27 49	15 23	8 18	8 3	18 56			n.a.
W 7	22 56	16 9	2 40	21 33	1 4	21 22	1 2	17 12	1 1	20 34	0 29	16 26	1 49	3 34	0 35	16 5	1 41	27 48	15 23	8 16	8 2	18 56			n.a.
T 8	22 49	17 55	3 29	21 2	0 54	21 35	0 59	16 58	1 0	20 37	0 29	16 27	1 49	3 34	0 35	16 5	1 41	27 48	15 23	8 14	8 1	18 56			n.a.
F 9	22 42	18 54	4 9	20 31	0 44	21 47	0 56	16 43	1 0	20 39	0 29	16 28	1 49	3 34	0 35	16 6	1 41	27 47	15 22	8 10	8 0	18 56			n.a.
S 10	22 34	19 4	4 38	19 58	0 32	21 58	0 54	16 28	0 59	20 41	0 29	16 30	1 49	3 35	0 35	16 6	1 41	27 46	15 22	8 6	7 58	18 55			n.a.
S 11	22 26	18 24	4 55	19 25	0 20	22 9	0 51	16 13	0 58	20 44	0 29	16 31	1 49	3 35	0 35	16 6	1 41	27 46	15 22	8 0	7 57	18 55			n.a.
M12	22 18	16 55	4 59	18 52	0 7	22 19	0 48	15 58	0 58	20 46	0 28	16 32	1 49	3 36	0 35	16 7	1 41	27 45	15 22	7 54	7 56	18 55			n.a.
T 13	22 9	14 41	4 50	18 18	0n 7	22 29	0 45	15 43	0 57	20 48	0 28	16 33	1 49	3 36	0 35	16 7	1 41	27 45	15 22	7 49	7 55	18 55			n.a.
W14	21 59	11 48	4 27	17 45	0 21	22 38	0 42	15 27	0 57	20 50	0 28	16 34	1 49	3 37	0 35	16 7	1 41	27 44	15 22	7 44	7 53	18 54			n.a.
T 15	21 50	8 23	3 52	17 13	0 36	22 46	0 39	15 12	0 56	20 52	0 28	16 35	1 50	3 37	0 35	16 8	1 41	27 43	15 21	7 40	7 52	18 54			n.a.
F 16	21 39	4 34	3 6	16 42	0 52	22 54	0 36	14 56	0 56	20 55	0 28	16 36	1 50	3 38	0 35	16 8	1 41	27 43	15 21	7 37	7 51	18 54			n.a.
S 17	21 29	0 29	2 9	16 12	1 8	23 0	0 33	14 40	0 55	20 57	0 28	16 37	1 50	3 38	0 35	16 8	1 41	27 42	15 21	7 35	7 50	18 54			n.a.
S 18	21 18	3s41	1 5	15 45	1 24	23 7	0 30	14 24	0 54	20 59	0 28	16 38	1 50	3 39	0 35	16 8	1 41	27 41	15 21	7 34	7 49	18 53			n.a.
M19	21 6	7 47	0n 4	15 20	1 41	23 12	0 27	14 8	0 54	21 1	0 28	16 39	1 50	3 39	0 35	16 9	1 41	27 41	15 21	7 34	7 47	18 53			n.a.
T 20	20 55	11 36	1 14	14 57	1 57	23 17	0 24	13 52	0 53	21 3	0 28	16 40	1 50	3 40	0 35	16 9	1 41	27 40	15 21	7 34	7 46	18 53			n.a.
W21	20 42	14 53	2 23	14 38	2 13	23 21	0 21	13 36	0 53	21 5	0 28	16 41	1 50	3 41	0 35	16 9	1 42	27 39	15 20	7 34	7 45	18 53			n.a.
T 22	20 30	17 22	3 24	14 22	2 29	23 24	0 18	13 19	0 52	21 7	0 28	16 42	1 50	3 41	0 35	16 9	1 42	27 39	15 20	7 33	7 44	18 52			n.a.
F 23	20 17	18 47	4 13	14 10	2 44	23 27	0 15	13 3	0 52	21 9	0 28	16 43	1 50	3 42	0 35	16 10	1 42	27 38	15 20	7 30	7 43	18 52			n.a.
S 24	20 4	18 56	4 47	14 1	2 58	23 29	0 12	12 46	0 51	21 10	0 28	16 44	1 51	3 43	0 35	16 10	1 42	27 38	15 20	7 27	7 41	18 52			n.a.
S 25	19 50	17 45	5 1	13 57	3 11	23 30	0 10	12 29	0 50	21 12	0 28	16 45	1 51	3 43	0 35	16 10	1 42	27 37	15 20	7 23	7 40	18 51			n.a.
M26	19 36	15 19	4 54	13 56	3 22	23 31	0 7	12 12	0 50	21 14	0 28	16 46	1 51	3 44	0 35	16 10	1 42	27 36	15 20	7 19	7 39	18 51			n.a.
T 27	19 21	11 54	4 26	13 58	3 32	23 31	0 4	11 56	0 49	21 16	0 28	16 47	1 51	3 45	0 35	16 11	1 42	27 36	15 20	7 15	7 38	18 51			n.a.
W28	19 7	7 49	3 42	14 4	3 40	23 30	0 1	11 39	0 49	21 18	0 28	16 47	1 51	3 45	0 35	16 11	1 42	27 35	15 20	7 11	7 36	18 51			n.a.
T 29	18 52	3 24	2 45	14 14	3 46	23 29	0s 2	11 21	0 48	21 19	0 28	16 48	1 51	3 46	0 35	16 11	1 42	27 34	15 19	7 9	7 35	18 50			n.a.
F 30	18 36	1n 4	1 39	14 26	3 49	23 26	0 5	11 4	0 47	21 21	0 28	16 49	1 51	3 47	0 35	16 11	1 42	27 34	15 19	7 7	7 34	18 50			n.a.
S 31	18s21	5n19	0n31	14s40	3n51	23s23	0s 8	10s47	0s47	21s23	0n28	16s50	1n51	3n48	0s35	16s11	1n42	27s33	15s19	7s 7	7s33	18n50			n.a.

Julian Day Number = 1661522.5, Delta T = 03h25m28s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'54, Lahiri = - 6°12'54 Julian Calendar 1 Jan. 164 BCE == Greg. Calendar 29 Dec. 165 BCE

The year -163 astronomical counting style corresponds to year 164 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 164 BCE
geocentric

FEBRUARY 164 BCE (-163) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 30 50	9♒30'19	24♈58	7°R17	12♉ 5	5♓ 1	7♐48	22♏37	10♈51	19♏35	25♒21	17♎56	19♎ 1	0♋47	n.a.	S 1
M 2	8 34 46	10°30'24	7♉25	6♒15	13°19	5°46	7°57	22°40	10°53	19°35	25°23	17°R56	18°57	0°53	n.a.	M 2
T 3	8 38 43	11°30'27	19°36	5°14	14°33	6°31	8° 7	22°43	10°55	19°36	25°24	17°56	18°54	1° 0	n.a.	T 3
W 4	8 42 39	12°30'27	1♊35	4°17	15°46	7°17	8°16	22°46	10°57	19°37	25°26	17°54	18°51	1° 7	n.a.	W 4
T 5	8 46 36	13°30'26	13°27	3°24	17° 0	8° 2	8°26	22°49	10°59	19°37	25°27	17°49	18°48	1°14	n.a.	T 5
F 6	8 50 33	14°30'22	25°17	2°36	18°14	8°47	8°35	22°52	11° 2	19°38	25°29	17°43	18°45	1°20	n.a.	F 6
S 7	8 54 29	15°30'15	7♋ 9	1°53	19°28	9°32	8°44	22°54	11° 4	19°38	25°30	17°33	18°41	1°27	n.a.	S 7
S 8	8 58 26	16°30'07	19° 5	1°17	20°42	10°17	8°53	22°57	11° 6	19°39	25°32	17°23	18°38	1°34	n.a.	S 8
M 9	9 2 22	17°29'56	1♌ 9	0°47	21°56	11° 2	9° 2	22°59	11° 8	19°39	25°33	17°11	18°35	1°40	n.a.	M 9
T 10	9 6 19	18°29'43	13°20	0°23	23° 9	11°47	9°10	23° 2	11°11	19°40	25°35	16°59	18°32	1°47	n.a.	T 10
W11	9 10 15	19°29'28	25°41	0° 6	24°23	12°32	9°19	23° 4	11°13	19°40	25°36	16°49	18°29	1°54	n.a.	W11
T 12	9 14 12	20°29'11	8♍12	29♉56	25°37	13°17	9°27	23° 6	11°16	19°41	25°38	16°41	18°26	2° 1	n.a.	T 12
F 13	9 18 8	21°28'52	20°53	29°D52	26°51	14° 1	9°36	23° 8	11°18	19°41	25°39	16°36	18°22	2° 7	n.a.	F 13
S 14	9 22 5	22°28'31	3♎45	29°54	28° 5	14°46	9°44	23°10	11°21	19°41	25°41	16°33	18°19	2°14	n.a.	S 14
S 15	9 26 2	23°28'08	16°50	0♒ 2	29°19	15°31	9°52	23°12	11°23	19°42	25°42	16°D32	18°16	2°21	n.a.	S 15
M16	9 29 58	24°27'43	0♏ 7	0°15	0♒32	16°16	10° 0	23°14	11°26	19°42	25°44	16°32	18°13	2°27	n.a.	M16
T 17	9 33 55	25°27'16	13°40	0°34	1°46	17° 0	10° 8	23°16	11°28	19°42	25°45	16°33	18°10	2°34	n.a.	T 17
W18	9 37 51	26°26'48	27°28	0°58	3° 0	17°45	10°15	23°17	11°31	19°42	25°47	16°R34	18° 6	2°41	n.a.	W18
T 19	9 41 48	27°26'18	11♐34	1°26	4°14	18°29	10°23	23°19	11°34	19°42	25°49	16°33	18° 3	2°48	n.a.	T 19
F 20	9 45 44	28°25'45	25°55	1°59	5°28	19°14	10°30	23°20	11°36	19°42	25°50	16°30	18° 0	2°54	n.a.	F 20
S 21	9 49 41	29°25'12	10♉29	2°37	6°42	19°58	10°37	23°22	11°39	19°43	25°52	16°25	17°57	3° 1	n.a.	S 21
S 22	9 53 37	0♓24'36	25°12	3°18	7°55	20°43	10°44	23°23	11°42	19°43	25°53	16°19	17°54	3° 8	n.a.	S 22
M23	9 57 34	1°23'58	9♒56	4° 3	9° 9	21°27	10°51	23°24	11°45	19°R43	25°55	16°12	17°51	3°14	n.a.	M23
T 24	10 1 31	2°23'18	24°34	4°51	10°23	22°11	10°58	23°25	11°47	19°43	25°56	16° 5	17°47	3°21	n.a.	T 24
W25	10 5 27	3°22'36	8♓58	5°43	11°37	22°55	11° 5	23°26	11°50	19°43	25°58	15°59	17°44	3°28	n.a.	W25
T 26	10 9 24	4°21'51	23° 3	6°37	12°51	23°40	11°11	23°27	11°53	19°42	25°59	15°55	17°41	3°35	n.a.	T 26
F 27	10 13 20	5°21'05	6♈44	7°35	14° 5	24°24	11°18	23°27	11°56	19°42	26° 1	15°53	17°38	3°41	n.a.	F 27
S 28	10 17 17	6♓20'16	20♈ 0	8♒35	15♒18	25♓ 8	11♐24	23♏28	11♈59	19♏42	26♒ 2	15°D52	17♎35	3♋48	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	18s 5	9n12	0s37	14s57	3n50	23s20	0s10	10s30	0s46	21s24	0n28	16s50	1n51	3n49	0s35	16s11	1n42	27s33	15s19	7s 7	7s32	18n49			n.a.
M 2	17 48	12 32	1 42	15 15	3 47	23 15	0 13	10 12	0 46	21 26	0 28	16 51	1 52	3 50	0 35	16 12	1 42	27 32	15 19	7 7	7 30	18 49			n.a.
T 3	17 32	15 16	2 40	15 35	3 43	23 10	0 16	9 55	0 45	21 27	0 28	16 52	1 52	3 50	0 35	16 12	1 42	27 31	15 19	7 7	7 29	18 49			n.a.
W 4	17 15	17 17	3 30	15 55	3 36	23 4	0 18	9 37	0 44	21 29	0 28	16 52	1 52	3 51	0 35	16 12	1 42	27 31	15 19	7 6	7 28	18 48			n.a.
T 5	16 57	18 31	4 11	16 15	3 28	22 58	0 21	9 20	0 44	21 31	0 27	16 53	1 52	3 52	0 34	16 12	1 42	27 30	15 19	7 4	7 27	18 48			n.a.
F 6	16 40	18 57	4 41	16 35	3 18	22 51	0 24	9 2	0 43	21 32	0 27	16 53	1 52	3 53	0 34	16 12	1 42	27 30	15 19	7 2	7 25	18 48			n.a.
S 7	16 22	18 33	4 58	16 55	3 7	22 43	0 26	8 44	0 43	21 34	0 27	16 54	1 52	3 54	0 34	16 12	1 42	27 29	15 19	6 58	7 24	18 47			n.a.
S 8	16 4	17 20	5 3	17 15	2 56	22 34	0 29	8 27	0 42	21 35	0 27	16 55	1 52	3 55	0 34	16 12	1 42	27 28	15 19	6 54	7 23	18 47			n.a.
M 9	15 46	15 21	4 55	17 34	2 43	22 25	0 31	8 9	0 41	21 36	0 27	16 55	1 53	3 56	0 34	16 12	1 42	27 28	15 19	6 49	7 22	18 47			n.a.
T 10	15 27	12 39	4 32	17 51	2 30	22 15	0 34	7 51	0 41	21 38	0 27	16 56	1 53	3 57	0 34	16 12	1 43	27 27	15 19	6 45	7 21	18 46			n.a.
W11	15 9	9 23	3 57	18 8	2 16	22 5	0 36	7 33	0 40	21 39	0 27	16 56	1 53	3 58	0 34	16 12	1 43	27 27	15 19	6 41	7 19	18 46			n.a.
T 12	14 50	5 39	3 10	18 24	2 3	21 54	0 39	7 15	0 39	21 40	0 27	16 56	1 53	3 59	0 34	16 13	1 43	27 26	15 19	6 38	7 18	18 46			n.a.
F 13	14 30	1 37	2 13	18 38	1 49	21 42	0 41	6 57	0 39	21 42	0 27	16 57	1 53	4 0	0 34	16 13	1 43	27 26	15 19	6 36	7 17	18 45			n.a.
S 14	14 11	2s33	1 8	18 52	1 35	21 29	0 43	6 39	0 38	21 43	0 27	16 57	1 53	4 1	0 34	16 13	1 43	27 25	15 19	6 34	7 16	18 45			n.a.
S 15	13 51	6 40	0n 2	19 3	1 21	21 16	0 46	6 21	0 38	21 44	0 27	16 58	1 53	4 2	0 34	16 13	1 43	27 24	15 19	6 34	7 14	18 45			n.a.
M16	13 31	10 31	1 12	19 14	1 7	21 3	0 48	6 3	0 37	21 45	0 27	16 58	1 53	4 3	0 34	16 13	1 43	27 24	15 19	6 34	7 13	18 44			n.a.
T 17	13 11	13 53	2 21	19 23	0 54	20 48	0 50	5 45	0 36	21 47	0 27	16 58	1 54	4 4	0 34	16 13	1 43	27 23	15 19	6 35	7 12	18 44			n.a.
W18	12 51	16 32	3 22	19 31	0 41	20 33	0 52	5 27	0 36	21 48	0 27	16 58	1 54	4 5	0 34	16 13	1 43	27 23	15 19	6 35	7 11	18 44			n.a.
T 19	12 30	18 15	4 13	19 37	0 28	20 18	0 54	5 8	0 35	21 49	0 27	16 59	1 54	4 6	0 34	16 13	1 43	27 22	15 19	6 35	7 10	18 43			n.a.
F 20	12 9	18 51	4 48	19 42	0 15	20 2	0 56	4 50	0 34	21 50	0 27	16 59	1 54	4 7	0 34	16 13	1 43	27 22	15 19	6 34	7 8	18 43			n.a.
S 21	11 48	18 12	5 6	19 45	0 3	19 45	0 58	4 32	0 34	21 51	0 27	16 59	1 54	4 8	0 34	16 13	1 43	27 21	15 19	6 32	7 7	18 42			n.a.
S 22	11 27	16 21	5 4	19 47	0s 8	19 28	1 0	4 14	0 33	21 52	0 27	16 59	1 54	4 9	0 34	16 13	1 43	27 21	15 19	6 29	7 6	18 42			n.a.
M23	11 6	13 26	4 42	19 47	0 20	19 10	1 2	3 55	0 32	21 53	0 27	16 59	1 54	4 10	0 34	16 13	1 43	27 20	15 19	6 26	7 5	18 42			n.a.
T 24	10 45	9 41	4 2	19 46	0 30	18 52	1 4	3 37	0 32	21 54	0 27	17 0	1 55	4 12	0 34	16 12	1 43	27 20	15 19	6 24	7 3	18 41			n.a.
W25	10 23	5 25	3 6	19 43	0 41	18 33	1 6	3 19	0 31	21 55	0 27	17 0	1 55	4 13	0 34	16 12	1 43	27 19	15 19	6 21	7 2	18 41			n.a.
T 26	10 1	0 57	2 1	19 39	0 50	18 13	1 7	3 1	0 31	21 56	0 27	17 0	1 55	4 14	0 34	16 12	1 43	27 19	15 19	6 20	7 1	18 40			n.a.
F 27	9 39	3n27	0 49	19 33	1 0	17 53	1 9	2 42	0 30	21 57	0 27	17 0	1 55	4 15	0 34	16 12	1 43	27 18	15 19	6 19	7 0	18 40			n.a.
S 28	9s17	7n34	0s22	19s26	1s 9	17s33	1s10	2s24	0s29	21s58	0n27	17s 0	1n55	4n16	0s34	16s12	1n43	27s18	15s19	6s19	6s59	18n40			n.a.

Julian Day Number = 1661553.5, Delta T = 03h25m27s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'50, Lahiri = - 6°12'49 Julian Calendar 1 Feb. 164 BCE == Greg. Calendar 29 Jan. 164 BCE

The year -163 astronomical counting style corresponds to year 164 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 164 BCE
geocentric

MARCH 164 BCE (-163) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 21 13	7♓19'25	2♉53	9♒39	16♒32	25♓52	11♐30	23♏29	12♈ 2	19°R42	26♒ 4	15♎53	17♎32	3♋55	n.a.	S 1
M 2	10 25 10	8°18'31	15°24	10°44	17°46	26°36	11°36	23°29	12° 5	19♏42	26° 5	15°55	17°28	4° 1	n.a.	M 2
T 3	10 29 6	9°17'35	27°39	11°52	19° 0	27°20	11°41	23°29	12° 8	19°42	26° 7	15°56	17°25	4° 8	n.a.	T 3
W 4	10 33 3	10°16'37	9♊41	13° 2	20°14	28° 4	11°47	23°30	12°11	19°41	26° 8	15°R57	17°22	4°15	n.a.	W 4
T 5	10 36 59	11°15'36	21°36	14°15	21°27	28°48	11°52	23°30	12°14	19°41	26°10	15°56	17°19	4°22	n.a.	T 5
F 6	10 40 56	12°14'33	3♋28	15°29	22°41	29°31	11°57	23°R30	12°17	19°41	26°11	15°54	17°16	4°28	n.a.	F 6
S 7	10 44 53	13°13'27	15°21	16°46	23°55	0♈15	12° 2	23°30	12°20	19°40	26°13	15°51	17°12	4°35	n.a.	S 7
S 8	10 48 49	14°12'19	27°21	18° 5	25° 9	0°59	12° 7	23°30	12°23	19°40	26°14	15°46	17° 9	4°42	n.a.	S 8
M 9	10 52 46	15°11'09	9♌30	19°25	26°22	1°43	12°12	23°29	12°27	19°39	26°16	15°41	17° 6	4°49	n.a.	M 9
T 10	10 56 42	16° 9'57	21°50	20°47	27°36	2°26	12°17	23°29	12°30	19°39	26°17	15°36	17° 3	4°55	n.a.	T 10
W11	11 0 39	17° 8'42	4♍23	22°12	28°50	3°10	12°21	23°29	12°33	19°38	26°19	15°31	17° 0	5° 2	n.a.	W11
T 12	11 4 35	18° 7'25	17°11	23°37	0♓ 4	3°53	12°25	23°28	12°36	19°38	26°20	15°28	16°57	5° 9	n.a.	T 12
F 13	11 8 32	19° 6'06	0♎12	25° 5	1°17	4°37	12°29	23°27	12°39	19°37	26°22	15°25	16°53	5°15	n.a.	F 13
S 14	11 12 28	20° 4'45	13°26	26°35	2°31	5°20	12°33	23°27	12°43	19°37	26°23	15°D25	16°50	5°22	n.a.	S 14
S 15	11 16 25	21° 3'22	26°53	28° 6	3°45	6° 3	12°37	23°26	12°46	19°36	26°25	15°25	16°47	5°29	n.a.	S 15
M16	11 20 21	22° 1'58	10♏32	29°38	4°59	6°47	12°40	23°25	12°49	19°35	26°26	15°26	16°44	5°36	n.a.	M16
T 17	11 24 18	23° 0'31	24°21	1♓13	6°12	7°30	12°44	23°24	12°52	19°35	26°27	15°28	16°41	5°42	n.a.	T 17
W18	11 28 15	23°59'03	8♐20	2°49	7°26	8°13	12°47	23°23	12°56	19°34	26°29	15°29	16°37	5°49	n.a.	W18
T 19	11 32 11	24°57'33	22°27	4°27	8°40	8°56	12°50	23°22	12°59	19°33	26°30	15°R29	16°34	5°56	n.a.	T 19
F 20	11 36 8	25°56'02	6♑40	6° 6	9°53	9°39	12°53	23°20	13° 2	19°33	26°32	15°29	16°31	6° 2	n.a.	F 20
S 21	11 40 4	26°54'28	20°58	7°47	11° 7	10°22	12°55	23°19	13° 6	19°32	26°33	15°28	16°28	6° 9	n.a.	S 21
S 22	11 44 1	27°52'53	5♒16	9°30	12°21	11° 5	12°58	23°17	13° 9	19°31	26°34	15°26	16°25	6°16	n.a.	S 22
M23	11 47 57	28°51'17	19°32	11°14	13°35	11°48	13° 0	23°16	13°12	19°30	26°36	15°24	16°22	6°23	n.a.	M23
T 24	11 51 54	29°49'38	3♓42	13° 0	14°48	12°31	13° 2	23°14	13°16	19°29	26°37	15°22	16°18	6°29	n.a.	T 24
W25	11 55 50	0♈47'58	17°40	14°48	16° 2	13°14	13° 4	23°12	13°19	19°28	26°38	15°20	16°15	6°36	n.a.	W25
T 26	11 59 47	1°46'16	1♈23	16°38	17°16	13°57	13° 6	23°11	13°23	19°27	26°40	15°19	16°12	6°43	n.a.	T 26
F 27	12 3 44	2°44'32	14°49	18°29	18°29	14°40	13° 7	23° 9	13°26	19°26	26°41	15°D19	16° 9	6°49	n.a.	F 27
S 28	12 7 40	3°42'46	27°55	20°22	19°43	15°23	13° 8	23° 7	13°29	19°25	26°42	15°19	16° 6	6°56	n.a.	S 28
S 29	12 11 37	4°40'58	10♉43	22°16	20°57	16° 5	13°10	23° 5	13°33	19°24	26°43	15°20	16° 3	7° 3	n.a.	S 29
M30	12 15 33	5°39'08	23°14	24°12	22°10	16°48	13°10	23° 2	13°36	19°23	26°45	15°21	15°59	7°10	n.a.	M30
T 31	12 19 30	6♈37'16	5♊29	26♓10	23♓24	17♈30	13♐11	23♏ 0	13♈40	19♏22	26♒46	15♎22	15♎56	7♋16	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	8s55	11n11	1s31	19s17	1s17	17s12	1s12	2s 6	0s29	21s59	0n27	17s 0	1n55	4n17	0s34	16s12	1n43	27s17	15s19	6s19	6s57	18n39			n.a.
M 2	8 33	14 11	2 34	19 6	1 25	16 51	1 13	1 48	0 28	22 0	0 27	17 0	1 55	4 19	0 34	16 12	1 44	27 17	15 19	6 20	6 56	18 39			n.a.
T 3	8 11	16 29	3 28	18 54	1 33	16 29	1 15	1 29	0 27	22 0	0 27	17 0	1 55	4 20	0 34	16 12	1 44	27 16	15 19	6 20	6 55	18 38			n.a.
W 4	7 48	18 0	4 12	18 41	1 40	16 7	1 16	1 11	0 27	22 1	0 26	17 0	1 56	4 21	0 34	16 12	1 44	27 16	15 20	6 21	6 54	18 38			n.a.
T 5	7 25	18 43	4 44	18 26	1 46	15 44	1 17	0 53	0 26	22 2	0 26	17 0	1 56	4 22	0 34	16 12	1 44	27 15	15 20	6 20	6 52	18 38			n.a.
F 6	7 3	18 36	5 4	18 10	1 52	15 21	1 19	0 35	0 25	22 3	0 26	16 59	1 56	4 24	0 34	16 11	1 44	27 15	15 20	6 20	6 51	18 37			n.a.
S 7	6 40	17 39	5 12	17 51	1 58	14 57	1 20	0 17	0 25	22 3	0 26	16 59	1 56	4 25	0 34	16 11	1 44	27 15	15 20	6 18	6 50	18 37			n.a.
S 8	6 17	15 56	5 5	17 32	2 3	14 33	1 21	0n 2	0 24	22 4	0 26	16 59	1 56	4 26	0 34	16 11	1 44	27 14	15 20	6 16	6 49	18 36			n.a.
M 9	5 54	13 30	4 46	17 11	2 7	14 9	1 22	0 20	0 24	22 5	0 26	16 59	1 56	4 27	0 34	16 11	1 44	27 14	15 20	6 14	6 48	18 36			n.a.
T 10	5 31	10 25	4 12	16 48	2 11	13 44	1 23	0 38	0 23	22 5	0 26	16 59	1 56	4 29	0 34	16 11	1 44	27 13	15 20	6 12	6 46	18 36			n.a.
W11	5 8	6 49	3 26	16 24	2 15	13 19	1 24	0 56	0 22	22 6	0 26	16 59	1 56	4 30	0 34	16 11	1 44	27 13	15 20	6 11	6 45	18 35			n.a.
T 12	4 45	2 51	2 29	15 58	2 18	12 54	1 24	1 14	0 22	22 7	0 26	16 58	1 57	4 31	0 34	16 10	1 44	27 12	15 21	6 9	6 44	18 35			n.a.
F 13	4 22	1s20	1 23	15 31	2 21	12 28	1 25	1 32	0 21	22 7	0 26	16 58	1 57	4 32	0 34	16 10	1 44	27 12	15 21	6 8	6 43	18 34			n.a.
S 14	3 58	5 32	0 11	15 2	2 23	12 2	1 26	1 50	0 20	22 8	0 26	16 58	1 57	4 34	0 34	16 10	1 44	27 12	15 21	6 8	6 41	18 34			n.a.
S 15	3 35	9 30	1n 3	14 31	2 24	11 35	1 26	2 8	0 20	22 8	0 26	16 57	1 57	4 35	0 34	16 10	1 44	27 11	15 21	6 8	6 40	18 33			n.a.
M16	3 12	13 2	2 14	13 59	2 25	11 8	1 27	2 26	0 19	22 9	0 26	16 57	1 57	4 36	0 34	16 10	1 44	27 11	15 21	6 9	6 39	18 33			n.a.
T 17	2 48	15 52	3 18	13 26	2 26	10 41	1 27	2 44	0 18	22 9	0 26	16 57	1 57	4 38	0 34	16 9	1 44	27 11	15 21	6 9	6 38	18 32			n.a.
W18	2 25	17 48	4 11	12 51	2 25	10 14	1 28	3 1	0 18	22 10	0 26	16 56	1 57	4 39	0 34	16 9	1 44	27 10	15 21	6 10	6 36	18 32			n.a.
T 19	2 1	18 40	4 50	12 14	2 25	9 46	1 28	3 19	0 17	22 10	0 26	16 56	1 57	4 40	0 34	16 9	1 44	27 10	15 22	6 10	6 35	18 32			n.a.
F 20	1 38	18 22	5 11	11 36	2 24	9 19	1 28	3 37	0 17	22 10	0 26	16 55	1 58	4 42	0 34	16 9	1 44	27 10	15 22	6 10	6 34	18 31			n.a.
S 21	1 15	16 53	5 14	10 56	2 22	8 51	1 29	3 55	0 16	22 11	0 26	16 55	1 58	4 43	0 34	16 8	1 44	27 9	15 22	6 9	6 33	18 31			n.a.
S 22	0 51	14 22	4 57	10 15	2 20	8 22	1 29	4 12	0 15	22 11	0 26	16 54	1 58	4 44	0 33	16 8	1 44	27 9	15 22	6 9	6 31	18 30			n.a.
M23	0 28	11 0	4 21	9 33	2 17	7 54	1 29	4 30	0 15	22 12	0 26	16 54	1 58	4 46	0 33	16 8	1 45	27 9	15 22	6 8	6 30	18 30			n.a.
T 24	0 4	7 0	3 30	8 49	2 14	7 25	1 29	4 47	0 14	22 12	0 26	16 53	1 58	4 47	0 33	16 8	1 45	27 8	15 23	6 7	6 29	18 29			n.a.
W25	0n19	2 41	2 27	8 3	2 11	6 56	1 29	5 5	0 13	22 12	0 26	16 53	1 58	4 48	0 33	16 7	1 45	27 8	15 23	6 6	6 28	18 29			n.a.
T 26	0 43	1n43	1 16	7 16	2 6	6 27	1 29	5 22	0 13	22 12	0 26	16 52	1 58	4 50	0 33	16 7	1 45	27 8	15 23	6 6	6 27	18 28			n.a.
F 27	1 6	5 57	0 3	6 28	2 1	5 58	1 29	5 39	0 12	22 13	0 26	16 52	1 58	4 51	0 33	16 7	1 45	27 7	15 23	6 6	6 25	18 28			n.a.
S 28	1 30	9 47	1s 9	5 38	1 56	5 28	1 28	5 57	0 11	22 13	0 25	16 51	1 58	4 52	0 33	16 6	1 45	27 7	15 23	6 6	6 24	18 27			n.a.
S 29	1 53	13 3	2 16	4 47	1 50	4 58	1 28	6 14	0 11	22 13	0 25	16 51	1 59	4 54	0 33	16 6	1 45	27 7	15 24	6 6	6 23	18 27			n.a.
M30	2 16	15 39	3 15	3 55	1 44	4 29	1 28	6 31	0 10	22 13	0 25	16 50	1 59	4 55	0 33	16 6	1 45	27 7	15 24	6 7	6 22	18 26			n.a.
T 31	2n39	17n28	4s 3	3s 1	1s37	3s59	1s27	6n48	0s10	22s13	0n25	16s49	1n59	4n56	0s33	16s 5	1n45	27s 6	15s24	6s 7	6s20	18n26			n.a.

Julian Day Number = 1661581.5, Delta T = 03h25m26s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'46, Lahiri = - 6°12'45 Julian Calendar 1 March 164 BCE == Greg. Calendar 26 Feb. 164 BCE

The year -163 astronomical counting style corresponds to year 164 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 164 BCE
geocentric

APRIL 164 BCE (-163) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 23 26	7♈35'22	17♊33	28♓10	24♓38	18♈13	13♐12	22°R58	13♈43	19°R21	26♒47	15♎22	15♎53	7♋23	n.a.	W 1
T 2	12 27 23	8°33'26	29°30	0♈11	25°52	18°55	13°12	22♏55	13°47	19♏20	26°48	15°23	15°50	7°30	n.a.	T 2
F 3	12 31 19	9°31'28	11♋23	2°13	27° 5	19°38	13°12	22°53	13°50	19°19	26°50	15°R23	15°47	7°37	n.a.	F 3
S 4	12 35 16	10°29'29	23°18	4°17	28°19	20°20	13°R12	22°50	13°53	19°18	26°51	15°23	15°43	7°43	n.a.	S 4
S 5	12 39 13	11°27'27	5♌18	6°23	29°32	21° 3	13°12	22°47	13°57	19°17	26°52	15°22	15°40	7°50	n.a.	S 5
M 6	12 43 9	12°25'23	17°30	8°29	0♈46	21°45	13°12	22°45	14° 0	19°16	26°53	15°22	15°37	7°57	n.a.	M 6
T 7	12 47 6	13°23'17	29°55	10°37	2° 0	22°27	13°11	22°42	14° 4	19°14	26°54	15°22	15°34	8° 3	n.a.	T 7
W 8	12 51 2	14°21'09	12♍36	12°46	3°13	23° 9	13°11	22°39	14° 7	19°13	26°55	15°21	15°31	8°10	n.a.	W 8
T 9	12 54 59	15°19'00	25°37	14°55	4°27	23°51	13°10	22°36	14°11	19°12	26°56	15°D21	15°28	8°17	n.a.	T 9
F 10	12 58 55	16°16'49	8♎56	17° 5	5°41	24°33	13° 8	22°33	14°14	19°11	26°57	15°R21	15°24	8°24	n.a.	F 10
S 11	13 2 52	17°14'36	22°33	19°16	6°54	25°16	13° 7	22°30	14°18	19° 9	26°59	15°21	15°21	8°30	n.a.	S 11
S 12	13 6 48	18°12'22	6♏26	21°26	8° 8	25°58	13° 6	22°27	14°21	19° 8	27° 0	15°21	15°18	8°37	n.a.	S 12
M13	13 10 45	19°10'06	20°32	23°37	9°22	26°39	13° 4	22°23	14°25	19° 7	27° 1	15°21	15°15	8°44	n.a.	M13
T 14	13 14 41	20° 7'49	4♐47	25°46	10°35	27°21	13° 2	22°20	14°28	19° 5	27° 2	15°21	15°12	8°50	n.a.	T 14
W15	13 18 38	21° 5'31	19° 7	27°55	11°49	28° 3	13° 0	22°17	14°31	19° 4	27° 3	15°20	15° 9	8°57	n.a.	W15
T 16	13 22 35	22° 3'12	3♑27	0♉ 3	13° 2	28°45	12°58	22°13	14°35	19° 3	27° 4	15°19	15° 5	9° 4	n.a.	T 16
F 17	13 26 31	23° 0'51	17°45	2°10	14°16	29°27	12°55	22°10	14°38	19° 1	27° 5	15°D19	15° 2	9°11	n.a.	F 17
S 18	13 30 28	23°58'30	1♒56	4°15	15°30	0♉ 8	12°53	22° 6	14°42	19° 0	27° 6	15°19	14°59	9°17	n.a.	S 18
S 19	13 34 24	24°56'07	16° 0	6°18	16°43	0°50	12°50	22° 3	14°45	18°58	27° 7	15°20	14°56	9°24	n.a.	S 19
M20	13 38 21	25°53'43	29°54	8°19	17°57	1°32	12°47	21°59	14°49	18°57	27° 7	15°20	14°53	9°31	n.a.	M20
T 21	13 42 17	26°51'18	13♓37	10°18	19°10	2°13	12°44	21°55	14°52	18°55	27° 8	15°21	14°49	9°38	n.a.	T 21
W22	13 46 14	27°48'52	27° 7	12°15	20°24	2°55	12°41	21°51	14°55	18°54	27° 9	15°22	14°46	9°44	n.a.	W22
T 23	13 50 10	28°46'25	10♈25	14° 9	21°38	3°36	12°37	21°48	14°59	18°52	27°10	15°R23	14°43	9°51	n.a.	T 23
F 24	13 54 7	29°43'57	23°29	16° 0	22°51	4°18	12°34	21°44	15° 2	18°51	27°11	15°23	14°40	9°58	n.a.	F 24
S 25	13 58 4	0♉41'27	6♉19	17°49	24° 5	4°59	12°30	21°40	15° 6	18°49	27°12	15°22	14°37	10° 4	n.a.	S 25
S 26	14 2 0	1°38'56	18°55	19°35	25°19	5°41	12°26	21°36	15° 9	18°48	27°12	15°20	14°34	10°11	n.a.	S 26
M27	14 5 57	2°36'25	1♊18	21°18	26°32	6°22	12°22	21°32	15°12	18°46	27°13	15°18	14°30	10°18	n.a.	M27
T 28	14 9 53	3°33'52	13°30	22°58	27°46	7° 3	12°17	21°28	15°16	18°45	27°14	15°15	14°27	10°25	n.a.	T 28
W29	14 13 50	4°31'17	25°32	24°35	28°59	7°44	12°13	21°24	15°19	18°43	27°15	15°12	14°24	10°31	n.a.	W29
T 30	14 17 46	5♉28'42	7♋28	26♉10	0♉13	8♉26	12♐ 8	21♏20	15♈22	18♏42	27♒15	15♎10	14♎21	10♋38	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	3n 3	18n28	4s40	2s 6	1s30	3s29	1s27	7n 5	0s 9	22s13	0n25	16s49	1n59	4n58	0s33	16s 5	1n45	27s 6	15s24	6s 7	6s19	18n25		n.a.
T 2	3 26	18 38	5 5	1 11	1 22	2 59	1 26	7 22	0 8	22 14	0 25	16 48	1 59	4 59	0 33	16 5	1 45	27 6	15 25	6 7	6 18	18 25		n.a.
F 3	3 49	17 58	5 16	0 14	1 13	2 29	1 26	7 39	0 8	22 14	0 25	16 47	1 59	5 0	0 33	16 4	1 45	27 6	15 25	6 7	6 17	18 24		n.a.
S 4	4 12	16 31	5 14	0n44	1 5	1 58	1 25	7 56	0 7	22 14	0 25	16 46	1 59	5 2	0 33	16 4	1 45	27 6	15 25	6 7	6 15	18 24		n.a.
S 5	4 35	14 20	4 58	1 43	0 56	1 28	1 24	8 12	0 6	22 14	0 25	16 46	1 59	5 3	0 33	16 4	1 45	27 5	15 25	6 7	6 14	18 23		n.a.
M 6	4 58	11 30	4 29	2 42	0 46	0 58	1 23	8 29	0 6	22 14	0 25	16 45	1 59	5 4	0 33	16 3	1 45	27 5	15 26	6 7	6 13	18 23		n.a.
T 7	5 21	8 6	3 46	3 42	0 36	0 27	1 22	8 45	0 5	22 14	0 25	16 44	1 59	5 6	0 33	16 3	1 45	27 5	15 26	6 7	6 12	18 22		n.a.
W 8	5 43	4 16	2 52	4 42	0 26	0n 3	1 22	9 2	0 5	22 14	0 25	16 43	1 59	5 7	0 33	16 3	1 45	27 5	15 26	6 7	6 10	18 22		n.a.
T 9	6 6	0 8	1 47	5 42	0 16	0 34	1 21	9 18	0 4	22 14	0 25	16 42	1 59	5 9	0 33	16 2	1 45	27 5	15 26	6 7	6 9	18 21		n.a.
F 10	6 28	4s 7	0 36	6 42	0 5	1 4	1 19	9 34	0 3	22 14	0 25	16 42	2 0	5 10	0 33	16 2	1 45	27 5	15 27	6 7	6 8	18 21		n.a.
S 11	6 51	8 15	0n40	7 42	0n 5	1 34	1 18	9 50	0 3	22 13	0 25	16 41	2 0	5 11	0 33	16 2	1 45	27 5	15 27	6 7	6 7	18 20		n.a.
S 12	7 13	12 1	1 54	8 42	0 16	2 5	1 17	10 6	0 2	22 13	0 25	16 40	2 0	5 13	0 33	16 1	1 45	27 4	15 27	6 7	6 6	18 20		n.a.
M13	7 35	15 9	3 3	9 41	0 27	2 35	1 16	10 22	0 1	22 13	0 25	16 39	2 0	5 14	0 33	16 1	1 45	27 4	15 28	6 7	6 4	18 19		n.a.
T 14	7 57	17 23	4 1	10 39	0 37	3 6	1 15	10 38	0 1	22 13	0 24	16 38	2 0	5 15	0 33	16 0	1 45	27 4	15 28	6 6	6 3	18 19		n.a.
W15	8 19	18 32	4 44	11 35	0 47	3 36	1 13	10 54	0 0	22 13	0 24	16 37	2 0	5 17	0 33	16 0	1 45	27 4	15 28	6 6	6 2	18 18		n.a.
T 16	8 41	18 30	5 10	12 31	0 57	4 6	1 12	11 10	0n 0	22 13	0 24	16 36	2 0	5 18	0 33	16 0	1 45	27 4	15 29	6 6	6 1	18 18		n.a.
F 17	9 3	17 17	5 16	13 25	1 7	4 36	1 11	11 25	0 1	22 12	0 24	16 35	2 0	5 19	0 33	15 59	1 45	27 4	15 29	6 6	5 59	18 17		n.a.
S 18	9 24	15 1	5 4	14 17	1 16	5 6	1 9	11 41	0 2	22 12	0 24	16 34	2 0	5 21	0 33	15 59	1 45	27 4	15 29	6 6	5 58	18 17		n.a.
S 19	9 46	11 53	4 33	15 7	1 25	5 36	1 8	11 56	0 2	22 12	0 24	16 33	2 0	5 22	0 33	15 58	1 45	27 4	15 29	6 6	5 57	18 16		n.a.
M20	10 7	8 7	3 46	15 55	1 33	6 6	1 6	12 11	0 3	22 12	0 24	16 32	2 0	5 23	0 33	15 58	1 45	27 4	15 30	6 6	5 56	18 15		n.a.
T 21	10 28	3 57	2 47	16 41	1 41	6 36	1 4	12 26	0 3	22 11	0 24	16 31	2 0	5 25	0 33	15 58	1 45	27 4	15 30	6 7	5 54	18 15		n.a.
W22	10 49	0n21	1 39	17 24	1 48	7 5	1 3	12 41	0 4	22 11	0 24	16 30	2 0	5 26	0 33	15 57	1 45	27 4	15 30	6 7	5 53	18 14		n.a.
T 23	11 10	4 35	0 27	18 5	1 55	7 35	1 1	12 56	0 5	22 11	0 24	16 29	2 0	5 27	0 33	15 57	1 45	27 4	15 31	6 7	5 52	18 14		n.a.
F 24	11 30	8 32	0s45	18 44	2 1	8 4	0 59	13 11	0 5	22 10	0 24	16 28	2 0	5 29	0 33	15 56	1 45	27 4	15 31	6 7	5 51	18 13		n.a.
S 25	11 51	12 0	1 53	19 21	2 6	8 33	0 58	13 25	0 6	22 10	0 24	16 27	2 0	5 30	0 33	15 56	1 45	27 4	15 31	6 7	5 49	18 13		n.a.
S 26	12 11	14 51	2 55	19 55	2 10	9 2	0 56	13 40	0 6	22 9	0 24	16 26	2 0	5 31	0 33	15 55	1 45	27 4	15 32	6 6	5 48	18 12		n.a.
M27	12 31	16 57	3 47	20 26	2 14	9 31	0 54	13 54	0 7	22 9	0 23	16 25	2 0	5 33	0 33	15 55	1 45	27 4	15 32	6 5	5 47	18 11		n.a.
T 28	12 51	18 15	4 28	20 55	2 16	9 59	0 52	14 9	0 8	22 8	0 23	16 24	2 0	5 34	0 33	15 55	1 45	27 4	15 32	6 4	5 46	18 11		n.a.
W29	13 10	18 42	4 56	21 22	2 19	10 28	0 50	14 23	0 8	22 8	0 23	16 23	2 0	5 35	0 33	15 54	1 45	27 4	15 33	6 3	5 44	18 10		n.a.
T 30	13n30	18n19	5s12	21n47	2n20	10n56	0s48	14n37	0n 9	22s 7	0n23	16s22	2n 0	5n36	0s33	15s54	1n45	27s 4	15s33	6s 2	5s43	18n10		n.a.

Julian Day Number = 1661612.5, Delta T = 03h25m25s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'42, Lahiri = - 6°12'41 Julian Calendar 1 Apr. 164 BCE == Greg. Calendar 29 March 164 BCE

The year -163 astronomical counting style corresponds to year 164 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 164 BCE
geocentric

MAY 164 BCE (-163) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 21 43	6♉26'05	19♋20	27♉41	1♉27	9♉ 7	12°R 3	21°R16	15♈25	18°R40	27♒16	15°R 8	14♎18	10♋45	n.a.	F 1
S 2	14 25 39	7°23'27	1♌14	29° 9	2°40	9°48	11♐58	21♏11	15°29	18♏39	27°17	15♎ 7	14°14	10°52	n.a.	S 2
S 3	14 29 36	8°20'47	13°14	0♊34	3°54	10°29	11°53	21° 7	15°32	18°37	27°18	15°D 7	14°11	10°58	n.a.	S 3
M 4	14 33 33	9°18'07	25°24	1°56	5° 8	11°10	11°48	21° 3	15°35	18°35	27°18	15° 8	14° 8	11° 5	n.a.	M 4
T 5	14 37 29	10°15'25	7♍49	3°15	6°21	11°51	11°43	20°59	15°38	18°34	27°19	15° 9	14° 5	11°12	n.a.	T 5
W 6	14 41 26	11°12'42	20°34	4°30	7°35	12°32	11°37	20°54	15°42	18°32	27°19	15°11	14° 2	11°18	n.a.	W 6
T 7	14 45 22	12° 9'58	3♎40	5°42	8°48	13°13	11°31	20°50	15°45	18°31	27°20	15°12	13°59	11°25	n.a.	T 7
F 8	14 49 19	13° 7'12	17°10	6°51	10° 2	13°53	11°26	20°46	15°48	18°29	27°20	15°R12	13°55	11°32	n.a.	F 8
S 9	14 53 15	14° 4'26	1♏ 4	7°57	11°16	14°34	11°20	20°41	15°51	18°27	27°21	15°11	13°52	11°39	n.a.	S 9
S 10	14 57 12	15° 1'40	15°19	8°59	12°29	15°15	11°14	20°37	15°54	18°26	27°21	15° 9	13°49	11°45	n.a.	S 10
M11	15 1 8	15°58'52	29°51	9°58	13°43	15°56	11° 8	20°33	15°57	18°24	27°22	15° 6	13°46	11°52	n.a.	M11
T 12	15 5 5	16°56'04	14♐34	10°53	14°56	16°36	11° 1	20°28	16° 0	18°23	27°22	15° 1	13°43	11°59	n.a.	T 12
W13	15 9 2	17°53'16	29°19	11°44	16°10	17°17	10°55	20°24	16° 4	18°21	27°23	14°57	13°40	12° 5	n.a.	W13
T 14	15 12 58	18°50'27	14♑ 1	12°31	17°24	17°58	10°48	20°19	16° 7	18°19	27°23	14°53	13°36	12°12	n.a.	T 14
F 15	15 16 55	19°47'38	28°32	13°15	18°37	18°38	10°42	20°15	16°10	18°18	27°24	14°50	13°33	12°19	n.a.	F 15
S 16	15 20 51	20°44'48	12♒49	13°55	19°51	19°19	10°35	20°11	16°13	18°16	27°24	14°48	13°30	12°26	n.a.	S 16
S 17	15 24 48	21°41'58	26°48	14°31	21° 5	19°59	10°28	20° 6	16°16	18°14	27°24	14°D48	13°27	12°32	n.a.	S 17
M18	15 28 44	22°39'08	10♓30	15° 2	22°18	20°39	10°21	20° 2	16°19	18°13	27°25	14°49	13°24	12°39	n.a.	M18
T 19	15 32 41	23°36'18	23°55	15°29	23°32	21°20	10°14	19°58	16°21	18°11	27°25	14°51	13°20	12°46	n.a.	T 19
W20	15 36 37	24°33'27	7♈ 4	15°52	24°46	22° 0	10° 7	19°53	16°24	18°10	27°25	14°52	13°17	12°53	n.a.	W20
T 21	15 40 34	25°30'36	20° 0	16°11	25°59	22°41	10° 0	19°49	16°27	18° 8	27°26	14°R52	13°14	12°59	n.a.	T 21
F 22	15 44 31	26°27'46	2♉43	16°25	27°13	23°21	9°53	19°44	16°30	18° 6	27°26	14°50	13°11	13° 6	n.a.	F 22
S 23	15 48 27	27°24'54	15°15	16°34	28°27	24° 1	9°46	19°40	16°33	18° 5	27°26	14°47	13° 8	13°13	n.a.	S 23
S 24	15 52 24	28°22'03	27°36	16°39	29°40	24°41	9°38	19°36	16°36	18° 3	27°26	14°41	13° 5	13°19	n.a.	S 24
M25	15 56 20	29°19'12	9♊49	16°R39	0♊54	25°21	9°31	19°31	16°38	18° 2	27°26	14°34	13° 1	13°26	n.a.	M25
T 26	16 0 17	0♊16'20	21°54	16°35	2° 8	26° 2	9°23	19°27	16°41	18° 0	27°26	14°26	12°58	13°33	n.a.	T 26
W27	16 4 13	1°13'28	3♋52	16°26	3°21	26°42	9°16	19°23	16°44	17°59	27°27	14°17	12°55	13°40	n.a.	W27
T 28	16 8 10	2°10'35	15°45	16°13	4°35	27°22	9° 8	19°19	16°47	17°57	27°27	14° 9	12°52	13°46	n.a.	T 28
F 29	16 12 6	3° 7'43	27°36	15°56	5°49	28° 2	9° 1	19°14	16°49	17°55	27°27	14° 2	12°49	13°53	n.a.	F 29
S 30	16 16 3	4° 4'50	9♌29	15°35	7° 3	28°42	8°53	19°10	16°52	17°54	27°27	13°57	12°46	14° 0	n.a.	S 30
S 31	16 20 0	5♊ 1'56	21♌27	15♊10	8♊16	29♉22	8♐45	19♏ 6	16♈54	17♏52	27♒27	13♎54	12♎42	14♋ 7	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13n49	17n 7	5s14	22n 9	2n20	11n23	0s46	14n51	0n 9	22s 7	0n23	16s21	2n 0	5n38	0s33	15s53	1n46	27s 4	15s33	6s 2	5s42	18n 9		n.a.
S 2	14 8	15 12	5 2	22 28	2 20	11 51	0 44	15 4	0 10	22 6	0 23	16 20	2 0	5 39	0 33	15 53	1 46	27 4	15 34	6 1	5 41	18 9		n.a.
S 3	14 27	12 36	4 38	22 46	2 19	12 18	0 42	15 18	0 11	22 6	0 23	16 19	2 0	5 40	0 33	15 52	1 46	27 4	15 34	6 1	5 39	18 8		n.a.
M 4	14 45	9 26	4 0	23 1	2 17	12 45	0 40	15 32	0 11	22 5	0 23	16 18	2 0	5 42	0 33	15 52	1 46	27 4	15 34	6 1	5 38	18 7		n.a.
T 5	15 4	5 47	3 11	23 15	2 15	13 12	0 38	15 45	0 12	22 4	0 23	16 16	2 0	5 43	0 33	15 51	1 46	27 4	15 35	6 2	5 37	18 7		n.a.
W 6	15 22	1 47	2 11	23 26	2 11	13 38	0 36	15 58	0 12	22 4	0 23	16 15	2 0	5 44	0 33	15 51	1 46	27 4	15 35	6 3	5 36	18 6		n.a.
T 7	15 40	2s26	1 3	23 35	2 7	14 4	0 33	16 11	0 13	22 3	0 22	16 14	2 0	5 45	0 33	15 51	1 46	27 5	15 36	6 3	5 34	18 6		n.a.
F 8	15 57	6 39	0n11	23 42	2 2	14 30	0 31	16 24	0 14	22 2	0 22	16 13	2 0	5 46	0 33	15 50	1 46	27 5	15 36	6 3	5 33	18 5		n.a.
S 9	16 15	10 38	1 26	23 48	1 56	14 55	0 29	16 37	0 14	22 2	0 22	16 12	2 0	5 48	0 33	15 50	1 46	27 5	15 36	6 3	5 32	18 4		n.a.
S 10	16 32	14 6	2 37	23 51	1 50	15 20	0 27	16 50	0 15	22 1	0 22	16 11	2 0	5 49	0 33	15 49	1 46	27 5	15 37	6 2	5 31	18 4		n.a.
M11	16 49	16 46	3 40	23 53	1 42	15 45	0 24	17 2	0 15	22 0	0 22	16 10	2 0	5 50	0 33	15 49	1 46	27 5	15 37	6 1	5 29	18 3		n.a.
T 12	17 5	18 21	4 29	23 53	1 34	16 9	0 22	17 15	0 16	21 59	0 22	16 9	2 0	5 51	0 33	15 48	1 46	27 5	15 37	5 59	5 28	18 3		n.a.
W13	17 21	18 42	5 0	23 52	1 25	16 33	0 20	17 27	0 16	21 59	0 22	16 8	2 0	5 52	0 33	15 48	1 46	27 5	15 38	5 57	5 27	18 2		n.a.
T 14	17 37	17 48	5 12	23 49	1 16	16 56	0 18	17 39	0 17	21 58	0 22	16 6	2 0	5 54	0 33	15 47	1 46	27 6	15 38	5 56	5 26	18 1		n.a.
F 15	17 53	15 45	5 3	23 44	1 6	17 19	0 15	17 51	0 18	21 57	0 22	16 5	2 0	5 55	0 33	15 47	1 46	27 6	15 38	5 55	5 24	18 1		n.a.
S 16	18 9	12 45	4 35	23 38	0 54	17 42	0 13	18 3	0 18	21 56	0 21	16 4	2 0	5 56	0 33	15 47	1 45	27 6	15 39	5 54	5 23	18 0		n.a.
S 17	18 24	9 5	3 52	23 31	0 43	18 4	0 10	18 14	0 19	21 55	0 21	16 3	2 0	5 57	0 33	15 46	1 45	27 6	15 39	5 54	5 22	17 59		n.a.
M18	18 39	5 0	2 56	23 22	0 30	18 25	0 8	18 26	0 19	21 54	0 21	16 2	2 0	5 58	0 33	15 46	1 45	27 7	15 40	5 54	5 21	17 59		n.a.
T 19	18 53	0 44	1 51	23 12	0 17	18 47	0 6	18 37	0 20	21 53	0 21	16 1	2 0	5 59	0 33	15 45	1 45	27 7	15 40	5 55	5 19	17 58		n.a.
W20	19 7	3n29	0 42	23 1	0 4	19 7	0 3	18 48	0 20	21 53	0 21	16 0	1 59	6 0	0 33	15 45	1 45	27 7	15 40	5 55	5 18	17 58		n.a.
T 21	19 21	7 28	0s28	22 48	0s11	19 27	0 1	18 59	0 21	21 52	0 21	15 59	1 59	6 2	0 33	15 44	1 45	27 7	15 41	5 55	5 17	17 57		n.a.
F 22	19 35	11 4	1 35	22 35	0 25	19 47	0n 1	19 10	0 22	21 51	0 21	15 58	1 59	6 3	0 33	15 44	1 45	27 8	15 41	5 55	5 16	17 56		n.a.
S 23	19 48	14 5	2 37	22 21	0 41	20 6	0 4	19 21	0 22	21 50	0 21	15 56	1 59	6 4	0 33	15 44	1 45	27 8	15 41	5 53	5 14	17 56		n.a.
S 24	20 1	16 26	3 30	22 6	0 56	20 25	0 6	19 31	0 23	21 49	0 20	15 55	1 59	6 5	0 33	15 43	1 45	27 8	15 42	5 51	5 13	17 55		n.a.
M25	20 14	18 0	4 13	21 50	1 12	20 43	0 8	19 42	0 23	21 48	0 20	15 54	1 59	6 6	0 34	15 43	1 45	27 8	15 42	5 48	5 12	17 54		n.a.
T 26	20 26	18 44	4 44	21 34	1 28	21 0	0 11	19 52	0 24	21 47	0 20	15 53	1 59	6 7	0 34	15 42	1 45	27 9	15 43	5 45	5 11	17 54		n.a.
W27	20 38	18 37	5 2	21 17	1 45	21 17	0 13	20 2	0 24	21 46	0 20	15 52	1 59	6 8	0 34	15 42	1 45	27 9	15 43	5 42	5 9	17 53		n.a.
T 28	20 50	17 41	5 7	20 59	2 1	21 33	0 15	20 12	0 25	21 45	0 20	15 51	1 59	6 9	0 34	15 41	1 45	27 9	15 43	5 39	5 8	17 52		n.a.
F 29	21 1	16 0	4 59	20 41	2 17	21 49	0 18	20 22	0 26	21 44	0 20	15 50	1 59	6 10	0 34	15 41	1 45	27 10	15 44	5 36	5 7	17 52		n.a.
S 30	21 12	13 37	4 37	20 23	2 33	22 4	0 20	20 31	0 26	21 43	0 20	15 49	1 58	6 11	0 34	15 41	1 45	27 10	15 44	5 34	5 6	17 51		n.a.
S 31	21n23	10n40	4s 4	20n 5	2s48	22n18	0n22	20n41	0n27	21s42	0n19	15s48	1n58	6n12	0s34	15s40	1n45	27s10	15s44	5s33	5s 4	17n50		n.a.

Julian Day Number = 1661642.5, Delta T = 03h25m24s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'38, Lahiri = - 6°12'37 Julian Calendar 1 May 164 BCE == Greg. Calendar 28 Apr. 164 BCE

The year -163 astronomical counting style corresponds to year 164 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 164 BCE
geocentric

JUNE 164 BCE (-163) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 23 56	5♊59'03	3♍35	14°R42	9♊30	0♊ 2	8°R38	19°R 2	16♈57	17°R51	27°R27	13°D53	12♎39	14♋13	n.a.	M 1
T 2	16 27 53	6°56'09	15°57	14♊11	10°44	0°41	8♐30	18♏58	16°59	17♏49	27♒27	13♎54	12°36	14°20	n.a.	T 2
W 3	16 31 49	7°53'14	28°38	13°38	11°57	1°21	8°22	18°54	17° 2	17°48	27°27	13°55	12°33	14°27	n.a.	W 3
T 4	16 35 46	8°50'20	11♎43	13° 3	13°11	2° 1	8°15	18°50	17° 4	17°46	27°27	13°R55	12°30	14°33	n.a.	T 4
F 5	16 39 42	9°47'26	25°15	12°26	14°25	2°41	8° 7	18°46	17° 7	17°45	27°27	13°55	12°26	14°40	n.a.	F 5
S 6	16 43 39	10°44'31	9♏15	11°49	15°39	3°20	7°59	18°42	17° 9	17°43	27°27	13°52	12°23	14°47	n.a.	S 6
S 7	16 47 35	11°41'36	23°41	11°12	16°52	4° 0	7°52	18°38	17°11	17°42	27°26	13°48	12°20	14°54	n.a.	S 7
M 8	16 51 32	12°38'42	8♐30	10°35	18° 6	4°40	7°44	18°34	17°14	17°41	27°26	13°41	12°17	15° 0	n.a.	M 8
T 9	16 55 29	13°35'48	23°34	9°59	19°20	5°19	7°36	18°31	17°16	17°39	27°26	13°33	12°14	15° 7	n.a.	T 9
W10	16 59 25	14°32'54	8♑43	9°26	20°34	5°59	7°29	18°27	17°18	17°38	27°26	13°24	12°11	15°14	n.a.	W10
T 11	17 3 22	15°30'01	23°46	8°54	21°47	6°38	7°21	18°23	17°20	17°36	27°26	13°15	12° 7	15°21	n.a.	T 11
F 12	17 7 18	16°27'08	8♒35	8°26	23° 1	7°18	7°14	18°19	17°22	17°35	27°25	13° 9	12° 4	15°27	n.a.	F 12
S 13	17 11 15	17°24'16	23° 4	8° 1	24°15	7°57	7° 6	18°16	17°25	17°34	27°25	13° 4	12° 1	15°34	n.a.	S 13
S 14	17 15 11	18°21'24	7♓ 8	7°41	25°29	8°37	6°59	18°12	17°27	17°32	27°25	13° 2	11°58	15°41	n.a.	S 14
M15	17 19 8	19°18'33	20°49	7°24	26°43	9°16	6°51	18° 9	17°29	17°31	27°25	13°D 2	11°55	15°47	n.a.	M15
T 16	17 23 5	20°15'43	4♈ 6	7°13	27°56	9°56	6°44	18° 6	17°31	17°30	27°24	13° 2	11°51	15°54	n.a.	T 16
W17	17 27 1	21°12'53	17° 4	7° 6	29°10	10°35	6°37	18° 2	17°33	17°28	27°24	13°R 2	11°48	16° 1	n.a.	W17
T 18	17 30 58	22°10'05	29°46	7°D 5	0♋24	11°14	6°30	17°59	17°35	17°27	27°23	13° 1	11°45	16° 8	n.a.	T 18
F 19	17 34 54	23° 7'17	12♉13	7° 9	1°38	11°54	6°22	17°56	17°36	17°26	27°23	12°58	11°42	16°14	n.a.	F 19
S 20	17 38 51	24° 4'30	24°31	7°19	2°52	12°33	6°15	17°53	17°38	17°25	27°23	12°51	11°39	16°21	n.a.	S 20
S 21	17 42 47	25° 1'44	6♊40	7°34	4° 6	13°12	6° 8	17°50	17°40	17°23	27°22	12°43	11°36	16°28	n.a.	S 21
M22	17 46 44	25°58'59	18°43	7°56	5°19	13°51	6° 2	17°47	17°42	17°22	27°22	12°31	11°32	16°34	n.a.	M22
T 23	17 50 40	26°56'14	0♋40	8°23	6°33	14°30	5°55	17°44	17°43	17°21	27°21	12°19	11°29	16°41	n.a.	T 23
W24	17 54 37	27°53'30	12°34	8°55	7°47	15°10	5°48	17°41	17°45	17°20	27°21	12° 5	11°26	16°48	n.a.	W24
T 25	17 58 34	28°50'47	24°26	9°34	9° 1	15°49	5°42	17°38	17°47	17°19	27°20	11°53	11°23	16°55	n.a.	T 25
F 26	18 2 30	29°48'04	6♌17	10°18	10°15	16°28	5°35	17°35	17°48	17°18	27°20	11°42	11°20	17° 1	n.a.	F 26
S 27	18 6 27	0♋45'22	18°10	11° 8	11°29	17° 7	5°29	17°33	17°50	17°17	27°19	11°33	11°17	17° 8	n.a.	S 27
S 28	18 10 23	1°42'41	0♍ 8	12° 3	12°43	17°46	5°23	17°30	17°51	17°16	27°19	11°27	11°13	17°15	n.a.	S 28
M29	18 14 20	2°40'00	12°15	13° 4	13°57	18°25	5°17	17°28	17°53	17°15	27°18	11°23	11°10	17°22	n.a.	M29
T 30	18 18 16	3♋37'20	24♍34	14♊10	15♋10	19♊ 4	5♐11	17♏25	17♈54	17♏14	27♒17	11♎22	11♎ 7	17♋28	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21n33	7n13	3s19	19n47	3s 3	22n32	0n25	20n50	0n27	21s41	0n19	15s47	1n58	6n13	0s34	15s40	1n45	27s11	15s45	5s32	5s 3	17n50		n.a.
T 2	21 43	3 23	2 24	19 30	3 17	22 45	0 27	20 59	0 28	21 39	0 19	15 46	1 58	6 14	0 34	15 39	1 45	27 11	15 45	5 33	5 2	17 49		n.a.
W 3	21 52	0s41	1 21	19 13	3 31	22 58	0 29	21 8	0 28	21 38	0 19	15 45	1 58	6 15	0 34	15 39	1 45	27 11	15 46	5 33	5 1	17 48		n.a.
T 4	22 2	4 52	0 12	18 56	3 43	23 10	0 31	21 16	0 29	21 37	0 19	15 44	1 58	6 16	0 34	15 39	1 45	27 12	15 46	5 33	4 59	17 48		n.a.
F 5	22 10	8 56	1n 0	18 40	3 54	23 21	0 34	21 25	0 29	21 36	0 19	15 43	1 58	6 17	0 34	15 38	1 45	27 12	15 46	5 33	4 58	17 47		n.a.
S 6	22 19	12 40	2 11	18 26	4 4	23 31	0 36	21 33	0 30	21 35	0 19	15 42	1 58	6 18	0 34	15 38	1 45	27 12	15 47	5 32	4 57	17 46		n.a.
S 7	22 27	15 45	3 16	18 12	4 13	23 41	0 38	21 41	0 30	21 34	0 18	15 41	1 57	6 18	0 34	15 37	1 45	27 13	15 47	5 30	4 56	17 46		n.a.
M 8	22 34	17 52	4 9	18 0	4 20	23 50	0 40	21 49	0 31	21 33	0 18	15 40	1 57	6 19	0 34	15 37	1 45	27 13	15 47	5 27	4 54	17 45		n.a.
T 9	22 42	18 48	4 46	17 49	4 26	23 59	0 42	21 57	0 31	21 32	0 18	15 39	1 57	6 20	0 34	15 37	1 45	27 14	15 48	5 24	4 53	17 44		n.a.
W10	22 48	18 23	5 3	17 40	4 30	24 7	0 44	22 5	0 32	21 31	0 18	15 39	1 57	6 21	0 34	15 36	1 45	27 14	15 48	5 21	4 52	17 44		n.a.
T 11	22 55	16 41	4 59	17 33	4 33	24 14	0 46	22 12	0 33	21 30	0 18	15 38	1 57	6 22	0 34	15 36	1 45	27 14	15 48	5 18	4 51	17 43		n.a.
F 12	23 1	13 54	4 35	17 27	4 34	24 20	0 48	22 19	0 33	21 29	0 18	15 37	1 57	6 23	0 34	15 36	1 45	27 15	15 49	5 15	4 49	17 42		n.a.
S 13	23 6	10 19	3 54	17 24	4 33	24 26	0 50	22 26	0 34	21 27	0 17	15 36	1 56	6 23	0 34	15 35	1 45	27 15	15 49	5 13	4 48	17 41		n.a.
S 14	23 12	6 13	2 59	17 23	4 31	24 30	0 52	22 33	0 34	21 26	0 17	15 35	1 56	6 24	0 34	15 35	1 45	27 16	15 50	5 12	4 47	17 41		n.a.
M15	23 17	1 55	1 55	17 24	4 28	24 35	0 54	22 40	0 35	21 25	0 17	15 34	1 56	6 25	0 34	15 35	1 45	27 16	15 50	5 12	4 46	17 40		n.a.
T 16	23 21	2n22	0 47	17 26	4 23	24 38	0 56	22 46	0 35	21 24	0 17	15 34	1 56	6 26	0 34	15 34	1 45	27 17	15 50	5 12	4 44	17 39		n.a.
W17	23 25	6 27	0s21	17 31	4 17	24 41	0 58	22 53	0 36	21 23	0 17	15 33	1 56	6 27	0 34	15 34	1 45	27 17	15 51	5 12	4 43	17 39		n.a.
T 18	23 29	10 9	1 28	17 38	4 10	24 43	1 0	22 59	0 36	21 22	0 17	15 32	1 56	6 27	0 34	15 34	1 45	27 18	15 51	5 12	4 42	17 38		n.a.
F 19	23 32	13 20	2 28	17 47	4 1	24 44	1 2	23 5	0 37	21 21	0 16	15 31	1 55	6 28	0 34	15 33	1 45	27 18	15 51	5 10	4 41	17 37		n.a.
S 20	23 35	15 52	3 21	17 58	3 52	24 44	1 3	23 10	0 37	21 20	0 16	15 31	1 55	6 29	0 34	15 33	1 45	27 18	15 52	5 8	4 39	17 36		n.a.
S 21	23 37	17 40	4 4	18 11	3 41	24 44	1 5	23 16	0 38	21 19	0 16	15 30	1 55	6 29	0 34	15 33	1 45	27 19	15 52	5 5	4 38	17 36		n.a.
M22	23 39	18 39	4 35	18 25	3 30	24 43	1 7	23 21	0 38	21 18	0 16	15 29	1 55	6 30	0 34	15 32	1 44	27 19	15 52	5 0	4 37	17 35		n.a.
T 23	23 41	18 48	4 54	18 41	3 19	24 41	1 8	23 27	0 39	21 17	0 16	15 29	1 55	6 31	0 34	15 32	1 44	27 20	15 53	4 55	4 36	17 34		n.a.
W24	23 42	18 7	5 0	18 59	3 6	24 38	1 10	23 32	0 39	21 16	0 16	15 28	1 54	6 31	0 34	15 32	1 44	27 20	15 53	4 50	4 34	17 34		n.a.
T 25	23 42	16 40	4 53	19 17	2 53	24 35	1 11	23 36	0 40	21 15	0 15	15 27	1 54	6 32	0 34	15 32	1 44	27 21	15 53	4 45	4 33	17 33		n.a.
F 26	23 43	14 30	4 34	19 37	2 40	24 31	1 13	23 41	0 40	21 14	0 15	15 27	1 54	6 32	0 34	15 31	1 44	27 21	15 54	4 40	4 32	17 32		n.a.
S 27	23 43	11 43	4 2	19 58	2 26	24 26	1 14	23 45	0 41	21 13	0 15	15 26	1 54	6 33	0 34	15 31	1 44	27 22	15 54	4 37	4 31	17 31		n.a.
S 28	23 42	8 27	3 20	20 19	2 12	24 21	1 15	23 50	0 41	21 12	0 15	15 26	1 54	6 33	0 34	15 31	1 44	27 22	15 54	4 35	4 29	17 31		n.a.
M29	23 41	4 47	2 28	20 41	1 57	24 14	1 17	23 54	0 42	21 11	0 15	15 25	1 53	6 34	0 34	15 31	1 44	27 23	15 55	4 33	4 28	17 30		n.a.
T 30	23n40	0n51	1s28	21n 3	1s43	24n 8	1n18	23n58	0n42	21s10	0n15	15s25	1n53	6n35	0s34	15s30	1n44	27s23	15s55	4s33	4s27	17n29		n.a.

Julian Day Number = 1661673.5, Delta T = 03h25m23s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'33, Lahiri = - 6°12'33 Julian Calendar 1 June 164 BCE == Greg. Calendar 29 May 164 BCE

The year -163 astronomical counting style corresponds to year 164 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 164 BCE
geocentric

JULY 164 BCE (-163) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 22 13	4♋34'41	7♎12	15♊22	16♋24	19♊43	5°R 5	17°R23	17♈55	17°R13	27°R17	11°R22	11♎ 4	17♋35	n.a.	W 1
T 2	18 26 9	5°32'02	20°12	16°38	17°38	20°21	4♐59	17♏21	17°57	17♏12	27♒16	11♎21	11° 1	17°42	n.a.	T 2
F 3	18 30 6	6°29'24	3♏39	18° 0	18°52	21° 0	4°54	17°19	17°58	17°11	27°15	11°20	10°57	17°48	n.a.	F 3
S 4	18 34 3	7°26'47	17°35	19°27	20° 6	21°39	4°48	17°17	17°59	17°10	27°15	11°17	10°54	17°55	n.a.	S 4
S 5	18 37 59	8°24'11	2♐ 0	20°58	21°20	22°18	4°43	17°15	18° 0	17° 9	27°14	11°11	10°51	18° 2	n.a.	S 5
M 6	18 41 56	9°21'36	16°51	22°33	22°34	22°57	4°38	17°13	18° 1	17° 8	27°13	11° 3	10°48	18° 9	n.a.	M 6
T 7	18 45 52	10°19'02	2♑ 2	24°13	23°48	23°35	4°33	17°11	18° 3	17° 7	27°12	10°53	10°45	18°15	n.a.	T 7
W 8	18 49 49	11°16'29	17°22	25°56	25° 2	24°14	4°28	17° 9	18° 4	17° 7	27°12	10°42	10°42	18°22	n.a.	W 8
T 9	18 53 45	12°13'57	2♒39	27°43	26°16	24°53	4°23	17° 8	18° 5	17° 6	27°11	10°32	10°38	18°29	n.a.	T 9
F 10	18 57 42	13°11'26	17°43	29°33	27°30	25°31	4°19	17° 6	18° 5	17° 5	27°10	10°23	10°35	18°36	n.a.	F 10
S 11	19 1 39	14° 8'57	2♓25	1♋26	28°43	26°10	4°14	17° 5	18° 6	17° 4	27° 9	10°17	10°32	18°42	n.a.	S 11
S 12	19 5 35	15° 6'29	16°40	3°21	29°57	26°49	4°10	17° 4	18° 7	17° 4	27° 8	10°14	10°29	18°49	n.a.	S 12
M13	19 9 32	16° 4'03	0♈26	5°18	1♌11	27°27	4° 6	17° 2	18° 8	17° 3	27° 8	10°12	10°26	18°56	n.a.	M13
T 14	19 13 28	17° 1'38	13°46	7°17	2°25	28° 6	4° 2	17° 1	18° 9	17° 2	27° 7	10°12	10°23	19° 2	n.a.	T 14
W15	19 17 25	17°59'15	26°42	9°17	3°39	28°44	3°59	17° 0	18° 9	17° 2	27° 6	10°12	10°19	19° 9	n.a.	W15
T 16	19 21 21	18°56'54	9♉18	11°18	4°53	29°23	3°55	16°59	18°10	17° 1	27° 5	10°11	10°16	19°16	n.a.	T 16
F 17	19 25 18	19°54'34	21°38	13°20	6° 7	0♋ 1	3°52	16°58	18°10	17° 1	27° 4	10° 7	10°13	19°23	n.a.	F 17
S 18	19 29 14	20°52'17	3♊47	15°22	7°21	0°40	3°48	16°57	18°11	17° 0	27° 3	10° 1	10°10	19°29	n.a.	S 18
S 19	19 33 11	21°50'00	15°48	17°23	8°35	1°18	3°45	16°57	18°11	17° 0	27° 2	9°52	10° 7	19°36	n.a.	S 19
M20	19 37 7	22°47'46	27°44	19°25	9°49	1°57	3°43	16°56	18°12	16°59	27° 1	9°41	10° 3	19°43	n.a.	M20
T 21	19 41 4	23°45'33	9♋37	21°26	11° 3	2°35	3°40	16°56	18°12	16°59	27° 0	9°28	10° 0	19°49	n.a.	T 21
W22	19 45 1	24°43'21	21°29	23°27	12°17	3°13	3°38	16°55	18°13	16°59	26°59	9°15	9°57	19°56	n.a.	W22
T 23	19 48 57	25°41'12	3♌21	25°27	13°31	3°52	3°35	16°55	18°13	16°58	26°58	9° 2	9°54	20° 3	n.a.	T 23
F 24	19 52 54	26°39'03	15°15	27°26	14°45	4°30	3°33	16°55	18°13	16°58	26°57	8°50	9°51	20°10	n.a.	F 24
S 25	19 56 50	27°36'57	27°12	29°24	15°58	5° 8	3°31	16°55	18°13	16°58	26°56	8°41	9°48	20°16	n.a.	S 25
S 26	20 0 47	28°34'51	9♍15	1♌21	17°12	5°46	3°30	16°D55	18°13	16°57	26°55	8°35	9°44	20°23	n.a.	S 26
M27	20 4 43	29°32'47	21°26	3°16	18°26	6°25	3°28	16°55	18°13	16°57	26°54	8°31	9°41	20°30	n.a.	M27
T 28	20 8 40	0♌30'45	3♎49	5°11	19°40	7° 3	3°27	16°55	18°R14	16°57	26°53	8°D30	9°38	20°37	n.a.	T 28
W29	20 12 36	1°28'44	16°27	7° 4	20°54	7°41	3°26	16°55	18°13	16°57	26°52	8°30	9°35	20°43	n.a.	W29
T 30	20 16 33	2°26'45	29°24	8°56	22° 8	8°19	3°25	16°55	18°13	16°57	26°51	8°R30	9°32	20°50	n.a.	T 30
F 31	20 20 30	3♌24'47	12♏45	10♌47	23♌22	8♋57	3♐24	16♏56	18♈13	16♏57	26♒50	8♎30	9♎29	20♋57	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	23n38	3s13	0s22	21n26	1s29	24n 0	1n19	24n 1	0n43	21s 9	0n14	15s24	1n53	6n35	0s34	15s30	1n44	27s24	15s55	4s33	4s26	17n28			n.a.
T 2	23 36	7 16	0n47	21 48	1 14	23 51	1 20	24 5	0 43	21 8	0 14	15 24	1 53	6 36	0 34	15 30	1 44	27 25	15 56	4 33	4 24	17 28			n.a.
F 3	23 33	11 4	1 55	22 10	1 0	23 42	1 21	24 8	0 44	21 8	0 14	15 24	1 53	6 36	0 34	15 30	1 44	27 25	15 56	4 32	4 23	17 27			n.a.
S 4	23 30	14 25	2 59	22 31	0 46	23 32	1 22	24 11	0 44	21 7	0 14	15 23	1 52	6 36	0 34	15 29	1 44	27 26	15 56	4 31	4 22	17 26			n.a.
S 5	23 27	16 59	3 54	22 52	0 32	23 22	1 23	24 14	0 45	21 6	0 14	15 23	1 52	6 37	0 34	15 29	1 44	27 26	15 56	4 28	4 21	17 25			n.a.
M 6	23 23	18 30	4 34	23 11	0 19	23 11	1 24	24 17	0 45	21 5	0 13	15 23	1 52	6 37	0 34	15 29	1 44	27 27	15 57	4 25	4 19	17 25			n.a.
T 7	23 18	18 45	4 57	23 29	0 6	22 59	1 25	24 19	0 46	21 4	0 13	15 22	1 52	6 38	0 34	15 29	1 44	27 27	15 57	4 21	4 18	17 24			n.a.
W 8	23 14	17 38	4 58	23 46	0n 7	22 46	1 25	24 21	0 46	21 4	0 13	15 22	1 52	6 38	0 34	15 29	1 44	27 28	15 57	4 17	4 17	17 23			n.a.
T 9	23 9	15 16	4 39	24 0	0 19	22 33	1 26	24 24	0 47	21 3	0 13	15 22	1 51	6 38	0 34	15 29	1 44	27 28	15 58	4 13	4 16	17 22			n.a.
F 10	23 3	11 54	4 0	24 13	0 30	22 19	1 27	24 25	0 47	21 2	0 13	15 22	1 51	6 39	0 34	15 28	1 44	27 29	15 58	4 10	4 14	17 21			n.a.
S 11	22 57	7 51	3 5	24 23	0 40	22 4	1 27	24 27	0 48	21 2	0 13	15 21	1 51	6 39	0 34	15 28	1 44	27 29	15 58	4 7	4 13	17 21			n.a.
S 12	22 51	3 28	2 1	24 30	0 50	21 49	1 28	24 29	0 48	21 1	0 12	15 21	1 51	6 39	0 34	15 28	1 43	27 30	15 58	4 6	4 12	17 20			n.a.
M13	22 44	0n58	0 51	24 36	0 59	21 33	1 28	24 30	0 49	21 0	0 12	15 21	1 50	6 40	0 34	15 28	1 43	27 31	15 59	4 5	4 10	17 19			n.a.
T 14	22 37	5 12	0s19	24 38	1 8	21 17	1 28	24 31	0 49	21 0	0 12	15 21	1 50	6 40	0 34	15 28	1 43	27 31	15 59	4 5	4 9	17 18			n.a.
W15	22 29	9 4	1 26	24 38	1 15	21 0	1 29	24 32	0 50	20 59	0 12	15 21	1 50	6 40	0 34	15 28	1 43	27 32	15 59	4 5	4 8	17 18			n.a.
T 16	22 21	12 26	2 27	24 35	1 22	20 42	1 29	24 33	0 50	20 59	0 12	15 21	1 50	6 40	0 35	15 28	1 43	27 32	15 59	4 5	4 7	17 17			n.a.
F 17	22 13	15 9	3 20	24 30	1 28	20 24	1 29	24 33	0 51	20 58	0 12	15 21	1 50	6 40	0 35	15 28	1 43	27 33	16 0	4 3	4 5	17 16			n.a.
S 18	22 4	17 10	4 3	24 21	1 33	20 5	1 29	24 34	0 51	20 58	0 11	15 21	1 49	6 41	0 35	15 27	1 43	27 33	16 0	4 1	4 4	17 15			n.a.
S 19	21 55	18 23	4 35	24 10	1 37	19 45	1 29	24 34	0 52	20 58	0 11	15 21	1 49	6 41	0 35	15 27	1 43	27 34	16 0	3 57	4 3	17 14			n.a.
M20	21 46	18 47	4 54	23 57	1 41	19 25	1 29	24 34	0 52	20 57	0 11	15 21	1 49	6 41	0 35	15 27	1 43	27 34	16 0	3 53	4 2	17 14			n.a.
T 21	21 36	18 22	5 0	23 41	1 43	19 5	1 29	24 34	0 53	20 57	0 11	15 21	1 49	6 41	0 35	15 27	1 43	27 35	16 1	3 48	4 0	17 13			n.a.
W22	21 25	17 8	4 54	23 23	1 45	18 44	1 29	24 33	0 53	20 57	0 11	15 21	1 48	6 41	0 35	15 27	1 43	27 36	16 1	3 42	3 59	17 12			n.a.
T 23	21 15	15 11	4 34	23 2	1 47	18 22	1 29	24 33	0 54	20 56	0 10	15 21	1 48	6 41	0 35	15 27	1 43	27 36	16 1	3 37	3 58	17 11			n.a.
F 24	21 4	12 35	4 3	22 40	1 47	18 0	1 28	24 32	0 54	20 56	0 10	15 21	1 48	6 41	0 35	15 27	1 43	27 37	16 1	3 32	3 57	17 10			n.a.
S 25	20 52	9 27	3 21	22 15	1 47	17 37	1 28	24 31	0 54	20 56	0 10	15 21	1 48	6 41	0 35	15 27	1 43	27 37	16 1	3 29	3 55	17 9			n.a.
S 26	20 41	5 54	2 29	21 49	1 46	17 14	1 27	24 30	0 55	20 56	0 10	15 22	1 47	6 41	0 35	15 27	1 43	27 38	16 2	3 26	3 54	17 9			n.a.
M27	20 29	2 4	1 29	21 21	1 45	16 51	1 27	24 29	0 55	20 56	0 10	15 22	1 47	6 41	0 35	15 27	1 43	27 38	16 2	3 25	3 53	17 8			n.a.
T 28	20 16	1s55	0 25	20 52	1 43	16 27	1 26	24 27	0 56	20 56	0 10	15 22	1 47	6 41	0 35	15 27	1 43	27 39	16 2	3 24	3 52	17 7			n.a.
W29	20 3	5 53	0n42	20 21	1 41	16 2	1 25	24 25	0 56	20 55	0 9	15 23	1 47	6 41	0 35	15 27	1 42	27 39	16 2	3 24	3 50	17 6			n.a.
T 30	19 50	9 41	1 49	19 49	1 38	15 37	1 25	24 24	0 57	20 55	0 9	15 23	1 47	6 41	0 35	15 27	1 42	27 40	16 2	3 25	3 49	17 5			n.a.
F 31	19n37	13s 7	2n52	19n15	1n35	15n12	1n24	24n22	0n57	20s55	0n 9	15s23	1n46	6n41	0s35	15s27	1n42	27s41	16s 3	3s24	3s48	17n 5			n.a.

Julian Day Number = 1661703.5, Delta T = 03h25m22s
Ecliptic obliquity = 23°42'44, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'29, Lahiri = - 6°12'29 Julian Calendar 1 July 164 BCE == Greg. Calendar 28 June 164 BCE

The year -163 astronomical counting style corresponds to year 164 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 164 BCE
geocentric

AUGUST 164 BCE (-163) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 24 26	4♌22'50	26♏33	12♌37	24♌36	9♋35	3°R23	16♏56	18°R13	16°R57	26°R49	8°R28	9♎25	21♋ 3	n.a.	S 1
S 2	20 28 23	5°20'55	10♐48	14°25	25°50	10°13	3♐23	16°57	18♈13	16°D57	26♒48	8♎24	9°22	21°10	n.a.	S 2
M 3	20 32 19	6°19'02	25°28	16°12	27° 4	10°51	3°D23	16°58	18°13	16♏57	26°47	8°17	9°19	21°17	n.a.	M 3
T 4	20 36 16	7°17'10	10♑30	17°58	28°18	11°29	3°23	16°59	18°12	16°57	26°45	8° 9	9°16	21°24	n.a.	T 4
W 5	20 40 12	8°15'20	25°44	19°42	29°31	12° 7	3°23	17° 0	18°12	16°57	26°44	8° 0	9°13	21°30	n.a.	W 5
T 6	20 44 9	9°13'31	11♒ 0	21°26	0♍45	12°45	3°23	17° 1	18°11	16°57	26°43	7°52	9° 9	21°37	n.a.	T 6
F 7	20 48 5	10°11'45	26° 7	23° 8	1°59	13°23	3°24	17° 2	18°11	16°57	26°42	7°45	9° 6	21°44	n.a.	F 7
S 8	20 52 2	11°10'00	10♓55	24°49	3°13	14° 1	3°25	17° 3	18°10	16°57	26°41	7°40	9° 3	21°50	n.a.	S 8
S 9	20 55 59	12° 8'18	25°18	26°29	4°27	14°39	3°26	17° 4	18°10	16°57	26°40	7°37	9° 0	21°57	n.a.	S 9
M10	20 59 55	13° 6'37	9♈13	28° 7	5°41	15°17	3°27	17° 6	18° 9	16°57	26°38	7°D36	8°57	22° 4	n.a.	M10
T 11	21 3 52	14° 4'59	22°39	29°45	6°55	15°55	3°28	17° 7	18° 9	16°58	26°37	7°37	8°54	22°11	n.a.	T 11
W12	21 7 48	15° 3'23	5♉39	1♍21	8° 8	16°32	3°30	17° 9	18° 8	16°58	26°36	7°38	8°50	22°17	n.a.	W12
T 13	21 11 45	16° 1'49	18°17	2°57	9°22	17°10	3°31	17°11	18° 7	16°58	26°35	7°R38	8°47	22°24	n.a.	T 13
F 14	21 15 41	17° 0'18	0♊37	4°31	10°36	17°48	3°33	17°12	18° 6	16°59	26°34	7°37	8°44	22°31	n.a.	F 14
S 15	21 19 38	17°58'49	12°44	6° 4	11°50	18°26	3°35	17°14	18° 5	16°59	26°33	7°34	8°41	22°37	n.a.	S 15
S 16	21 23 34	18°57'22	24°42	7°36	13° 4	19° 3	3°38	17°16	18° 5	17° 0	26°31	7°29	8°38	22°44	n.a.	S 16
M17	21 27 31	19°55'57	6♋35	9° 7	14°17	19°41	3°40	17°18	18° 4	17° 0	26°30	7°22	8°35	22°51	n.a.	M17
T 18	21 31 28	20°54'35	18°26	10°37	15°31	20°19	3°43	17°21	18° 3	17° 1	26°29	7°14	8°31	22°58	n.a.	T 18
W19	21 35 24	21°53'14	0♌19	12° 5	16°45	20°56	3°46	17°23	18° 2	17° 1	26°28	7° 5	8°28	23° 4	n.a.	W19
T 20	21 39 21	22°51'56	12°14	13°33	17°59	21°34	3°49	17°25	18° 1	17° 2	26°27	6°56	8°25	23°11	n.a.	T 20
F 21	21 43 17	23°50'40	24°14	14°59	19°12	22°12	3°52	17°28	17°59	17° 2	26°25	6°49	8°22	23°18	n.a.	F 21
S 22	21 47 14	24°49'26	6♍20	16°25	20°26	22°49	3°55	17°30	17°58	17° 3	26°24	6°43	8°19	23°25	n.a.	S 22
S 23	21 51 10	25°48'14	18°33	17°49	21°40	23°27	3°59	17°33	17°57	17° 4	26°23	6°39	8°15	23°31	n.a.	S 23
M24	21 55 7	26°47'04	0♎56	19°12	22°54	24° 4	4° 2	17°36	17°56	17° 4	26°22	6°D38	8°12	23°38	n.a.	M24
T 25	21 59 3	27°45'56	13°30	20°34	24° 7	24°42	4° 6	17°38	17°54	17° 5	26°20	6°38	8° 9	23°45	n.a.	T 25
W26	22 3 0	28°44'50	26°17	21°54	25°21	25°19	4°10	17°41	17°53	17° 6	26°19	6°39	8° 6	23°51	n.a.	W26
T 27	22 6 56	29°43'46	9♏20	23°13	26°35	25°57	4°15	17°44	17°52	17° 6	26°18	6°40	8° 3	23°58	n.a.	T 27
F 28	22 10 53	0♍42'43	22°42	24°31	27°48	26°34	4°19	17°47	17°50	17° 7	26°17	6°42	8° 0	24° 5	n.a.	F 28
S 29	22 14 50	1°41'43	6♐24	25°48	29° 2	27°12	4°24	17°50	17°49	17° 8	26°16	6°R42	7°56	24°12	n.a.	S 29
S 30	22 18 46	2°40'44	20°27	27° 3	0♎16	27°49	4°29	17°54	17°47	17° 9	26°14	6°41	7°53	24°18	n.a.	S 30
M31	22 22 43	3♍39'47	4♑51	28♍16	1♎29	28♋26	4♐34	17♏57	17♈46	17♏10	26♒13	6♎38	7♎50	24♋25	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	19n23	15s56	3n47	18n41	1n32	14n46	1n23	24n19	0n58	20s56	0n 9	15s24	1n46	6n41	0s35	15s27	1n42	27s41	16s 3	3s24	3s46	17n 4		n.a.	S 1
S 2	19 9	17 52	4 30	18 5	1 27	14 20	1 22	24 17	0 58	20 56	0 9	15 24	1 46	6 41	0 35	15 27	1 42	27 42	16 3	3 22	3 45	17 3		n.a.	S 2
M 3	18 54	18 42	4 57	17 29	1 23	13 54	1 21	24 14	0 59	20 56	0 9	15 24	1 46	6 41	0 35	15 27	1 42	27 42	16 3	3 19	3 44	17 2		n.a.	M 3
T 4	18 40	18 15	5 4	16 52	1 18	13 27	1 20	24 11	0 59	20 56	0 8	15 25	1 45	6 41	0 35	15 27	1 42	27 43	16 3	3 16	3 43	17 1		n.a.	T 4
W 5	18 25	16 29	4 50	16 14	1 13	13 0	1 19	24 8	1 0	20 56	0 8	15 25	1 45	6 41	0 35	15 28	1 42	27 43	16 3	3 13	3 41	17 0		n.a.	W 5
T 6	18 9	13 35	4 15	15 35	1 8	12 32	1 18	24 5	1 0	20 56	0 8	15 26	1 45	6 40	0 35	15 28	1 42	27 44	16 3	3 9	3 40	16 59		n.a.	T 6
F 7	17 53	9 47	3 23	14 56	1 2	12 4	1 16	24 2	1 0	20 57	0 8	15 26	1 45	6 40	0 35	15 28	1 42	27 44	16 4	3 6	3 39	16 59		n.a.	F 7
S 8	17 37	5 26	2 18	14 17	0 56	11 36	1 15	23 59	1 1	20 57	0 8	15 27	1 44	6 40	0 35	15 28	1 42	27 45	16 4	3 4	3 38	16 58		n.a.	S 8
S 9	17 21	0 53	1 6	13 37	0 50	11 8	1 14	23 55	1 1	20 57	0 8	15 28	1 44	6 40	0 35	15 28	1 42	27 45	16 4	3 3	3 36	16 57		n.a.	S 9
M10	17 4	3n34	0s 9	12 57	0 44	10 39	1 12	23 51	1 2	20 58	0 8	15 28	1 44	6 40	0 35	15 28	1 42	27 46	16 4	3 3	3 35	16 56		n.a.	M10
T 11	16 47	7 40	1 20	12 16	0 37	10 10	1 11	23 47	1 2	20 58	0 7	15 29	1 44	6 39	0 35	15 28	1 42	27 47	16 4	3 3	3 34	16 55		n.a.	T 11
W12	16 30	11 17	2 25	11 35	0 30	9 41	1 9	23 43	1 3	20 59	0 7	15 30	1 44	6 39	0 35	15 28	1 42	27 47	16 4	3 4	3 33	16 54		n.a.	W12
T 13	16 13	14 15	3 21	10 54	0 23	9 11	1 7	23 38	1 3	20 59	0 7	15 30	1 43	6 39	0 35	15 29	1 42	27 48	16 4	3 4	3 31	16 53		n.a.	T 13
F 14	15 55	16 30	4 6	10 13	0 16	8 41	1 6	23 34	1 4	21 0	0 7	15 31	1 43	6 38	0 35	15 29	1 41	27 48	16 4	3 3	3 30	16 53		n.a.	F 14
S 15	15 37	17 58	4 39	9 32	0 9	8 11	1 4	23 29	1 4	21 0	0 7	15 32	1 43	6 38	0 35	15 29	1 41	27 49	16 4	3 2	3 29	16 52		n.a.	S 15
S 16	15 19	18 37	5 0	8 51	0 2	7 41	1 2	23 24	1 5	21 1	0 7	15 33	1 43	6 38	0 35	15 29	1 41	27 49	16 4	3 0	3 28	16 51		n.a.	S 16
M17	15 0	18 26	5 7	8 9	0s 6	7 10	1 0	23 19	1 5	21 1	0 6	15 33	1 42	6 37	0 35	15 29	1 41	27 50	16 5	2 57	3 26	16 50		n.a.	M17
T 18	14 41	17 27	5 2	7 28	0 13	6 40	0 58	23 14	1 5	21 2	0 6	15 34	1 42	6 37	0 35	15 29	1 41	27 50	16 5	2 54	3 25	16 49		n.a.	T 18
W19	14 22	15 43	4 43	6 47	0 21	6 9	0 56	23 9	1 6	21 3	0 6	15 35	1 42	6 36	0 35	15 30	1 41	27 51	16 5	2 50	3 24	16 48		n.a.	W19
T 20	14 3	13 18	4 12	6 6	0 29	5 38	0 54	23 3	1 6	21 3	0 6	15 36	1 42	6 36	0 35	15 30	1 41	27 51	16 5	2 47	3 22	16 47		n.a.	T 20
F 21	13 43	10 19	3 29	5 25	0 37	5 7	0 52	22 57	1 7	21 4	0 6	15 37	1 41	6 35	0 35	15 30	1 41	27 52	16 5	2 44	3 21	16 46		n.a.	F 21
S 22	13 24	6 52	2 37	4 44	0 44	4 35	0 50	22 52	1 7	21 5	0 6	15 38	1 41	6 35	0 35	15 30	1 41	27 52	16 5	2 42	3 20	16 46		n.a.	S 22
S 23	13 4	3 6	1 37	4 4	0 52	4 4	0 47	22 46	1 8	21 6	0 6	15 39	1 41	6 35	0 35	15 31	1 41	27 52	16 5	2 40	3 19	16 45		n.a.	S 23
M24	12 44	0s51	0 31	3 24	1 0	3 33	0 45	22 39	1 8	21 7	0 5	15 40	1 41	6 34	0 35	15 31	1 41	27 53	16 5	2 40	3 17	16 44		n.a.	M24
T 25	12 23	4 49	0n37	2 44	1 8	3 1	0 43	22 33	1 8	21 7	0 5	15 41	1 41	6 34	0 35	15 31	1 41	27 53	16 5	2 40	3 16	16 43		n.a.	T 25
W26	12 3	8 38	1 45	2 5	1 16	2 29	0 40	22 27	1 9	21 8	0 5	15 42	1 40	6 33	0 35	15 31	1 41	27 54	16 5	2 40	3 15	16 42		n.a.	W26
T 27	11 42	12 6	2 49	1 26	1 24	1 57	0 38	22 20	1 9	21 9	0 5	15 43	1 40	6 32	0 35	15 32	1 41	27 54	16 5	2 41	3 14	16 41		n.a.	T 27
F 28	11 21	15 2	3 45	0 48	1 32	1 25	0 36	22 13	1 10	21 10	0 5	15 44	1 40	6 32	0 35	15 32	1 41	27 55	16 5	2 41	3 12	16 40		n.a.	F 28
S 29	11 0	17 12	4 30	0 10	1 39	0 54	0 33	22 6	1 10	21 11	0 5	15 45	1 40	6 31	0 35	15 32	1 41	27 55	16 5	2 41	3 11	16 39		n.a.	S 29
S 30	10 38	18 23	5 0	0s27	1 47	0 22	0 31	21 59	1 11	21 12	0 4	15 46	1 40	6 31	0 35	15 33	1 40	27 56	16 5	2 41	3 10	16 38		n.a.	S 30
M31	10n17	18s25	5n12	1s 3	1s55	0s10	0n28	21n52	1n11	21s13	0n 4	15s47	1n39	6n30	0s35	15s33	1n40	27s56	16s 5	2s40	3s 9	16n37		n.a.	M31

Julian Day Number = 1661734.5, Delta T = 03h25m21s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'25, Lahiri = - 6°12'25 Julian Calendar 1 Aug. 164 BCE == Greg. Calendar 29 July 164 BCE

The year -163 astronomical counting style corresponds to year 164 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 164 BCE
geocentric

SEPTEMBER 164 BCE (-163) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 26 39	4♍38'53	19♉33	29♍28	2♎43	29♋ 4	4♐39	18♏ 0	17°R44	17♏11	26°R12	6°R34	7♎47	24♋32	n.a.	T 1
W 2	22 30 36	5°38'00	4♒27	0♎38	3°56	29°41	4°44	18° 4	17♈42	17°12	26♒11	6♎29	7°44	24°38	n.a.	W 2
T 3	22 34 32	6°37'08	19°25	1°46	5°10	0♌18	4°49	18° 7	17°41	17°13	26°10	6°25	7°40	24°45	n.a.	T 3
F 4	22 38 29	7°36'19	4♓18	2°52	6°24	0°55	4°55	18°11	17°39	17°14	26° 8	6°22	7°37	24°52	n.a.	F 4
S 5	22 42 25	8°35'32	18°59	3°56	7°37	1°33	5° 1	18°15	17°37	17°15	26° 7	6°19	7°34	24°59	n.a.	S 5
S 6	22 46 22	9°34'47	3♈20	4°58	8°51	2°10	5° 7	18°19	17°35	17°16	26° 6	6°D18	7°31	25° 5	n.a.	S 6
M 7	22 50 19	10°34'05	17°17	5°57	10° 4	2°47	5°13	18°23	17°34	17°17	26° 5	6°19	7°28	25°12	n.a.	M 7
T 8	22 54 15	11°33'25	0♉48	6°53	11°18	3°24	5°19	18°27	17°32	17°18	26° 4	6°20	7°25	25°19	n.a.	T 8
W 9	22 58 12	12°32'47	13°54	7°46	12°31	4° 1	5°26	18°31	17°30	17°20	26° 3	6°21	7°21	25°25	n.a.	W 9
T 10	23 2 8	13°32'12	26°37	8°36	13°44	4°38	5°32	18°35	17°28	17°21	26° 1	6°23	7°18	25°32	n.a.	T 10
F 11	23 6 5	14°31'39	9♊ 0	9°22	14°58	5°15	5°39	18°39	17°26	17°22	26° 0	6°24	7°15	25°39	n.a.	F 11
S 12	23 10 1	15°31'08	21° 9	10° 5	16°11	5°53	5°46	18°43	17°24	17°23	25°59	6°R24	7°12	25°46	n.a.	S 12
S 13	23 13 58	16°30'40	3♋ 8	10°43	17°25	6°30	5°53	18°48	17°22	17°25	25°58	6°23	7° 9	25°52	n.a.	S 13
M14	23 17 54	17°30'15	15° 1	11°16	18°38	7° 7	6° 0	18°52	17°20	17°26	25°57	6°21	7° 6	25°59	n.a.	M14
T 15	23 21 51	18°29'51	26°52	11°44	19°51	7°44	6° 7	18°56	17°18	17°27	25°56	6°19	7° 2	26° 6	n.a.	T 15
W16	23 25 47	19°29'30	8♌46	12° 6	21° 5	8°21	6°15	19° 1	17°16	17°29	25°55	6°16	6°59	26°12	n.a.	W16
T 17	23 29 44	20°29'12	20°46	12°22	22°18	8°57	6°22	19° 6	17°14	17°30	25°54	6°13	6°56	26°19	n.a.	T 17
F 18	23 33 41	21°28'55	2♍53	12°31	23°31	9°34	6°30	19°10	17°12	17°31	25°52	6°11	6°53	26°26	n.a.	F 18
S 19	23 37 37	22°28'41	15°10	12°R33	24°45	10°11	6°38	19°15	17° 9	17°33	25°51	6° 9	6°50	26°33	n.a.	S 19
S 20	23 41 34	23°28'28	27°39	12°27	25°58	10°48	6°46	19°20	17° 7	17°34	25°50	6° 9	6°46	26°39	n.a.	S 20
M21	23 45 30	24°28'18	10♎20	12°13	27°11	11°25	6°54	19°25	17° 5	17°36	25°49	6°D 8	6°43	26°46	n.a.	M21
T 22	23 49 27	25°28'10	23°13	11°50	28°24	12° 2	7° 3	19°30	17° 3	17°37	25°48	6° 9	6°40	26°53	n.a.	T 22
W23	23 53 23	26°28'04	6♏20	11°19	29°38	12°38	7°11	19°35	17° 0	17°39	25°47	6°10	6°37	26°59	n.a.	W23
T 24	23 57 20	27°27'59	19°40	10°38	0♏51	13°15	7°20	19°40	16°58	17°41	25°46	6°11	6°34	27° 6	n.a.	T 24
F 25	0 1 16	28°27'57	3♐13	9°49	2° 4	13°52	7°28	19°45	16°56	17°42	25°45	6°11	6°31	27°13	n.a.	F 25
S 26	0 5 13	29°27'56	17° 0	8°51	3°17	14°28	7°37	19°50	16°53	17°44	25°44	6°12	6°27	27°20	n.a.	S 26
S 27	0 9 10	0♎27'57	1♑ 0	7°46	4°30	15° 5	7°46	19°56	16°51	17°46	25°43	6°R12	6°24	27°26	n.a.	S 27
M28	0 13 6	1°28'00	15°11	6°35	5°43	15°42	7°55	20° 1	16°49	17°47	25°42	6°12	6°21	27°33	n.a.	M28
T 29	0 17 3	2°28'04	29°33	5°20	6°56	16°18	8° 5	20° 7	16°46	17°49	25°41	6°11	6°18	27°40	n.a.	T 29
W30	0 20 59	3♎28'10	14♒ 0	4♎ 3	8♏ 9	16♌55	8♐14	20♏12	16♈44	17♏51	25♒40	6♎11	6♎15	27♋46	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n55	17s15	5n 4	1s39	2s 2	0s42	0n25	21n45	1n12	21s14	0n 4	15s48	1n39	6n29	0s35	15s33	1n40	27s56	16s 5	2s38	3s 7	16n37		n.a.
W 2	9 33	14 54	4 36	2 14	2 9	1 14	0 23	21 37	1 12	21 16	0 4	15 50	1 39	6 29	0 36	15 34	1 40	27 57	16 5	2 36	3 6	16 36		n.a.
T 3	9 11	11 33	3 49	2 48	2 16	1 46	0 20	21 30	1 12	21 17	0 4	15 51	1 39	6 28	0 36	15 34	1 40	27 57	16 5	2 35	3 5	16 35		n.a.
F 4	8 49	7 28	2 46	3 21	2 23	2 18	0 17	21 22	1 13	21 18	0 4	15 52	1 38	6 27	0 36	15 34	1 40	27 58	16 5	2 33	3 3	16 34		n.a.
S 5	8 26	2 58	1 34	3 53	2 30	2 50	0 14	21 14	1 13	21 19	0 4	15 53	1 38	6 27	0 36	15 35	1 40	27 58	16 5	2 32	3 2	16 33		n.a.
S 6	8 4	1n35	0 16	4 23	2 37	3 22	0 12	21 6	1 14	21 20	0 4	15 54	1 38	6 26	0 36	15 35	1 40	27 58	16 4	2 32	3 1	16 32		n.a.
M 7	7 41	5 56	1s 0	4 53	2 43	3 54	0 9	20 58	1 14	21 22	0 3	15 56	1 38	6 25	0 36	15 35	1 40	27 59	16 4	2 32	3 0	16 31		n.a.
T 8	7 19	9 51	2 11	5 21	2 49	4 26	0 6	20 49	1 15	21 23	0 3	15 57	1 38	6 25	0 36	15 36	1 40	27 59	16 4	2 32	2 58	16 30		n.a.
W 9	6 56	13 8	3 12	5 47	2 55	4 57	0 3	20 41	1 15	21 24	0 3	15 58	1 37	6 24	0 36	15 36	1 40	27 59	16 4	2 33	2 57	16 29		n.a.
T 10	6 33	15 41	4 3	6 12	3 0	5 29	0 0	20 32	1 15	21 25	0 3	16 0	1 37	6 23	0 36	15 36	1 40	28 0	16 4	2 34	2 56	16 28		n.a.
F 11	6 10	17 26	4 40	6 35	3 5	6 0	0s 3	20 24	1 16	21 27	0 3	16 1	1 37	6 22	0 36	15 37	1 40	28 0	16 4	2 34	2 55	16 27		n.a.
S 12	5 46	18 21	5 4	6 55	3 9	6 32	0 6	20 15	1 16	21 28	0 3	16 2	1 37	6 22	0 36	15 37	1 40	28 0	16 4	2 34	2 53	16 26		n.a.
S 13	5 23	18 26	5 15	7 14	3 12	7 3	0 9	20 6	1 17	21 29	0 3	16 4	1 37	6 21	0 36	15 38	1 40	28 1	16 4	2 34	2 52	16 25		n.a.
M14	4 59	17 42	5 12	7 30	3 15	7 34	0 12	19 57	1 17	21 31	0 2	16 5	1 36	6 20	0 36	15 38	1 40	28 1	16 4	2 33	2 51	16 24		n.a.
T 15	4 36	16 12	4 55	7 43	3 18	8 5	0 15	19 48	1 17	21 32	0 2	16 7	1 36	6 19	0 36	15 39	1 40	28 1	16 4	2 32	2 49	16 24		n.a.
W16	4 12	13 59	4 26	7 53	3 19	8 36	0 18	19 38	1 18	21 34	0 2	16 8	1 36	6 18	0 36	15 39	1 40	28 1	16 3	2 31	2 48	16 23		n.a.
T 17	3 49	11 11	3 45	8 0	3 19	9 6	0 21	19 29	1 18	21 35	0 2	16 9	1 36	6 18	0 36	15 39	1 39	28 2	16 3	2 30	2 47	16 22		n.a.
F 18	3 25	7 52	2 54	8 3	3 19	9 36	0 24	19 19	1 19	21 37	0 2	16 11	1 36	6 17	0 36	15 40	1 39	28 2	16 3	2 29	2 46	16 21		n.a.
S 19	3 1	4 10	1 53	8 2	3 17	10 7	0 27	19 10	1 19	21 38	0 2	16 12	1 36	6 16	0 36	15 40	1 39	28 2	16 3	2 28	2 44	16 20		n.a.
S 20	2 37	0 14	0 47	7 57	3 14	10 36	0 30	19 0	1 20	21 40	0 2	16 14	1 35	6 15	0 36	15 41	1 39	28 3	16 3	2 28	2 43	16 19		n.a.
M21	2 13	3s47	0n23	7 47	3 9	11 6	0 33	18 50	1 20	21 41	0 2	16 15	1 35	6 14	0 36	15 41	1 39	28 3	16 3	2 28	2 42	16 18		n.a.
T 22	1 49	7 41	1 33	7 32	3 3	11 36	0 36	18 40	1 20	21 43	0 1	16 17	1 35	6 13	0 36	15 42	1 39	28 3	16 3	2 28	2 41	16 17		n.a.
W23	1 25	11 16	2 40	7 12	2 55	12 5	0 39	18 30	1 21	21 44	0 1	16 18	1 35	6 12	0 36	15 42	1 39	28 3	16 2	2 28	2 39	16 16		n.a.
T 24	1 1	14 21	3 39	6 47	2 46	12 34	0 42	18 20	1 21	21 46	0 1	16 20	1 35	6 11	0 36	15 43	1 39	28 3	16 2	2 29	2 38	16 15		n.a.
F 25	0 37	16 41	4 26	6 17	2 34	13 2	0 45	18 9	1 22	21 47	0 1	16 22	1 35	6 11	0 36	15 43	1 39	28 4	16 2	2 29	2 37	16 14		n.a.
S 26	0 13	18 6	5 0	5 42	2 21	13 30	0 48	17 59	1 22	21 49	0 1	16 23	1 34	6 10	0 36	15 44	1 39	28 4	16 2	2 29	2 36	16 13		n.a.
S 27	0s11	18 27	5 16	5 2	2 5	13 58	0 51	17 48	1 22	21 51	0 1	16 25	1 34	6 9	0 36	15 44	1 39	28 4	16 2	2 29	2 34	16 12		n.a.
M28	0 35	17 39	5 13	4 18	1 48	14 26	0 54	17 38	1 23	21 52	0 1	16 26	1 34	6 8	0 36	15 45	1 39	28 4	16 1	2 29	2 33	16 11		n.a.
T 29	1 0	15 44	4 51	3 31	1 30	14 53	0 57	17 27	1 23	21 54	0 1	16 28	1 34	6 7	0 36	15 45	1 39	28 4	16 1	2 29	2 32	16 10		n.a.
W30	1s24	12s49	4n11	2s42	1s10	15s20	1s 0	17n16	1n24	21s55	0n 0	16s30	1n34	6n 6	0s36	15s46	1n39	28s 4	16s 1	2s29	2s30	16n 9		n.a.

Julian Day Number = 1661765.5, Delta T = 03h25m20s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'21, Lahiri = - 6°12'20 Julian Calendar 1 Sept. 164 BCE == Greg. Calendar 29 Aug. 164 BCE

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ASTRODIENST EPHEMERIS for the year 164 BCE
geocentric

OCTOBER 164 BCE (-163) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 24 56	4♎28'18	28♒30	2°R46	9♏22	17♌31	8♐23	20♏18	16°R42	17♏52	25°R40	6°R11	6♎11	27♋53	n.a.	T 1
F 2	0 28 52	5°28'27	12♓58	1♎31	10°35	18° 8	8°33	20°23	16♈39	17°54	25♒39	6♎11	6° 8	28° 0	n.a.	F 2
S 3	0 32 49	6°28'39	27°16	0°22	11°48	18°44	8°43	20°29	16°37	17°56	25°38	6°D11	6° 5	28° 7	n.a.	S 3
S 4	0 36 45	7°28'52	11♈21	29♍19	13° 1	19°21	8°53	20°34	16°34	17°58	25°37	6°R11	6° 2	28°13	n.a.	S 4
M 5	0 40 42	8°29'06	25° 9	28°26	14°14	19°57	9° 3	20°40	16°32	18° 0	25°36	6°11	5°59	28°20	n.a.	M 5
T 6	0 44 38	9°29'23	8♉36	27°43	15°27	20°33	9°13	20°46	16°29	18° 1	25°35	6°10	5°56	28°27	n.a.	T 6
W 7	0 48 35	10°29'42	21°42	27°11	16°39	21°10	9°23	20°52	16°27	18° 3	25°34	6°10	5°52	28°33	n.a.	W 7
T 8	0 52 32	11°30'03	4♊28	26°50	17°52	21°46	9°33	20°58	16°24	18° 5	25°34	6° 9	5°49	28°40	n.a.	T 8
F 9	0 56 28	12°30'26	16°55	26°D41	19° 5	22°22	9°43	21° 4	16°22	18° 7	25°33	6° 9	5°46	28°47	n.a.	F 9
S 10	1 0 25	13°30'51	29° 6	26°44	20°18	22°58	9°54	21°10	16°19	18° 9	25°32	6° 8	5°43	28°54	n.a.	S 10
S 11	1 4 21	14°31'19	11♋ 6	26°57	21°30	23°34	10° 4	21°16	16°17	18°11	25°31	6°D 8	5°40	29° 0	n.a.	S 11
M12	1 8 18	15°31'48	23° 0	27°21	22°43	24°11	10°15	21°22	16°14	18°13	25°31	6° 8	5°37	29° 7	n.a.	M12
T 13	1 12 14	16°32'19	4♌52	27°54	23°55	24°47	10°26	21°28	16°12	18°15	25°30	6° 8	5°33	29°14	n.a.	T 13
W14	1 16 11	17°32'52	16°46	28°35	25° 8	25°23	10°37	21°34	16° 9	18°17	25°29	6° 9	5°30	29°20	n.a.	W14
T 15	1 20 7	18°33'27	28°48	29°23	26°20	25°59	10°48	21°40	16° 7	18°19	25°29	6°11	5°27	29°27	n.a.	T 15
F 16	1 24 4	19°34'03	11♍ 1	0♎19	27°33	26°35	10°59	21°47	16° 4	18°21	25°28	6°12	5°24	29°34	n.a.	F 16
S 17	1 28 1	20°34'42	23°28	1°20	28°45	27°11	11°10	21°53	16° 2	18°23	25°27	6°13	5°21	29°41	n.a.	S 17
S 18	1 31 57	21°35'22	6♎11	2°26	29°58	27°47	11°21	21°59	15°59	18°25	25°27	6°R13	5°17	29°47	n.a.	S 18
M19	1 35 54	22°36'04	19°11	3°36	1♐10	28°23	11°33	22° 6	15°57	18°27	25°26	6°13	5°14	29°54	n.a.	M19
T 20	1 39 50	23°36'47	2♏29	4°50	2°22	28°58	11°44	22°12	15°54	18°29	25°26	6°11	5°11	0♌ 1	n.a.	T 20
W21	1 43 47	24°37'32	16° 2	6° 7	3°35	29°34	11°56	22°19	15°52	18°31	25°25	6° 9	5° 8	0° 7	n.a.	W21
T 22	1 47 43	25°38'18	29°48	7°27	4°47	0♏10	12° 7	22°25	15°50	18°34	25°25	6° 6	5° 5	0°14	n.a.	T 22
F 23	1 51 40	26°39'06	13♐46	8°50	5°59	0°46	12°19	22°32	15°47	18°36	25°24	6° 3	5° 2	0°21	n.a.	F 23
S 24	1 55 36	27°39'55	27°50	10°14	7°11	1°21	12°31	22°38	15°45	18°38	25°24	6° 1	4°58	0°28	n.a.	S 24
S 25	1 59 33	28°40'45	11♑59	11°40	8°23	1°57	12°43	22°45	15°42	18°40	25°23	5°59	4°55	0°34	n.a.	S 25
M26	2 3 30	29°41'36	26°10	13° 7	9°35	2°32	12°55	22°52	15°40	18°42	25°23	5°D58	4°52	0°41	n.a.	M26
T 27	2 7 26	0♏42'28	10♒20	14°36	10°47	3° 8	13° 7	22°58	15°37	18°44	25°22	5°58	4°49	0°48	n.a.	T 27
W28	2 11 23	1°43'21	24°28	16° 5	11°59	3°43	13°19	23° 5	15°35	18°46	25°22	5°59	4°46	0°54	n.a.	W28
T 29	2 15 19	2°44'15	8♓32	17°35	13°11	4°19	13°31	23°12	15°33	18°49	25°22	6° 1	4°43	1° 1	n.a.	T 29
F 30	2 19 16	3°45'09	22°29	19° 6	14°22	4°54	13°44	23°18	15°30	18°51	25°21	6° 2	4°39	1° 8	n.a.	F 30
S 31	2 23 12	4♏46'05	6♈19	20♎37	15♐34	5♍29	13♐56	23♏25	15♈28	18♏53	25♒21	6°R 3	4♎36	1♌14	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	1s48	9s 6	3n14	1s53	0s50	15s47	1s 3	17n 6	1n24	21s57	0n 0	16s31	1n34	6n 5	0s36	15s46	1n39	28s 5	16s 1	2s29	2s29	16n 8		n.a.
F 2	2 12	4 50	2 5	1 4	0 29	16 13	1 6	16 55	1 25	21 59	0 0	16 33	1 33	6 4	0 36	15 47	1 39	28 5	16 1	2 29	2 28	16 7		n.a.
S 3	2 36	0 21	0 49	0 17	0 9	16 39	1 9	16 44	1 25	22 0	0 0	16 35	1 33	6 3	0 36	15 47	1 39	28 5	16 0	2 29	2 27	16 6		n.a.
S 4	3 0	4n 6	0s29	0n27	0n11	17 4	1 12	16 32	1 25	22 2	0s 0	16 36	1 33	6 2	0 36	15 48	1 39	28 5	16 0	2 29	2 25	16 5		n.a.
M 5	3 24	8 14	1 43	1 6	0 30	17 29	1 15	16 21	1 26	22 4	0 0	16 38	1 33	6 1	0 36	15 49	1 39	28 5	16 0	2 29	2 24	16 4		n.a.
T 6	3 48	11 51	2 50	1 39	0 48	17 54	1 18	16 10	1 26	22 5	0 0	16 40	1 33	6 0	0 36	15 49	1 39	28 5	16 0	2 29	2 23	16 3		n.a.
W 7	4 12	14 45	3 47	2 7	1 5	18 18	1 21	15 58	1 27	22 7	0 0	16 41	1 33	5 59	0 36	15 50	1 39	28 5	15 59	2 29	2 22	16 2		n.a.
T 8	4 36	16 51	4 30	2 29	1 19	18 41	1 24	15 47	1 27	22 9	0 0	16 43	1 32	5 58	0 36	15 50	1 38	28 5	15 59	2 28	2 20	16 1		n.a.
F 9	5 0	18 6	4 59	2 44	1 32	19 4	1 26	15 35	1 27	22 10	0 1	16 45	1 32	5 57	0 36	15 51	1 38	28 5	15 59	2 28	2 19	16 0		n.a.
S 10	5 24	18 28	5 15	2 54	1 43	19 27	1 29	15 24	1 28	22 12	0 1	16 46	1 32	5 56	0 36	15 51	1 38	28 5	15 59	2 28	2 18	15 59		n.a.
S 11	5 47	18 0	5 16	2 57	1 53	19 49	1 32	15 12	1 28	22 14	0 1	16 48	1 32	5 55	0 36	15 52	1 38	28 5	15 58	2 28	2 16	15 58		n.a.
M12	6 11	16 44	5 3	2 54	2 1	20 11	1 34	15 0	1 29	22 15	0 1	16 50	1 32	5 55	0 36	15 53	1 38	28 5	15 58	2 28	2 15	15 57		n.a.
T 13	6 34	14 46	4 38	2 47	2 7	20 32	1 37	14 48	1 29	22 17	0 1	16 52	1 32	5 54	0 36	15 53	1 38	28 5	15 58	2 28	2 14	15 56		n.a.
W14	6 58	12 10	4 1	2 35	2 11	20 53	1 40	14 37	1 29	22 19	0 1	16 53	1 32	5 53	0 36	15 54	1 38	28 5	15 58	2 28	2 13	15 55		n.a.
T 15	7 21	9 1	3 13	2 18	2 15	21 13	1 42	14 25	1 30	22 20	0 1	16 55	1 31	5 52	0 36	15 54	1 38	28 5	15 57	2 29	2 11	15 54		n.a.
F 16	7 44	5 26	2 15	1 58	2 17	21 32	1 45	14 13	1 30	22 22	0 1	16 57	1 31	5 51	0 36	15 55	1 38	28 5	15 57	2 29	2 10	15 53		n.a.
S 17	8 8	1 33	1 10	1 34	2 18	21 51	1 47	14 0	1 31	22 24	0 2	16 59	1 31	5 50	0 36	15 56	1 38	28 5	15 57	2 30	2 9	15 52		n.a.
S 18	8 31	2s29	0 0	1 7	2 17	22 9	1 49	13 48	1 31	22 26	0 2	17 0	1 31	5 49	0 36	15 56	1 38	28 5	15 56	2 30	2 8	15 51		n.a.
M19	8 53	6 30	1n11	0 38	2 17	22 27	1 52	13 36	1 31	22 27	0 2	17 2	1 31	5 48	0 36	15 57	1 38	28 5	15 56	2 30	2 6	15 50		n.a.
T 20	9 16	10 17	2 20	0 7	2 15	22 44	1 54	13 24	1 32	22 29	0 2	17 4	1 31	5 47	0 36	15 57	1 38	28 5	15 56	2 29	2 5	15 49		n.a.
W21	9 39	13 36	3 22	0s26	2 12	23 0	1 56	13 11	1 32	22 31	0 2	17 6	1 31	5 46	0 36	15 58	1 38	28 5	15 56	2 28	2 4	15 48		n.a.
T 22	10 1	16 12	4 14	1 1	2 9	23 16	1 58	12 59	1 33	22 32	0 2	17 8	1 31	5 45	0 36	15 59	1 38	28 5	15 55	2 27	2 2	15 47		n.a.
F 23	10 24	17 54	4 51	1 37	2 5	23 31	2 0	12 47	1 33	22 34	0 2	17 9	1 30	5 44	0 36	15 59	1 38	28 5	15 55	2 26	2 1	15 46		n.a.
S 24	10 46	18 30	5 11	2 15	2 1	23 46	2 2	12 34	1 34	22 36	0 2	17 11	1 30	5 43	0 36	16 0	1 38	28 5	15 55	2 25	2 0	15 45		n.a.
S 25	11 8	17 58	5 13	2 53	1 57	24 0	2 4	12 22	1 34	22 37	0 2	17 13	1 30	5 42	0 36	16 0	1 38	28 4	15 54	2 24	1 59	15 44		n.a.
M26	11 29	16 19	4 55	3 32	1 52	24 13	2 6	12 9	1 34	22 39	0 2	17 15	1 30	5 41	0 36	16 1	1 38	28 4	15 54	2 24	1 57	15 43		n.a.
T 27	11 51	13 41	4 20	4 11	1 46	24 25	2 8	11 56	1 35	22 40	0 3	17 16	1 30	5 40	0 36	16 2	1 38	28 4	15 54	2 24	1 56	15 41		n.a.
W28	12 12	10 14	3 29	4 51	1 41	24 37	2 9	11 44	1 35	22 42	0 3	17 18	1 30	5 39	0 36	16 2	1 38	28 4	15 53	2 24	1 55	15 40		n.a.
T 29	12 34	6 13	2 25	5 31	1 35	24 48	2 11	11 31	1 36	22 44	0 3	17 20	1 30	5 39	0 36	16 3	1 38	28 4	15 53	2 25	1 54	15 39		n.a.
F 30	12 55	1 53	1 14	6 12	1 29	24 59	2 13	11 18	1 36	22 45	0 3	17 22	1 30	5 38	0 35	16 4	1 38	28 4	15 53	2 26	1 52	15 38		n.a.
S 31	13s15	2n31	0s 1	6s52	1n22	25s 8	2s14	11n 6	1n36	22s47	0s 3	17s24	1n30	5n37	0s35	16s 4	1n38	28s 4	15s52	2s26	1s51	15n37		n.a.

Julian Day Number = 1661795.5, Delta T = 03h25m20s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'17, Lahiri = - 6°12'16 Julian Calendar 1 Oct. 164 BCE == Greg. Calendar 28 Sept. 164 BCE

The year -163 astronomical counting style corresponds to year 164 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 164 BCE
geocentric

NOVEMBER 164 BCE (-163) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 27 9	5♏47'02	19♈59	22♎ 8	16♐46	6♍ 5	14♐ 8	23♏32	15°R26	18♏55	25°R21	6°R 2	4♎33	1♌21	n.a.	S 1
M 2	2 31 5	6°48'00	3♉26	23°40	17°57	6°40	14°21	23°39	15♈23	18°57	25♒20	6♎ 0	4°30	1°28	n.a.	M 2
T 3	2 35 2	7°48'59	16°39	25°13	19° 8	7°15	14°33	23°46	15°21	19° 0	25°20	5°56	4°27	1°35	n.a.	T 3
W 4	2 38 59	8°49'59	29°36	26°45	20°20	7°50	14°46	23°52	15°19	19° 2	25°20	5°50	4°23	1°41	n.a.	W 4
T 5	2 42 55	9°51'00	12♊17	28°18	21°31	8°25	14°59	23°59	15°17	19° 4	25°20	5°44	4°20	1°48	n.a.	T 5
F 6	2 46 52	10°52'03	24°42	29°51	22°42	9° 0	15°11	24° 6	15°15	19° 6	25°20	5°38	4°17	1°55	n.a.	F 6
S 7	2 50 48	11°53'06	6♋53	1♏24	23°53	9°35	15°24	24°13	15°12	19° 9	25°19	5°32	4°14	2° 1	n.a.	S 7
S 8	2 54 45	12°54'11	18°54	2°57	25° 4	10°10	15°37	24°20	15°10	19°11	25°19	5°28	4°11	2° 8	n.a.	S 8
M 9	2 58 41	13°55'17	0♌48	4°30	26°15	10°45	15°50	24°27	15° 8	19°13	25°19	5°25	4° 8	2°15	n.a.	M 9
T 10	3 2 38	14°56'24	12°38	6° 3	27°26	11°20	16° 3	24°34	15° 6	19°15	25°19	5°D24	4° 4	2°22	n.a.	T 10
W11	3 6 34	15°57'32	24°31	7°37	28°37	11°55	16°16	24°41	15° 4	19°18	25°19	5°24	4° 1	2°28	n.a.	W11
T 12	3 10 31	16°58'41	6♍32	9°10	29°48	12°29	16°29	24°48	15° 2	19°20	25°19	5°26	3°58	2°35	n.a.	T 12
F 13	3 14 28	17°59'51	18°45	10°44	0♑58	13° 4	16°42	24°55	15° 0	19°22	25°D19	5°27	3°55	2°42	n.a.	F 13
S 14	3 18 24	19° 1'02	1♎15	12°17	2° 9	13°39	16°56	25° 2	14°58	19°25	25°19	5°R28	3°52	2°48	n.a.	S 14
S 15	3 22 21	20° 2'14	14° 6	13°51	3°19	14°13	17° 9	25° 9	14°56	19°27	25°19	5°28	3°48	2°55	n.a.	S 15
M16	3 26 17	21° 3'26	27°19	15°25	4°29	14°48	17°22	25°16	14°54	19°29	25°19	5°26	3°45	3° 2	n.a.	M16
T 17	3 30 14	22° 4'40	10♏56	16°59	5°40	15°22	17°35	25°23	14°52	19°31	25°19	5°21	3°42	3° 9	n.a.	T 17
W18	3 34 10	23° 5'54	24°55	18°33	6°50	15°56	17°49	25°30	14°51	19°34	25°19	5°15	3°39	3°15	n.a.	W18
T 19	3 38 7	24° 7'08	9♐11	20° 7	8° 0	16°31	18° 2	25°37	14°49	19°36	25°20	5° 7	3°36	3°22	n.a.	T 19
F 20	3 42 3	25° 8'23	23°38	21°41	9° 9	17° 5	18°16	25°44	14°47	19°38	25°20	4°58	3°33	3°29	n.a.	F 20
S 21	3 46 0	26° 9'38	8♑11	23°16	10°19	17°39	18°29	25°51	14°45	19°40	25°20	4°50	3°29	3°35	n.a.	S 21
S 22	3 49 57	27°10'54	22°42	24°50	11°29	18°13	18°43	25°58	14°44	19°43	25°20	4°44	3°26	3°42	n.a.	S 22
M23	3 53 53	28°12'09	7♒ 6	26°25	12°38	18°47	18°57	26° 5	14°42	19°45	25°20	4°40	3°23	3°49	n.a.	M23
T 24	3 57 50	29°13'25	21°20	28° 0	13°47	19°21	19°10	26°12	14°41	19°47	25°21	4°38	3°20	3°55	n.a.	T 24
W25	4 1 46	0♐14'40	5♓21	29°35	14°57	19°54	19°24	26°19	14°39	19°49	25°21	4°D37	3°17	4° 2	n.a.	W25
T 26	4 5 43	1°15'55	19°10	1♐11	16° 6	20°28	19°38	26°26	14°37	19°52	25°21	4°38	3°14	4° 9	n.a.	T 26
F 27	4 9 39	2°17'10	2♈46	2°47	17°14	21° 2	19°51	26°33	14°36	19°54	25°22	4°R39	3°10	4°16	n.a.	F 27
S 28	4 13 36	3°18'25	16°11	4°23	18°23	21°35	20° 5	26°40	14°35	19°56	25°22	4°38	3° 7	4°22	n.a.	S 28
S 29	4 17 32	4°19'40	29°24	5°59	19°31	22° 9	20°19	26°47	14°33	19°58	25°22	4°35	3° 4	4°29	n.a.	S 29
M30	4 21 29	5♐20'55	12♉27	7♐36	20♑40	22♍42	20♐33	26♏54	14♈32	20♏ 0	25♒23	4♎30	3♎ 1	4♌36	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s36	6n44	1s16	7s33	1n16	25s17	2s15	10n53	1n37	22s49	0s 3	17s25	1n30	5n36	0s35	16s 5	1n38	28s 3	15s52	2s25	1s50	15n36		n.a.
M 2	13 56	10 32	2 24	8 13	1 9	25 26	2 17	10 40	1 37	22 50	0 3	17 27	1 29	5 35	0 35	16 5	1 38	28 3	15 52	2 24	1 48	15 35		n.a.
T 3	14 16	13 45	3 24	8 54	1 3	25 33	2 18	10 27	1 38	22 52	0 3	17 29	1 29	5 34	0 35	16 6	1 38	28 3	15 52	2 23	1 47	15 34		n.a.
W 4	14 36	16 12	4 11	9 34	0 56	25 40	2 19	10 14	1 38	22 53	0 3	17 31	1 29	5 33	0 35	16 7	1 38	28 3	15 51	2 21	1 46	15 33		n.a.
T 5	14 56	17 48	4 46	10 14	0 49	25 46	2 20	10 1	1 38	22 55	0 4	17 33	1 29	5 32	0 35	16 7	1 38	28 2	15 51	2 18	1 45	15 32		n.a.
F 6	15 15	18 31	5 5	10 53	0 42	25 51	2 21	9 48	1 39	22 56	0 4	17 34	1 29	5 32	0 35	16 8	1 38	28 2	15 51	2 16	1 43	15 31		n.a.
S 7	15 34	18 21	5 11	11 32	0 35	25 56	2 22	9 35	1 39	22 58	0 4	17 36	1 29	5 31	0 35	16 9	1 38	28 2	15 50	2 14	1 42	15 30		n.a.
S 8	15 53	17 22	5 3	12 11	0 29	26 0	2 22	9 22	1 40	22 59	0 4	17 38	1 29	5 30	0 35	16 9	1 38	28 2	15 50	2 12	1 41	15 29		n.a.
M 9	16 12	15 38	4 41	12 50	0 22	26 3	2 23	9 9	1 40	23 1	0 4	17 40	1 29	5 29	0 35	16 10	1 38	28 1	15 49	2 11	1 39	15 28		n.a.
T 10	16 30	13 15	4 8	13 27	0 15	26 5	2 24	8 56	1 40	23 2	0 4	17 42	1 29	5 28	0 35	16 10	1 38	28 1	15 49	2 10	1 38	15 27		n.a.
W11	16 48	10 18	3 24	14 5	0 8	26 6	2 24	8 43	1 41	23 4	0 4	17 43	1 29	5 28	0 35	16 11	1 38	28 1	15 49	2 10	1 37	15 25		n.a.
T 12	17 6	6 53	2 31	14 42	0 1	26 7	2 24	8 30	1 41	23 5	0 4	17 45	1 29	5 27	0 35	16 12	1 38	28 0	15 48	2 11	1 36	15 24		n.a.
F 13	17 23	3 8	1 29	15 18	0s 5	26 7	2 25	8 17	1 41	23 7	0 4	17 47	1 29	5 26	0 35	16 12	1 38	28 0	15 48	2 11	1 34	15 23		n.a.
S 14	17 40	0s51	0 23	15 53	0 12	26 6	2 25	8 4	1 42	23 8	0 4	17 49	1 28	5 25	0 35	16 13	1 38	28 0	15 48	2 12	1 33	15 22		n.a.
S 15	17 57	4 54	0n47	16 28	0 19	26 5	2 25	7 51	1 42	23 10	0 5	17 50	1 28	5 25	0 35	16 14	1 38	27 59	15 47	2 12	1 32	15 21		n.a.
M16	18 14	8 51	1 55	17 2	0 25	26 3	2 25	7 38	1 43	23 11	0 5	17 52	1 28	5 24	0 35	16 14	1 38	27 59	15 47	2 11	1 31	15 20		n.a.
T 17	18 30	12 26	2 59	17 36	0 31	26 0	2 24	7 25	1 43	23 12	0 5	17 54	1 28	5 23	0 35	16 15	1 38	27 59	15 47	2 9	1 29	15 19		n.a.
W18	18 46	15 25	3 54	18 9	0 38	25 56	2 24	7 12	1 43	23 14	0 5	17 56	1 28	5 23	0 35	16 15	1 38	27 58	15 46	2 6	1 28	15 18		n.a.
T 19	19 1	17 32	4 36	18 41	0 44	25 51	2 24	6 58	1 44	23 15	0 5	17 57	1 28	5 22	0 35	16 16	1 38	27 58	15 46	2 3	1 27	15 17		n.a.
F 20	19 16	18 33	5 1	19 12	0 50	25 46	2 23	6 45	1 44	23 16	0 5	17 59	1 28	5 21	0 35	16 17	1 38	27 58	15 46	2 0	1 25	15 16		n.a.
S 21	19 31	18 22	5 6	19 42	0 56	25 40	2 22	6 32	1 45	23 18	0 5	18 1	1 28	5 21	0 35	16 17	1 38	27 57	15 45	1 57	1 24	15 14		n.a.
S 22	19 45	16 59	4 52	20 11	1 2	25 34	2 22	6 19	1 45	23 19	0 5	18 3	1 28	5 20	0 35	16 18	1 38	27 57	15 45	1 54	1 23	15 13		n.a.
M23	19 59	14 32	4 19	20 40	1 7	25 26	2 21	6 6	1 45	23 20	0 5	18 4	1 28	5 19	0 35	16 18	1 38	27 56	15 45	1 52	1 22	15 12		n.a.
T 24	20 13	11 14	3 31	21 7	1 13	25 18	2 20	5 53	1 46	23 21	0 5	18 6	1 28	5 19	0 35	16 19	1 38	27 56	15 44	1 52	1 20	15 11		n.a.
W25	20 26	7 20	2 30	21 33	1 18	25 10	2 19	5 40	1 46	23 23	0 6	18 8	1 28	5 18	0 35	16 20	1 38	27 56	15 44	1 51	1 19	15 10		n.a.
T 26	20 39	3 5	1 22	21 59	1 23	25 0	2 17	5 27	1 47	23 24	0 6	18 9	1 28	5 18	0 35	16 20	1 38	27 55	15 44	1 52	1 18	15 9		n.a.
F 27	20 51	1n16	0 10	22 23	1 28	24 50	2 16	5 14	1 47	23 25	0 6	18 11	1 28	5 17	0 35	16 21	1 38	27 55	15 43	1 52	1 17	15 8		n.a.
S 28	21 3	5 29	1s 1	22 46	1 32	24 39	2 14	5 1	1 47	23 26	0 6	18 13	1 28	5 16	0 35	16 21	1 38	27 54	15 43	1 52	1 15	15 7		n.a.
S 29	21 15	9 23	2 8	23 8	1 37	24 28	2 13	4 48	1 48	23 27	0 6	18 14	1 28	5 16	0 35	16 22	1 38	27 54	15 43	1 51	1 14	15 5		n.a.
M30	21s26	12n47	3s 7	23s29	1s41	24s16	2s11	4n35	1n48	23s28	0s 6	18s16	1n28	5n15	0s35	16s23	1n38	27s53	15s42	1s48	1s13	15n 4		n.a.

Julian Day Number = 1661826.5, Delta T = 03h25m19s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'13, Lahiri = - 6°12'12 Julian Calendar 1 Nov. 164 BCE == Greg. Calendar 29 Oct. 164 BCE

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ASTRODIENST EPHEMERIS for the year 164 BCE
geocentric

DECEMBER 164 BCE (-163) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 25 26	6♐22'10	25♉19	9♐12	21♑48	23♍16	20♐47	27♏ 1	14°R31	20♏ 3	25♒23	4°R21	2♎58	4♌42	n.a.	T 1
W 2	4 29 22	7°23'25	8♊ 0	10°50	22°56	23°49	21° 1	27° 8	14♈29	20° 5	25°24	4♎11	2°54	4°49	n.a.	W 2
T 3	4 33 19	8°24'39	20°29	12°27	24° 4	24°22	21°15	27°15	14°28	20° 7	25°24	3°58	2°51	4°56	n.a.	T 3
F 4	4 37 15	9°25'54	2♋47	14° 5	25°11	24°55	21°28	27°22	14°27	20° 9	25°25	3°46	2°48	5° 2	n.a.	F 4
S 5	4 41 12	10°27'08	14°55	15°43	26°18	25°28	21°42	27°29	14°26	20°11	25°25	3°34	2°45	5° 9	n.a.	S 5
S 6	4 45 8	11°28'23	26°53	17°22	27°26	26° 1	21°56	27°36	14°25	20°14	25°26	3°23	2°42	5°16	n.a.	S 6
M 7	4 49 5	12°29'38	8♌45	19° 1	28°32	26°34	22°10	27°43	14°24	20°16	25°26	3°15	2°39	5°23	n.a.	M 7
T 8	4 53 2	13°30'52	20°34	20°40	29°39	27° 6	22°24	27°49	14°23	20°18	25°27	3°10	2°35	5°29	n.a.	T 8
W 9	4 56 58	14°32'06	2♍25	22°19	0♒46	27°39	22°39	27°56	14°22	20°20	25°28	3° 7	2°32	5°36	n.a.	W 9
T 10	5 0 55	15°33'21	14°22	23°59	1°52	28°12	22°53	28° 3	14°21	20°22	25°28	3°D 7	2°29	5°43	n.a.	T 10
F 11	5 4 51	16°34'35	26°32	25°38	2°58	28°44	23° 7	28°10	14°20	20°24	25°29	3°R 7	2°26	5°49	n.a.	F 11
S 12	5 8 48	17°35'49	8♎59	27°18	4° 3	29°16	23°21	28°17	14°20	20°26	25°30	3° 7	2°23	5°56	n.a.	S 12
S 13	5 12 44	18°37'03	21°48	28°58	5° 9	29°48	23°35	28°23	14°19	20°28	25°30	3° 5	2°20	6° 3	n.a.	S 13
M14	5 16 41	19°38'16	5♏ 4	0♑39	6°14	0♎21	23°49	28°30	14°18	20°30	25°31	3° 2	2°16	6° 9	n.a.	M14
T 15	5 20 37	20°39'30	18°48	2°19	7°19	0°53	24° 3	28°37	14°18	20°32	25°32	2°55	2°13	6°16	n.a.	T 15
W16	5 24 34	21°40'43	3♐ 0	3°58	8°24	1°24	24°17	28°43	14°17	20°34	25°33	2°46	2°10	6°23	n.a.	W16
T 17	5 28 31	22°41'55	17°36	5°38	9°28	1°56	24°31	28°50	14°16	20°36	25°33	2°35	2° 7	6°30	n.a.	T 17
F 18	5 32 27	23°43'07	2♑28	7°17	10°32	2°28	24°45	28°57	14°16	20°38	25°34	2°23	2° 4	6°36	n.a.	F 18
S 19	5 36 24	24°44'19	17°28	8°55	11°36	2°59	25° 0	29° 3	14°16	20°40	25°35	2°11	2° 0	6°43	n.a.	S 19
S 20	5 40 20	25°45'29	2♒26	10°32	12°39	3°31	25°14	29°10	14°15	20°42	25°36	2° 2	1°57	6°50	n.a.	S 20
M21	5 44 17	26°46'38	17°13	12° 8	13°42	4° 2	25°28	29°16	14°15	20°44	25°37	1°55	1°54	6°56	n.a.	M21
T 22	5 48 13	27°47'46	1♓43	13°42	14°45	4°33	25°42	29°23	14°15	20°46	25°38	1°50	1°51	7° 3	n.a.	T 22
W23	5 52 10	28°48'53	15°53	15°15	15°47	5° 4	25°56	29°29	14°14	20°48	25°39	1°49	1°48	7°10	n.a.	W23
T 24	5 56 6	29°49'59	29°42	16°45	16°49	5°35	26°10	29°36	14°14	20°50	25°40	1°48	1°45	7°16	n.a.	T 24
F 25	6 0 3	0♑51'04	13♈11	18°12	17°51	6° 6	26°24	29°42	14°14	20°52	25°41	1°48	1°41	7°23	n.a.	F 25
S 26	6 4 0	1°52'07	26°23	19°35	18°52	6°36	26°38	29°48	14°D14	20°54	25°42	1°47	1°38	7°30	n.a.	S 26
S 27	6 7 56	2°53'09	9♉19	20°55	19°53	7° 7	26°53	29°55	14°14	20°55	25°43	1°43	1°35	7°37	n.a.	S 27
M28	6 11 53	3°54'10	22° 3	22°10	20°53	7°37	27° 7	0♐ 1	14°14	20°57	25°44	1°36	1°32	7°43	n.a.	M28
T 29	6 15 49	4°55'10	4♊36	23°19	21°53	8° 7	27°21	0° 7	14°14	20°59	25°45	1°26	1°29	7°50	n.a.	T 29
W30	6 19 46	5°56'08	17° 0	24°22	22°52	8°37	27°35	0°13	14°15	21° 1	25°46	1°14	1°26	7°57	n.a.	W30
T 31	6 23 42	6♑57'06	29♊15	25♑18	23♒51	9♎ 7	27♐49	0♐19	14♈15	21♏ 2	25♒47	1♎ 0	1♎22	8♌ 3	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	21s37	15n30	3s56	23s48	1s45	24s 3	2s 9	4n22	1n48	23s29	0s 6	18s18	1n28	5n15	0s35	16s23	1n38	27s53	15s42	1s45	1s11	15n 3			n.a.
W 2	21 48	17 25	4 32	24 7	1 48	23 49	2 7	4 9	1 49	23 31	0 6	18 19	1 28	5 15	0 35	16 24	1 38	27 52	15 42	1 41	1 10	15 2			n.a.
T 3	21 58	18 29	4 54	24 23	1 52	23 35	2 5	3 56	1 49	23 32	0 6	18 21	1 27	5 14	0 35	16 24	1 38	27 52	15 41	1 36	1 9	15 1			n.a.
F 4	22 7	18 39	5 2	24 39	1 55	23 21	2 2	3 43	1 50	23 33	0 7	18 23	1 27	5 14	0 35	16 25	1 38	27 51	15 41	1 31	1 8	15 0			n.a.
S 5	22 16	17 57	4 57	24 53	1 57	23 6	2 0	3 30	1 50	23 34	0 7	18 24	1 27	5 13	0 35	16 26	1 38	27 51	15 41	1 26	1 6	14 59			n.a.
S 6	22 25	16 29	4 38	25 5	2 0	22 50	1 57	3 17	1 50	23 35	0 7	18 26	1 27	5 13	0 35	16 26	1 38	27 50	15 40	1 22	1 5	14 58			n.a.
M 7	22 33	14 18	4 7	25 16	2 2	22 34	1 55	3 4	1 51	23 36	0 7	18 27	1 27	5 13	0 35	16 27	1 38	27 50	15 40	1 19	1 4	14 56			n.a.
T 8	22 41	11 33	3 26	25 26	2 3	22 17	1 52	2 52	1 51	23 36	0 7	18 29	1 27	5 12	0 34	16 27	1 38	27 49	15 40	1 16	1 2	14 55			n.a.
W 9	22 48	8 19	2 35	25 33	2 5	21 59	1 49	2 39	1 52	23 37	0 7	18 30	1 27	5 12	0 34	16 28	1 38	27 49	15 39	1 15	1 1	14 54			n.a.
T 10	22 55	4 43	1 38	25 40	2 5	21 41	1 46	2 26	1 52	23 38	0 7	18 32	1 27	5 12	0 34	16 28	1 38	27 48	15 39	1 15	1 0	14 53			n.a.
F 11	23 2	0 52	0 35	25 44	2 6	21 23	1 43	2 13	1 52	23 39	0 7	18 34	1 27	5 11	0 34	16 29	1 38	27 48	15 39	1 15	0 59	14 52			n.a.
S 12	23 8	3s 7	0n31	25 47	2 6	21 4	1 39	2 1	1 53	23 40	0 7	18 35	1 27	5 11	0 34	16 29	1 38	27 47	15 38	1 15	0 57	14 51			n.a.
S 13	23 13	7 5	1 37	25 47	2 5	20 44	1 36	1 48	1 53	23 41	0 7	18 37	1 27	5 11	0 34	16 30	1 38	27 47	15 38	1 15	0 56	14 49			n.a.
M14	23 18	10 50	2 41	25 46	2 4	20 25	1 32	1 36	1 53	23 41	0 8	18 38	1 27	5 11	0 34	16 30	1 38	27 46	15 38	1 13	0 55	14 48			n.a.
T 15	23 23	14 8	3 37	25 44	2 2	20 4	1 28	1 23	1 54	23 42	0 8	18 40	1 27	5 10	0 34	16 31	1 38	27 46	15 37	1 10	0 54	14 47			n.a.
W16	23 27	16 43	4 21	25 39	2 0	19 43	1 24	1 11	1 54	23 43	0 8	18 41	1 27	5 10	0 34	16 31	1 38	27 45	15 37	1 7	0 52	14 46			n.a.
T 17	23 30	18 18	4 50	25 32	1 57	19 22	1 20	0 58	1 54	23 44	0 8	18 43	1 27	5 10	0 34	16 32	1 38	27 45	15 37	1 2	0 51	14 45			n.a.
F 18	23 34	18 41	5 0	25 24	1 53	19 1	1 16	0 46	1 55	23 44	0 8	18 44	1 27	5 10	0 34	16 33	1 38	27 44	15 37	0 57	0 50	14 44			n.a.
S 19	23 36	17 46	4 50	25 13	1 49	18 39	1 11	0 33	1 55	23 45	0 8	18 45	1 27	5 10	0 34	16 33	1 38	27 43	15 36	0 53	0 48	14 42			n.a.
S 20	23 39	15 38	4 20	25 1	1 44	18 16	1 7	0 21	1 56	23 46	0 8	18 47	1 27	5 10	0 34	16 34	1 38	27 43	15 36	0 49	0 47	14 41			n.a.
M21	23 40	12 29	3 32	24 47	1 38	17 53	1 2	0 9	1 56	23 46	0 8	18 48	1 27	5 10	0 34	16 34	1 38	27 42	15 36	0 46	0 46	14 40			n.a.
T 22	23 42	8 37	2 32	24 31	1 32	17 30	0 57	0s 3	1 56	23 47	0 8	18 50	1 27	5 9	0 34	16 34	1 38	27 42	15 35	0 44	0 45	14 39			n.a.
W23	23 42	4 21	1 23	24 13	1 24	17 7	0 52	0 15	1 57	23 47	0 9	18 51	1 27	5 9	0 34	16 35	1 38	27 41	15 35	0 44	0 43	14 38			n.a.
T 24	23 43	0n 3	0 11	23 54	1 16	16 43	0 47	0 27	1 57	23 48	0 9	18 52	1 27	5 9	0 34	16 35	1 38	27 40	15 35	0 44	0 42	14 37			n.a.
F 25	23 43	4 21	1s 0	23 33	1 6	16 19	0 42	0 39	1 57	23 48	0 9	18 54	1 27	5 9	0 34	16 36	1 38	27 40	15 35	0 43	0 41	14 35			n.a.
S 26	23 42	8 20	2 6	23 11	0 56	15 55	0 36	0 51	1 58	23 49	0 9	18 55	1 27	5 9	0 34	16 36	1 38	27 39	15 34	0 43	0 39	14 34			n.a.
S 27	23 41	11 51	3 4	22 48	0 45	15 30	0 31	1 3	1 58	23 49	0 9	18 56	1 27	5 9	0 34	16 37	1 38	27 39	15 34	0 41	0 38	14 33			n.a.
M28	23 39	14 45	3 52	22 24	0 33	15 6	0 25	1 15	1 58	23 50	0 9	18 58	1 27	5 9	0 34	16 37	1 38	27 38	15 34	0 39	0 37	14 32			n.a.
T 29	23 37	16 55	4 28	22 0	0 20	14 41	0 19	1 26	1 59	23 50	0 9	18 59	1 27	5 10	0 34	16 38	1 38	27 37	15 34	0 35	0 36	14 31			n.a.
W30	23 35	18 15	4 51	21 35	0 6	14 16	0 13	1 38	1 59	23 51	0 9	19 0	1 27	5 10	0 34	16 38	1 38	27 37	15 33	0 30	0 34	14 29			n.a.
T 31	23s32	18n43	4s59	21s10	0n 9	13s50	0s 7	1s50	1n59	23s51	0s 9	19s 2	1n27	5n10	0s34	16s39	1n38	27s36	15s33	0s24	0s33	14n28			n.a.

Julian Day Number = 1661856.5, Delta T = 03h25m18s
Ecliptic obliquity = 23°42'44, Nutation = - 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'08, Lahiri = - 6°12'08 Julian Calendar 1 Dec. 164 BCE == Greg. Calendar 28 Nov. 164 BCE

The year -163 astronomical counting style corresponds to year 164 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 163 BCE
geocentric

JANUARY 163 BCE (-162) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 27 39	7♉58'02	11♋22	26♉ 6	24♒49	9♎37	28♐ 3	0♐26	14♈15	21♏ 4	25♒48	0°R45	1♎19	8♌10	n.a.	F 1
S 2	6 31 35	8°58'56	23°22	26°45	25°47	10° 6	28°17	0°32	14°15	21° 6	25°49	0♎31	1°16	8°17	n.a.	S 2
S 3	6 35 32	9°59'50	5♌17	27°15	26°44	10°36	28°31	0°38	14°16	21° 7	25°50	0°18	1°13	8°23	n.a.	S 3
M 4	6 39 29	11° 0'43	17° 7	27°35	27°41	11° 5	28°45	0°43	14°16	21° 9	25°51	0° 9	1°10	8°30	n.a.	M 4
T 5	6 43 25	12° 1'34	28°56	27°R44	28°37	11°34	28°59	0°49	14°17	21°11	25°52	0° 2	1° 6	8°37	n.a.	T 5
W 6	6 47 22	13° 2'24	10♍46	27°42	29°32	12° 3	29°13	0°55	14°17	21°12	25°53	29♍58	1° 3	8°44	n.a.	W 6
T 7	6 51 18	14° 3'13	22°42	27°29	0♓27	12°31	29°27	1° 1	14°18	21°14	25°55	29°56	1° 0	8°50	n.a.	T 7
F 8	6 55 15	15° 4'01	4♎49	27° 6	1°22	13° 0	29°41	1° 7	14°19	21°15	25°56	29°D56	0°57	8°57	n.a.	F 8
S 9	6 59 11	16° 4'48	17°12	26°32	2°15	13°28	29°55	1°12	14°19	21°17	25°57	29°R56	0°54	9° 4	n.a.	S 9
S 10	7 3 8	17° 5'34	29°56	25°48	3° 8	13°56	0♉ 9	1°18	14°20	21°18	25°58	29°56	0°51	9°10	n.a.	S 10
M11	7 7 4	18° 6'18	13♏ 6	24°56	4° 0	14°24	0°22	1°23	14°21	21°20	26° 0	29°53	0°47	9°17	n.a.	M11
T 12	7 11 1	19° 7'02	26°45	23°57	4°51	14°52	0°36	1°29	14°22	21°21	26° 1	29°48	0°44	9°24	n.a.	T 12
W13	7 14 58	20° 7'44	10♐55	22°52	5°42	15°20	0°50	1°34	14°22	21°23	26° 2	29°41	0°41	9°30	n.a.	W13
T 14	7 18 54	21° 8'24	25°33	21°44	6°32	15°47	1° 4	1°40	14°23	21°24	26° 3	29°31	0°38	9°37	n.a.	T 14
F 15	7 22 51	22° 9'04	10♑33	20°35	7°21	16°14	1°17	1°45	14°24	21°25	26° 5	29°20	0°35	9°44	n.a.	F 15
S 16	7 26 47	23° 9'42	25°47	19°26	8° 9	16°41	1°31	1°50	14°26	21°27	26° 6	29°10	0°32	9°50	n.a.	S 16
S 17	7 30 44	24°10'18	11♒ 3	18°18	8°56	17° 8	1°45	1°56	14°27	21°28	26° 7	29° 1	0°28	9°57	n.a.	S 17
M18	7 34 40	25°10'52	26°10	17°15	9°42	17°34	1°58	2° 1	14°28	21°29	26° 9	28°55	0°25	10° 4	n.a.	M18
T 19	7 38 37	26°11'24	11♓ 0	16°16	10°28	18° 0	2°12	2° 6	14°29	21°30	26°10	28°51	0°22	10°11	n.a.	T 19
W20	7 42 33	27°11'55	25°27	15°23	11°12	18°26	2°25	2°11	14°30	21°32	26°11	28°D50	0°19	10°17	n.a.	W20
T 21	7 46 30	28°12'23	9♈28	14°36	11°55	18°52	2°39	2°16	14°32	21°33	26°13	28°50	0°16	10°24	n.a.	T 21
F 22	7 50 27	29°12'49	23° 3	13°57	12°37	19°18	2°52	2°21	14°33	21°34	26°14	28°R51	0°12	10°31	n.a.	F 22
S 23	7 54 23	0♒13'14	6♉15	13°25	13°18	19°43	3° 6	2°25	14°34	21°35	26°16	28°51	0° 9	10°37	n.a.	S 23
S 24	7 58 20	1°13'36	19° 7	13° 0	13°58	20° 8	3°19	2°30	14°36	21°36	26°17	28°49	0° 6	10°44	n.a.	S 24
M25	8 2 16	2°13'56	1♊42	12°43	14°36	20°33	3°32	2°35	14°37	21°37	26°18	28°45	0° 3	10°51	n.a.	M25
T 26	8 6 13	3°14'14	14° 3	12°33	15°14	20°57	3°46	2°39	14°39	21°38	26°20	28°39	29♍59	10°57	n.a.	T 26
W27	8 10 9	4°14'30	26°15	12°D30	15°49	21°21	3°59	2°44	14°40	21°39	26°21	28°30	29°57	11° 4	n.a.	W27
T 28	8 14 6	5°14'44	8♋18	12°33	16°24	21°45	4°12	2°48	14°42	21°40	26°23	28°20	29°53	11°11	n.a.	T 28
F 29	8 18 2	6°14'56	20°16	12°43	16°57	22° 9	4°25	2°53	14°44	21°41	26°24	28° 9	29°50	11°17	n.a.	F 29
S 30	8 21 59	7°15'06	2♌10	12°59	17°28	22°32	4°38	2°57	14°45	21°42	26°26	27°59	29°47	11°24	n.a.	S 30
S 31	8 25 56	8♒15'14	14♌ 1	13♉21	17♓58	22♎55	4♉51	3♐ 1	14♈47	21♏43	26♒27	27♍51	29♍44	11♌31	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s28	18n20	4s55	20s46	0n25	13s25	0s 1	2s 1	2n 0	23s51	0s 9	19s 3	1n27	5n10	0s34	16s39	1n38	27s36	15s33	0s18	0s32	14n27		n.a.
S 2	23 24	17 7	4 37	20 22	0 41	12 59	0n 6	2 13	2 0	23 52	0 10	19 4	1 27	5 10	0 34	16 39	1 38	27 35	15 33	0 12	0 31	14 26		n.a.
S 3	23 20	15 11	4 7	20 0	0 58	12 33	0 12	2 24	2 0	23 52	0 10	19 5	1 27	5 10	0 34	16 40	1 38	27 34	15 32	0 7	0 29	14 25		n.a.
M 4	23 15	12 37	3 26	19 39	1 16	12 7	0 19	2 35	2 1	23 52	0 10	19 7	1 27	5 10	0 34	16 40	1 38	27 34	15 32	0 3	0 28	14 23		n.a.
T 5	23 10	9 32	2 36	19 19	1 34	11 41	0 26	2 46	2 1	23 52	0 10	19 8	1 27	5 11	0 33	16 41	1 38	27 33	15 32	0 1	0 27	14 22		n.a.
W 6	23 4	6 5	1 40	19 2	1 51	11 15	0 33	2 57	2 1	23 53	0 10	19 9	1 28	5 11	0 33	16 41	1 39	27 32	15 32	0n 1	0 25	14 21		n.a.
T 7	22 58	2 21	0 38	18 48	2 9	10 49	0 40	3 8	2 2	23 53	0 10	19 10	1 28	5 11	0 33	16 41	1 39	27 32	15 31	0 1	0 24	14 20		n.a.
F 8	22 51	1s32	0n26	18 35	2 26	10 23	0 47	3 19	2 2	23 53	0 10	19 11	1 28	5 12	0 33	16 42	1 39	27 31	15 31	0 2	0 23	14 19		n.a.
S 9	22 44	5 26	1 30	18 26	2 42	9 56	0 55	3 30	2 2	23 53	0 10	19 12	1 28	5 12	0 33	16 42	1 39	27 31	15 31	0 1	0 22	14 17		n.a.
S 10	22 36	9 12	2 32	18 19	2 57	9 30	1 3	3 41	2 2	23 53	0 10	19 13	1 28	5 12	0 33	16 42	1 39	27 30	15 31	0 2	0 20	14 16		n.a.
M11	22 28	12 39	3 28	18 16	3 11	9 4	1 10	3 52	2 3	23 53	0 11	19 15	1 28	5 12	0 33	16 43	1 39	27 29	15 31	0 3	0 19	14 15		n.a.
T 12	22 20	15 32	4 14	18 14	3 22	8 38	1 18	4 2	2 3	23 53	0 11	19 16	1 28	5 13	0 33	16 43	1 39	27 29	15 30	0 5	0 18	14 14		n.a.
W13	22 11	17 36	4 47	18 16	3 32	8 11	1 26	4 13	2 3	23 53	0 11	19 17	1 28	5 13	0 33	16 43	1 39	27 28	15 30	0 8	0 17	14 12		n.a.
T 14	22 2	18 36	5 2	18 19	3 39	7 45	1 35	4 23	2 4	23 53	0 11	19 18	1 28	5 14	0 33	16 44	1 39	27 27	15 30	0 12	0 15	14 11		n.a.
F 15	21 52	18 21	4 57	18 25	3 45	7 19	1 43	4 33	2 4	23 53	0 11	19 19	1 28	5 14	0 33	16 44	1 39	27 27	15 30	0 16	0 14	14 10		n.a.
S 16	21 42	16 47	4 31	18 32	3 47	6 53	1 51	4 43	2 4	23 53	0 11	19 20	1 28	5 15	0 33	16 44	1 39	27 26	15 30	0 20	0 13	14 9		n.a.
S 17	21 31	14 2	3 46	18 41	3 48	6 28	2 0	4 53	2 4	23 53	0 11	19 21	1 28	5 15	0 33	16 45	1 39	27 25	15 29	0 24	0 11	14 8		n.a.
M18	21 20	10 21	2 45	18 51	3 46	6 2	2 9	5 3	2 5	23 53	0 11	19 22	1 28	5 15	0 33	16 45	1 39	27 25	15 29	0 26	0 10	14 6		n.a.
T 19	21 9	6 5	1 34	19 2	3 42	5 36	2 18	5 13	2 5	23 53	0 12	19 23	1 28	5 16	0 33	16 45	1 39	27 24	15 29	0 28	0 9	14 5		n.a.
W20	20 57	1 33	0 18	19 14	3 37	5 11	2 27	5 23	2 5	23 53	0 12	19 24	1 28	5 16	0 33	16 45	1 39	27 23	15 29	0 28	0 8	14 4		n.a.
T 21	20 45	2n56	0s57	19 26	3 29	4 46	2 36	5 33	2 5	23 53	0 12	19 25	1 28	5 17	0 33	16 46	1 39	27 23	15 29	0 28	0 6	14 3		n.a.
F 22	20 33	7 7	2 6	19 39	3 21	4 22	2 45	5 42	2 6	23 53	0 12	19 26	1 28	5 18	0 33	16 46	1 39	27 22	15 29	0 28	0 5	14 1		n.a.
S 23	20 20	10 50	3 6	19 52	3 11	3 57	2 55	5 52	2 6	23 53	0 12	19 26	1 28	5 18	0 33	16 46	1 39	27 22	15 29	0 28	0 4	14 0		n.a.
S 24	20 7	13 55	3 56	20 5	3 0	3 33	3 4	6 1	2 6	23 52	0 12	19 27	1 28	5 19	0 33	16 46	1 39	27 21	15 28	0 28	0 2	13 59		n.a.
M25	19 53	16 17	4 32	20 17	2 49	3 9	3 14	6 10	2 6	23 52	0 12	19 28	1 28	5 19	0 33	16 47	1 39	27 20	15 28	0 30	0 1	13 58		n.a.
T 26	19 39	17 51	4 56	20 30	2 37	2 46	3 24	6 19	2 6	23 52	0 12	19 29	1 28	5 20	0 33	16 47	1 39	27 20	15 28	0 33	0n 0	13 56		n.a.
W27	19 25	18 34	5 5	20 43	2 25	2 23	3 34	6 28	2 7	23 52	0 13	19 30	1 29	5 21	0 33	16 47	1 39	27 19	15 28	0 36	0 1	13 55		n.a.
T 28	19 10	18 27	5 1	20 55	2 13	2 0	3 44	6 37	2 7	23 51	0 13	19 31	1 29	5 21	0 33	16 47	1 39	27 18	15 28	0 40	0 3	13 54		n.a.
F 29	18 55	17 30	4 43	21 6	2 0	1 38	3 54	6 46	2 7	23 51	0 13	19 31	1 29	5 22	0 33	16 48	1 40	27 18	15 28	0 44	0 4	13 53		n.a.
S 30	18 40	15 47	4 14	21 17	1 47	1 16	4 4	6 54	2 7	23 51	0 13	19 32	1 29	5 23	0 33	16 48	1 40	27 17	15 28	0 49	0 5	13 51		n.a.
S 31	18s25	13n25	3s33	21s28	1n35	0s55	4n14	7s 3	2n 7	23s50	0s13	19s33	1n29	5n23	0s33	16s48	1n40	27s17	15s28	0n52	0n 6	13n50		n.a.

Julian Day Number = 1661887.5, Delta T = 03h25m17s
Ecliptic obliquity = 23°42'44, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'04, Lahiri = - 6°12'04 Julian Calendar 1 Jan. 163 BCE == Greg. Calendar 29 Dec. 164 BCE

The year -162 astronomical counting style corresponds to year 163 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 163 BCE
geocentric

FEBRUARY 163 BCE (-162) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 29 52	9♒15'20	25♌51	13♉47	18♓26	23♎18	5♉ 4	3♐ 5	14♈49	21♏44	26♒29	27°R44	29♍41	11♌38	n.a.	M 1
T 2	8 33 49	10°15'24	7♍42	14°19	18°53	23°40	5°17	3° 9	14°51	21°44	26°30	27♍39	29°37	11°44	n.a.	T 2
W 3	8 37 45	11°15'26	19°35	14°54	19°18	24° 2	5°30	3°13	14°53	21°45	26°31	27°37	29°34	11°51	n.a.	W 3
T 4	8 41 42	12°15'26	1♎36	15°34	19°41	24°24	5°42	3°17	14°55	21°46	26°33	27°D37	29°31	11°58	n.a.	T 4
F 5	8 45 38	13°15'25	13°46	16°18	20° 2	24°45	5°55	3°21	14°57	21°47	26°34	27°38	29°28	12° 4	n.a.	F 5
S 6	8 49 35	14°15'22	26°10	17° 6	20°21	25° 7	6° 8	3°25	14°59	21°47	26°36	27°39	29°25	12°11	n.a.	S 6
S 7	8 53 31	15°15'17	8♏52	17°57	20°38	25°27	6°20	3°28	15° 1	21°48	26°37	27°40	29°22	12°18	n.a.	S 7
M 8	8 57 28	16°15'10	21°57	18°51	20°53	25°48	6°33	3°32	15° 3	21°49	26°39	27°R40	29°18	12°24	n.a.	M 8
T 9	9 1 25	17°15'01	5♐27	19°48	21° 6	26° 8	6°45	3°35	15° 5	21°49	26°41	27°39	29°15	12°31	n.a.	T 9
W10	9 5 21	18°14'51	19°26	20°48	21°17	26°27	6°57	3°39	15° 7	21°50	26°42	27°36	29°12	12°38	n.a.	W10
T 11	9 9 18	19°14'39	3♑53	21°51	21°26	26°46	7°10	3°42	15° 9	21°50	26°44	27°31	29° 9	12°44	n.a.	T 11
F 12	9 13 14	20°14'25	18°43	22°56	21°32	27° 5	7°22	3°45	15°12	21°51	26°45	27°25	29° 6	12°51	n.a.	F 12
S 13	9 17 11	21°14'10	3♒51	24° 3	21°36	27°24	7°34	3°48	15°14	21°51	26°47	27°20	29° 3	12°58	n.a.	S 13
S 14	9 21 7	22°13'52	19° 7	25°12	21°R38	27°42	7°46	3°51	15°16	21°51	26°48	27°15	28°59	13° 4	n.a.	S 14
M15	9 25 4	23°13'32	4♓20	26°24	21°37	27°59	7°58	3°54	15°19	21°52	26°50	27°12	28°56	13°11	n.a.	M15
T 16	9 29 0	24°13'09	19°20	27°37	21°34	28°16	8°10	3°57	15°21	21°52	26°51	27°10	28°53	13°18	n.a.	T 16
W17	9 32 57	25°12'45	4♈ 0	28°53	21°28	28°33	8°22	4° 0	15°24	21°52	26°53	27°D10	28°50	13°25	n.a.	W17
T 18	9 36 54	26°12'18	18°14	0♒10	21°20	28°49	8°34	4° 3	15°26	21°53	26°54	27°11	28°47	13°31	n.a.	T 18
F 19	9 40 50	27°11'49	2♉ 1	1°29	21° 9	29° 5	8°45	4° 5	15°29	21°53	26°56	27°13	28°43	13°38	n.a.	F 19
S 20	9 44 47	28°11'17	15°21	2°50	20°56	29°20	8°57	4° 8	15°31	21°53	26°57	27°14	28°40	13°45	n.a.	S 20
S 21	9 48 43	29°10'43	28°17	4°12	20°40	29°35	9° 8	4°10	15°34	21°53	26°59	27°R15	28°37	13°51	n.a.	S 21
M22	9 52 40	0♓10'07	10♊53	5°36	20°22	29°49	9°20	4°13	15°37	21°53	27° 0	27°14	28°34	13°58	n.a.	M22
T 23	9 56 36	1° 9'28	23°12	7° 1	20° 2	0♏ 3	9°31	4°15	15°39	21°54	27° 2	27°12	28°31	14° 5	n.a.	T 23
W24	10 0 33	2° 8'47	5♋18	8°28	19°39	0°16	9°42	4°17	15°42	21°54	27° 3	27° 9	28°28	14°11	n.a.	W24
T 25	10 4 29	3° 8'03	17°16	9°57	19°14	0°29	9°53	4°19	15°45	21°R54	27° 5	27° 6	28°24	14°18	n.a.	T 25
F 26	10 8 26	4° 7'17	29° 9	11°27	18°46	0°41	10° 4	4°21	15°47	21°54	27° 7	27° 2	28°21	14°25	n.a.	F 26
S 27	10 12 22	5° 6'29	10♌59	12°58	18°17	0°53	10°15	4°23	15°50	21°54	27° 8	26°58	28°18	14°31	n.a.	S 27
S 28	10 16 19	6♓ 5'38	22♌49	14♒31	17♓46	1♏ 4	10♉26	4♐25	15♈53	21♏53	27♒10	26♍55	28♍15	14♌38	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	18s 9	10n30	2s43	21s37	1n22	0s34	4n25	7s11	2n 7	23s50	0s13	19s34	1n29	5n24	0s33	16s48	1n40	27s16	15s28	0n55	0n 8	13n49		n.a.
T 2	17 52	7 9	1 46	21 46	1 10	0 14	4 35	7 19	2 7	23 50	0 13	19 34	1 29	5 25	0 33	16 48	1 40	27 15	15 27	0 57	0 9	13 47		n.a.
W 3	17 36	3 30	0 43	21 54	0 58	0n 5	4 46	7 27	2 8	23 49	0 13	19 35	1 29	5 26	0 33	16 48	1 40	27 15	15 27	0 58	0 10	13 46		n.a.
T 4	17 19	0s19	0n22	22 2	0 46	0 24	4 56	7 35	2 8	23 49	0 14	19 36	1 29	5 26	0 32	16 48	1 40	27 14	15 27	0 58	0 12	13 45		n.a.
F 5	17 2	4 10	1 26	22 8	0 35	0 42	5 7	7 43	2 8	23 48	0 14	19 36	1 29	5 27	0 32	16 49	1 40	27 13	15 27	0 57	0 13	13 44		n.a.
S 6	16 44	7 54	2 29	22 13	0 23	0 59	5 17	7 51	2 8	23 48	0 14	19 37	1 29	5 28	0 32	16 49	1 40	27 13	15 27	0 57	0 14	13 42		n.a.
S 7	16 27	11 23	3 25	22 17	0 12	1 16	5 28	7 58	2 8	23 47	0 14	19 38	1 29	5 29	0 32	16 49	1 40	27 12	15 27	0 56	0 15	13 41		n.a.
M 8	16 9	14 24	4 13	22 20	0 2	1 32	5 38	8 6	2 8	23 47	0 14	19 38	1 29	5 30	0 32	16 49	1 40	27 12	15 27	0 56	0 17	13 40		n.a.
T 9	15 50	16 44	4 48	22 22	0s 9	1 46	5 49	8 13	2 8	23 46	0 14	19 39	1 29	5 31	0 32	16 49	1 40	27 11	15 27	0 57	0 18	13 39		n.a.
W10	15 32	18 10	5 8	22 23	0 19	2 0	5 59	8 20	2 8	23 46	0 14	19 39	1 29	5 32	0 32	16 49	1 40	27 10	15 27	0 58	0 19	13 37		n.a.
T 11	15 13	18 31	5 9	22 23	0 28	2 13	6 10	8 27	2 8	23 45	0 14	19 40	1 30	5 32	0 32	16 49	1 40	27 10	15 27	1 0	0 21	13 36		n.a.
F 12	14 54	17 36	4 50	22 21	0 37	2 25	6 20	8 34	2 8	23 45	0 15	19 41	1 30	5 33	0 32	16 49	1 40	27 9	15 27	1 2	0 22	13 35		n.a.
S 13	14 35	15 27	4 10	22 18	0 46	2 36	6 30	8 41	2 8	23 44	0 15	19 41	1 30	5 34	0 32	16 49	1 40	27 9	15 27	1 4	0 23	13 33		n.a.
S 14	14 16	12 13	3 13	22 14	0 55	2 46	6 40	8 47	2 8	23 44	0 15	19 42	1 30	5 35	0 32	16 49	1 40	27 8	15 27	1 6	0 24	13 32		n.a.
M15	13 56	8 9	2 2	22 8	1 3	2 54	6 50	8 53	2 8	23 43	0 15	19 42	1 30	5 36	0 32	16 49	1 40	27 8	15 27	1 8	0 26	13 31		n.a.
T 16	13 36	3 37	0 43	22 1	1 10	3 2	6 59	9 0	2 8	23 43	0 15	19 42	1 30	5 37	0 32	16 50	1 40	27 7	15 27	1 8	0 27	13 30		n.a.
W17	13 16	1n 2	0s37	21 53	1 18	3 8	7 8	9 6	2 8	23 42	0 15	19 43	1 30	5 38	0 32	16 50	1 40	27 6	15 27	1 8	0 28	13 28		n.a.
T 18	12 56	5 29	1 53	21 43	1 25	3 13	7 17	9 12	2 7	23 41	0 15	19 43	1 30	5 39	0 32	16 50	1 40	27 6	15 27	1 8	0 29	13 27		n.a.
F 19	12 35	9 30	2 59	21 32	1 31	3 16	7 26	9 17	2 7	23 41	0 16	19 44	1 30	5 40	0 32	16 50	1 41	27 5	15 27	1 7	0 31	13 26		n.a.
S 20	12 14	12 54	3 54	21 20	1 37	3 19	7 34	9 23	2 7	23 40	0 16	19 44	1 30	5 41	0 32	16 50	1 41	27 5	15 27	1 7	0 32	13 24		n.a.
S 21	11 53	15 32	4 35	21 6	1 43	3 19	7 41	9 28	2 7	23 39	0 16	19 45	1 30	5 42	0 32	16 50	1 41	27 4	15 27	1 7	0 33	13 23		n.a.
M22	11 32	17 21	5 1	20 50	1 48	3 19	7 49	9 34	2 7	23 39	0 16	19 45	1 30	5 43	0 32	16 50	1 41	27 4	15 27	1 7	0 35	13 22		n.a.
T 23	11 11	18 19	5 13	20 33	1 53	3 17	7 55	9 39	2 7	23 38	0 16	19 45	1 31	5 44	0 32	16 50	1 41	27 3	15 27	1 7	0 36	13 20		n.a.
W24	10 50	18 26	5 11	20 14	1 57	3 13	8 1	9 44	2 6	23 37	0 16	19 46	1 31	5 45	0 32	16 50	1 41	27 3	15 27	1 9	0 37	13 19		n.a.
T 25	10 28	17 42	4 55	19 54	2 1	3 8	8 6	9 48	2 6	23 37	0 16	19 46	1 31	5 46	0 32	16 49	1 41	27 2	15 27	1 10	0 38	13 18		n.a.
F 26	10 7	16 13	4 26	19 33	2 5	3 2	8 11	9 53	2 6	23 36	0 17	19 46	1 31	5 48	0 32	16 49	1 41	27 2	15 27	1 12	0 40	13 16		n.a.
S 27	9 45	14 3	3 47	19 9	2 8	2 54	8 15	9 57	2 5	23 35	0 17	19 46	1 31	5 49	0 32	16 49	1 41	27 1	15 27	1 13	0 41	13 15		n.a.
S 28	9s23	11n17	2s57	18s45	2s11	2n44	8n18	10s 2	2n 5	23s35	0s17	19s47	1n31	5n50	0s32	16s49	1n41	27s 1	15s27	1n14	0n42	13n14		n.a.

Julian Day Number = 1661918.5, Delta T = 03h25m16s
Ecliptic obliquity = 23°42'44, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°19'00, Lahiri = - 6°12'00 Julian Calendar 1 Feb. 163 BCE == Greg. Calendar 29 Jan. 163 BCE

The year -162 astronomical counting style corresponds to year 163 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 163 BCE
geocentric

MARCH 163 BCE (-162) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 20 16	7♓ 4'45	4♍41	16♒ 5	17°R13	1♏14	10♑37	4♐26	15♈56	21°R53	27♒11	26°R52	28♍12	14♌45	n.a.	M 1
T 2	10 24 12	8° 3'50	16°37	17°41	16♓39	1°24	10°47	4°28	15°59	21♏53	27°13	26♍51	28° 9	14°51	n.a.	T 2
W 3	10 28 9	9° 2'53	28°39	19°18	16° 4	1°34	10°58	4°29	16° 2	21°53	27°14	26°D51	28° 5	14°58	n.a.	W 3
T 4	10 32 5	10° 1'54	10♎50	20°57	15°27	1°42	11° 8	4°31	16° 5	21°53	27°16	26°51	28° 2	15° 5	n.a.	T 4
F 5	10 36 2	11° 0'53	23°11	22°37	14°50	1°50	11°19	4°32	16° 8	21°53	27°17	26°52	27°59	15°11	n.a.	F 5
S 6	10 39 58	11°59'49	5♏44	24°19	14°12	1°58	11°29	4°33	16°10	21°52	27°19	26°54	27°56	15°18	n.a.	S 6
S 7	10 43 55	12°58'44	18°34	26° 2	13°34	2° 5	11°39	4°34	16°13	21°52	27°20	26°55	27°53	15°25	n.a.	S 7
M 8	10 47 51	13°57'38	1♐41	27°46	12°56	2°11	11°49	4°35	16°17	21°52	27°22	26°56	27°49	15°32	n.a.	M 8
T 9	10 51 48	14°56'29	15° 9	29°32	12°18	2°17	11°59	4°36	16°20	21°51	27°23	26°R56	27°46	15°38	n.a.	T 9
W10	10 55 44	15°55'19	28°59	1♓20	11°41	2°22	12° 9	4°37	16°23	21°51	27°25	26°56	27°43	15°45	n.a.	W10
T 11	10 59 41	16°54'07	13♑11	3° 8	11° 4	2°26	12°18	4°38	16°26	21°51	27°26	26°55	27°40	15°52	n.a.	T 11
F 12	11 3 38	17°52'53	27°43	4°59	10°28	2°29	12°28	4°38	16°29	21°50	27°27	26°54	27°37	15°58	n.a.	F 12
S 13	11 7 34	18°51'37	12♒31	6°51	9°54	2°32	12°37	4°39	16°32	21°50	27°29	26°53	27°34	16° 5	n.a.	S 13
S 14	11 11 31	19°50'19	27°29	8°44	9°20	2°34	12°47	4°39	16°35	21°49	27°30	26°52	27°30	16°12	n.a.	S 14
M15	11 15 27	20°48'59	12♓29	10°39	8°49	2°35	12°56	4°40	16°38	21°49	27°32	26°52	27°27	16°18	n.a.	M15
T 16	11 19 24	21°47'38	27°23	12°36	8°19	2°R36	13° 5	4°40	16°42	21°48	27°33	26°D52	27°24	16°25	n.a.	T 16
W17	11 23 20	22°46'14	12♈ 2	14°33	7°51	2°36	13°14	4°40	16°45	21°47	27°35	26°52	27°21	16°32	n.a.	W17
T 18	11 27 17	23°44'48	26°20	16°33	7°25	2°35	13°23	4°R40	16°48	21°47	27°36	26°52	27°18	16°38	n.a.	T 18
F 19	11 31 13	24°43'20	10♉14	18°34	7° 1	2°33	13°31	4°40	16°51	21°46	27°37	26°52	27°14	16°45	n.a.	F 19
S 20	11 35 10	25°41'49	23°42	20°36	6°39	2°31	13°40	4°40	16°55	21°45	27°39	26°52	27°11	16°52	n.a.	S 20
S 21	11 39 7	26°40'17	6♊45	22°39	6°20	2°28	13°49	4°39	16°58	21°45	27°40	26°R52	27° 8	16°58	n.a.	S 21
M22	11 43 3	27°38'42	19°26	24°44	6° 2	2°24	13°57	4°39	17° 1	21°44	27°42	26°52	27° 5	17° 5	n.a.	M22
T 23	11 47 0	28°37'05	1♋47	26°49	5°48	2°19	14° 5	4°39	17° 4	21°43	27°43	26°D52	27° 2	17°12	n.a.	T 23
W24	11 50 56	29°35'26	13°54	28°56	5°35	2°14	14°13	4°38	17° 8	21°42	27°44	26°52	26°59	17°18	n.a.	W24
T 25	11 54 53	0♈33'45	25°51	1♈ 3	5°25	2° 8	14°21	4°37	17°11	21°41	27°46	26°53	26°55	17°25	n.a.	T 25
F 26	11 58 49	1°32'01	7♌42	3°11	5°18	2° 1	14°29	4°37	17°15	21°41	27°47	26°53	26°52	17°32	n.a.	F 26
S 27	12 2 46	2°30'16	19°31	5°20	5°13	1°53	14°36	4°36	17°18	21°40	27°48	26°54	26°49	17°38	n.a.	S 27
S 28	12 6 42	3°28'28	1♍22	7°28	5°10	1°45	14°44	4°35	17°21	21°39	27°49	26°54	26°46	17°45	n.a.	S 28
M29	12 10 39	4°26'38	13°19	9°37	5°D10	1°35	14°51	4°34	17°25	21°38	27°51	26°55	26°43	17°52	n.a.	M29
T 30	12 14 35	5°24'47	25°23	11°45	5°12	1°26	14°58	4°33	17°28	21°37	27°52	26°R55	26°40	17°58	n.a.	T 30
W31	12 18 32	6♈22'53	7♎38	13♈52	5♓17	1♏15	15♑ 5	4♐31	17♈31	21♏36	27♒53	26♍55	26♍36	18♌ 5	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	9s 1	8n 3	1s59	18s18	2s13	2n34	8n20	10s 6	2n 5	23s34	0s17	19s47	1n31	5n51	0s32	16s49	1n41	27s 0	15s27	1n15	0n44	13n12			n.a.
T 2	8 38	4 29	0 56	17 50	2 14	2 22	8 21	10 9	2 4	23 33	0 17	19 47	1 31	5 52	0 32	16 49	1 41	27 0	15 27	1 16	0 45	13 11			n.a.
W 3	8 16	0 42	0n10	17 21	2 16	2 8	8 22	10 13	2 4	23 33	0 17	19 47	1 31	5 53	0 32	16 49	1 41	26 59	15 27	1 16	0 46	13 10			n.a.
T 4	7 54	3s10	1 17	16 50	2 16	1 54	8 21	10 17	2 3	23 32	0 18	19 47	1 31	5 54	0 32	16 49	1 41	26 59	15 28	1 16	0 47	13 8			n.a.
F 5	7 31	6 56	2 21	16 17	2 17	1 38	8 20	10 20	2 3	23 31	0 18	19 48	1 31	5 56	0 32	16 49	1 41	26 58	15 28	1 15	0 49	13 7			n.a.
S 6	7 8	10 27	3 19	15 43	2 17	1 22	8 18	10 23	2 2	23 30	0 18	19 48	1 31	5 57	0 32	16 49	1 41	26 58	15 28	1 15	0 50	13 6			n.a.
S 7	6 46	13 34	4 9	15 7	2 16	1 4	8 14	10 26	2 1	23 30	0 18	19 48	1 32	5 58	0 32	16 49	1 41	26 57	15 28	1 14	0 51	13 4			n.a.
M 8	6 23	16 3	4 47	14 29	2 15	0 46	8 10	10 29	2 1	23 29	0 18	19 48	1 32	5 59	0 32	16 48	1 41	26 57	15 28	1 14	0 52	13 3			n.a.
T 9	6 0	17 44	5 10	13 50	2 13	0 27	8 5	10 31	2 0	23 28	0 18	19 48	1 32	6 0	0 32	16 48	1 41	26 57	15 28	1 14	0 54	13 2			n.a.
W10	5 37	18 26	5 17	13 9	2 11	0 7	7 59	10 34	1 59	23 27	0 19	19 48	1 32	6 2	0 32	16 48	1 41	26 56	15 28	1 14	0 55	13 0			n.a.
T 11	5 14	18 0	5 4	12 27	2 8	0s13	7 52	10 36	1 59	23 27	0 19	19 48	1 32	6 3	0 32	16 48	1 42	26 56	15 28	1 14	0 56	12 59			n.a.
F 12	4 51	16 24	4 33	11 43	2 5	0 34	7 45	10 38	1 58	23 26	0 19	19 48	1 32	6 4	0 32	16 48	1 42	26 55	15 28	1 15	0 58	12 58			n.a.
S 13	4 27	13 41	3 42	10 58	2 1	0 54	7 36	10 40	1 57	23 25	0 19	19 48	1 32	6 5	0 32	16 48	1 42	26 55	15 29	1 15	0 59	12 56			n.a.
S 14	4 4	10 3	2 36	10 11	1 57	1 15	7 27	10 41	1 56	23 25	0 19	19 48	1 32	6 6	0 32	16 48	1 42	26 54	15 29	1 16	1 0	12 55			n.a.
M15	3 41	5 44	1 19	9 22	1 52	1 36	7 17	10 43	1 55	23 24	0 19	19 48	1 32	6 8	0 32	16 47	1 42	26 54	15 29	1 16	1 1	12 54			n.a.
T 16	3 17	1 6	0s 3	8 33	1 46	1 57	7 7	10 44	1 54	23 23	0 20	19 48	1 32	6 9	0 31	16 47	1 42	26 54	15 29	1 16	1 3	12 52			n.a.
W17	2 54	3n32	1 23	7 41	1 40	2 17	6 56	10 45	1 53	23 22	0 20	19 48	1 32	6 10	0 31	16 47	1 42	26 53	15 29	1 16	1 4	12 51			n.a.
T 18	2 31	7 51	2 37	6 48	1 34	2 37	6 45	10 45	1 52	23 22	0 20	19 48	1 33	6 12	0 31	16 47	1 42	26 53	15 29	1 16	1 5	12 50			n.a.
F 19	2 7	11 36	3 38	5 54	1 27	2 57	6 33	10 46	1 51	23 21	0 20	19 48	1 33	6 13	0 31	16 47	1 42	26 53	15 30	1 16	1 7	12 48			n.a.
S 20	1 44	14 37	4 26	4 59	1 19	3 16	6 21	10 46	1 50	23 20	0 20	19 48	1 33	6 14	0 31	16 46	1 42	26 52	15 30	1 15	1 8	12 47			n.a.
S 21	1 20	16 47	4 58	4 2	1 11	3 35	6 9	10 46	1 48	23 20	0 20	19 48	1 33	6 15	0 31	16 46	1 42	26 52	15 30	1 15	1 9	12 46			n.a.
M22	0 57	18 3	5 15	3 5	1 3	3 53	5 56	10 46	1 47	23 19	0 21	19 47	1 33	6 17	0 31	16 46	1 42	26 52	15 30	1 15	1 10	12 44			n.a.
T 23	0 33	18 25	5 17	2 6	0 54	4 10	5 43	10 46	1 46	23 18	0 21	19 47	1 33	6 18	0 31	16 46	1 42	26 51	15 30	1 15	1 12	12 43			n.a.
W24	0 10	17 56	5 4	1 7	0 45	4 27	5 30	10 45	1 44	23 17	0 21	19 47	1 33	6 19	0 31	16 45	1 42	26 51	15 30	1 15	1 13	12 41			n.a.
T 25	0n14	16 40	4 38	0 7	0 35	4 43	5 17	10 45	1 43	23 17	0 21	19 47	1 33	6 21	0 31	16 45	1 42	26 51	15 31	1 15	1 14	12 40			n.a.
F 26	0 37	14 41	4 1	0n54	0 25	4 58	5 4	10 44	1 41	23 16	0 21	19 47	1 33	6 22	0 31	16 45	1 42	26 50	15 31	1 15	1 15	12 39			n.a.
S 27	1 0	12 5	3 13	1 55	0 15	5 12	4 51	10 42	1 40	23 15	0 21	19 46	1 33	6 23	0 31	16 45	1 42	26 50	15 31	1 15	1 17	12 37			n.a.
S 28	1 24	8 58	2 17	2 56	0 4	5 25	4 38	10 41	1 38	23 15	0 22	19 46	1 33	6 24	0 31	16 44	1 42	26 50	15 31	1 15	1 18	12 36			n.a.
M29	1 47	5 29	1 15	3 57	0n 7	5 37	4 25	10 39	1 36	23 14	0 22	19 46	1 33	6 26	0 31	16 44	1 42	26 50	15 32	1 14	1 19	12 35			n.a.
T 30	2 10	1 43	0 9	4 58	0 18	5 49	4 12	10 38	1 35	23 14	0 22	19 46	1 33	6 27	0 31	16 44	1 42	26 49	15 32	1 14	1 21	12 33			n.a.
W31	2n34	2s 9	0n59	5n58	0n28	5s59	3n59	10s36	1n33	23s13	0s22	19s45	1n33	6n28	0s31	16s43	1n42	26s49	15s32	1n14	1n22	12n32			n.a.

Julian Day Number = 1661946.5, Delta T = 03h25m15s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°18'56, Lahiri = - 6°11'56 Julian Calendar 1 March 163 BCE == Greg. Calendar 26 Feb. 163 BCE

The year -162 astronomical counting style corresponds to year 163 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 163 BCE
geocentric

APRIL 163 BCE (-162) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 22 29	7♈20'58	20♎ 3	15♈58	5♓24	1°R 4	15♑12	4°R30	17♈35	21°R35	27♒55	26°R54	26♍33	18♌12	n.a.	T 1
F 2	12 26 25	8°19'01	2♏42	18° 3	5°33	0♏52	15°19	4♐29	17°38	21♏34	27°56	26♍53	26°30	18°18	n.a.	F 2
S 3	12 30 22	9°17'02	15°33	20° 7	5°44	0°39	15°26	4°27	17°42	21°33	27°57	26°52	26°27	18°25	n.a.	S 3
S 4	12 34 18	10°15'02	28°39	22° 8	5°57	0°25	15°32	4°26	17°45	21°32	27°58	26°50	26°24	18°32	n.a.	S 4
M 5	12 38 15	11°13'00	12♐ 0	24° 8	6°12	0°11	15°38	4°24	17°49	21°31	27°59	26°48	26°20	18°38	n.a.	M 5
T 6	12 42 11	12°10'57	25°35	26° 4	6°29	29♎56	15°44	4°22	17°52	21°29	28° 1	26°47	26°17	18°45	n.a.	T 6
W 7	12 46 8	13° 8'53	9♑24	27°59	6°48	29°41	15°50	4°20	17°56	21°28	28° 2	26°D46	26°14	18°52	n.a.	W 7
T 8	12 50 4	14° 6'47	23°28	29°50	7° 9	29°25	15°56	4°18	17°59	21°27	28° 3	26°47	26°11	18°58	n.a.	T 8
F 9	12 54 1	15° 4'40	7♒44	1♉39	7°32	29° 8	16° 2	4°16	18° 2	21°26	28° 4	26°47	26° 8	19° 5	n.a.	F 9
S 10	12 57 58	16° 2'31	22°11	3°24	7°56	28°51	16° 7	4°14	18° 6	21°25	28° 5	26°49	26° 5	19°12	n.a.	S 10
S 11	13 1 54	17° 0'21	6♓45	5° 6	8°22	28°34	16°13	4°12	18° 9	21°23	28° 6	26°50	26° 1	19°19	n.a.	S 11
M12	13 5 51	17°58'10	21°21	6°45	8°50	28°16	16°18	4°10	18°13	21°22	28° 7	26°R50	25°58	19°25	n.a.	M12
T 13	13 9 47	18°55'57	5♈53	8°21	9°19	27°57	16°23	4° 7	18°16	21°21	28° 8	26°50	25°55	19°32	n.a.	T 13
W14	13 13 44	19°53'43	20°17	9°53	9°50	27°38	16°28	4° 5	18°20	21°20	28° 9	26°49	25°52	19°39	n.a.	W14
T 15	13 17 40	20°51'28	4♉25	11°21	10°22	27°18	16°32	4° 2	18°23	21°18	28°10	26°47	25°49	19°45	n.a.	T 15
F 16	13 21 37	21°49'11	18°15	12°45	10°55	26°59	16°37	4° 0	18°27	21°17	28°11	26°43	25°45	19°52	n.a.	F 16
S 17	13 25 33	22°46'52	1♊43	14° 6	11°30	26°39	16°41	3°57	18°30	21°16	28°12	26°39	25°42	19°59	n.a.	S 17
S 18	13 29 30	23°44'32	14°48	15°24	12° 5	26°18	16°45	3°54	18°34	21°14	28°13	26°36	25°39	20° 5	n.a.	S 18
M19	13 33 27	24°42'10	27°31	16°37	12°42	25°58	16°49	3°51	18°37	21°13	28°14	26°32	25°36	20°12	n.a.	M19
T 20	13 37 23	25°39'47	9♋55	17°46	13°21	25°37	16°53	3°49	18°41	21°11	28°15	26°30	25°33	20°19	n.a.	T 20
W21	13 41 20	26°37'22	22° 3	18°52	14° 0	25°17	16°57	3°46	18°44	21°10	28°16	26°D29	25°30	20°25	n.a.	W21
T 22	13 45 16	27°34'55	4♌ 1	19°54	14°40	24°56	17° 0	3°43	18°47	21° 9	28°17	26°29	25°26	20°32	n.a.	T 22
F 23	13 49 13	28°32'27	15°52	20°51	15°22	24°35	17° 3	3°39	18°51	21° 7	28°18	26°30	25°23	20°39	n.a.	F 23
S 24	13 53 9	29°29'57	27°42	21°45	16° 4	24°14	17° 7	3°36	18°54	21° 6	28°19	26°32	25°20	20°45	n.a.	S 24
S 25	13 57 6	0♉27'26	9♍35	22°34	16°48	23°53	17° 9	3°33	18°58	21° 4	28°20	26°33	25°17	20°52	n.a.	S 25
M26	14 1 2	1°24'54	21°36	23°19	17°32	23°33	17°12	3°30	19° 1	21° 3	28°20	26°R34	25°14	20°59	n.a.	M26
T 27	14 4 59	2°22'20	3♎48	24° 0	18°17	23°12	17°15	3°26	19° 4	21° 1	28°21	26°34	25°11	21° 5	n.a.	T 27
W28	14 8 56	3°19'45	16°15	24°36	19° 3	22°52	17°17	3°23	19° 8	21° 0	28°22	26°33	25° 7	21°12	n.a.	W28
T 29	14 12 52	4°17'09	28°57	25° 8	19°50	22°32	17°19	3°19	19°11	20°58	28°23	26°29	25° 4	21°19	n.a.	T 29
F 30	14 16 49	5♉14'31	11♏56	25♉35	20♓37	22♎12	17♑21	3♐16	19♈15	20♏57	28♒24	26♍24	25♍ 1	21♌25	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	2n57	6s 0	2n 5	6n57	0n39	6s 8	3n46	10s34	1n31	23s12	0s22	19s45	1n34	6n30	0s31	16s43	1n42	26s49	15s32	1n15	1n23	12n30		n.a.
F 2	3 20	9 39	3 6	7 56	0 50	6 17	3 33	10 31	1 29	23 12	0 23	19 45	1 34	6 31	0 31	16 43	1 42	26 49	15 32	1 15	1 24	12 29		n.a.
S 3	3 43	12 53	3 58	8 53	1 1	6 24	3 21	10 29	1 27	23 11	0 23	19 44	1 34	6 32	0 31	16 43	1 42	26 48	15 33	1 16	1 26	12 28		n.a.
S 4	4 6	15 33	4 39	9 48	1 11	6 31	3 8	10 26	1 25	23 11	0 23	19 44	1 34	6 34	0 31	16 42	1 42	26 48	15 33	1 16	1 27	12 26		n.a.
M 5	4 29	17 26	5 6	10 42	1 21	6 37	2 56	10 23	1 22	23 10	0 23	19 44	1 34	6 35	0 31	16 42	1 43	26 48	15 33	1 17	1 28	12 25		n.a.
T 6	4 52	18 22	5 16	11 35	1 30	6 41	2 44	10 20	1 20	23 10	0 23	19 43	1 34	6 36	0 31	16 42	1 43	26 48	15 33	1 18	1 30	12 23		n.a.
W 7	5 15	18 15	5 9	12 25	1 39	6 45	2 33	10 16	1 18	23 9	0 24	19 43	1 34	6 38	0 31	16 41	1 43	26 48	15 34	1 18	1 31	12 22		n.a.
T 8	5 38	17 0	4 43	13 13	1 48	6 48	2 21	10 13	1 15	23 9	0 24	19 42	1 34	6 39	0 31	16 41	1 43	26 47	15 34	1 18	1 32	12 21		n.a.
F 9	6 0	14 41	3 59	13 59	1 55	6 50	2 10	10 9	1 13	23 8	0 24	19 42	1 34	6 40	0 31	16 41	1 43	26 47	15 34	1 17	1 33	12 19		n.a.
S 10	6 23	11 26	3 0	14 43	2 3	6 51	1 59	10 6	1 11	23 8	0 24	19 42	1 34	6 42	0 31	16 40	1 43	26 47	15 35	1 17	1 35	12 18		n.a.
S 11	6 45	7 27	1 49	15 24	2 9	6 51	1 48	10 2	1 8	23 7	0 24	19 41	1 34	6 43	0 31	16 40	1 43	26 47	15 35	1 16	1 36	12 16		n.a.
M12	7 8	3 0	0 30	16 3	2 15	6 51	1 38	9 58	1 5	23 7	0 25	19 41	1 34	6 44	0 31	16 39	1 43	26 47	15 35	1 16	1 37	12 15		n.a.
T 13	7 30	1n36	0s50	16 39	2 20	6 49	1 27	9 53	1 3	23 6	0 25	19 40	1 34	6 46	0 31	16 39	1 43	26 47	15 35	1 16	1 38	12 14		n.a.
W14	7 52	6 5	2 6	17 13	2 24	6 47	1 17	9 49	1 0	23 6	0 25	19 40	1 34	6 47	0 31	16 39	1 43	26 47	15 36	1 17	1 40	12 12		n.a.
T 15	8 14	10 7	3 12	17 45	2 28	6 44	1 8	9 45	0 57	23 5	0 25	19 39	1 34	6 49	0 31	16 38	1 43	26 46	15 36	1 18	1 41	12 11		n.a.
F 16	8 36	13 31	4 6	18 14	2 31	6 40	0 58	9 40	0 54	23 5	0 25	19 39	1 34	6 50	0 31	16 38	1 43	26 46	15 36	1 19	1 42	12 9		n.a.
S 17	8 57	16 5	4 45	18 40	2 32	6 35	0 49	9 35	0 51	23 5	0 26	19 38	1 34	6 51	0 31	16 38	1 43	26 46	15 37	1 21	1 44	12 8		n.a.
S 18	9 19	17 45	5 7	19 5	2 33	6 30	0 40	9 31	0 49	23 4	0 26	19 37	1 34	6 53	0 31	16 37	1 43	26 46	15 37	1 22	1 45	12 7		n.a.
M19	9 40	18 28	5 14	19 27	2 34	6 24	0 31	9 26	0 46	23 4	0 26	19 37	1 35	6 54	0 31	16 37	1 43	26 46	15 37	1 23	1 46	12 5		n.a.
T 20	10 2	18 16	5 5	19 46	2 33	6 17	0 22	9 21	0 43	23 4	0 26	19 36	1 35	6 55	0 31	16 36	1 43	26 46	15 37	1 24	1 47	12 4		n.a.
W21	10 23	17 13	4 43	20 3	2 31	6 9	0 14	9 16	0 40	23 4	0 26	19 36	1 35	6 56	0 31	16 36	1 43	26 46	15 38	1 25	1 49	12 2		n.a.
T 22	10 44	15 26	4 9	20 18	2 29	6 1	0 6	9 12	0 36	23 3	0 27	19 35	1 35	6 58	0 31	16 36	1 43	26 46	15 38	1 25	1 50	12 1		n.a.
F 23	11 5	13 0	3 25	20 30	2 25	5 52	0s 2	9 7	0 33	23 3	0 27	19 35	1 35	6 59	0 31	16 35	1 43	26 46	15 38	1 24	1 51	11 59		n.a.
S 24	11 25	10 3	2 32	20 40	2 21	5 42	0 10	9 2	0 30	23 3	0 27	19 34	1 35	7 0	0 31	16 35	1 43	26 46	15 39	1 24	1 52	11 58		n.a.
S 25	11 46	6 39	1 32	20 48	2 15	5 32	0 17	8 57	0 27	23 3	0 27	19 33	1 35	7 2	0 31	16 34	1 43	26 46	15 39	1 23	1 54	11 57		n.a.
M26	12 6	2 57	0 27	20 54	2 9	5 21	0 25	8 53	0 24	23 3	0 28	19 33	1 35	7 3	0 31	16 34	1 43	26 46	15 39	1 23	1 55	11 55		n.a.
T 27	12 26	0s56	0n39	20 57	2 2	5 10	0 32	8 48	0 21	23 3	0 28	19 32	1 35	7 4	0 31	16 34	1 43	26 46	15 40	1 23	1 56	11 54		n.a.
W28	12 46	4 51	1 45	20 58	1 54	4 58	0 38	8 43	0 18	23 3	0 28	19 31	1 35	7 6	0 31	16 33	1 43	26 46	15 40	1 23	1 58	11 52		n.a.
T 29	13 6	8 37	2 47	20 58	1 45	4 45	0 45	8 39	0 14	23 3	0 28	19 31	1 35	7 7	0 31	16 33	1 43	26 46	15 40	1 25	1 59	11 51		n.a.
F 30	13n25	12s 5	3n42	20n55	1n35	4s32	0s51	8s34	0n11	23s 2	0s28	19s30	1n35	7n 8	0s31	16s32	1n43	26s46	15s41	1n27	2n 0	11n49		n.a.

Julian Day Number = 1661977.5, Delta T = 03h25m14s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°18'52, Lahiri = - 6°11'51 Julian Calendar 1 Apr. 163 BCE == Greg. Calendar 29 March 163 BCE

The year -162 astronomical counting style corresponds to year 163 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 163 BCE
geocentric

MAY 163 BCE (-162) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 20 45	6♉11'53	25♏12	25♉58	21♓26	21°R53	17♑23	3°R12	19♈18	20°R55	28♒24	26°R18	24♍58	21♌32	n.a.	S 1
S 2	14 24 42	7° 9'14	8♐41	26°16	22°15	21♎34	17°25	3♐ 8	19°21	20♏53	28°25	26♍12	24°55	21°39	n.a.	S 2
M 3	14 28 38	8° 6'34	22°24	26°29	23° 5	21°16	17°26	3° 5	19°25	20°52	28°26	26° 5	24°51	21°45	n.a.	M 3
T 4	14 32 35	9° 3'53	6♑16	26°38	23°55	20°57	17°27	3° 1	19°28	20°50	28°26	26° 0	24°48	21°52	n.a.	T 4
W 5	14 36 31	10° 1'11	20°16	26°R43	24°46	20°40	17°28	2°57	19°31	20°49	28°27	25°57	24°45	21°59	n.a.	W 5
T 6	14 40 28	10°58'29	4♒22	26°42	25°38	20°22	17°29	2°53	19°35	20°47	28°28	25°55	24°42	22° 5	n.a.	T 6
F 7	14 44 25	11°55'47	18°32	26°37	26°31	20° 6	17°30	2°49	19°38	20°46	28°28	25°D55	24°39	22°12	n.a.	F 7
S 8	14 48 21	12°53'04	2♓43	26°28	27°24	19°50	17°30	2°45	19°41	20°44	28°29	25°56	24°36	22°19	n.a.	S 8
S 9	14 52 18	13°50'20	16°56	26°15	28°17	19°34	17°31	2°41	19°44	20°42	28°29	25°57	24°32	22°25	n.a.	S 9
M10	14 56 14	14°47'36	1♈ 7	25°58	29°11	19°20	17°R31	2°37	19°48	20°41	28°30	25°R57	24°29	22°32	n.a.	M10
T 11	15 0 11	15°44'51	15°13	25°37	0♈ 6	19° 5	17°31	2°33	19°51	20°39	28°30	25°56	24°26	22°39	n.a.	T 11
W12	15 4 7	16°42'06	29°12	25°13	1° 1	18°52	17°30	2°29	19°54	20°38	28°31	25°52	24°23	22°45	n.a.	W12
T 13	15 8 4	17°39'20	13♉ 1	24°46	1°56	18°39	17°30	2°25	19°57	20°36	28°31	25°46	24°20	22°52	n.a.	T 13
F 14	15 12 0	18°36'34	26°35	24°17	2°52	18°27	17°29	2°21	20° 0	20°34	28°32	25°38	24°17	22°59	n.a.	F 14
S 15	15 15 57	19°33'47	9♊51	23°46	3°49	18°16	17°28	2°17	20° 3	20°33	28°32	25°29	24°13	23° 5	n.a.	S 15
S 16	15 19 54	20°30'59	22°50	23°13	4°46	18° 6	17°27	2°12	20° 7	20°31	28°33	25°20	24°10	23°12	n.a.	S 16
M17	15 23 50	21°28'11	5♋30	22°39	5°43	17°56	17°26	2° 8	20°10	20°30	28°33	25°11	24° 7	23°19	n.a.	M17
T 18	15 27 47	22°25'21	17°52	22° 5	6°41	17°47	17°24	2° 4	20°13	20°28	28°33	25° 4	24° 4	23°25	n.a.	T 18
W19	15 31 43	23°22'32	29°59	21°31	7°39	17°39	17°23	1°59	20°16	20°26	28°34	24°59	24° 1	23°32	n.a.	W19
T 20	15 35 40	24°19'41	11♌57	20°58	8°37	17°32	17°21	1°55	20°19	20°25	28°34	24°57	23°57	23°39	n.a.	T 20
F 21	15 39 36	25°16'50	23°47	20°27	9°36	17°26	17°19	1°51	20°22	20°23	28°34	24°D56	23°54	23°45	n.a.	F 21
S 22	15 43 33	26°13'58	5♍37	19°57	10°35	17°21	17°17	1°46	20°25	20°21	28°34	24°56	23°51	23°52	n.a.	S 22
S 23	15 47 29	27°11'06	17°31	19°30	11°35	17°16	17°14	1°42	20°28	20°20	28°35	24°57	23°48	23°59	n.a.	S 23
M24	15 51 26	28° 8'13	29°35	19° 6	12°35	17°12	17°12	1°38	20°31	20°18	28°35	24°R57	23°45	24° 5	n.a.	M24
T 25	15 55 23	29° 5'19	11♎53	18°45	13°35	17° 9	17° 9	1°33	20°33	20°17	28°35	24°56	23°42	24°12	n.a.	T 25
W26	15 59 19	0♊ 2'25	24°28	18°28	14°36	17° 7	17° 6	1°29	20°36	20°15	28°35	24°52	23°38	24°19	n.a.	W26
T 27	16 3 16	0°59'31	7♏24	18°14	15°37	17° 6	17° 3	1°25	20°39	20°13	28°35	24°46	23°35	24°25	n.a.	T 27
F 28	16 7 12	1°56'37	20°42	18° 5	16°38	17°D 5	17° 0	1°20	20°42	20°12	28°36	24°38	23°32	24°32	n.a.	F 28
S 29	16 11 9	2°53'42	4♐20	18°D 1	17°39	17° 6	16°56	1°16	20°45	20°10	28°36	24°28	23°29	24°39	n.a.	S 29
S 30	16 15 5	3°50'47	18°15	18° 1	18°41	17° 7	16°53	1°11	20°47	20° 9	28°36	24°17	23°26	24°45	n.a.	S 30
M31	16 19 2	4♊47'52	2♑24	18♉ 6	19♈43	17♎ 9	16♑49	1♐ 7	20♈50	20♏ 7	28♒36	24♍ 7	23♍22	24♌52	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13n44	14s59	4n25	20n50	1n24	4s19	0s57	8s30	0n 8	23s 2	0s29	19s29	1n35	7n10	0s31	16s32	1n43	26s46	15s41	1n29	2n 1	11n48		n.a.
S 2	14 3	17 8	4 55	20 43	1 12	4 5	1 3	8 26	0 5	23 2	0 29	19 28	1 35	7 11	0 31	16 32	1 43	26 46	15 41	1 32	2 3	11 47		n.a.
M 3	14 22	18 21	5 9	20 34	1 0	3 50	1 9	8 22	0 1	23 3	0 29	19 28	1 35	7 12	0 31	16 31	1 43	26 46	15 42	1 34	2 4	11 45		n.a.
T 4	14 41	18 30	5 5	20 23	0 46	3 35	1 15	8 18	0s 2	23 3	0 29	19 27	1 35	7 13	0 31	16 31	1 43	26 46	15 42	1 36	2 5	11 44		n.a.
W 5	14 59	17 31	4 42	20 10	0 32	3 19	1 20	8 14	0 5	23 3	0 30	19 26	1 35	7 15	0 31	16 30	1 43	26 46	15 42	1 38	2 6	11 42		n.a.
T 6	15 17	15 27	4 3	19 55	0 17	3 3	1 25	8 10	0 8	23 3	0 30	19 26	1 35	7 16	0 31	16 30	1 43	26 46	15 43	1 38	2 8	11 41		n.a.
F 7	15 35	12 28	3 8	19 39	0 2	2 46	1 30	8 7	0 11	23 3	0 30	19 25	1 35	7 17	0 31	16 29	1 43	26 46	15 43	1 38	2 9	11 39		n.a.
S 8	15 53	8 43	2 2	19 22	0s14	2 30	1 35	8 4	0 14	23 3	0 30	19 24	1 35	7 18	0 31	16 29	1 43	26 47	15 43	1 38	2 10	11 38		n.a.
S 9	16 10	4 28	0 49	19 3	0 30	2 12	1 39	8 1	0 18	23 3	0 30	19 23	1 35	7 20	0 31	16 29	1 43	26 47	15 44	1 38	2 12	11 36		n.a.
M10	16 28	0n 1	0s28	18 42	0 47	1 54	1 43	7 58	0 21	23 3	0 31	19 22	1 35	7 21	0 31	16 28	1 43	26 47	15 44	1 38	2 13	11 35		n.a.
T 11	16 44	4 30	1 42	18 21	1 4	1 36	1 48	7 55	0 24	23 4	0 31	19 22	1 35	7 22	0 31	16 28	1 43	26 47	15 45	1 38	2 14	11 33		n.a.
W12	17 1	8 41	2 49	17 59	1 21	1 18	1 52	7 53	0 27	23 4	0 31	19 21	1 35	7 23	0 31	16 27	1 43	26 47	15 45	1 40	2 15	11 32		n.a.
T 13	17 17	12 20	3 46	17 36	1 38	0 59	1 55	7 51	0 30	23 4	0 31	19 20	1 35	7 24	0 31	16 27	1 43	26 47	15 45	1 42	2 17	11 31		n.a.
F 14	17 34	15 16	4 28	17 12	1 55	0 40	1 59	7 49	0 33	23 5	0 32	19 19	1 35	7 26	0 31	16 26	1 43	26 48	15 46	1 45	2 18	11 29		n.a.
S 15	17 49	17 19	4 55	16 49	2 11	0 20	2 3	7 47	0 36	23 5	0 32	19 19	1 35	7 27	0 31	16 26	1 43	26 48	15 46	1 49	2 19	11 28		n.a.
S 16	18 5	18 26	5 5	16 25	2 27	0 0	2 6	7 46	0 38	23 5	0 32	19 18	1 35	7 28	0 31	16 26	1 43	26 48	15 46	1 53	2 20	11 26		n.a.
M17	18 20	18 35	5 1	16 2	2 42	0n20	2 9	7 45	0 41	23 6	0 32	19 17	1 35	7 29	0 31	16 25	1 43	26 48	15 47	1 56	2 22	11 25		n.a.
T 18	18 35	17 50	4 42	15 40	2 56	0 40	2 12	7 44	0 44	23 6	0 33	19 16	1 34	7 30	0 31	16 25	1 43	26 48	15 47	1 59	2 23	11 23		n.a.
W19	18 50	16 18	4 11	15 18	3 10	1 1	2 15	7 44	0 47	23 7	0 33	19 15	1 34	7 31	0 31	16 24	1 43	26 49	15 48	2 1	2 24	11 22		n.a.
T 20	19 4	14 3	3 29	14 58	3 22	1 21	2 17	7 43	0 49	23 7	0 33	19 14	1 34	7 33	0 31	16 24	1 43	26 49	15 48	2 2	2 26	11 20		n.a.
F 21	19 18	11 15	2 39	14 38	3 33	1 43	2 20	7 43	0 52	23 8	0 33	19 14	1 34	7 34	0 31	16 24	1 43	26 49	15 48	2 2	2 27	11 19		n.a.
S 22	19 32	7 59	1 42	14 21	3 43	2 4	2 22	7 44	0 55	23 8	0 33	19 13	1 34	7 35	0 31	16 23	1 43	26 49	15 49	2 2	2 28	11 17		n.a.
S 23	19 45	4 23	0 40	14 6	3 51	2 25	2 24	7 44	0 57	23 9	0 34	19 12	1 34	7 36	0 31	16 23	1 43	26 50	15 49	2 2	2 29	11 16		n.a.
M24	19 58	0 33	0n25	13 52	3 59	2 47	2 26	7 45	1 0	23 9	0 34	19 11	1 34	7 37	0 31	16 22	1 43	26 50	15 49	2 2	2 31	11 14		n.a.
T 25	20 11	3s23	1 29	13 41	4 5	3 9	2 28	7 46	1 2	23 10	0 34	19 10	1 34	7 38	0 31	16 22	1 43	26 50	15 50	2 2	2 32	11 13		n.a.
W26	20 23	7 15	2 31	13 32	4 9	3 31	2 30	7 47	1 5	23 10	0 34	19 10	1 34	7 39	0 31	16 21	1 43	26 50	15 50	2 4	2 33	11 11		n.a.
T 27	20 35	10 54	3 26	13 25	4 12	3 53	2 31	7 49	1 7	23 11	0 35	19 9	1 34	7 40	0 31	16 21	1 43	26 51	15 51	2 6	2 34	11 10		n.a.
F 28	20 47	14 5	4 12	13 21	4 14	4 16	2 33	7 51	1 9	23 12	0 35	19 8	1 34	7 41	0 31	16 21	1 43	26 51	15 51	2 9	2 36	11 8		n.a.
S 29	20 59	16 36	4 44	13 19	4 14	4 38	2 34	7 53	1 12	23 12	0 35	19 7	1 34	7 42	0 31	16 20	1 43	26 51	15 51	2 13	2 37	11 7		n.a.
S 30	21 10	18 12	5 1	13 20	4 14	5 1	2 35	7 56	1 14	23 13	0 35	19 6	1 34	7 43	0 31	16 20	1 43	26 52	15 52	2 18	2 38	11 5		n.a.
M31	21n20	18s42	4n59	13n23	4s12	5n23	2s36	7s59	1s16	23s14	0s36	19s 5	1n34	7n44	0s31	16s19	1n43	26s52	15s52	2n22	2n40	11n 4		n.a.

Julian Day Number = 1662007.5, Delta T = 03h25m13s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°18'48, Lahiri = - 6°11'47 Julian Calendar 1 May 163 BCE == Greg. Calendar 28 Apr. 163 BCE

The year -162 astronomical counting style corresponds to year 163 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 163 BCE
geocentric

JUNE 163 BCE (-162) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 22 58	5♊44'58	16♑41	18♉16	20♈45	17♎12	16°R45	1°R 3	20♈53	20°R 6	28♒36	23°R58	23♍19	24♌59	n.a.	T 1
W 2	16 26 55	6°42'03	1♒ 1	18°31	21°48	17°15	16♑41	0♐58	20°56	20♏ 4	28°R36	23♍52	23°16	25° 5	n.a.	W 2
T 3	16 30 52	7°39'09	15°19	18°50	22°50	17°20	16°36	0°54	20°58	20° 3	28°36	23°48	23°13	25°12	n.a.	T 3
F 4	16 34 48	8°36'15	29°33	19°15	23°53	17°25	16°32	0°50	21° 1	20° 1	28°36	23°46	23°10	25°19	n.a.	F 4
S 5	16 38 45	9°33'22	13♓41	19°45	24°57	17°31	16°27	0°45	21° 3	20° 0	28°36	23°D46	23° 7	25°25	n.a.	S 5
S 6	16 42 41	10°30'29	27°41	20°19	26° 0	17°38	16°22	0°41	21° 6	19°58	28°36	23°R46	23° 3	25°32	n.a.	S 6
M 7	16 46 38	11°27'36	11♈33	20°59	27° 4	17°45	16°17	0°37	21° 8	19°57	28°36	23°45	23° 0	25°39	n.a.	M 7
T 8	16 50 34	12°24'44	25°17	21°43	28° 8	17°53	16°12	0°32	21°11	19°55	28°35	23°42	22°57	25°45	n.a.	T 8
W 9	16 54 31	13°21'52	8♉52	22°32	29°12	18° 2	16° 7	0°28	21°13	19°54	28°35	23°37	22°54	25°52	n.a.	W 9
T 10	16 58 27	14°19'01	22°16	23°25	0♉16	18°12	16° 2	0°24	21°16	19°52	28°35	23°28	22°51	25°59	n.a.	T 10
F 11	17 2 24	15°16'10	5♊29	24°24	1°21	18°22	15°56	0°20	21°18	19°51	28°35	23°17	22°48	26° 5	n.a.	F 11
S 12	17 6 21	16°13'20	18°28	25°27	2°26	18°34	15°50	0°16	21°20	19°49	28°35	23° 5	22°44	26°12	n.a.	S 12
S 13	17 10 17	17°10'30	1♋12	26°34	3°31	18°46	15°44	0°11	21°23	19°48	28°35	22°52	22°41	26°19	n.a.	S 13
M14	17 14 14	18° 7'40	13°42	27°46	4°36	18°58	15°38	0° 7	21°25	19°47	28°34	22°40	22°38	26°25	n.a.	M14
T 15	17 18 10	19° 4'51	25°58	29° 2	5°41	19°11	15°32	0° 3	21°27	19°45	28°34	22°30	22°35	26°32	n.a.	T 15
W16	17 22 7	20° 2'02	8♌ 2	0♊23	6°47	19°25	15°26	29♏59	21°29	19°44	28°34	22°22	22°32	26°39	n.a.	W16
T 17	17 26 3	20°59'13	19°56	1°48	7°52	19°40	15°20	29°55	21°31	19°43	28°33	22°17	22°28	26°45	n.a.	T 17
F 18	17 30 0	21°56'24	1♍45	3°17	8°58	19°55	15°13	29°51	21°34	19°41	28°33	22°14	22°25	26°52	n.a.	F 18
S 19	17 33 57	22°53'36	13°34	4°50	10° 4	20°11	15° 7	29°48	21°36	19°40	28°33	22°13	22°22	26°58	n.a.	S 19
S 20	17 37 53	23°50'48	25°27	6°27	11°11	20°27	15° 0	29°44	21°38	19°39	28°32	22°13	22°19	27° 5	n.a.	S 20
M21	17 41 50	24°48'01	7♎30	8° 7	12°17	20°44	14°53	29°40	21°40	19°37	28°32	22°13	22°16	27°12	n.a.	M21
T 22	17 45 46	25°45'14	19°49	9°52	13°23	21° 2	14°46	29°36	21°41	19°36	28°31	22°11	22°13	27°18	n.a.	T 22
W23	17 49 43	26°42'27	2♏28	11°39	14°30	21°20	14°39	29°33	21°43	19°35	28°31	22° 8	22° 9	27°25	n.a.	W23
T 24	17 53 39	27°39'41	15°31	13°30	15°37	21°39	14°32	29°29	21°45	19°34	28°31	22° 1	22° 6	27°32	n.a.	T 24
F 25	17 57 36	28°36'55	28°59	15°24	16°44	21°59	14°25	29°25	21°47	19°33	28°30	21°53	22° 3	27°38	n.a.	F 25
S 26	18 1 32	29°34'10	12♐53	17°20	17°51	22°19	14°18	29°22	21°49	19°31	28°30	21°42	22° 0	27°45	n.a.	S 26
S 27	18 5 29	0♋31'26	27° 9	19°18	18°58	22°39	14°10	29°18	21°51	19°30	28°29	21°31	21°57	27°52	n.a.	S 27
M28	18 9 26	1°28'43	11♑42	21°19	20° 5	23° 0	14° 3	29°15	21°52	19°29	28°28	21°20	21°54	27°58	n.a.	M28
T 29	18 13 22	2°26'00	26°24	23°21	21°13	23°21	13°55	29°12	21°54	19°28	28°28	21°11	21°50	28° 5	n.a.	T 29
W30	18 17 19	3♋23'19	11♒ 8	25♊24	22♉21	23♎44	13♑48	29♏ 9	21♈55	19♏27	28♒27	21♍ 4	21♍47	28♌12	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n31	18s 2	4n39	13n29	4s 8	5n46	2s37	8s 2	1s18	23s14	0s36	19s 5	1n34	7n45	0s31	16s19	1n43	26s52	15s52	2n25	2n41	11n 2		n.a.
W 2	21 41	16 14	4 2	13 37	4 4	6 9	2 38	8 5	1 20	23 15	0 36	19 4	1 33	7 46	0 31	16 19	1 43	26 53	15 53	2 28	2 42	11 1		n.a.
T 3	21 50	13 25	3 9	13 48	3 59	6 32	2 38	8 9	1 22	23 16	0 36	19 3	1 33	7 47	0 31	16 18	1 43	26 53	15 53	2 29	2 43	10 59		n.a.
F 4	21 59	9 49	2 5	14 0	3 53	6 55	2 39	8 13	1 24	23 17	0 36	19 2	1 33	7 48	0 31	16 18	1 43	26 53	15 54	2 30	2 45	10 58		n.a.
S 5	22 8	5 40	0 53	14 15	3 46	7 18	2 39	8 17	1 26	23 18	0 37	19 1	1 33	7 49	0 31	16 17	1 43	26 54	15 54	2 30	2 46	10 56		n.a.
S 6	22 17	1 15	0s21	14 32	3 38	7 41	2 39	8 21	1 28	23 18	0 37	19 1	1 33	7 50	0 31	16 17	1 43	26 54	15 54	2 30	2 47	10 55		n.a.
M 7	22 25	3n12	1 33	14 51	3 29	8 4	2 39	8 26	1 30	23 19	0 37	19 0	1 33	7 51	0 31	16 17	1 43	26 54	15 55	2 30	2 48	10 53		n.a.
T 8	22 32	7 26	2 39	15 11	3 20	8 27	2 39	8 30	1 32	23 20	0 37	18 59	1 33	7 52	0 31	16 16	1 43	26 55	15 55	2 32	2 50	10 52		n.a.
W 9	22 40	11 14	3 35	15 33	3 10	8 50	2 39	8 36	1 34	23 21	0 38	18 58	1 33	7 53	0 31	16 16	1 43	26 55	15 55	2 34	2 51	10 50		n.a.
T 10	22 47	14 23	4 18	15 57	2 59	9 13	2 39	8 41	1 35	23 22	0 38	18 57	1 33	7 54	0 31	16 16	1 43	26 56	15 56	2 37	2 52	10 49		n.a.
F 11	22 53	16 46	4 46	16 22	2 48	9 36	2 39	8 46	1 37	23 23	0 38	18 57	1 33	7 55	0 31	16 15	1 43	26 56	15 56	2 42	2 54	10 47		n.a.
S 12	22 59	18 14	5 0	16 49	2 36	9 59	2 38	8 52	1 39	23 24	0 38	18 56	1 32	7 56	0 31	16 15	1 43	26 56	15 56	2 47	2 55	10 46		n.a.
S 13	23 5	18 45	4 57	17 16	2 24	10 22	2 38	8 58	1 40	23 25	0 38	18 55	1 32	7 57	0 31	16 15	1 43	26 57	15 57	2 52	2 56	10 44		n.a.
M14	23 10	18 20	4 41	17 45	2 12	10 44	2 37	9 5	1 42	23 25	0 39	18 54	1 32	7 57	0 32	16 14	1 42	26 57	15 57	2 56	2 57	10 43		n.a.
T 15	23 15	17 5	4 12	18 14	1 59	11 7	2 36	9 11	1 43	23 26	0 39	18 54	1 32	7 58	0 32	16 14	1 42	26 58	15 58	3 1	2 59	10 41		n.a.
W16	23 20	15 4	3 31	18 44	1 47	11 30	2 35	9 18	1 45	23 27	0 39	18 53	1 32	7 59	0 32	16 14	1 42	26 58	15 58	3 4	3 0	10 40		n.a.
T 17	23 24	12 26	2 42	19 14	1 34	11 52	2 34	9 25	1 46	23 28	0 39	18 52	1 32	8 0	0 32	16 13	1 42	26 59	15 58	3 6	3 1	10 38		n.a.
F 18	23 28	9 19	1 46	19 44	1 21	12 14	2 33	9 32	1 48	23 29	0 40	18 52	1 32	8 1	0 32	16 13	1 42	26 59	15 59	3 7	3 2	10 37		n.a.
S 19	23 31	5 50	0 46	20 14	1 8	12 36	2 32	9 39	1 49	23 30	0 40	18 51	1 31	8 1	0 32	16 13	1 42	26 59	15 59	3 7	3 4	10 35		n.a.
S 20	23 34	2 5	0n17	20 44	0 54	12 58	2 31	9 47	1 50	23 31	0 40	18 50	1 31	8 2	0 32	16 12	1 42	27 0	15 59	3 7	3 5	10 34		n.a.
M21	23 37	1s47	1 20	21 14	0 42	13 20	2 29	9 54	1 52	23 32	0 40	18 49	1 31	8 3	0 32	16 12	1 42	27 0	16 0	3 7	3 6	10 32		n.a.
T 22	23 39	5 40	2 21	21 43	0 29	13 41	2 28	10 2	1 53	23 33	0 40	18 49	1 31	8 4	0 32	16 12	1 42	27 1	16 0	3 8	3 7	10 30		n.a.
W23	23 40	9 24	3 16	22 10	0 16	14 3	2 26	10 10	1 54	23 34	0 41	18 48	1 31	8 4	0 32	16 11	1 42	27 1	16 0	3 10	3 9	10 29		n.a.
T 24	23 41	12 48	4 3	22 37	0 4	14 24	2 24	10 19	1 55	23 35	0 41	18 48	1 31	8 5	0 32	16 11	1 42	27 2	16 1	3 12	3 10	10 27		n.a.
F 25	23 42	15 39	4 38	23 2	0n 8	14 45	2 23	10 27	1 56	23 36	0 41	18 47	1 31	8 6	0 32	16 11	1 42	27 2	16 1	3 15	3 11	10 26		n.a.
S 26	23 43	17 41	4 58	23 25	0 19	15 5	2 21	10 36	1 57	23 37	0 41	18 46	1 30	8 6	0 32	16 11	1 42	27 3	16 1	3 20	3 13	10 24		n.a.
S 27	23 43	18 41	5 0	23 46	0 30	15 26	2 19	10 44	1 58	23 38	0 41	18 46	1 30	8 7	0 32	16 10	1 42	27 3	16 2	3 24	3 14	10 23		n.a.
M28	23 42	18 30	4 43	24 5	0 40	15 46	2 17	10 53	2 0	23 39	0 41	18 45	1 30	8 8	0 32	16 10	1 42	27 4	16 2	3 28	3 15	10 21		n.a.
T 29	23 41	17 4	4 7	24 22	0 50	16 6	2 15	11 2	2 1	23 40	0 42	18 45	1 30	8 8	0 32	16 10	1 42	27 4	16 2	3 32	3 16	10 20		n.a.
W30	23n40	14s31	3n14	24n36	0n59	16n25	2s13	11s11	2s 2	23s41	0s42	18s44	1n30	8n 9	0s32	16s10	1n42	27s 5	16s 3	3n35	3n18	10n18		n.a.

Julian Day Number = 1662038.5, Delta T = 03h25m12s
Ecliptic obliquity = 23°42'44, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°18'44, Lahiri = - 6°11'43 Julian Calendar 1 June 163 BCE == Greg. Calendar 29 May 163 BCE

The year -162 astronomical counting style corresponds to year 163 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 163 BCE
geocentric

JULY 163 BCE (-162) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 21 15	4♋20'39	25♒46	27♊29	23♉29	24♎ 6	13°R40	29°R 5	21♈57	19°R26	28°R27	21°R 0	21♍44	28♌18	n.a.	T 1
F 2	18 25 12	5°18'00	10♓14	29°34	24°36	24°29	13♑33	29♏ 2	21°59	19♏25	28♒26	20♍58	21°41	28°25	n.a.	F 2
S 3	18 29 8	6°15'22	24°29	1♋39	25°45	24°52	13°25	28°59	22° 0	19°24	28°25	20°D58	21°38	28°32	n.a.	S 3
S 4	18 33 5	7°12'45	8♈28	3°45	26°53	25°16	13°17	28°56	22° 1	19°23	28°25	20°R58	21°34	28°38	n.a.	S 4
M 5	18 37 1	8°10'10	22°12	5°50	28° 1	25°41	13°10	28°53	22° 3	19°22	28°24	20°57	21°31	28°45	n.a.	M 5
T 6	18 40 58	9° 7'37	5♉41	7°55	29°10	26° 6	13° 2	28°50	22° 4	19°21	28°23	20°54	21°28	28°52	n.a.	T 6
W 7	18 44 55	10° 5'04	18°58	9°59	0♊18	26°31	12°54	28°48	22° 5	19°20	28°23	20°49	21°25	28°58	n.a.	W 7
T 8	18 48 51	11° 2'33	2♊ 2	12° 3	1°27	26°57	12°46	28°45	22° 7	19°20	28°22	20°42	21°22	29° 5	n.a.	T 8
F 9	18 52 48	12° 0'04	14°53	14° 5	2°36	27°23	12°38	28°42	22° 8	19°19	28°21	20°32	21°19	29°12	n.a.	F 9
S 10	18 56 44	12°57'36	27°33	16° 6	3°45	27°49	12°31	28°40	22° 9	19°18	28°20	20°20	21°15	29°18	n.a.	S 10
S 11	19 0 41	13°55'09	10♋ 1	18° 6	4°54	28°16	12°23	28°37	22°10	19°17	28°20	20° 8	21°12	29°25	n.a.	S 11
M12	19 4 37	14°52'43	22°18	20° 5	6° 3	28°44	12°15	28°35	22°11	19°16	28°19	19°57	21° 9	29°32	n.a.	M12
T 13	19 8 34	15°50'19	4♌24	22° 3	7°12	29°12	12° 7	28°33	22°12	19°16	28°18	19°48	21° 6	29°38	n.a.	T 13
W14	19 12 30	16°47'56	16°22	23°59	8°22	29°40	11°59	28°31	22°13	19°15	28°17	19°40	21° 3	29°45	n.a.	W14
T 15	19 16 27	17°45'34	28°12	25°54	9°31	0♏ 8	11°52	28°28	22°14	19°14	28°16	19°36	21° 0	29°52	n.a.	T 15
F 16	19 20 24	18°43'13	9♍59	27°47	10°41	0°37	11°44	28°26	22°15	19°14	28°15	19°33	20°56	29°58	n.a.	F 16
S 17	19 24 20	19°40'54	21°46	29°39	11°51	1° 7	11°36	28°24	22°16	19°13	28°14	19°D33	20°53	0♍ 5	n.a.	S 17
S 18	19 28 17	20°38'35	3♎38	1♌30	13° 0	1°36	11°29	28°23	22°16	19°13	28°14	19°33	20°50	0°12	n.a.	S 18
M19	19 32 13	21°36'18	15°40	3°19	14°10	2° 6	11°21	28°21	22°17	19°12	28°13	19°R34	20°47	0°18	n.a.	M19
T 20	19 36 10	22°34'02	27°57	5° 7	15°20	2°37	11°13	28°19	22°18	19°11	28°12	19°34	20°44	0°25	n.a.	T 20
W21	19 40 6	23°31'47	10♏34	6°53	16°30	3° 7	11° 6	28°18	22°18	19°11	28°11	19°33	20°40	0°32	n.a.	W21
T 22	19 44 3	24°29'34	23°36	8°38	17°41	3°38	10°59	28°16	22°19	19°11	28°10	19°29	20°37	0°38	n.a.	T 22
F 23	19 47 59	25°27'22	7♐ 6	10°21	18°51	4°10	10°51	28°15	22°19	19°10	28° 9	19°24	20°34	0°45	n.a.	F 23
S 24	19 51 56	26°25'11	21° 5	12° 3	20° 1	4°41	10°44	28°13	22°20	19°10	28° 8	19°16	20°31	0°51	n.a.	S 24
S 25	19 55 53	27°23'02	5♑29	13°44	21°12	5°13	10°37	28°12	22°20	19° 9	28° 7	19° 8	20°28	0°58	n.a.	S 25
M26	19 59 49	28°20'54	20°15	15°23	22°22	5°46	10°30	28°11	22°21	19° 9	28° 6	19° 1	20°25	1° 5	n.a.	M26
T 27	20 3 46	29°18'48	5♒15	17° 1	23°33	6°18	10°23	28°10	22°21	19° 9	28° 5	18°54	20°21	1°11	n.a.	T 27
W28	20 7 42	0♌16'43	20°20	18°38	24°44	6°51	10°16	28° 9	22°21	19° 8	28° 4	18°49	20°18	1°18	n.a.	W28
T 29	20 11 39	1°14'41	5♓19	20°13	25°55	7°24	10° 9	28° 8	22°21	19° 8	28° 3	18°46	20°15	1°25	n.a.	T 29
F 30	20 15 35	2°12'40	20° 7	21°47	27° 6	7°57	10° 2	28° 7	22°21	19° 8	28° 2	18°D46	20°12	1°31	n.a.	F 30
S 31	20 19 32	3♌10'41	4♈36	23♌20	28♊17	8♏31	9♑56	28♏ 7	22♈22	19♏ 8	28♒ 1	18♍46	20♍ 9	1♍38	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23n38	11s 3	2n 9	24n48	1n 7	16n45	2s11	11s21	2s 2	23s42	0s42	18s44	1n30	8n 9	0s32	16s 9	1n42	27s 5	16s 3	3n37	3n19	10n17		n.a.
F 2	23 36	6 57	0 57	24 57	1 14	17 4	2 9	11 30	2 3	23 43	0 42	18 43	1 29	8 10	0 32	16 9	1 42	27 6	16 3	3 37	3 20	10 15		n.a.
S 3	23 34	2 30	0s19	25 3	1 21	17 22	2 6	11 40	2 4	23 44	0 42	18 42	1 29	8 10	0 32	16 9	1 42	27 6	16 4	3 37	3 21	10 13		n.a.
S 4	23 31	2n 0	1 32	25 6	1 27	17 40	2 4	11 49	2 5	23 45	0 43	18 42	1 29	8 11	0 32	16 9	1 42	27 7	16 4	3 37	3 23	10 12		n.a.
M 5	23 27	6 18	2 38	25 7	1 32	17 58	2 1	11 59	2 6	23 46	0 43	18 42	1 29	8 11	0 32	16 8	1 42	27 7	16 4	3 38	3 24	10 10		n.a.
T 6	23 24	10 12	3 34	25 5	1 37	18 16	1 59	12 9	2 7	23 47	0 43	18 41	1 29	8 12	0 32	16 8	1 42	27 8	16 5	3 39	3 25	10 9		n.a.
W 7	23 19	13 32	4 18	25 0	1 40	18 33	1 56	12 19	2 8	23 48	0 43	18 41	1 29	8 12	0 32	16 8	1 41	27 9	16 5	3 41	3 26	10 7		n.a.
T 8	23 15	16 7	4 47	24 52	1 43	18 50	1 54	12 29	2 8	23 48	0 43	18 40	1 28	8 13	0 32	16 8	1 41	27 9	16 5	3 44	3 28	10 6		n.a.
F 9	23 10	17 51	5 1	24 42	1 45	19 6	1 51	12 40	2 9	23 49	0 43	18 40	1 28	8 13	0 32	16 8	1 41	27 10	16 5	3 48	3 29	10 4		n.a.
S 10	23 4	18 41	5 0	24 30	1 47	19 22	1 48	12 50	2 10	23 50	0 43	18 39	1 28	8 14	0 32	16 8	1 41	27 10	16 6	3 52	3 30	10 2		n.a.
S 11	22 59	18 36	4 45	24 15	1 48	19 37	1 46	13 0	2 10	23 51	0 44	18 39	1 28	8 14	0 32	16 7	1 41	27 11	16 6	3 57	3 32	10 1		n.a.
M12	22 52	17 38	4 16	23 58	1 48	19 52	1 43	13 11	2 11	23 52	0 44	18 39	1 28	8 14	0 32	16 7	1 41	27 11	16 6	4 1	3 33	9 59		n.a.
T 13	22 46	15 52	3 37	23 39	1 48	20 7	1 40	13 22	2 12	23 53	0 44	18 38	1 28	8 15	0 32	16 7	1 41	27 12	16 6	4 5	3 34	9 58		n.a.
W14	22 39	13 27	2 48	23 18	1 46	20 21	1 37	13 32	2 12	23 54	0 44	18 38	1 27	8 15	0 32	16 7	1 41	27 12	16 7	4 8	3 35	9 56		n.a.
T 15	22 31	10 29	1 52	22 55	1 45	20 35	1 34	13 43	2 13	23 55	0 44	18 38	1 27	8 15	0 32	16 7	1 41	27 13	16 7	4 10	3 37	9 55		n.a.
F 16	22 23	7 8	0 51	22 31	1 43	20 48	1 31	13 54	2 13	23 55	0 44	18 38	1 27	8 16	0 32	16 7	1 41	27 14	16 7	4 11	3 38	9 53		n.a.
S 17	22 15	3 29	0n12	22 5	1 40	21 0	1 28	14 5	2 14	23 56	0 44	18 37	1 27	8 16	0 32	16 7	1 41	27 14	16 8	4 11	3 39	9 51		n.a.
S 18	22 6	0s19	1 15	21 38	1 37	21 12	1 25	14 16	2 14	23 57	0 45	18 37	1 27	8 16	0 32	16 7	1 41	27 15	16 8	4 11	3 40	9 50		n.a.
M19	21 57	4 9	2 16	21 9	1 34	21 24	1 22	14 27	2 15	23 58	0 45	18 37	1 26	8 16	0 32	16 6	1 41	27 15	16 8	4 11	3 42	9 48		n.a.
T 20	21 48	7 53	3 11	20 39	1 30	21 35	1 19	14 38	2 15	23 58	0 45	18 37	1 26	8 17	0 32	16 6	1 41	27 16	16 8	4 11	3 43	9 47		n.a.
W21	21 38	11 23	3 59	20 8	1 25	21 46	1 16	14 49	2 16	23 59	0 45	18 37	1 26	8 17	0 32	16 6	1 41	27 16	16 8	4 11	3 44	9 45		n.a.
T 22	21 28	14 25	4 37	19 36	1 20	21 55	1 13	15 0	2 16	24 0	0 45	18 36	1 26	8 17	0 32	16 6	1 41	27 17	16 9	4 13	3 45	9 44		n.a.
F 23	21 17	16 49	5 0	19 3	1 15	22 5	1 10	15 11	2 17	24 1	0 45	18 36	1 26	8 17	0 32	16 6	1 41	27 17	16 9	4 15	3 47	9 42		n.a.
S 24	21 7	18 18	5 7	18 29	1 10	22 14	1 7	15 23	2 17	24 1	0 45	18 36	1 25	8 17	0 32	16 6	1 41	27 18	16 9	4 18	3 48	9 40		n.a.
S 25	20 55	18 41	4 55	17 55	1 4	22 22	1 3	15 34	2 17	24 2	0 45	18 36	1 25	8 18	0 32	16 6	1 40	27 19	16 9	4 21	3 49	9 39		n.a.
M26	20 44	17 50	4 23	17 20	0 58	22 29	1 0	15 45	2 18	24 3	0 45	18 36	1 25	8 18	0 32	16 6	1 40	27 19	16 10	4 24	3 50	9 37		n.a.
T 27	20 32	15 44	3 33	16 44	0 52	22 36	0 57	15 56	2 18	24 3	0 45	18 36	1 25	8 18	0 32	16 6	1 40	27 20	16 10	4 26	3 52	9 36		n.a.
W28	20 19	12 33	2 27	16 7	0 45	22 43	0 54	16 8	2 18	24 4	0 46	18 36	1 25	8 18	0 32	16 6	1 40	27 20	16 10	4 28	3 53	9 34		n.a.
T 29	20 7	8 33	1 12	15 31	0 38	22 48	0 51	16 19	2 19	24 5	0 46	18 36	1 24	8 18	0 32	16 6	1 40	27 21	16 10	4 29	3 54	9 32		n.a.
F 30	19 54	4 4	0s 7	14 54	0 31	22 53	0 47	16 30	2 19	24 5	0 46	18 36	1 24	8 18	0 32	16 6	1 40	27 21	16 10	4 30	3 56	9 31		n.a.
S 31	19n40	0n33	1s25	14n16	0n24	22n58	0s44	16s42	2s19	24s 6	0s46	18s36	1n24	8n18	0s32	16s 6	1n40	27s22	16s10	4n29	3n57	9n29		n.a.

Julian Day Number = 1662068.5, Delta T = 03h25m11s
Ecliptic obliquity = 23°42'44, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°18'40, Lahiri = - 6°11'39 Julian Calendar 1 July 163 BCE == Greg. Calendar 28 June 163 BCE

The year -162 astronomical counting style corresponds to year 163 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 163 BCE
geocentric

AUGUST 163 BCE (-162) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 23 28	4♌ 8'44	18♈44	24♌51	29♊28	9♏ 5	9°R49	28°R 6	22♈22	19°R 8	27°R59	18♍48	20♍ 6	1♍45	n.a.	S 1
M 2	20 27 25	5° 6'49	2♉31	26°22	0♋39	9°39	9♉43	28♏ 6	22°R22	19♏ 8	27♒58	18°R48	20° 2	1°51	n.a.	M 2
T 3	20 31 22	6° 4'56	15°57	27°50	1°51	10°14	9°36	28° 5	22°22	19° 8	27°57	18°48	19°59	1°58	n.a.	T 3
W 4	20 35 18	7° 3'05	29° 5	29°18	3° 2	10°48	9°30	28° 5	22°21	19° 7	27°56	18°46	19°56	2° 5	n.a.	W 4
T 5	20 39 15	8° 1'17	11♊55	0♍44	4°14	11°23	9°24	28° 5	22°21	19°D 7	27°55	18°42	19°53	2°11	n.a.	T 5
F 6	20 43 11	8°59'31	24°31	2° 8	5°25	11°58	9°18	28°D 5	22°21	19° 7	27°54	18°36	19°50	2°18	n.a.	F 6
S 7	20 47 8	9°57'46	6♋55	3°32	6°37	12°34	9°13	28° 5	22°21	19° 8	27°53	18°30	19°46	2°25	n.a.	S 7
S 8	20 51 4	10°56'04	19° 8	4°54	7°49	13°10	9° 7	28° 5	22°21	19° 8	27°52	18°23	19°43	2°31	n.a.	S 8
M 9	20 55 1	11°54'23	1♌13	6°14	9° 1	13°45	9° 2	28° 5	22°20	19° 8	27°50	18°16	19°40	2°38	n.a.	M 9
T 10	20 58 57	12°52'45	13°10	7°33	10°13	14°22	8°56	28° 5	22°20	19° 8	27°49	18°11	19°37	2°45	n.a.	T 10
W11	21 2 54	13°51'09	25° 1	8°50	11°25	14°58	8°51	28° 6	22°19	19° 8	27°48	18° 7	19°34	2°51	n.a.	W11
T 12	21 6 51	14°49'34	6♍49	10° 6	12°37	15°35	8°46	28° 6	22°19	19° 8	27°47	18° 4	19°31	2°58	n.a.	T 12
F 13	21 10 47	15°48'01	18°35	11°20	13°49	16°11	8°41	28° 7	22°18	19° 9	27°46	18°D 4	19°27	3° 5	n.a.	F 13
S 14	21 14 44	16°46'30	0♎23	12°33	15° 1	16°48	8°37	28° 7	22°18	19° 9	27°45	18° 4	19°24	3°11	n.a.	S 14
S 15	21 18 40	17°45'01	12°16	13°43	16°14	17°26	8°32	28° 8	22°17	19° 9	27°43	18° 6	19°21	3°18	n.a.	S 15
M16	21 22 37	18°43'33	24°19	14°52	17°26	18° 3	8°28	28° 9	22°16	19°10	27°42	18° 8	19°18	3°24	n.a.	M16
T 17	21 26 33	19°42'08	6♏35	15°58	18°39	18°41	8°24	28°10	22°16	19°10	27°41	18° 9	19°15	3°31	n.a.	T 17
W18	21 30 30	20°40'44	19°10	17° 3	19°51	19°18	8°20	28°11	22°15	19°10	27°40	18°R10	19°11	3°38	n.a.	W18
T 19	21 34 26	21°39'22	2♐ 7	18° 5	21° 4	19°56	8°16	28°12	22°14	19°11	27°39	18° 9	19° 8	3°44	n.a.	T 19
F 20	21 38 23	22°38'02	15°31	19° 4	22°17	20°35	8°12	28°14	22°13	19°11	27°37	18° 8	19° 5	3°51	n.a.	F 20
S 21	21 42 19	23°36'43	29°22	20° 1	23°29	21°13	8° 9	28°15	22°12	19°12	27°36	18° 5	19° 2	3°58	n.a.	S 21
S 22	21 46 16	24°35'27	13♑42	20°55	24°42	21°52	8° 6	28°16	22°11	19°12	27°35	18° 2	18°59	4° 4	n.a.	S 22
M23	21 50 13	25°34'12	28°26	21°46	25°55	22°30	8° 3	28°18	22°10	19°13	27°34	17°59	18°56	4°11	n.a.	M23
T 24	21 54 9	26°32'59	13♒29	22°34	27° 8	23° 9	8° 0	28°20	22° 9	19°14	27°33	17°56	18°52	4°18	n.a.	T 24
W25	21 58 6	27°31'48	28°42	23°19	28°21	23°48	7°57	28°21	22° 8	19°14	27°31	17°54	18°49	4°24	n.a.	W25
T 26	22 2 2	28°30'39	13♓54	23°59	29°34	24°28	7°55	28°23	22° 7	19°15	27°30	17°D54	18°46	4°31	n.a.	T 26
F 27	22 5 59	29°29'33	28°58	24°35	0♌48	25° 7	7°52	28°25	22° 6	19°16	27°29	17°54	18°43	4°38	n.a.	F 27
S 28	22 9 55	0♍28'28	13♈44	25° 7	2° 1	25°46	7°50	28°27	22° 4	19°16	27°28	17°55	18°40	4°44	n.a.	S 28
S 29	22 13 52	1°27'26	28° 7	25°34	3°14	26°26	7°48	28°29	22° 3	19°17	27°27	17°56	18°37	4°51	n.a.	S 29
M30	22 17 48	2°26'27	12♉ 5	25°55	4°28	27° 6	7°47	28°31	22° 2	19°18	27°25	17°57	18°33	4°58	n.a.	M30
T 31	22 21 45	3♍25'29	25♉36	26♍11	5♌41	27♏46	7♑45	28♏34	22♈ 0	19♏19	27♒24	17♍58	18♍30	5♍ 4	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	19n26	5n 2	2s35	13n38	0n16	23n 2	0s41	16s53	2s19	24s 6	0s46	18s36	1n24	8n18	0s32	16s 6	1n40	27s23	16s11	4n29	3n58	9n28		n.a.	S 1
M 2	19 12	9 7	3 35	13 0	0 9	23 5	0 38	17 4	2 20	24 7	0 46	18 36	1 24	8 18	0 32	16 6	1 40	27 23	16 11	4 29	3 59	9 26		n.a.	M 2
T 3	18 58	12 38	4 21	12 22	0 1	23 8	0 34	17 16	2 20	24 7	0 46	18 36	1 23	8 18	0 32	16 6	1 40	27 24	16 11	4 29	4 1	9 24		n.a.	T 3
W 4	18 43	15 26	4 52	11 44	0s 7	23 9	0 31	17 27	2 20	24 8	0 46	18 36	1 23	8 18	0 32	16 6	1 40	27 24	16 11	4 30	4 2	9 23		n.a.	W 4
T 5	18 28	17 23	5 8	11 6	0 15	23 11	0 28	17 38	2 20	24 8	0 46	18 37	1 23	8 18	0 33	16 6	1 40	27 25	16 11	4 31	4 3	9 21		n.a.	T 5
F 6	18 13	18 28	5 9	10 28	0 24	23 11	0 25	17 49	2 20	24 9	0 46	18 37	1 23	8 18	0 33	16 6	1 40	27 25	16 11	4 33	4 4	9 20		n.a.	F 6
S 7	17 57	18 38	4 55	9 50	0 32	23 11	0 21	18 0	2 20	24 9	0 46	18 37	1 23	8 18	0 33	16 6	1 40	27 26	16 12	4 36	4 6	9 18		n.a.	S 7
S 8	17 41	17 55	4 27	9 12	0 40	23 10	0 18	18 12	2 20	24 10	0 46	18 37	1 22	8 17	0 33	16 6	1 40	27 26	16 12	4 39	4 7	9 16		n.a.	S 8
M 9	17 25	16 25	3 48	8 34	0 49	23 9	0 15	18 23	2 20	24 10	0 46	18 37	1 22	8 17	0 33	16 7	1 40	27 27	16 12	4 41	4 8	9 15		n.a.	M 9
T 10	17 8	14 12	2 59	7 57	0 57	23 7	0 12	18 34	2 20	24 11	0 46	18 38	1 22	8 17	0 33	16 7	1 39	27 27	16 12	4 44	4 9	9 13		n.a.	T 10
W11	16 51	11 24	2 3	7 20	1 6	23 4	0 9	18 45	2 21	24 11	0 46	18 38	1 22	8 17	0 33	16 7	1 39	27 28	16 12	4 45	4 11	9 11		n.a.	W11
T 12	16 34	8 10	1 1	6 43	1 15	23 1	0 6	18 56	2 21	24 11	0 46	18 38	1 22	8 17	0 33	16 7	1 39	27 28	16 12	4 46	4 12	9 10		n.a.	T 12
F 13	16 17	4 37	0n 3	6 7	1 23	22 57	0 3	19 7	2 21	24 12	0 46	18 39	1 21	8 16	0 33	16 7	1 39	27 29	16 12	4 46	4 13	9 8		n.a.	F 13
S 14	15 59	0 52	1 7	5 31	1 32	22 52	0n 0	19 17	2 21	24 12	0 47	18 39	1 21	8 16	0 33	16 7	1 39	27 30	16 12	4 46	4 14	9 7		n.a.	S 14
S 15	15 41	2s55	2 9	4 56	1 41	22 46	0 4	19 28	2 20	24 12	0 47	18 39	1 21	8 16	0 33	16 7	1 39	27 30	16 12	4 45	4 16	9 5		n.a.	S 15
M16	15 23	6 39	3 6	4 21	1 49	22 40	0 7	19 39	2 20	24 13	0 47	18 40	1 21	8 16	0 33	16 7	1 39	27 31	16 13	4 45	4 17	9 3		n.a.	M16
T 17	15 5	10 9	3 56	3 47	1 58	22 33	0 10	19 49	2 20	24 13	0 47	18 40	1 21	8 15	0 33	16 8	1 39	27 31	16 13	4 44	4 18	9 2		n.a.	T 17
W18	14 46	13 18	4 36	3 14	2 6	22 26	0 13	20 0	2 20	24 13	0 47	18 41	1 20	8 15	0 33	16 8	1 39	27 32	16 13	4 44	4 19	9 0		n.a.	W18
T 19	14 27	15 52	5 3	2 42	2 15	22 18	0 15	20 10	2 20	24 14	0 47	18 41	1 20	8 15	0 33	16 8	1 39	27 32	16 13	4 44	4 21	8 58		n.a.	T 19
F 20	14 8	17 42	5 15	2 11	2 23	22 9	0 18	20 21	2 20	24 14	0 47	18 42	1 20	8 14	0 33	16 8	1 39	27 33	16 13	4 45	4 22	8 57		n.a.	F 20
S 21	13 48	18 34	5 9	1 41	2 31	21 59	0 21	20 31	2 20	24 14	0 47	18 42	1 20	8 14	0 33	16 8	1 39	27 33	16 13	4 46	4 23	8 55		n.a.	S 21
S 22	13 28	18 17	4 44	1 12	2 39	21 49	0 24	20 41	2 20	24 14	0 47	18 43	1 20	8 14	0 33	16 9	1 39	27 34	16 13	4 47	4 25	8 54		n.a.	S 22
M23	13 9	16 47	4 0	0 45	2 47	21 39	0 27	20 51	2 20	24 14	0 47	18 43	1 19	8 13	0 33	16 9	1 39	27 34	16 13	4 48	4 26	8 52		n.a.	M23
T 24	12 48	14 7	2 59	0 19	2 54	21 27	0 30	21 1	2 20	24 15	0 47	18 44	1 19	8 13	0 33	16 9	1 39	27 34	16 13	4 49	4 27	8 50		n.a.	T 24
W25	12 28	10 26	1 44	0s 5	3 1	21 15	0 32	21 11	2 19	24 15	0 47	18 44	1 19	8 12	0 33	16 9	1 39	27 35	16 13	4 50	4 28	8 49		n.a.	W25
T 26	12 8	6 4	0 22	0 28	3 8	21 2	0 35	21 21	2 19	24 15	0 47	18 45	1 19	8 12	0 33	16 9	1 39	27 35	16 13	4 50	4 30	8 47		n.a.	T 26
F 27	11 47	1 21	1s 1	0 48	3 15	20 49	0 37	21 30	2 19	24 15	0 47	18 46	1 19	8 11	0 33	16 10	1 38	27 36	16 13	4 50	4 31	8 45		n.a.	F 27
S 28	11 26	3n21	2 18	1 6	3 20	20 35	0 40	21 40	2 19	24 15	0 47	18 46	1 18	8 11	0 33	16 10	1 38	27 36	16 13	4 50	4 32	8 44		n.a.	S 28
S 29	11 5	7 44	3 25	1 22	3 26	20 21	0 43	21 49	2 19	24 15	0 47	18 47	1 18	8 10	0 33	16 10	1 38	27 37	16 13	4 49	4 33	8 42		n.a.	S 29
M30	10 43	11 33	4 17	1 34	3 30	20 6	0 45	21 58	2 18	24 15	0 47	18 47	1 18	8 10	0 33	16 11	1 38	27 37	16 13	4 49	4 35	8 40		n.a.	M30
T 31	10n22	14n38	4s53	1s44	3s34	19n50	0n47	22s 8	2s18	24s16	0s47	18s48	1n18	8n 9	0s33	16s11	1n38	27s38	16s13	4n49	4n36	8n39		n.a.	T 31

Julian Day Number = 1662099.5, Delta T = 03h25m10s
Ecliptic obliquity = 23°42'44, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°18'35, Lahiri = - 6°11'35 Julian Calendar 1 Aug. 163 BCE == Greg. Calendar 29 July 163 BCE

The year -162 astronomical counting style corresponds to year 163 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 163 BCE
geocentric

SEPTEMBER 163 BCE (-162) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 25 42	4♍24'35	8♊44	26♍21	6♌55	28♏26	7°R44	28♏36	21°R59	19♏20	27°R23	17°R58	18♍27	5♍11	n.a.	W 1
T 2	22 29 38	5°23'43	21°31	26°R24	8° 8	29° 6	7♑43	28°39	21♈57	19°20	27♒22	17♍57	18°24	5°18	n.a.	T 2
F 3	22 33 35	6°22'53	3♋59	26°21	9°22	29°47	7°42	28°41	21°56	19°21	27°21	17°56	18°21	5°24	n.a.	F 3
S 4	22 37 31	7°22'05	16°13	26°10	10°36	0♐27	7°41	28°44	21°54	19°22	27°19	17°55	18°17	5°31	n.a.	S 4
S 5	22 41 28	8°21'20	28°16	25°51	11°49	1° 8	7°40	28°47	21°53	19°23	27°18	17°54	18°14	5°37	n.a.	S 5
M 6	22 45 24	9°20'37	10♌12	25°25	13° 3	1°49	7°40	28°49	21°51	19°24	27°17	17°52	18°11	5°44	n.a.	M 6
T 7	22 49 21	10°19'57	22° 2	24°50	14°17	2°30	7°D40	28°52	21°50	19°25	27°16	17°51	18° 8	5°51	n.a.	T 7
W 8	22 53 17	11°19'18	3♍49	24° 8	15°31	3°11	7°40	28°55	21°48	19°27	27°15	17°51	18° 5	5°57	n.a.	W 8
T 9	22 57 14	12°18'42	15°37	23°18	16°45	3°52	7°40	28°59	21°46	19°28	27°13	17°D50	18° 2	6° 4	n.a.	T 9
F 10	23 1 10	13°18'08	27°26	22°21	17°59	4°33	7°41	29° 2	21°44	19°29	27°12	17°50	17°58	6°11	n.a.	F 10
S 11	23 5 7	14°17'36	9♎20	21°18	19°13	5°15	7°41	29° 5	21°43	19°30	27°11	17°51	17°55	6°17	n.a.	S 11
S 12	23 9 4	15°17'06	21°20	20°10	20°28	5°57	7°42	29° 8	21°41	19°31	27°10	17°51	17°52	6°24	n.a.	S 12
M13	23 13 0	16°16'38	3♏29	18°59	21°42	6°38	7°43	29°12	21°39	19°32	27° 9	17°51	17°49	6°31	n.a.	M13
T 14	23 16 57	17°16'12	15°50	17°47	22°56	7°20	7°45	29°15	21°37	19°34	27° 8	17°51	17°46	6°37	n.a.	T 14
W15	23 20 53	18°15'47	28°27	16°35	24°10	8° 2	7°46	29°19	21°35	19°35	27° 7	17°R51	17°43	6°44	n.a.	W15
T 16	23 24 50	19°15'25	11♐22	15°25	25°25	8°44	7°48	29°23	21°33	19°36	27° 5	17°51	17°39	6°51	n.a.	T 16
F 17	23 28 46	20°15'05	24°39	14°20	26°39	9°26	7°49	29°27	21°31	19°38	27° 4	17°D51	17°36	6°57	n.a.	F 17
S 18	23 32 43	21°14'46	8♑20	13°22	27°54	10° 8	7°52	29°30	21°29	19°39	27° 3	17°51	17°33	7° 4	n.a.	S 18
S 19	23 36 39	22°14'29	22°25	12°31	29° 8	10°51	7°54	29°34	21°27	19°40	27° 2	17°52	17°30	7°11	n.a.	S 19
M20	23 40 36	23°14'14	6♒54	11°51	0♍23	11°33	7°56	29°38	21°25	19°42	27° 1	17°52	17°27	7°17	n.a.	M20
T 21	23 44 33	24°14'01	21°44	11°21	1°37	12°16	7°59	29°42	21°23	19°43	27° 0	17°53	17°23	7°24	n.a.	T 21
W22	23 48 29	25°13'50	6♓47	11° 1	2°52	12°58	8° 2	29°47	21°20	19°45	26°59	17°53	17°20	7°30	n.a.	W22
T 23	23 52 26	26°13'40	21°57	10°D54	4° 6	13°41	8° 5	29°51	21°18	19°46	26°58	17°R53	17°17	7°37	n.a.	T 23
F 24	23 56 22	27°13'33	7♈ 3	10°57	5°21	14°24	8° 8	29°55	21°16	19°48	26°57	17°53	17°14	7°44	n.a.	F 24
S 25	0 0 19	28°13'27	21°58	11°12	6°36	15° 7	8°11	29°59	21°14	19°49	26°56	17°52	17°11	7°50	n.a.	S 25
S 26	0 4 15	29°13'24	6♉32	11°36	7°51	15°50	8°15	0♐ 4	21°12	19°51	26°55	17°51	17° 8	7°57	n.a.	S 26
M27	0 8 12	0♎13'23	20°41	12°11	9° 5	16°33	8°19	0° 9	21° 9	19°52	26°54	17°49	17° 4	8° 4	n.a.	M27
T 28	0 12 8	1°13'25	4♊23	12°54	10°20	17°16	8°23	0°13	21° 7	19°54	26°53	17°48	17° 1	8°10	n.a.	T 28
W29	0 16 5	2°13'28	17°38	13°45	11°35	17°59	8°27	0°18	21° 5	19°56	26°52	17°47	16°58	8°17	n.a.	W29
T 30	0 20 1	3♎13'34	0♋28	14♍43	12♍50	18♐42	8♑31	0♐23	21♈ 2	19♏57	26♒51	17°D46	16♍55	8♍24	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	10n 0	16n51	5s13	1s51	3s37	19n33	0n50	22s16	2s18	24s16	0s47	18s49	1n18	8n 9	0s33	16s11	1n38	27s38	16s13	4n49	4n37	8n37		n.a.
T 2	9 38	18 10	5 17	1 54	3 40	19 17	0 52	22 25	2 17	24 16	0 47	18 50	1 17	8 8	0 33	16 11	1 38	27 38	16 13	4 49	4 38	8 35		n.a.
F 3	9 16	18 34	5 5	1 54	3 41	18 59	0 54	22 34	2 17	24 16	0 47	18 50	1 17	8 8	0 33	16 12	1 38	27 39	16 13	4 49	4 40	8 34		n.a.
S 4	8 54	18 5	4 39	1 49	3 40	18 41	0 56	22 42	2 17	24 16	0 47	18 51	1 17	8 7	0 33	16 12	1 38	27 39	16 13	4 50	4 41	8 32		n.a.
S 5	8 32	16 48	4 2	1 40	3 39	18 23	0 59	22 51	2 16	24 16	0 47	18 52	1 17	8 7	0 33	16 12	1 38	27 40	16 13	4 50	4 42	8 30		n.a.
M 6	8 9	14 46	3 14	1 27	3 36	18 3	1 1	22 59	2 16	24 16	0 47	18 53	1 17	8 6	0 33	16 13	1 38	27 40	16 13	4 51	4 43	8 29		n.a.
T 7	7 47	12 8	2 19	1 9	3 31	17 44	1 3	23 7	2 16	24 16	0 47	18 54	1 16	8 5	0 33	16 13	1 38	27 40	16 13	4 51	4 45	8 27		n.a.
W 8	7 24	9 1	1 17	0 46	3 24	17 24	1 5	23 15	2 15	24 16	0 47	18 54	1 16	8 5	0 33	16 13	1 38	27 41	16 13	4 51	4 46	8 25		n.a.
T 9	7 1	5 33	0 12	0 18	3 16	17 3	1 7	23 22	2 15	24 16	0 47	18 55	1 16	8 4	0 33	16 14	1 38	27 41	16 12	4 52	4 47	8 24		n.a.
F 10	6 38	1 51	0n53	0n14	3 6	16 42	1 8	23 30	2 15	24 16	0 47	18 56	1 16	8 3	0 33	16 14	1 38	27 41	16 12	4 52	4 48	8 22		n.a.
S 11	6 15	1s57	1 57	0 50	2 53	16 20	1 10	23 37	2 14	24 16	0 47	18 57	1 16	8 3	0 33	16 14	1 38	27 42	16 12	4 51	4 50	8 20		n.a.
S 12	5 52	5 42	2 56	1 30	2 39	15 58	1 12	23 44	2 14	24 16	0 47	18 58	1 15	8 2	0 33	16 15	1 38	27 42	16 12	4 51	4 51	8 19		n.a.
M13	5 28	9 15	3 48	2 13	2 23	15 35	1 13	23 51	2 13	24 15	0 46	18 59	1 15	8 1	0 33	16 15	1 37	27 42	16 12	4 51	4 52	8 17		n.a.
T 14	5 5	12 28	4 30	2 58	2 5	15 12	1 15	23 58	2 13	24 15	0 46	19 0	1 15	8 0	0 33	16 16	1 37	27 43	16 12	4 51	4 53	8 15		n.a.
W15	4 42	15 10	5 0	3 43	1 47	14 49	1 17	24 5	2 13	24 15	0 46	19 1	1 15	8 0	0 33	16 16	1 37	27 43	16 12	4 51	4 55	8 14		n.a.
T 16	4 18	17 11	5 16	4 29	1 27	14 25	1 18	24 11	2 12	24 15	0 46	19 2	1 15	7 59	0 33	16 16	1 37	27 43	16 12	4 51	4 56	8 12		n.a.
F 17	3 54	18 20	5 16	5 13	1 6	14 1	1 19	24 17	2 12	24 15	0 46	19 3	1 15	7 58	0 33	16 17	1 37	27 44	16 12	4 51	4 57	8 10		n.a.
S 18	3 31	18 29	4 58	5 55	0 46	13 36	1 21	24 23	2 11	24 15	0 46	19 4	1 14	7 57	0 33	16 17	1 37	27 44	16 11	4 51	4 58	8 9		n.a.
S 19	3 7	17 31	4 22	6 33	0 26	13 11	1 22	24 29	2 11	24 15	0 46	19 5	1 14	7 57	0 33	16 18	1 37	27 44	16 11	4 51	5 0	8 7		n.a.
M20	2 43	15 23	3 29	7 6	0 6	12 46	1 23	24 34	2 10	24 15	0 46	19 6	1 14	7 56	0 33	16 18	1 37	27 44	16 11	4 51	5 1	8 5		n.a.
T 21	2 19	12 13	2 21	7 35	0n13	12 20	1 24	24 40	2 10	24 14	0 46	19 7	1 14	7 55	0 33	16 19	1 37	27 45	16 11	4 51	5 2	8 4		n.a.
W22	1 55	8 10	1 1	7 59	0 30	11 53	1 25	24 45	2 9	24 14	0 46	19 8	1 14	7 54	0 33	16 19	1 37	27 45	16 11	4 50	5 3	8 2		n.a.
T 23	1 31	3 34	0s23	8 17	0 47	11 27	1 26	24 50	2 9	24 14	0 46	19 9	1 14	7 53	0 33	16 20	1 37	27 45	16 11	4 50	5 5	8 0		n.a.
F 24	1 7	1n14	1 45	8 29	1 1	11 0	1 27	24 54	2 8	24 14	0 46	19 10	1 13	7 52	0 33	16 20	1 37	27 45	16 11	4 51	5 6	7 59		n.a.
S 25	0 43	5 54	2 58	8 36	1 15	10 33	1 28	24 59	2 7	24 13	0 46	19 11	1 13	7 52	0 33	16 20	1 37	27 46	16 10	4 51	5 7	7 57		n.a.
S 26	0 19	10 6	3 59	8 37	1 26	10 5	1 28	25 3	2 7	24 13	0 46	19 12	1 13	7 51	0 33	16 21	1 37	27 46	16 10	4 51	5 8	7 55		n.a.
M27	0s 5	13 35	4 42	8 33	1 36	9 38	1 29	25 7	2 6	24 13	0 46	19 14	1 13	7 50	0 33	16 21	1 37	27 46	16 10	4 52	5 10	7 54		n.a.
T 28	0 30	16 12	5 9	8 24	1 45	9 10	1 30	25 11	2 6	24 13	0 46	19 15	1 13	7 49	0 33	16 22	1 37	27 46	16 10	4 53	5 11	7 52		n.a.
W29	0 54	17 52	5 17	8 11	1 52	8 41	1 30	25 14	2 5	24 12	0 46	19 16	1 13	7 48	0 33	16 22	1 37	27 46	16 10	4 53	5 12	7 50		n.a.
T 30	1s18	18n33	5s 9	7n53	1n57	8n13	1n31	25s18	2s 5	24s12	0s46	19s17	1n12	7n47	0s33	16s23	1n37	27s46	16s 9	4n53	5n13	7n48		n.a.

Julian Day Number = 1662130.5, Delta T = 03h25m09s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°18'31, Lahiri = - 6°11'31 Julian Calendar 1 Sept. 163 BCE == Greg. Calendar 29 Aug. 163 BCE

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ASTRODIENST EPHEMERIS for the year 163 BCE
geocentric

OCTOBER 163 BCE (-162) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 23 58	4♎13'42	12♋56	15♍47	14♍ 5	19♐26	8♑35	0♐28	21°R 0	19♏59	26°R50	17♍46	16♍52	8♍30	n.a.	F 1
S 2	0 27 55	5°13'52	25° 7	16°57	15°20	20° 9	8°40	0°32	20♈58	20° 1	26♒49	17°47	16°48	8°37	n.a.	S 2
S 3	0 31 51	6°14'05	7♌ 6	18°11	16°35	20°53	8°45	0°37	20°55	20° 3	26°48	17°49	16°45	8°44	n.a.	S 3
M 4	0 35 48	7°14'19	18°56	19°30	17°50	21°36	8°50	0°42	20°53	20° 4	26°47	17°50	16°42	8°50	n.a.	M 4
T 5	0 39 44	8°14'36	0♍43	20°52	19° 5	22°20	8°55	0°48	20°50	20° 6	26°47	17°52	16°39	8°57	n.a.	T 5
W 6	0 43 41	9°14'55	12°30	22°17	20°20	23° 4	9° 1	0°53	20°48	20° 8	26°46	17°R53	16°36	9° 4	n.a.	W 6
T 7	0 47 37	10°15'15	24°20	23°44	21°35	23°47	9° 6	0°58	20°46	20°10	26°45	17°53	16°33	9°10	n.a.	T 7
F 8	0 51 34	11°15'38	6♎16	25°13	22°51	24°31	9°12	1° 3	20°43	20°12	26°44	17°51	16°29	9°17	n.a.	F 8
S 9	0 55 30	12°16'02	18°20	26°44	24° 6	25°15	9°18	1° 9	20°41	20°13	26°43	17°49	16°26	9°23	n.a.	S 9
S 10	0 59 27	13°16'28	0♏32	28°16	25°21	25°59	9°24	1°14	20°38	20°15	26°43	17°45	16°23	9°30	n.a.	S 10
M11	1 3 24	14°16'56	12°56	29°49	26°36	26°43	9°30	1°19	20°36	20°17	26°42	17°41	16°20	9°37	n.a.	M11
T 12	1 7 20	15°17'25	25°31	1♐23	27°52	27°27	9°37	1°25	20°33	20°19	26°41	17°36	16°17	9°43	n.a.	T 12
W13	1 11 17	16°17'56	8♐19	2°58	29° 7	28°11	9°43	1°31	20°31	20°21	26°40	17°31	16°14	9°50	n.a.	W13
T 14	1 15 13	17°18'28	21°21	4°33	0♐22	28°55	9°50	1°36	20°28	20°23	26°40	17°28	16°10	9°57	n.a.	T 14
F 15	1 19 10	18°19'02	4♑39	6° 9	1°37	29°40	9°57	1°42	20°26	20°25	26°39	17°26	16° 7	10° 3	n.a.	F 15
S 16	1 23 6	19°19'38	18°14	7°44	2°53	0♑24	10° 4	1°48	20°23	20°27	26°38	17°D25	16° 4	10°10	n.a.	S 16
S 17	1 27 3	20°20'14	2♒ 6	9°20	4° 8	1° 8	10°11	1°53	20°21	20°29	26°38	17°25	16° 1	10°17	n.a.	S 17
M18	1 30 59	21°20'52	16°17	10°56	5°23	1°53	10°18	1°59	20°18	20°31	26°37	17°27	15°58	10°23	n.a.	M18
T 19	1 34 56	22°21'31	0♓44	12°32	6°39	2°37	10°26	2° 5	20°16	20°33	26°36	17°28	15°54	10°30	n.a.	T 19
W20	1 38 52	23°22'11	15°25	14° 8	7°54	3°22	10°34	2°11	20°13	20°35	26°36	17°R29	15°51	10°37	n.a.	W20
T 21	1 42 49	24°22'53	0♈15	15°44	9°10	4° 6	10°41	2°17	20°11	20°37	26°35	17°28	15°48	10°43	n.a.	T 21
F 22	1 46 46	25°23'35	15° 7	17°20	10°25	4°51	10°49	2°23	20° 8	20°39	26°35	17°26	15°45	10°50	n.a.	F 22
S 23	1 50 42	26°24'20	29°53	18°56	11°41	5°35	10°58	2°29	20° 6	20°41	26°34	17°21	15°42	10°57	n.a.	S 23
S 24	1 54 39	27°25'05	14♉25	20°31	12°56	6°20	11° 6	2°36	20° 3	20°44	26°34	17°16	15°39	11° 3	n.a.	S 24
M25	1 58 35	28°25'53	28°38	22° 7	14°11	7° 4	11°14	2°42	20° 1	20°46	26°33	17° 9	15°35	11°10	n.a.	M25
T 26	2 2 32	29°26'42	12♊25	23°42	15°27	7°49	11°23	2°48	19°58	20°48	26°33	17° 2	15°32	11°16	n.a.	T 26
W27	2 6 28	0♏27'32	25°46	25°17	16°42	8°34	11°31	2°54	19°56	20°50	26°32	16°56	15°29	11°23	n.a.	W27
T 28	2 10 25	1°28'24	8♋41	26°52	17°58	9°18	11°40	3° 1	19°53	20°52	26°32	16°51	15°26	11°30	n.a.	T 28
F 29	2 14 21	2°29'18	21°13	28°27	19°13	10° 3	11°49	3° 7	19°51	20°54	26°32	16°49	15°23	11°36	n.a.	F 29
S 30	2 18 18	3°30'12	3♌26	0♏ 2	20°29	10°48	11°58	3°13	19°49	20°56	26°31	16°D48	15°19	11°43	n.a.	S 30
S 31	2 22 15	4♏31'09	15♌25	1♏37	21♎44	11♑33	12♑ 8	3♐20	19♈46	20♏59	26♒31	16♍48	15♍16	11♍50	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	1s42	18n19	4s47	7n32	2n 2	7n44	1n31	25s21	2s 4	24s12	0s46	19s18	1n12	7n46	0s33	16s23	1n37	27s47	16s 9	4n53	5n15	7n47		n.a.
S 2	2 6	17 13	4 12	7 7	2 5	7 15	1 31	25 24	2 3	24 11	0 46	19 19	1 12	7 45	0 33	16 24	1 37	27 47	16 9	4 53	5 16	7 45		n.a.
S 3	2 30	15 22	3 27	6 40	2 7	6 45	1 32	25 26	2 3	24 11	0 46	19 21	1 12	7 45	0 33	16 24	1 36	27 47	16 9	4 52	5 17	7 43		n.a.
M 4	2 54	12 53	2 33	6 10	2 8	6 16	1 32	25 28	2 2	24 11	0 46	19 22	1 12	7 44	0 33	16 25	1 36	27 47	16 9	4 52	5 18	7 42		n.a.
T 5	3 18	9 53	1 33	5 37	2 8	5 46	1 32	25 30	2 1	24 10	0 46	19 23	1 12	7 43	0 33	16 25	1 36	27 47	16 8	4 51	5 20	7 40		n.a.
W 6	3 42	6 29	0 30	5 3	2 7	5 17	1 32	25 32	2 1	24 10	0 46	19 24	1 11	7 42	0 33	16 26	1 36	27 47	16 8	4 51	5 21	7 38		n.a.
T 7	4 6	2 49	0n36	4 26	2 6	4 47	1 32	25 34	2 0	24 9	0 46	19 25	1 11	7 41	0 33	16 26	1 36	27 47	16 8	4 51	5 22	7 37		n.a.
F 8	4 30	1s 0	1 40	3 49	2 4	4 16	1 32	25 35	1 59	24 9	0 46	19 27	1 11	7 40	0 33	16 27	1 36	27 47	16 8	4 51	5 23	7 35		n.a.
S 9	4 54	4 48	2 40	3 10	2 1	3 46	1 32	25 36	1 59	24 9	0 46	19 28	1 11	7 39	0 33	16 28	1 36	27 47	16 7	4 52	5 25	7 33		n.a.
S 10	5 18	8 27	3 34	2 30	1 58	3 16	1 31	25 37	1 58	24 8	0 46	19 29	1 11	7 38	0 33	16 28	1 36	27 47	16 7	4 54	5 26	7 31		n.a.
M11	5 42	11 48	4 18	1 49	1 54	2 45	1 31	25 38	1 57	24 8	0 46	19 30	1 11	7 37	0 33	16 29	1 36	27 47	16 7	4 55	5 27	7 30		n.a.
T 12	6 5	14 39	4 51	1 7	1 50	2 15	1 31	25 38	1 57	24 7	0 46	19 32	1 11	7 36	0 33	16 29	1 36	27 48	16 7	4 57	5 28	7 28		n.a.
W13	6 29	16 51	5 9	0 25	1 45	1 44	1 30	25 38	1 56	24 7	0 46	19 33	1 10	7 35	0 33	16 30	1 36	27 48	16 6	4 59	5 30	7 26		n.a.
T 14	6 52	18 14	5 13	0s18	1 41	1 13	1 30	25 38	1 55	24 6	0 46	19 34	1 10	7 34	0 33	16 30	1 36	27 48	16 6	5 0	5 31	7 25		n.a.
F 15	7 16	18 39	4 59	1 1	1 35	0 42	1 29	25 37	1 55	24 5	0 46	19 36	1 10	7 33	0 33	16 31	1 36	27 48	16 6	5 1	5 32	7 23		n.a.
S 16	7 39	18 0	4 29	1 44	1 30	0 11	1 28	25 37	1 54	24 5	0 45	19 37	1 10	7 32	0 33	16 31	1 36	27 48	16 5	5 2	5 33	7 21		n.a.
S 17	8 2	16 18	3 43	2 27	1 24	0s19	1 28	25 36	1 53	24 4	0 45	19 38	1 10	7 32	0 33	16 32	1 36	27 47	16 5	5 1	5 35	7 19		n.a.
M18	8 25	13 33	2 42	3 11	1 18	0 50	1 27	25 34	1 52	24 4	0 45	19 39	1 10	7 31	0 33	16 33	1 36	27 47	16 5	5 1	5 36	7 18		n.a.
T 19	8 48	9 56	1 30	3 54	1 12	1 21	1 26	25 33	1 52	24 3	0 45	19 41	1 10	7 30	0 33	16 33	1 36	27 47	16 5	5 0	5 37	7 16		n.a.
W20	9 11	5 38	0 11	4 37	1 6	1 52	1 25	25 31	1 51	24 2	0 45	19 42	1 9	7 29	0 33	16 34	1 36	27 47	16 4	5 0	5 38	7 14		n.a.
T 21	9 33	0 57	1s 9	5 21	1 0	2 23	1 24	25 29	1 50	24 2	0 45	19 43	1 9	7 28	0 33	16 34	1 36	27 47	16 4	5 0	5 40	7 12		n.a.
F 22	9 56	3n48	2 25	6 4	0 53	2 54	1 23	25 27	1 49	24 1	0 45	19 45	1 9	7 27	0 33	16 35	1 36	27 47	16 4	5 1	5 41	7 11		n.a.
S 23	10 18	8 17	3 30	6 46	0 47	3 25	1 22	25 24	1 49	24 0	0 45	19 46	1 9	7 26	0 33	16 35	1 36	27 47	16 3	5 3	5 42	7 9		n.a.
S 24	10 40	12 12	4 21	7 29	0 40	3 56	1 21	25 21	1 48	24 0	0 45	19 47	1 9	7 25	0 33	16 36	1 36	27 47	16 3	5 5	5 43	7 7		n.a.
M25	11 2	15 18	4 54	8 11	0 34	4 26	1 19	25 18	1 47	23 59	0 45	19 49	1 9	7 24	0 33	16 37	1 36	27 47	16 3	5 8	5 45	7 6		n.a.
T 26	11 24	17 26	5 9	8 53	0 27	4 57	1 18	25 15	1 46	23 58	0 45	19 50	1 9	7 23	0 33	16 37	1 36	27 47	16 3	5 11	5 46	7 4		n.a.
W27	11 46	18 33	5 6	9 35	0 20	5 27	1 17	25 11	1 45	23 57	0 45	19 51	1 9	7 22	0 33	16 38	1 36	27 47	16 2	5 13	5 47	7 2		n.a.
T 28	12 7	18 38	4 48	10 16	0 14	5 58	1 15	25 7	1 45	23 57	0 45	19 53	1 8	7 21	0 33	16 38	1 36	27 47	16 2	5 15	5 48	7 0		n.a.
F 29	12 28	17 48	4 16	10 56	0 7	6 28	1 14	25 3	1 44	23 56	0 45	19 54	1 8	7 20	0 33	16 39	1 36	27 46	16 2	5 16	5 50	6 59		n.a.
S 30	12 50	16 9	3 33	11 36	0 0	6 58	1 13	24 59	1 43	23 55	0 45	19 55	1 8	7 19	0 33	16 40	1 36	27 46	16 1	5 16	5 51	6 57		n.a.
S 31	13s10	13n49	2s42	12s16	0s 6	7s28	1n11	24s54	1s42	23s54	0s45	19s57	1n 8	7n19	0s33	16s40	1n36	27s46	16s 1	5n16	5n52	6n55		n.a.

Julian Day Number = 1662160.5, Delta T = 03h25m08s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°18'27, Lahiri = - 6°11'27 Julian Calendar 1 Oct. 163 BCE == Greg. Calendar 28 Sept. 163 BCE

The year -162 astronomical counting style corresponds to year 163 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 163 BCE
geocentric

NOVEMBER 163 BCE (-162) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 26 11	5♏32'07	27♌15	3♏12	23♎ 0	12♑17	12♑17	3♐26	19°R44	21♏ 1	26°R30	16♍50	15♍13	11♍56	n.a.	M 1
T 2	2 30 8	6°33'06	9♍ 1	4°46	24°16	13° 2	12°26	3°33	19♈41	21° 3	26♒30	16°51	15°10	12° 3	n.a.	T 2
W 3	2 34 4	7°34'06	20°49	6°20	25°31	13°47	12°36	3°39	19°39	21° 5	26°30	16°R51	15° 7	12°10	n.a.	W 3
T 4	2 38 1	8°35'08	2♎43	7°55	26°47	14°32	12°46	3°46	19°37	21° 7	26°30	16°50	15° 4	12°16	n.a.	T 4
F 5	2 41 57	9°36'11	14°46	9°29	28° 2	15°17	12°56	3°52	19°34	21°10	26°29	16°46	15° 0	12°23	n.a.	F 5
S 6	2 45 54	10°37'15	27° 1	11° 4	29°18	16° 2	13° 6	3°59	19°32	21°12	26°29	16°39	14°57	12°30	n.a.	S 6
S 7	2 49 50	11°38'20	9♏30	12°38	0♏33	16°47	13°16	4° 6	19°30	21°14	26°29	16°31	14°54	12°36	n.a.	S 7
M 8	2 53 47	12°39'26	22°12	14°12	1°49	17°32	13°26	4°12	19°28	21°16	26°29	16°20	14°51	12°43	n.a.	M 8
T 9	2 57 44	13°40'33	5♐ 8	15°47	3° 5	18°17	13°36	4°19	19°25	21°19	26°29	16° 9	14°48	12°49	n.a.	T 9
W10	3 1 40	14°41'41	18°17	17°21	4°20	19° 2	13°47	4°26	19°23	21°21	26°29	15°59	14°45	12°56	n.a.	W10
T 11	3 5 37	15°42'50	1♑38	18°55	5°36	19°47	13°57	4°33	19°21	21°23	26°29	15°50	14°41	13° 3	n.a.	T 11
F 12	3 9 33	16°43'59	15° 9	20°30	6°51	20°32	14° 8	4°39	19°19	21°25	26°29	15°43	14°38	13° 9	n.a.	F 12
S 13	3 13 30	17°45'08	28°50	22° 5	8° 7	21°17	14°19	4°46	19°17	21°28	26°28	15°39	14°35	13°16	n.a.	S 13
S 14	3 17 26	18°46'18	12♒41	23°39	9°23	22° 2	14°30	4°53	19°15	21°30	26°D28	15°38	14°32	13°23	n.a.	S 14
M15	3 21 23	19°47'28	26°41	25°14	10°38	22°47	14°41	5° 0	19°13	21°32	26°28	15°D38	14°29	13°29	n.a.	M15
T 16	3 25 20	20°48'39	10♓50	26°49	11°54	23°32	14°52	5° 7	19°11	21°34	26°29	15°R38	14°25	13°36	n.a.	T 16
W17	3 29 16	21°49'50	25° 7	28°24	13° 9	24°17	15° 3	5°14	19° 9	21°37	26°29	15°38	14°22	13°43	n.a.	W17
T 18	3 33 13	22°51'01	9♈30	29°59	14°25	25° 2	15°14	5°21	19° 7	21°39	26°29	15°36	14°19	13°49	n.a.	T 18
F 19	3 37 9	23°52'12	23°56	1♐34	15°40	25°47	15°25	5°28	19° 5	21°41	26°29	15°31	14°16	13°56	n.a.	F 19
S 20	3 41 6	24°53'24	8♉19	3° 9	16°56	26°32	15°37	5°35	19° 3	21°44	26°29	15°23	14°13	14° 3	n.a.	S 20
S 21	3 45 2	25°54'36	22°33	4°45	18°12	27°17	15°49	5°42	19° 1	21°46	26°29	15°13	14°10	14° 9	n.a.	S 21
M22	3 48 59	26°55'48	6♊33	6°20	19°27	28° 2	16° 0	5°49	18°59	21°48	26°29	15° 1	14° 6	14°16	n.a.	M22
T 23	3 52 55	27°57'01	20°14	7°56	20°43	28°47	16°12	5°56	18°57	21°50	26°29	14°48	14° 3	14°23	n.a.	T 23
W24	3 56 52	28°58'15	3♋33	9°31	21°58	29°32	16°24	6° 3	18°55	21°53	26°30	14°37	14° 0	14°29	n.a.	W24
T 25	4 0 49	29°59'28	16°28	11° 7	23°14	0♒17	16°36	6°10	18°54	21°55	26°30	14°28	13°57	14°36	n.a.	T 25
F 26	4 4 45	1♐ 0'43	29° 2	12°42	24°29	1° 2	16°48	6°17	18°52	21°57	26°30	14°21	13°54	14°42	n.a.	F 26
S 27	4 8 42	2° 1'57	11♌17	14°18	25°45	1°47	17° 0	6°24	18°50	21°59	26°31	14°17	13°51	14°49	n.a.	S 27
S 28	4 12 38	3° 3'12	23°17	15°53	27° 0	2°32	17°12	6°31	18°49	22° 2	26°31	14°15	13°47	14°56	n.a.	S 28
M29	4 16 35	4° 4'28	5♍ 8	17°28	28°16	3°17	17°24	6°38	18°47	22° 4	26°31	14°D15	13°44	15° 2	n.a.	M29
T 30	4 20 31	5♐ 5'43	16♍55	19♐ 3	29♏31	4♒ 2	17♑37	6♐45	18♈46	22♏ 6	26♒32	14°R15	13♍41	15♍ 9	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13s31	10n56	1s44	12s55	0s13	7s58	1n 9	24s49	1s41	23s53	0s45	19s58	1n 8	7n18	0s33	16s41	1n36	27s46	16s 1	5n15	5n53	6n53		n.a.
T 2	13 51	7 38	0 42	13 33	0 19	8 28	1 8	24 44	1 41	23 52	0 45	20 0	1 8	7 17	0 33	16 41	1 36	27 46	16 0	5 15	5 55	6 52		n.a.
W 3	14 12	4 0	0n21	14 11	0 26	8 57	1 6	24 39	1 40	23 51	0 45	20 1	1 8	7 16	0 33	16 42	1 35	27 45	16 0	5 15	5 56	6 50		n.a.
T 4	14 32	0 12	1 25	14 49	0 32	9 26	1 4	24 33	1 39	23 50	0 45	20 2	1 8	7 15	0 33	16 43	1 35	27 45	16 0	5 16	5 57	6 48		n.a.
F 5	14 51	3s40	2 25	15 25	0 38	9 55	1 3	24 27	1 38	23 49	0 45	20 4	1 8	7 14	0 33	16 43	1 35	27 45	15 59	5 17	5 58	6 46		n.a.
S 6	15 11	7 26	3 19	16 1	0 44	10 24	1 1	24 21	1 37	23 48	0 45	20 5	1 7	7 13	0 33	16 44	1 35	27 45	15 59	5 20	6 0	6 45		n.a.
S 7	15 30	10 58	4 4	16 36	0 50	10 53	0 59	24 14	1 36	23 47	0 45	20 6	1 7	7 12	0 33	16 44	1 35	27 45	15 59	5 23	6 1	6 43		n.a.
M 8	15 49	14 3	4 38	17 11	0 56	11 21	0 57	24 8	1 36	23 46	0 45	20 8	1 7	7 12	0 33	16 45	1 35	27 44	15 58	5 27	6 2	6 41		n.a.
T 9	16 7	16 30	4 59	17 44	1 2	11 49	0 55	24 1	1 35	23 45	0 45	20 9	1 7	7 11	0 33	16 46	1 35	27 44	15 58	5 31	6 3	6 39		n.a.
W10	16 26	18 8	5 4	18 17	1 8	12 17	0 53	23 54	1 34	23 44	0 45	20 10	1 7	7 10	0 33	16 46	1 35	27 44	15 58	5 35	6 4	6 38		n.a.
T 11	16 44	18 49	4 53	18 49	1 13	12 44	0 51	23 46	1 33	23 43	0 45	20 12	1 7	7 9	0 33	16 47	1 35	27 43	15 57	5 39	6 6	6 36		n.a.
F 12	17 2	18 26	4 26	19 20	1 19	13 11	0 49	23 39	1 32	23 42	0 45	20 13	1 7	7 8	0 33	16 47	1 35	27 43	15 57	5 42	6 7	6 34		n.a.
S 13	17 19	16 59	3 43	19 51	1 24	13 38	0 47	23 31	1 31	23 41	0 45	20 14	1 7	7 7	0 33	16 48	1 35	27 43	15 57	5 43	6 8	6 32		n.a.
S 14	17 36	14 32	2 46	20 20	1 29	14 4	0 45	23 22	1 30	23 39	0 45	20 16	1 7	7 7	0 33	16 49	1 35	27 43	15 56	5 44	6 9	6 31		n.a.
M15	17 53	11 12	1 39	20 48	1 34	14 30	0 43	23 14	1 30	23 38	0 45	20 17	1 7	7 6	0 33	16 49	1 35	27 42	15 56	5 44	6 11	6 29		n.a.
T 16	18 10	7 12	0 26	21 15	1 38	14 56	0 41	23 6	1 29	23 37	0 45	20 18	1 6	7 5	0 33	16 50	1 35	27 42	15 56	5 44	6 12	6 27		n.a.
W17	18 26	2 44	0s50	21 42	1 42	15 21	0 38	22 57	1 28	23 36	0 45	20 20	1 6	7 4	0 33	16 50	1 35	27 42	15 55	5 44	6 13	6 25		n.a.
T 18	18 42	1n55	2 4	22 7	1 47	15 46	0 36	22 48	1 27	23 34	0 45	20 21	1 6	7 4	0 33	16 51	1 35	27 41	15 55	5 45	6 14	6 24		n.a.
F 19	18 57	6 28	3 9	22 31	1 50	16 11	0 34	22 38	1 26	23 33	0 45	20 22	1 6	7 3	0 33	16 52	1 35	27 41	15 54	5 46	6 16	6 22		n.a.
S 20	19 12	10 37	4 2	22 53	1 54	16 35	0 32	22 29	1 25	23 32	0 45	20 24	1 6	7 2	0 33	16 52	1 35	27 40	15 54	5 50	6 17	6 20		n.a.
S 21	19 27	14 7	4 39	23 15	1 57	16 58	0 29	22 19	1 24	23 30	0 45	20 25	1 6	7 2	0 33	16 53	1 35	27 40	15 54	5 54	6 18	6 18		n.a.
M22	19 42	16 45	4 59	23 35	2 0	17 22	0 27	22 9	1 24	23 29	0 45	20 26	1 6	7 1	0 33	16 53	1 35	27 40	15 53	5 58	6 19	6 16		n.a.
T 23	19 56	18 21	5 1	23 54	2 3	17 44	0 25	21 59	1 23	23 28	0 45	20 28	1 6	7 0	0 33	16 54	1 35	27 39	15 53	6 3	6 21	6 15		n.a.
W24	20 9	18 54	4 46	24 11	2 5	18 6	0 22	21 49	1 22	23 26	0 45	20 29	1 6	7 0	0 33	16 55	1 35	27 39	15 53	6 7	6 22	6 13		n.a.
T 25	20 23	18 26	4 17	24 27	2 7	18 28	0 20	21 38	1 21	23 25	0 45	20 30	1 6	6 59	0 33	16 55	1 35	27 38	15 52	6 11	6 23	6 11		n.a.
F 26	20 36	17 4	3 36	24 42	2 8	18 49	0 18	21 27	1 20	23 23	0 45	20 31	1 6	6 58	0 33	16 56	1 35	27 38	15 52	6 14	6 24	6 9		n.a.
S 27	20 48	14 56	2 46	24 55	2 9	19 10	0 15	21 16	1 19	23 22	0 45	20 33	1 6	6 58	0 32	16 56	1 35	27 38	15 52	6 15	6 26	6 8		n.a.
S 28	21 0	12 12	1 49	25 7	2 10	19 30	0 13	21 5	1 18	23 20	0 45	20 34	1 6	6 57	0 32	16 57	1 35	27 37	15 51	6 16	6 27	6 6		n.a.
M29	21 12	8 59	0 48	25 16	2 10	19 50	0 11	20 54	1 17	23 18	0 45	20 35	1 5	6 57	0 32	16 57	1 35	27 37	15 51	6 16	6 28	6 4		n.a.
T 30	21s24	5n26	0n14	25s25	2s10	20s 9	0n 8	20s42	1s16	23s17	0s45	20s37	1n 5	6n56	0s32	16s58	1n35	27s36	15s51	6n16	6n29	6n 2		n.a.

Julian Day Number = 1662191.5, Delta T = 03h25m07s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°18'23, Lahiri = - 6°11'22 Julian Calendar 1 Nov. 163 BCE == Greg. Calendar 29 Oct. 163 BCE

The year -162 astronomical counting style corresponds to year 163 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 163 BCE
geocentric

DECEMBER 163 BCE (-162) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 24 28	6♐ 6'59	28♍44	20♐37	0♐47	4♒47	17♉49	6♐52	18°R44	22♏ 8	26♒32	14°R14	13♍38	15♍16	n.a.	W 1
T 2	4 28 24	7° 8'16	10♎40	22°11	2° 3	5°32	18° 2	6°59	18♈43	22°10	26°32	14♍11	13°35	15°22	n.a.	T 2
F 3	4 32 21	8° 9'32	22°48	23°44	3°18	6°17	18°14	7° 6	18°41	22°13	26°33	14° 6	13°31	15°29	n.a.	F 3
S 4	4 36 18	9°10'49	5♏12	25°16	4°34	7° 2	18°27	7°13	18°40	22°15	26°33	13°58	13°28	15°36	n.a.	S 4
S 5	4 40 14	10°12'05	17°54	26°46	5°49	7°47	18°40	7°20	18°39	22°17	26°34	13°47	13°25	15°42	n.a.	S 5
M 6	4 44 11	11°13'22	0♐54	28°15	7° 5	8°32	18°52	7°27	18°38	22°19	26°34	13°35	13°22	15°49	n.a.	M 6
T 7	4 48 7	12°14'39	14°12	29°42	8°20	9°17	19° 5	7°34	18°36	22°21	26°35	13°21	13°19	15°56	n.a.	T 7
W 8	4 52 4	13°15'55	27°47	1♑ 7	9°36	10° 2	19°18	7°41	18°35	22°24	26°36	13° 8	13°16	16° 2	n.a.	W 8
T 9	4 56 0	14°17'11	11♑33	2°30	10°51	10°47	19°31	7°48	18°34	22°26	26°36	12°56	13°12	16° 9	n.a.	T 9
F 10	4 59 57	15°18'26	25°29	3°49	12° 7	11°32	19°44	7°55	18°33	22°28	26°37	12°47	13° 9	16°15	n.a.	F 10
S 11	5 3 53	16°19'41	9♒30	5° 4	13°22	12°17	19°58	8° 2	18°32	22°30	26°37	12°41	13° 6	16°22	n.a.	S 11
S 12	5 7 50	17°20'55	23°34	6°15	14°38	13° 2	20°11	8° 9	18°31	22°32	26°38	12°38	13° 3	16°29	n.a.	S 12
M13	5 11 47	18°22'09	7♓38	7°21	15°53	13°47	20°24	8°16	18°30	22°34	26°39	12°37	13° 0	16°35	n.a.	M13
T 14	5 15 43	19°23'21	21°43	8°21	17° 8	14°31	20°37	8°23	18°29	22°36	26°39	12°37	12°57	16°42	n.a.	T 14
W15	5 19 40	20°24'33	5♈47	9°15	18°24	15°16	20°51	8°30	18°28	22°38	26°40	12°37	12°53	16°49	n.a.	W15
T 16	5 23 36	21°25'44	19°49	10° 0	19°39	16° 1	21° 4	8°37	18°28	22°40	26°41	12°34	12°50	16°55	n.a.	T 16
F 17	5 27 33	22°26'54	3♉49	10°38	20°55	16°46	21°18	8°44	18°27	22°42	26°42	12°29	12°47	17° 2	n.a.	F 17
S 18	5 31 29	23°28'03	17°43	11° 5	22°10	17°30	21°31	8°51	18°26	22°44	26°42	12°21	12°44	17° 9	n.a.	S 18
S 19	5 35 26	24°29'12	1♊30	11°23	23°25	18°15	21°45	8°58	18°26	22°46	26°43	12°10	12°41	17°15	n.a.	S 19
M20	5 39 23	25°30'19	15° 6	11°R30	24°41	19° 0	21°58	9° 5	18°25	22°48	26°44	11°58	12°37	17°22	n.a.	M20
T 21	5 43 19	26°31'26	28°28	11°26	25°56	19°44	22°12	9°11	18°24	22°50	26°45	11°45	12°34	17°29	n.a.	T 21
W22	5 47 16	27°32'32	11♋33	11° 9	27°12	20°29	22°26	9°18	18°24	22°52	26°46	11°33	12°31	17°35	n.a.	W22
T 23	5 51 12	28°33'37	24°19	10°42	28°27	21°14	22°39	9°25	18°24	22°54	26°47	11°22	12°28	17°42	n.a.	T 23
F 24	5 55 9	29°34'42	6♌48	10° 3	29°42	21°58	22°53	9°32	18°23	22°56	26°48	11°14	12°25	17°49	n.a.	F 24
S 25	5 59 5	0♑35'46	19° 1	9°14	0♑58	22°43	23° 7	9°39	18°23	22°58	26°49	11°10	12°22	17°55	n.a.	S 25
S 26	6 3 2	1°36'49	1♍ 2	8°15	2°13	23°27	23°21	9°45	18°23	23° 0	26°49	11° 7	12°18	18° 2	n.a.	S 26
M27	6 6 58	2°37'51	12°53	7°10	3°28	24°12	23°35	9°52	18°22	23° 2	26°50	11°D 7	12°15	18° 8	n.a.	M27
T 28	6 10 55	3°38'52	24°40	5°59	4°43	24°56	23°49	9°59	18°22	23° 4	26°51	11° 7	12°12	18°15	n.a.	T 28
W29	6 14 52	4°39'53	6♎29	4°44	5°59	25°40	24° 3	10° 5	18°22	23° 6	26°52	11°R 7	12° 9	18°22	n.a.	W29
T 30	6 18 48	5°40'53	18°26	3°29	7°14	26°25	24°17	10°12	18°22	23° 7	26°53	11° 6	12° 6	18°28	n.a.	T 30
F 31	6 22 45	6♑41'52	0♏35	2♑15	8♑29	27♒ 9	24♑31	10♐18	18°D22	23♏ 9	26♒54	11♍ 3	12♍ 3	18♍35	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
W 1	21s34	1n40	1n16	25s31	2s 9	20s27	0n 6	20s30	1s16	23s15	0s45	20s38	1n 5	6n55	0s32	16s59	1n35	27s36	15s50	6n16	6n30	6n 0		n.a.	W 1
T 2	21 45	2s12	2 15	25 36	2 7	20 45	0 3	20 18	1 15	23 13	0 45	20 39	1 5	6 55	0 32	16 59	1 35	27 35	15 50	6 17	6 32	5 59		n.a.	T 2
F 3	21 55	6 3	3 9	25 39	2 5	21 2	0 1	20 6	1 14	23 12	0 45	20 40	1 5	6 54	0 32	17 0	1 35	27 35	15 50	6 19	6 33	5 57		n.a.	F 3
S 4	22 5	9 43	3 55	25 40	2 2	21 19	0s 1	19 54	1 13	23 10	0 45	20 42	1 5	6 54	0 32	17 0	1 35	27 34	15 49	6 23	6 34	5 55		n.a.	S 4
S 5	22 14	13 2	4 31	25 39	1 59	21 35	0 4	19 41	1 12	23 8	0 45	20 43	1 5	6 53	0 32	17 1	1 35	27 34	15 49	6 27	6 35	5 53		n.a.	S 5
M 6	22 23	15 48	4 53	25 36	1 54	21 50	0 6	19 29	1 11	23 6	0 45	20 44	1 5	6 53	0 32	17 1	1 35	27 33	15 49	6 32	6 37	5 52		n.a.	M 6
T 7	22 31	17 48	5 0	25 32	1 49	22 5	0 9	19 16	1 10	23 5	0 45	20 45	1 5	6 53	0 32	17 2	1 35	27 33	15 48	6 37	6 38	5 50		n.a.	T 7
W 8	22 39	18 51	4 51	25 26	1 43	22 19	0 11	19 3	1 9	23 3	0 45	20 46	1 5	6 52	0 32	17 2	1 35	27 32	15 48	6 42	6 39	5 48		n.a.	W 8
T 9	22 46	18 49	4 24	25 18	1 37	22 33	0 13	18 49	1 8	23 1	0 45	20 48	1 5	6 52	0 32	17 3	1 35	27 32	15 48	6 47	6 40	5 46		n.a.	T 9
F 10	22 54	17 39	3 42	25 8	1 29	22 46	0 16	18 36	1 8	22 59	0 45	20 49	1 5	6 51	0 32	17 4	1 35	27 31	15 47	6 50	6 42	5 44		n.a.	F 10
S 11	23 0	15 25	2 46	24 57	1 20	22 58	0 18	18 22	1 7	22 57	0 45	20 50	1 5	6 51	0 32	17 4	1 35	27 31	15 47	6 52	6 43	5 43		n.a.	S 11
S 12	23 6	12 16	1 39	24 44	1 10	23 9	0 20	18 9	1 6	22 55	0 45	20 51	1 5	6 51	0 32	17 5	1 35	27 30	15 47	6 54	6 44	5 41		n.a.	S 12
M13	23 12	8 24	0 26	24 29	0 59	23 20	0 23	17 55	1 5	22 53	0 45	20 52	1 5	6 50	0 32	17 5	1 35	27 30	15 46	6 54	6 45	5 39		n.a.	M13
T 14	23 17	4 3	0s48	24 14	0 47	23 30	0 25	17 41	1 4	22 51	0 45	20 53	1 5	6 50	0 32	17 6	1 35	27 29	15 46	6 54	6 46	5 37		n.a.	T 14
W15	23 22	0n30	1 59	23 57	0 34	23 39	0 27	17 27	1 3	22 49	0 45	20 55	1 5	6 50	0 32	17 6	1 35	27 29	15 46	6 54	6 48	5 35		n.a.	W15
T 16	23 26	5 1	3 3	23 39	0 20	23 47	0 29	17 12	1 2	22 47	0 45	20 56	1 4	6 49	0 32	17 7	1 36	27 28	15 45	6 55	6 49	5 34		n.a.	T 16
F 17	23 30	9 14	3 56	23 21	0 4	23 55	0 32	16 58	1 1	22 45	0 45	20 57	1 4	6 49	0 32	17 7	1 36	27 27	15 45	6 57	6 50	5 32		n.a.	F 17
S 18	23 33	12 56	4 34	23 3	0n12	24 2	0 34	16 43	1 0	22 43	0 45	20 58	1 4	6 49	0 32	17 8	1 36	27 27	15 45	7 0	6 51	5 30		n.a.	S 18
S 19	23 36	15 52	4 56	22 44	0 29	24 9	0 36	16 28	1 0	22 41	0 45	20 59	1 4	6 49	0 32	17 8	1 36	27 26	15 45	7 4	6 53	5 28		n.a.	S 19
M20	23 38	17 53	5 1	22 26	0 47	24 14	0 38	16 14	0 59	22 38	0 45	21 0	1 4	6 49	0 32	17 9	1 36	27 26	15 44	7 9	6 54	5 26		n.a.	M20
T 21	23 40	18 54	4 49	22 7	1 6	24 19	0 40	15 59	0 58	22 36	0 45	21 1	1 4	6 48	0 32	17 9	1 36	27 25	15 44	7 14	6 55	5 24		n.a.	T 21
W22	23 41	18 52	4 21	21 50	1 25	24 23	0 42	15 43	0 57	22 34	0 45	21 2	1 4	6 48	0 32	17 10	1 36	27 25	15 44	7 19	6 56	5 23		n.a.	W22
T 23	23 42	17 52	3 42	21 33	1 43	24 26	0 44	15 28	0 56	22 32	0 45	21 3	1 4	6 48	0 32	17 10	1 36	27 24	15 43	7 23	6 58	5 21		n.a.	T 23
F 24	23 43	16 1	2 52	21 18	2 2	24 29	0 46	15 13	0 55	22 30	0 45	21 5	1 4	6 48	0 32	17 11	1 36	27 23	15 43	7 26	6 59	5 19		n.a.	F 24
S 25	23 43	13 28	1 55	21 4	2 20	24 31	0 48	14 57	0 54	22 27	0 45	21 6	1 4	6 48	0 32	17 11	1 36	27 23	15 43	7 28	7 0	5 17		n.a.	S 25
S 26	23 42	10 24	0 54	20 51	2 37	24 32	0 50	14 42	0 53	22 25	0 46	21 7	1 4	6 48	0 32	17 11	1 36	27 22	15 43	7 29	7 1	5 15		n.a.	S 26
M27	23 41	6 57	0n 9	20 39	2 52	24 32	0 52	14 26	0 52	22 22	0 46	21 8	1 4	6 48	0 32	17 12	1 36	27 22	15 42	7 29	7 2	5 14		n.a.	M27
T 28	23 40	3 14	1 12	20 29	3 6	24 32	0 54	14 10	0 52	22 20	0 46	21 9	1 4	6 48	0 32	17 12	1 36	27 21	15 42	7 29	7 4	5 12		n.a.	T 28
W29	23 38	0s36	2 11	20 21	3 17	24 30	0 56	13 54	0 51	22 18	0 46	21 10	1 4	6 48	0 31	17 13	1 36	27 20	15 42	7 29	7 5	5 10		n.a.	W29
T 30	23 35	4 27	3 5	20 14	3 26	24 28	0 58	13 38	0 50	22 15	0 46	21 11	1 4	6 48	0 31	17 13	1 36	27 20	15 41	7 29	7 6	5 8		n.a.	T 30
F 31	23s32	8s11	3n52	20s 9	3n33	24s25	0s59	13s22	0s49	22s13	0s46	21s12	1n 4	6n48	0s31	17s14	1n36	27s19	15s41	7n30	7n 7	5n 6		n.a.	F 31

Julian Day Number = 1662221.5, Delta T = 03h25m06s
Ecliptic obliquity = 23°42'44, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°18'19, Lahiri = - 6°11'18 Julian Calendar 1 Dec. 163 BCE == Greg. Calendar 28 Nov. 163 BCE

The year -162 astronomical counting style corresponds to year 163 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 162 BCE
geocentric

JANUARY 162 BCE (-161) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 26 41	7♑42'50	13♏ 1	1°R 4	9♑45	27♒54	24♑45	10♐25	18♈22	23♏11	26♒56	10°R58	11♍59	18♍42	n.a.	S 1
S 2	6 30 38	8°43'47	25°48	29♐58	11° 0	28°38	24°59	10°31	18°22	23°13	26°57	10♍50	11°56	18°48	n.a.	S 2
M 3	6 34 34	9°44'43	8♐58	28°58	12°15	29°22	25°13	10°38	18°22	23°14	26°58	10°41	11°53	18°55	n.a.	M 3
T 4	6 38 31	10°45'39	22°31	28° 5	13°30	0♓ 6	25°27	10°44	18°23	23°16	26°59	10°30	11°50	19° 2	n.a.	T 4
W 5	6 42 27	11°46'33	6♑26	27°21	14°45	0°51	25°41	10°51	18°23	23°18	27° 0	10°20	11°47	19° 8	n.a.	W 5
T 6	6 46 24	12°47'25	20°37	26°44	16° 1	1°35	25°56	10°57	18°23	23°19	27° 1	10°11	11°43	19°15	n.a.	T 6
F 7	6 50 21	13°48'17	5♒ 0	26°16	17°16	2°19	26°10	11° 3	18°23	23°21	27° 2	10° 4	11°40	19°22	n.a.	F 7
S 8	6 54 17	14°49'07	19°29	25°57	18°31	3° 3	26°24	11°10	18°24	23°23	27° 3	9°59	11°37	19°28	n.a.	S 8
S 9	6 58 14	15°49'55	3♓57	25°45	19°46	3°47	26°38	11°16	18°24	23°24	27° 5	9°D58	11°34	19°35	n.a.	S 9
M10	7 2 10	16°50'41	18°21	25°D42	21° 1	4°31	26°53	11°22	18°25	23°26	27° 6	9°58	11°31	19°42	n.a.	M10
T 11	7 6 7	17°51'26	2♈36	25°45	22°16	5°15	27° 7	11°28	18°25	23°27	27° 7	9°59	11°28	19°48	n.a.	T 11
W12	7 10 3	18°52'09	16°42	25°56	23°32	5°59	27°21	11°34	18°26	23°29	27° 8	9°R59	11°24	19°55	n.a.	W12
T 13	7 14 0	19°52'50	0♉37	26°13	24°47	6°43	27°36	11°40	18°27	23°30	27°10	9°59	11°21	20° 1	n.a.	T 13
F 14	7 17 56	20°53'29	14°22	26°36	26° 2	7°27	27°50	11°46	18°27	23°32	27°11	9°56	11°18	20° 8	n.a.	F 14
S 15	7 21 53	21°54'07	27°55	27° 4	27°17	8°11	28° 4	11°52	18°28	23°33	27°12	9°51	11°15	20°15	n.a.	S 15
S 16	7 25 50	22°54'43	11♊17	27°37	28°32	8°55	28°19	11°58	18°29	23°34	27°13	9°45	11°12	20°21	n.a.	S 16
M17	7 29 46	23°55'17	24°27	28°15	29°47	9°39	28°33	12° 4	18°30	23°36	27°15	9°37	11° 8	20°28	n.a.	M17
T 18	7 33 43	24°55'49	7♋25	28°57	1♒ 2	10°22	28°48	12°10	18°31	23°37	27°16	9°29	11° 5	20°35	n.a.	T 18
W19	7 37 39	25°56'19	20° 9	29°44	2°17	11° 6	29° 2	12°16	18°32	23°38	27°17	9°21	11° 2	20°41	n.a.	W19
T 20	7 41 36	26°56'48	2♌40	0♑33	3°32	11°50	29°16	12°21	18°33	23°40	27°19	9°14	10°59	20°48	n.a.	T 20
F 21	7 45 32	27°57'14	14°58	1°27	4°47	12°33	29°31	12°27	18°34	23°41	27°20	9° 9	10°56	20°55	n.a.	F 21
S 22	7 49 29	28°57'40	27° 4	2°23	6° 2	13°17	29°45	12°33	18°35	23°42	27°21	9° 6	10°53	21° 1	n.a.	S 22
S 23	7 53 25	29°58'03	9♍ 0	3°22	7°17	14° 1	29°59	12°38	18°36	23°43	27°23	9°D 6	10°49	21° 8	n.a.	S 23
M24	7 57 22	0♒58'25	20°51	4°24	8°32	14°44	0♒14	12°44	18°38	23°44	27°24	9° 6	10°46	21°15	n.a.	M24
T 25	8 1 19	1°58'45	2♎38	5°28	9°46	15°28	0°29	12°49	18°39	23°46	27°26	9° 8	10°43	21°21	n.a.	T 25
W26	8 5 15	2°59'04	14°27	6°34	11° 1	16°11	0°43	12°54	18°40	23°47	27°27	9°10	10°40	21°28	n.a.	W26
T 27	8 9 12	3°59'21	26°23	7°43	12°16	16°54	0°57	13° 0	18°42	23°48	27°28	9°11	10°37	21°35	n.a.	T 27
F 28	8 13 8	4°59'36	8♏30	8°54	13°31	17°38	1°12	13° 5	18°43	23°49	27°30	9°R11	10°34	21°41	n.a.	F 28
S 29	8 17 5	5°59'50	20°54	10° 6	14°46	18°21	1°26	13°10	18°45	23°50	27°31	9°10	10°30	21°48	n.a.	S 29
S 30	8 21 1	7° 0'03	3♐40	11°21	16° 1	19° 4	1°41	13°15	18°46	23°51	27°33	9° 7	10°27	21°54	n.a.	S 30
M31	8 24 58	8♒ 0'13	16♐49	12♑37	17♒15	19♓48	1♒55	13♐20	18♈48	23♏52	27♒34	9♍ 4	10♍24	22♍ 1	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s29	11s39	4n29	20s 6	3n37	24s22	1s 1	13s 6	0s48	22s10	0s46	21s13	1n 4	6n48	0s31	17s14	1n36	27s19	15s41	7n32	7n 9	5n 4		n.a.
S 2	23 25	14 40	4 54	20 4	3 39	24 18	1 3	12 49	0 47	22 8	0 46	21 14	1 4	6 48	0 31	17 14	1 36	27 18	15 41	7 35	7 10	5 3		n.a.
M 3	23 21	17 2	5 4	20 4	3 38	24 12	1 4	12 33	0 46	22 5	0 46	21 14	1 4	6 48	0 31	17 15	1 36	27 17	15 40	7 39	7 11	5 1		n.a.
T 4	23 16	18 33	4 58	20 6	3 36	24 7	1 6	12 16	0 45	22 3	0 46	21 15	1 4	6 48	0 31	17 15	1 36	27 17	15 40	7 43	7 12	4 59		n.a.
W 5	23 11	19 0	4 34	20 10	3 31	24 0	1 7	12 0	0 45	22 0	0 46	21 16	1 4	6 48	0 31	17 16	1 36	27 16	15 40	7 47	7 13	4 57		n.a.
T 6	23 5	18 17	3 53	20 15	3 26	23 53	1 9	11 43	0 44	21 57	0 46	21 17	1 4	6 48	0 31	17 16	1 36	27 15	15 40	7 50	7 15	4 55		n.a.
F 7	22 59	16 23	2 56	20 21	3 18	23 45	1 10	11 26	0 43	21 55	0 46	21 18	1 4	6 49	0 31	17 16	1 36	27 15	15 40	7 53	7 16	4 54		n.a.
S 8	22 53	13 27	1 48	20 29	3 10	23 36	1 12	11 9	0 42	21 52	0 46	21 19	1 4	6 49	0 31	17 17	1 36	27 14	15 39	7 55	7 17	4 52		n.a.
S 9	22 46	9 40	0 32	20 38	3 1	23 26	1 13	10 52	0 41	21 49	0 46	21 20	1 4	6 49	0 31	17 17	1 36	27 13	15 39	7 55	7 18	4 50		n.a.
M10	22 38	5 21	0s45	20 47	2 51	23 16	1 14	10 35	0 40	21 47	0 46	21 21	1 4	6 49	0 31	17 17	1 36	27 13	15 39	7 55	7 20	4 48		n.a.
T 11	22 30	0 46	1 59	20 58	2 41	23 5	1 15	10 18	0 40	21 44	0 46	21 22	1 4	6 49	0 31	17 18	1 36	27 12	15 39	7 55	7 21	4 46		n.a.
W12	22 22	3n48	3 5	21 9	2 30	22 54	1 17	10 1	0 39	21 41	0 46	21 22	1 4	6 50	0 31	17 18	1 36	27 12	15 38	7 55	7 22	4 44		n.a.
T 13	22 13	8 6	3 59	21 20	2 19	22 41	1 18	9 44	0 38	21 38	0 46	21 23	1 4	6 50	0 31	17 18	1 36	27 11	15 38	7 55	7 23	4 43		n.a.
F 14	22 4	11 54	4 38	21 32	2 8	22 28	1 19	9 27	0 37	21 35	0 47	21 24	1 4	6 50	0 31	17 19	1 36	27 10	15 38	7 56	7 24	4 41		n.a.
S 15	21 54	15 2	5 1	21 44	1 57	22 15	1 20	9 9	0 36	21 33	0 47	21 25	1 4	6 51	0 31	17 19	1 36	27 10	15 38	7 58	7 26	4 39		n.a.
S 16	21 44	17 18	5 8	21 56	1 46	22 0	1 21	8 52	0 35	21 30	0 47	21 26	1 4	6 51	0 31	17 19	1 36	27 9	15 38	8 0	7 27	4 37		n.a.
M17	21 34	18 38	4 58	22 8	1 34	21 45	1 21	8 34	0 34	21 27	0 47	21 27	1 4	6 51	0 31	17 20	1 36	27 8	15 38	8 3	7 28	4 35		n.a.
T 18	21 23	18 58	4 33	22 19	1 23	21 30	1 22	8 17	0 34	21 24	0 47	21 27	1 4	6 52	0 31	17 20	1 37	27 8	15 37	8 6	7 29	4 33		n.a.
W19	21 12	18 19	3 54	22 31	1 12	21 13	1 23	7 59	0 33	21 21	0 47	21 28	1 4	6 52	0 31	17 20	1 37	27 7	15 37	8 9	7 31	4 31		n.a.
T 20	21 0	16 47	3 5	22 41	1 1	20 56	1 24	7 42	0 32	21 18	0 47	21 29	1 4	6 53	0 31	17 21	1 37	27 6	15 37	8 12	7 32	4 30		n.a.
F 21	20 48	14 30	2 7	22 52	0 50	20 39	1 24	7 24	0 31	21 15	0 47	21 30	1 4	6 53	0 31	17 21	1 37	27 6	15 37	8 14	7 33	4 28		n.a.
S 22	20 36	11 37	1 5	23 1	0 40	20 21	1 25	7 7	0 30	21 12	0 47	21 30	1 4	6 54	0 31	17 21	1 37	27 5	15 37	8 15	7 34	4 26		n.a.
S 23	20 23	8 17	0 0	23 10	0 30	20 2	1 25	6 49	0 30	21 9	0 47	21 31	1 4	6 54	0 31	17 21	1 37	27 4	15 37	8 15	7 35	4 24		n.a.
M24	20 10	4 39	1n 4	23 19	0 20	19 43	1 26	6 31	0 29	21 6	0 47	21 32	1 4	6 55	0 31	17 22	1 37	27 4	15 36	8 15	7 37	4 22		n.a.
T 25	19 57	0 51	2 5	23 26	0 10	19 23	1 26	6 13	0 28	21 3	0 47	21 32	1 4	6 55	0 31	17 22	1 37	27 3	15 36	8 14	7 38	4 20		n.a.
W26	19 43	2s59	3 1	23 32	0 0	19 3	1 26	5 56	0 27	21 0	0 47	21 33	1 4	6 56	0 31	17 22	1 37	27 3	15 36	8 14	7 39	4 18		n.a.
T 27	19 29	6 43	3 50	23 38	0s 9	18 42	1 27	5 38	0 26	20 57	0 48	21 34	1 4	6 56	0 30	17 22	1 37	27 2	15 36	8 13	7 40	4 17		n.a.
F 28	19 14	10 15	4 30	23 42	0 18	18 20	1 27	5 20	0 25	20 54	0 48	21 34	1 4	6 57	0 30	17 22	1 37	27 1	15 36	8 13	7 42	4 15		n.a.
S 29	18 59	13 24	4 58	23 46	0 27	17 59	1 27	5 2	0 25	20 51	0 48	21 35	1 4	6 57	0 30	17 23	1 37	27 1	15 36	8 13	7 43	4 13		n.a.
S 30	18 44	16 1	5 12	23 48	0 35	17 36	1 27	4 44	0 24	20 47	0 48	21 36	1 4	6 58	0 30	17 23	1 37	27 0	15 36	8 14	7 44	4 11		n.a.
M31	18s28	17s54	5n10	23s49	0s43	17s13	1s27	4s26	0s23	20s44	0s48	21s36	1n 4	6n59	0s30	17s23	1n37	26s59	15s36	8n16	7n45	4n 9		n.a.

Julian Day Number = 1662252.5, Delta T = 03h25m05s
Ecliptic obliquity = 23°42'44, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°18'14, Lahiri = - 6°11'14 Julian Calendar 1 Jan. 162 BCE == Greg. Calendar 29 Dec. 163 BCE

The year -161 astronomical counting style corresponds to year 162 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 162 BCE
geocentric

FEBRUARY 162 BCE (-161) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 28 54	9♒ 0'22	0♉25	13♉54	18♒30	20♓31	2♒ 9	13♐25	18♈49	23♏53	27♒36	8°R59	10♍21	22♍ 8	n.a.	T 1
W 2	8 32 51	10° 0'29	14°27	15°14	19°45	21°14	2°24	13°30	18°51	23°53	27°37	8♍54	10°18	22°14	n.a.	W 2
T 3	8 36 48	11° 0'35	28°52	16°34	21° 0	21°57	2°38	13°35	18°53	23°54	27°39	8°50	10°14	22°21	n.a.	T 3
F 4	8 40 44	12° 0'38	13♒34	17°57	22°14	22°40	2°52	13°40	18°54	23°55	27°40	8°47	10°11	22°28	n.a.	F 4
S 5	8 44 41	13° 0'40	28°26	19°20	23°29	23°23	3° 7	13°44	18°56	23°56	27°41	8°46	10° 8	22°34	n.a.	S 5
S 6	8 48 37	14° 0'39	13♓20	20°45	24°44	24° 6	3°21	13°49	18°58	23°57	27°43	8°D45	10° 5	22°41	n.a.	S 6
M 7	8 52 34	15° 0'36	28° 9	22°12	25°58	24°49	3°35	13°54	19° 0	23°57	27°44	8°46	10° 2	22°48	n.a.	M 7
T 8	8 56 30	16° 0'31	12♈45	23°39	27°13	25°32	3°50	13°58	19° 2	23°58	27°46	8°48	9°59	22°54	n.a.	T 8
W 9	9 0 27	17° 0'23	27° 6	25° 8	28°28	26°15	4° 4	14° 3	19° 4	23°59	27°47	8°49	9°55	23° 1	n.a.	W 9
T 10	9 4 23	18° 0'13	11♉ 9	26°38	29°42	26°58	4°18	14° 7	19° 6	23°59	27°49	8°50	9°52	23° 8	n.a.	T 10
F 11	9 8 20	19° 0'01	24°52	28°10	0♓57	27°41	4°32	14°11	19° 8	24° 0	27°50	8°R50	9°49	23°14	n.a.	F 11
S 12	9 12 17	19°59'46	8♊17	29°42	2°11	28°24	4°46	14°15	19°10	24° 0	27°52	8°49	9°46	23°21	n.a.	S 12
S 13	9 16 13	20°59'29	21°24	1♒16	3°26	29° 6	5° 0	14°19	19°12	24° 1	27°54	8°47	9°43	23°28	n.a.	S 13
M14	9 20 10	21°59'10	4♋15	2°51	4°40	29°49	5°15	14°23	19°14	24° 1	27°55	8°45	9°40	23°34	n.a.	M14
T 15	9 24 6	22°58'48	16°52	4°28	5°55	0♈32	5°29	14°27	19°17	24° 2	27°57	8°42	9°36	23°41	n.a.	T 15
W16	9 28 3	23°58'24	29°17	6° 5	7° 9	1°14	5°43	14°31	19°19	24° 2	27°58	8°40	9°33	23°48	n.a.	W16
T 17	9 31 59	24°57'58	11♌31	7°44	8°23	1°57	5°57	14°35	19°21	24° 3	28° 0	8°38	9°30	23°54	n.a.	T 17
F 18	9 35 56	25°57'30	23°36	9°24	9°38	2°39	6°11	14°39	19°24	24° 3	28° 1	8°37	9°27	24° 1	n.a.	F 18
S 19	9 39 52	26°56'59	5♍33	11° 5	10°52	3°22	6°25	14°42	19°26	24° 3	28° 3	8°D37	9°24	24° 7	n.a.	S 19
S 20	9 43 49	27°56'26	17°25	12°48	12° 6	4° 4	6°39	14°46	19°28	24° 4	28° 4	8°37	9°20	24°14	n.a.	S 20
M21	9 47 45	28°55'51	29°13	14°32	13°21	4°46	6°53	14°49	19°31	24° 4	28° 6	8°37	9°17	24°21	n.a.	M21
T 22	9 51 42	29°55'15	11♎ 1	16°17	14°35	5°29	7° 6	14°53	19°33	24° 4	28° 7	8°38	9°14	24°27	n.a.	T 22
W23	9 55 39	0♓54'36	22°52	18° 3	15°49	6°11	7°20	14°56	19°36	24° 4	28° 9	8°39	9°11	24°34	n.a.	W23
T 24	9 59 35	1°53'55	4♏49	19°51	17° 3	6°53	7°34	14°59	19°38	24° 4	28°10	8°40	9° 8	24°41	n.a.	T 24
F 25	10 3 32	2°53'12	16°56	21°40	18°18	7°36	7°48	15° 2	19°41	24° 4	28°12	8°40	9° 5	24°47	n.a.	F 25
S 26	10 7 28	3°52'28	29°18	23°31	19°32	8°18	8° 1	15° 5	19°44	24° 5	28°13	8°R41	9° 1	24°54	n.a.	S 26
S 27	10 11 25	4°51'42	12♐ 0	25°23	20°46	9° 0	8°15	15° 8	19°46	24° 5	28°15	8°41	8°58	25° 1	n.a.	S 27
M28	10 15 21	5♓50'54	25♐ 3	27♒16	22♓ 0	9♈42	8♒29	15♐11	19♈49	24°R 5	28♒16	8♍41	8♍55	25♍ 7	n.a.	M28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s13	18s51	4n52	23s49	0s51	16s50	1s27	4s 8	0s22	20s41	0s48	21s37	1n 4	6n59	0s30	17s23	1n37	26s59	15s35	8n18	7n46	4n 7		n.a.
W 2	17 56	18 41	4 15	23 48	0 58	16 26	1 27	3 51	0 22	20 38	0 48	21 37	1 4	7 0	0 30	17 23	1 37	26 58	15 35	8 19	7 48	4 5		n.a.
T 3	17 40	17 20	3 22	23 45	1 5	16 2	1 27	3 33	0 21	20 35	0 48	21 38	1 4	7 1	0 30	17 24	1 37	26 57	15 35	8 21	7 49	4 4		n.a.
F 4	17 23	14 48	2 14	23 41	1 12	15 37	1 26	3 15	0 20	20 31	0 48	21 39	1 4	7 1	0 30	17 24	1 37	26 57	15 35	8 22	7 50	4 2		n.a.
S 5	17 6	11 16	0 57	23 36	1 19	15 12	1 26	2 57	0 19	20 28	0 48	21 39	1 4	7 2	0 30	17 24	1 37	26 56	15 35	8 23	7 51	4 0		n.a.
S 6	16 49	7 1	0s25	23 29	1 25	14 46	1 26	2 39	0 18	20 25	0 48	21 40	1 4	7 3	0 30	17 24	1 37	26 56	15 35	8 23	7 52	3 58		n.a.
M 7	16 31	2 21	1 45	23 21	1 30	14 20	1 25	2 21	0 18	20 22	0 49	21 40	1 4	7 4	0 30	17 24	1 37	26 55	15 35	8 22	7 54	3 56		n.a.
T 8	16 13	2n23	2 57	23 11	1 36	13 54	1 25	2 3	0 17	20 18	0 49	21 41	1 4	7 4	0 30	17 24	1 37	26 54	15 35	8 22	7 55	3 54		n.a.
W 9	15 55	6 53	3 56	23 0	1 41	13 27	1 24	1 45	0 16	20 15	0 49	21 41	1 4	7 5	0 30	17 24	1 37	26 54	15 35	8 21	7 56	3 52		n.a.
T 10	15 37	10 55	4 40	22 47	1 45	13 0	1 23	1 27	0 15	20 12	0 49	21 42	1 4	7 6	0 30	17 25	1 38	26 53	15 35	8 21	7 57	3 51		n.a.
F 11	15 18	14 14	5 7	22 33	1 50	12 33	1 23	1 9	0 15	20 8	0 49	21 42	1 4	7 7	0 30	17 25	1 38	26 53	15 35	8 21	7 59	3 49		n.a.
S 12	14 59	16 44	5 16	22 18	1 54	12 5	1 22	0 51	0 14	20 5	0 49	21 43	1 4	7 8	0 30	17 25	1 38	26 52	15 35	8 21	8 0	3 47		n.a.
S 13	14 40	18 18	5 8	22 0	1 57	11 37	1 21	0 34	0 13	20 2	0 49	21 43	1 4	7 8	0 30	17 25	1 38	26 51	15 35	8 22	8 1	3 45		n.a.
M14	14 20	18 53	4 45	21 42	2 0	11 9	1 20	0 16	0 12	19 58	0 49	21 44	1 4	7 9	0 30	17 25	1 38	26 51	15 35	8 23	8 2	3 43		n.a.
T 15	14 1	18 31	4 9	21 21	2 3	10 40	1 19	0n 2	0 12	19 55	0 49	21 44	1 4	7 10	0 30	17 25	1 38	26 50	15 35	8 24	8 3	3 41		n.a.
W16	13 41	17 15	3 21	20 59	2 5	10 11	1 18	0 20	0 11	19 52	0 50	21 44	1 4	7 11	0 30	17 25	1 38	26 50	15 35	8 25	8 5	3 39		n.a.
T 17	13 21	15 13	2 25	20 35	2 7	9 42	1 17	0 38	0 10	19 48	0 50	21 45	1 4	7 12	0 30	17 25	1 38	26 49	15 35	8 25	8 6	3 37		n.a.
F 18	13 1	12 31	1 22	20 10	2 9	9 13	1 16	0 55	0 9	19 45	0 50	21 45	1 4	7 13	0 30	17 25	1 38	26 49	15 35	8 26	8 7	3 36		n.a.
S 19	12 40	9 19	0 17	19 43	2 10	8 43	1 15	1 13	0 9	19 41	0 50	21 46	1 4	7 14	0 30	17 25	1 38	26 48	15 35	8 26	8 8	3 34		n.a.
S 20	12 20	5 46	0n49	19 14	2 10	8 13	1 13	1 31	0 8	19 38	0 50	21 46	1 4	7 15	0 30	17 25	1 38	26 47	15 35	8 26	8 9	3 32		n.a.
M21	11 59	2 1	1 52	18 44	2 10	7 43	1 12	1 48	0 7	19 34	0 50	21 46	1 4	7 16	0 30	17 25	1 38	26 47	15 35	8 26	8 11	3 30		n.a.
T 22	11 38	1s48	2 51	18 12	2 10	7 13	1 11	2 6	0 7	19 31	0 50	21 47	1 4	7 17	0 30	17 25	1 38	26 46	15 35	8 25	8 12	3 28		n.a.
W23	11 16	5 33	3 42	17 38	2 9	6 43	1 9	2 24	0 6	19 28	0 50	21 47	1 4	7 18	0 30	17 25	1 38	26 46	15 35	8 25	8 13	3 26		n.a.
T 24	10 55	9 7	4 24	17 3	2 8	6 12	1 8	2 41	0 5	19 24	0 51	21 47	1 4	7 19	0 30	17 25	1 38	26 45	15 35	8 25	8 14	3 24		n.a.
F 25	10 34	12 22	4 56	16 25	2 6	5 42	1 6	2 59	0 4	19 21	0 51	21 48	1 4	7 20	0 30	17 25	1 38	26 45	15 35	8 25	8 15	3 22		n.a.
S 26	10 12	15 7	5 14	15 46	2 3	5 11	1 4	3 16	0 4	19 17	0 51	21 48	1 4	7 21	0 30	17 25	1 38	26 44	15 35	8 24	8 17	3 20		n.a.
S 27	9 50	17 14	5 17	15 6	2 0	4 40	1 3	3 34	0 3	19 14	0 51	21 48	1 5	7 22	0 30	17 25	1 38	26 44	15 35	8 24	8 18	3 19		n.a.
M28	9s28	18s32	5n 5	14s23	1s57	4s 9	1s 1	3n51	0s 2	19s10	0s51	21s49	1n 5	7n23	0s30	17s25	1n38	26s43	15s35	8n25	8n19	3n17		n.a.

Julian Day Number = 1662283.5, Delta T = 03h25m04s
Ecliptic obliquity = 23°42'44, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°18'10, Lahiri = - 6°11'10 Julian Calendar 1 Feb. 162 BCE == Greg. Calendar 29 Jan. 162 BCE

The year -161 astronomical counting style corresponds to year 162 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 162 BCE
geocentric

MARCH 162 BCE (-161) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 19 18	6♓50'04	8♉33	29♒10	23♓14	10♈24	8♒42	15♐14	19♈52	24°R 5	28♒18	8°R40	8♍52	25♍14	n.a.	T 1
W 2	10 23 14	7°49'12	22°30	1♓ 6	24°28	11° 6	8°56	15°16	19°54	24♏ 4	28°19	8♍40	8°49	25°21	n.a.	W 2
T 3	10 27 11	8°48'18	6♒52	3° 3	25°42	11°48	9° 9	15°19	19°57	24° 4	28°21	8°D40	8°46	25°27	n.a.	T 3
F 4	10 31 8	9°47'22	21°37	5° 1	26°56	12°30	9°23	15°22	20° 0	24° 4	28°22	8°40	8°42	25°34	n.a.	F 4
S 5	10 35 4	10°46'24	6♓39	7° 1	28°10	13°12	9°36	15°24	20° 3	24° 4	28°24	8°R40	8°39	25°41	n.a.	S 5
S 6	10 39 1	11°45'24	21°48	9° 2	29°24	13°54	9°49	15°26	20° 6	24° 4	28°25	8°40	8°36	25°47	n.a.	S 6
M 7	10 42 57	12°44'22	6♈56	11° 3	0♈38	14°35	10° 3	15°28	20° 9	24° 4	28°27	8°40	8°33	25°54	n.a.	M 7
T 8	10 46 54	13°43'18	21°54	13° 6	1°52	15°17	10°16	15°31	20°12	24° 3	28°28	8°39	8°30	26° 1	n.a.	T 8
W 9	10 50 50	14°42'11	6♉34	15°10	3° 5	15°59	10°29	15°33	20°14	24° 3	28°30	8°39	8°26	26° 7	n.a.	W 9
T 10	10 54 47	15°41'02	20°51	17°15	4°19	16°41	10°42	15°35	20°17	24° 3	28°31	8°38	8°23	26°14	n.a.	T 10
F 11	10 58 43	16°39'50	4♊43	19°20	5°33	17°22	10°55	15°36	20°20	24° 3	28°33	8°38	8°20	26°20	n.a.	F 11
S 12	11 2 40	17°38'36	18°10	21°25	6°47	18° 4	11° 8	15°38	20°23	24° 2	28°34	8°D38	8°17	26°27	n.a.	S 12
S 13	11 6 36	18°37'20	1♋13	23°31	8° 0	18°45	11°21	15°40	20°27	24° 2	28°36	8°38	8°14	26°34	n.a.	S 13
M14	11 10 33	19°36'02	13°56	25°37	9°14	19°27	11°34	15°41	20°30	24° 1	28°37	8°38	8°11	26°40	n.a.	M14
T 15	11 14 30	20°34'41	26°22	27°42	10°28	20° 8	11°47	15°43	20°33	24° 1	28°39	8°40	8° 7	26°47	n.a.	T 15
W16	11 18 26	21°33'18	8♌34	29°47	11°41	20°50	11°59	15°44	20°36	24° 0	28°40	8°41	8° 4	26°54	n.a.	W16
T 17	11 22 23	22°31'52	20°35	1♈51	12°55	21°31	12°12	15°45	20°39	24° 0	28°41	8°42	8° 1	27° 0	n.a.	T 17
F 18	11 26 19	23°30'25	2♍30	3°53	14° 8	22°13	12°25	15°47	20°42	23°59	28°43	8°42	7°58	27° 7	n.a.	F 18
S 19	11 30 16	24°28'55	14°20	5°54	15°22	22°54	12°37	15°48	20°45	23°59	28°44	8°R42	7°55	27°14	n.a.	S 19
S 20	11 34 12	25°27'23	26° 9	7°53	16°35	23°35	12°50	15°49	20°49	23°58	28°46	8°42	7°51	27°20	n.a.	S 20
M21	11 38 9	26°25'49	7♎57	9°49	17°49	24°16	13° 2	15°50	20°52	23°57	28°47	8°40	7°48	27°27	n.a.	M21
T 22	11 42 5	27°24'14	19°48	11°43	19° 2	24°58	13°14	15°50	20°55	23°57	28°48	8°37	7°45	27°34	n.a.	T 22
W23	11 46 2	28°22'36	1♏44	13°34	20°15	25°39	13°26	15°51	20°58	23°56	28°50	8°34	7°42	27°40	n.a.	W23
T 24	11 49 58	29°20'57	13°46	15°22	21°29	26°20	13°39	15°52	21° 1	23°55	28°51	8°31	7°39	27°47	n.a.	T 24
F 25	11 53 55	0♈19'16	25°59	17° 7	22°42	27° 1	13°51	15°52	21° 5	23°54	28°53	8°28	7°36	27°54	n.a.	F 25
S 26	11 57 52	1°17'33	8♐23	18°48	23°55	27°42	14° 3	15°52	21° 8	23°54	28°54	8°26	7°32	28° 0	n.a.	S 26
S 27	12 1 48	2°15'49	21° 4	20°25	25° 8	28°23	14°14	15°53	21°11	23°53	28°55	8°24	7°29	28° 7	n.a.	S 27
M28	12 5 45	3°14'03	4♑ 4	21°58	26°22	29° 4	14°26	15°53	21°15	23°52	28°56	8°D23	7°26	28°14	n.a.	M28
T 29	12 9 41	4°12'16	17°25	23°27	27°35	29°45	14°38	15°53	21°18	23°51	28°58	8°24	7°23	28°20	n.a.	T 29
W30	12 13 38	5°10'26	1♒11	24°52	28°48	0♉26	14°50	15°R53	21°21	23°50	28°59	8°25	7°20	28°27	n.a.	W30
T 31	12 17 34	6♈ 8'36	15♒22	26♈12	0♉ 1	1♉ 7	15♒ 1	15♐53	21♈25	23♏49	29♒ 0	8♍27	7♍17	28♍34	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9s 6	18s51	4n36	13s39	1s53	3s37	0s59	4n 8	0s 2	19s 7	0s51	21s49	1n 5	7n24	0s30	17s25	1n38	26s43	15s35	8n25	8n20	3n15		n.a.
W 2	8 44	18 2	3 50	12 54	1 49	3 6	0 57	4 26	0 1	19 3	0 51	21 49	1 5	7 25	0 30	17 25	1 39	26 42	15 35	8 25	8 21	3 13		n.a.
T 3	8 22	16 4	2 48	12 6	1 44	2 35	0 56	4 43	0 0	19 0	0 52	21 49	1 5	7 26	0 30	17 25	1 39	26 42	15 35	8 25	8 23	3 11		n.a.
F 4	7 59	12 59	1 33	11 18	1 38	2 3	0 54	5 0	0n 0	18 56	0 52	21 50	1 5	7 27	0 29	17 25	1 39	26 41	15 35	8 25	8 24	3 9		n.a.
S 5	7 37	9 0	0 11	10 27	1 32	1 32	0 52	5 17	0 1	18 53	0 52	21 50	1 5	7 28	0 29	17 25	1 39	26 41	15 35	8 25	8 25	3 7		n.a.
S 6	7 14	4 24	1s12	9 35	1 25	1 0	0 50	5 34	0 2	18 50	0 52	21 50	1 5	7 29	0 29	17 25	1 39	26 40	15 35	8 25	8 26	3 5		n.a.
M 7	6 51	0n29	2 31	8 42	1 18	0 28	0 48	5 51	0 3	18 46	0 52	21 50	1 5	7 30	0 29	17 24	1 39	26 40	15 35	8 25	8 27	3 3		n.a.
T 8	6 28	5 16	3 38	7 47	1 10	0n 3	0 45	6 8	0 3	18 43	0 52	21 50	1 5	7 32	0 29	17 24	1 39	26 39	15 36	8 25	8 29	3 2		n.a.
W 9	6 5	9 37	4 29	6 51	1 2	0 35	0 43	6 25	0 4	18 39	0 52	21 51	1 5	7 33	0 29	17 24	1 39	26 39	15 36	8 25	8 30	3 0		n.a.
T 10	5 42	13 18	5 3	5 54	0 53	1 7	0 41	6 42	0 5	18 36	0 53	21 51	1 5	7 34	0 29	17 24	1 39	26 39	15 36	8 25	8 31	2 58		n.a.
F 11	5 19	16 8	5 17	4 56	0 44	1 38	0 39	6 59	0 5	18 32	0 53	21 51	1 5	7 35	0 29	17 24	1 39	26 38	15 36	8 26	8 32	2 56		n.a.
S 12	4 56	17 59	5 13	3 58	0 34	2 10	0 37	7 15	0 6	18 29	0 53	21 51	1 5	7 36	0 29	17 24	1 39	26 38	15 36	8 26	8 33	2 54		n.a.
S 13	4 33	18 49	4 53	2 58	0 24	2 41	0 34	7 32	0 6	18 25	0 53	21 51	1 5	7 37	0 29	17 24	1 39	26 37	15 36	8 26	8 35	2 52		n.a.
M14	4 10	18 40	4 20	1 58	0 13	3 13	0 32	7 48	0 7	18 22	0 53	21 51	1 5	7 39	0 29	17 24	1 39	26 37	15 36	8 25	8 36	2 50		n.a.
T 15	3 46	17 37	3 34	0 58	0 3	3 44	0 30	8 5	0 8	18 18	0 53	21 52	1 5	7 40	0 29	17 23	1 39	26 36	15 36	8 25	8 37	2 48		n.a.
W16	3 23	15 46	2 40	0n 2	0n 8	4 15	0 27	8 21	0 8	18 15	0 54	21 52	1 5	7 41	0 29	17 23	1 39	26 36	15 37	8 24	8 38	2 46		n.a.
T 17	3 0	13 14	1 39	1 2	0 19	4 47	0 25	8 37	0 9	18 12	0 54	21 52	1 5	7 42	0 29	17 23	1 39	26 36	15 37	8 24	8 39	2 44		n.a.
F 18	2 36	10 10	0 34	2 2	0 31	5 18	0 22	8 54	0 10	18 8	0 54	21 52	1 5	7 43	0 29	17 23	1 39	26 35	15 37	8 24	8 41	2 43		n.a.
S 19	2 13	6 43	0n31	3 1	0 42	5 49	0 20	9 10	0 10	18 5	0 54	21 52	1 5	7 45	0 29	17 23	1 39	26 35	15 37	8 24	8 42	2 41		n.a.
S 20	1 50	3 0	1 35	3 59	0 53	6 20	0 17	9 26	0 11	18 1	0 54	21 52	1 5	7 46	0 29	17 22	1 39	26 35	15 37	8 24	8 43	2 39		n.a.
M21	1 26	0s49	2 35	4 55	1 4	6 51	0 15	9 42	0 12	17 58	0 55	21 52	1 5	7 47	0 29	17 22	1 39	26 34	15 37	8 25	8 44	2 37		n.a.
T 22	1 3	4 37	3 28	5 50	1 15	7 21	0 12	9 58	0 12	17 55	0 55	21 52	1 5	7 48	0 29	17 22	1 39	26 34	15 38	8 26	8 45	2 35		n.a.
W23	0 39	8 16	4 13	6 44	1 26	7 52	0 9	10 13	0 13	17 51	0 55	21 52	1 5	7 50	0 29	17 22	1 39	26 34	15 38	8 27	8 47	2 33		n.a.
T 24	0 16	11 36	4 46	7 36	1 36	8 22	0 7	10 29	0 13	17 48	0 55	21 52	1 5	7 51	0 29	17 22	1 39	26 33	15 38	8 28	8 48	2 31		n.a.
F 25	0n 8	14 29	5 8	8 26	1 46	8 52	0 4	10 45	0 14	17 44	0 55	21 52	1 5	7 52	0 29	17 21	1 40	26 33	15 38	8 29	8 49	2 29		n.a.
S 26	0 31	16 46	5 15	9 13	1 56	9 22	0 1	11 0	0 15	17 41	0 55	21 52	1 5	7 53	0 29	17 21	1 40	26 33	15 38	8 30	8 50	2 27		n.a.
S 27	0 55	18 18	5 7	9 59	2 4	9 51	0n 1	11 15	0 15	17 38	0 56	21 52	1 5	7 55	0 29	17 21	1 40	26 32	15 39	8 31	8 51	2 25		n.a.
M28	1 18	18 55	4 44	10 42	2 12	10 21	0 4	11 31	0 16	17 35	0 56	21 52	1 5	7 56	0 29	17 21	1 40	26 32	15 39	8 31	8 53	2 23		n.a.
T 29	1 41	18 31	4 5	11 22	2 20	10 50	0 7	11 46	0 16	17 31	0 56	21 52	1 6	7 57	0 29	17 20	1 40	26 32	15 39	8 31	8 54	2 21		n.a.
W30	2 5	17 1	3 11	12 0	2 27	11 19	0 9	12 1	0 17	17 28	0 56	21 52	1 6	7 58	0 29	17 20	1 40	26 31	15 39	8 30	8 55	2 20		n.a.
T 31	2n28	14s27	2n 4	12n36	2n33	11n48	0n12	12n16	0n18	17s25	0s56	21s52	1n 6	8n 0	0s29	17s20	1n40	26s31	15s39	8n30	8n56	2n18		n.a.

Julian Day Number = 1662311.5, Delta T = 03h25m03s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°18'06, Lahiri = - 6°11'06 Julian Calendar 1 March 162 BCE == Greg. Calendar 26 Feb. 162 BCE

The year -161 astronomical counting style corresponds to year 162 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 162 BCE
geocentric

APRIL 162 BCE (-161) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 21 31	7♈ 6'44	29♒57	27♈28	1♉14	1♉47	15♒13	15°R53	21♈28	23°R48	29♒ 2	8♍28	7♍13	28♍40	n.a.	F 1
S 2	12 25 27	8° 4'50	14♓52	28°40	2°27	2°28	15°24	15♐52	21°32	23♏47	29° 3	8°R28	7°10	28°47	n.a.	S 2
S 3	12 29 24	9° 2'54	0♈ 0	29°47	3°40	3° 9	15°35	15°52	21°35	23°46	29° 4	8°27	7° 7	28°53	n.a.	S 3
M 4	12 33 21	10° 0'57	15°13	0♉49	4°53	3°50	15°47	15°52	21°38	23°45	29° 5	8°24	7° 4	29° 0	n.a.	M 4
T 5	12 37 17	10°58'58	0♉20	1°46	6° 5	4°30	15°58	15°51	21°42	23°44	29° 6	8°20	7° 1	29° 7	n.a.	T 5
W 6	12 41 14	11°56'57	15°12	2°39	7°18	5°11	16° 9	15°50	21°45	23°43	29° 8	8°15	6°57	29°13	n.a.	W 6
T 7	12 45 10	12°54'55	29°41	3°26	8°31	5°51	16°20	15°50	21°49	23°42	29° 9	8°10	6°54	29°20	n.a.	T 7
F 8	12 49 7	13°52'51	13♊44	4° 9	9°44	6°32	16°30	15°49	21°52	23°41	29°10	8° 6	6°51	29°27	n.a.	F 8
S 9	12 53 3	14°50'44	27°18	4°47	10°56	7°13	16°41	15°48	21°56	23°40	29°11	8° 3	6°48	29°33	n.a.	S 9
S 10	12 57 0	15°48'36	10♋25	5°20	12° 9	7°53	16°52	15°47	21°59	23°39	29°12	8°D 2	6°45	29°40	n.a.	S 10
M11	13 0 56	16°46'26	23° 7	5°47	13°22	8°33	17° 2	15°46	22° 3	23°37	29°13	8° 2	6°42	29°47	n.a.	M11
T 12	13 4 53	17°44'14	5♌29	6°10	14°34	9°14	17°13	15°44	22° 6	23°36	29°14	8° 3	6°38	29°53	n.a.	T 12
W13	13 8 50	18°42'00	17°35	6°27	15°47	9°54	17°23	15°43	22° 9	23°35	29°16	8° 4	6°35	0♎ 0	n.a.	W13
T 14	13 12 46	19°39'45	29°31	6°40	16°59	10°35	17°33	15°42	22°13	23°34	29°17	8° 6	6°32	0° 7	n.a.	T 14
F 15	13 16 43	20°37'27	11♍21	6°47	18°12	11°15	17°43	15°40	22°16	23°32	29°18	8°R 6	6°29	0°13	n.a.	F 15
S 16	13 20 39	21°35'09	23° 8	6°R49	19°24	11°55	17°53	15°38	22°20	23°31	29°19	8° 5	6°26	0°20	n.a.	S 16
S 17	13 24 36	22°32'48	4♎56	6°47	20°36	12°35	18° 3	15°37	22°23	23°30	29°20	8° 1	6°22	0°27	n.a.	S 17
M18	13 28 32	23°30'26	16°48	6°40	21°49	13°16	18°13	15°35	22°27	23°29	29°21	7°56	6°19	0°33	n.a.	M18
T 19	13 32 29	24°28'03	28°45	6°28	23° 1	13°56	18°22	15°33	22°30	23°27	29°22	7°49	6°16	0°40	n.a.	T 19
W20	13 36 25	25°25'38	10♏50	6°12	24°13	14°36	18°32	15°31	22°34	23°26	29°23	7°41	6°13	0°47	n.a.	W20
T 21	13 40 22	26°23'12	23° 3	5°53	25°25	15°16	18°41	15°29	22°37	23°24	29°24	7°32	6°10	0°53	n.a.	T 21
F 22	13 44 18	27°20'45	5♐26	5°30	26°37	15°56	18°50	15°27	22°41	23°23	29°24	7°23	6° 7	1° 0	n.a.	F 22
S 23	13 48 15	28°18'16	18° 0	5° 3	27°49	16°36	19° 0	15°25	22°44	23°22	29°25	7°16	6° 3	1° 7	n.a.	S 23
S 24	13 52 12	29°15'47	0♑48	4°34	29° 1	17°16	19° 9	15°22	22°48	23°20	29°26	7°10	6° 0	1°13	n.a.	S 24
M25	13 56 8	0♉13'17	13°50	4° 3	0♊13	17°56	19°17	15°20	22°51	23°19	29°27	7° 7	5°57	1°20	n.a.	M25
T 26	14 0 5	1°10'46	27°10	3°31	1°25	18°36	19°26	15°18	22°55	23°17	29°28	7°D 6	5°54	1°27	n.a.	T 26
W27	14 4 1	2° 8'14	10♒48	2°57	2°37	19°16	19°35	15°15	22°58	23°16	29°29	7° 6	5°51	1°33	n.a.	W27
T 28	14 7 58	3° 5'41	24°47	2°23	3°49	19°56	19°43	15°13	23° 1	23°14	29°30	7° 7	5°48	1°40	n.a.	T 28
F 29	14 11 54	4° 3'07	9♓ 7	1°49	5° 1	20°36	19°52	15°10	23° 5	23°13	29°30	7°R 7	5°44	1°47	n.a.	F 29
S 30	14 15 51	5♉ 0'32	23♓46	1♉16	6♊12	21♉15	20♒ 0	15♐ 7	23♈ 8	23♏11	29♒31	7♍ 6	5♍41	1♎53	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	2n51	10s53	0n47	13n 8	2n38	12n16	0n15	12n31	0n18	17s22	0s57	21s52	1n 6	8n 1	0s29	17s20	1n40	26s31	15s40	8n29	8n57	2n16		n.a.
S 2	3 14	6 34	0s35	13 38	2 42	12 44	0 18	12 46	0 19	17 18	0 57	21 52	1 6	8 2	0 29	17 19	1 40	26 31	15 40	8 29	8 59	2 14		n.a.
S 3	3 38	1 46	1 55	14 6	2 45	13 12	0 20	13 0	0 19	17 15	0 57	21 52	1 6	8 4	0 29	17 19	1 40	26 30	15 40	8 30	9 0	2 12		n.a.
M 4	4 1	3n10	3 8	14 30	2 48	13 39	0 23	13 15	0 20	17 12	0 57	21 52	1 6	8 5	0 29	17 19	1 40	26 30	15 40	8 31	9 1	2 10		n.a.
T 5	4 24	7 52	4 7	14 52	2 49	14 6	0 26	13 29	0 21	17 9	0 57	21 52	1 6	8 6	0 29	17 18	1 40	26 30	15 41	8 32	9 2	2 8		n.a.
W 6	4 47	12 0	4 48	15 11	2 50	14 33	0 29	13 44	0 21	17 6	0 58	21 52	1 6	8 8	0 29	17 18	1 40	26 30	15 41	8 34	9 3	2 6		n.a.
T 7	5 9	15 17	5 9	15 27	2 49	15 0	0 31	13 58	0 22	17 3	0 58	21 52	1 6	8 9	0 29	17 18	1 40	26 30	15 41	8 36	9 5	2 4		n.a.
F 8	5 32	17 34	5 11	15 40	2 48	15 26	0 34	14 12	0 22	16 59	0 58	21 51	1 6	8 10	0 29	17 18	1 40	26 29	15 41	8 38	9 6	2 2		n.a.
S 9	5 55	18 46	4 55	15 51	2 45	15 52	0 37	14 26	0 23	16 56	0 58	21 51	1 6	8 11	0 29	17 17	1 40	26 29	15 42	8 39	9 7	2 0		n.a.
S 10	6 17	18 55	4 24	15 59	2 41	16 17	0 39	14 40	0 23	16 53	0 59	21 51	1 6	8 13	0 29	17 17	1 40	26 29	15 42	8 39	9 8	1 58		n.a.
M11	6 40	18 5	3 41	16 3	2 36	16 42	0 42	14 54	0 24	16 50	0 59	21 51	1 6	8 14	0 29	17 17	1 40	26 29	15 42	8 39	9 9	1 56		n.a.
T 12	7 2	16 24	2 48	16 5	2 31	17 6	0 45	15 7	0 24	16 47	0 59	21 51	1 6	8 15	0 29	17 16	1 40	26 29	15 42	8 39	9 11	1 54		n.a.
W13	7 24	14 0	1 49	16 5	2 23	17 30	0 48	15 21	0 25	16 44	0 59	21 51	1 6	8 17	0 29	17 16	1 40	26 28	15 43	8 38	9 12	1 53		n.a.
T 14	7 47	11 3	0 47	16 1	2 15	17 54	0 50	15 34	0 26	16 41	0 59	21 51	1 6	8 18	0 29	17 16	1 40	26 28	15 43	8 38	9 13	1 51		n.a.
F 15	8 9	7 40	0n18	15 55	2 6	18 17	0 53	15 47	0 26	16 39	1 0	21 50	1 6	8 19	0 29	17 15	1 40	26 28	15 43	8 38	9 14	1 49		n.a.
S 16	8 30	3 59	1 21	15 46	1 56	18 40	0 55	16 0	0 27	16 36	1 0	21 50	1 6	8 21	0 29	17 15	1 40	26 28	15 44	8 38	9 15	1 47		n.a.
S 17	8 52	0 10	2 20	15 34	1 44	19 2	0 58	16 13	0 27	16 33	1 0	21 50	1 6	8 22	0 29	17 15	1 40	26 28	15 44	8 39	9 16	1 45		n.a.
M18	9 14	3s42	3 14	15 20	1 32	19 24	1 1	16 26	0 28	16 30	1 0	21 50	1 6	8 23	0 29	17 14	1 40	26 28	15 44	8 41	9 18	1 43		n.a.
T 19	9 35	7 26	3 59	15 4	1 18	19 45	1 3	16 39	0 28	16 27	1 1	21 50	1 6	8 25	0 29	17 14	1 40	26 28	15 44	8 44	9 19	1 41		n.a.
W20	9 57	10 54	4 34	14 45	1 4	20 6	1 6	16 51	0 29	16 25	1 1	21 49	1 6	8 26	0 29	17 13	1 40	26 28	15 45	8 47	9 20	1 39		n.a.
T 21	10 18	13 57	4 57	14 24	0 49	20 26	1 8	17 4	0 29	16 22	1 1	21 49	1 6	8 27	0 29	17 13	1 40	26 28	15 45	8 51	9 21	1 37		n.a.
F 22	10 39	16 25	5 7	14 1	0 33	20 46	1 11	17 16	0 30	16 19	1 1	21 49	1 6	8 28	0 29	17 13	1 40	26 28	15 45	8 54	9 22	1 35		n.a.
S 23	11 0	18 9	5 2	13 37	0 17	21 5	1 13	17 28	0 30	16 16	1 2	21 49	1 6	8 30	0 29	17 12	1 40	26 28	15 46	8 56	9 24	1 33		n.a.
S 24	11 20	19 1	4 42	13 12	0 0	21 24	1 15	17 40	0 31	16 14	1 2	21 48	1 6	8 31	0 29	17 12	1 40	26 28	15 46	8 59	9 25	1 31		n.a.
M25	11 41	18 54	4 7	12 45	0s17	21 42	1 18	17 52	0 31	16 11	1 2	21 48	1 6	8 32	0 29	17 12	1 40	26 28	15 46	9 0	9 26	1 29		n.a.
T 26	12 1	17 44	3 18	12 18	0 34	21 59	1 20	18 4	0 32	16 9	1 2	21 48	1 6	8 34	0 29	17 11	1 40	26 28	15 47	9 0	9 27	1 27		n.a.
W27	12 21	15 32	2 17	11 50	0 51	22 16	1 22	18 15	0 32	16 6	1 3	21 48	1 6	8 35	0 29	17 11	1 40	26 28	15 47	9 0	9 28	1 25		n.a.
T 28	12 41	12 23	1 6	11 22	1 9	22 32	1 24	18 27	0 33	16 4	1 3	21 47	1 6	8 36	0 29	17 10	1 40	26 28	15 47	9 0	9 29	1 23		n.a.
F 29	13 1	8 24	0s11	10 55	1 25	22 48	1 27	18 38	0 33	16 1	1 3	21 47	1 6	8 38	0 29	17 10	1 40	26 28	15 48	9 0	9 31	1 21		n.a.
S 30	13n20	3s51	1s28	10n28	1s42	23n 3	1n29	18n49	0n34	15s59	1s 3	21s47	1n 6	8n39	0s29	17s10	1n40	26s28	15s48	9n 0	9n32	1n20		n.a.

Julian Day Number = 1662342.5, Delta T = 03h25m02s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°18'02, Lahiri = - 6°11'02 Julian Calendar 1 Apr. 162 BCE == Greg. Calendar 29 March 162 BCE

The year -161 astronomical counting style corresponds to year 162 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 162 BCE
geocentric

MAY 162 BCE (-161) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 19 47	5♉57'57	8♈39	0°R45	7♊24	21♉55	20♒ 8	15°R 4	23♈12	23°R10	29♒32	7°R 3	5♍38	2♎ 0	n.a.	S 1
M 2	14 23 44	6°55'20	23°39	0♉15	8°36	22°35	20°16	15♐ 1	23°15	23♏ 8	29°33	6♍57	5°35	2° 7	n.a.	M 2
T 3	14 27 41	7°52'43	8♉39	29♈47	9°47	23°15	20°24	14°58	23°18	23° 7	29°33	6°49	5°32	2°13	n.a.	T 3
W 4	14 31 37	8°50'05	23°29	29°22	10°59	23°54	20°32	14°55	23°22	23° 5	29°34	6°40	5°28	2°20	n.a.	W 4
T 5	14 35 34	9°47'26	8♊ 0	29° 1	12°10	24°34	20°39	14°52	23°25	23° 4	29°35	6°31	5°25	2°27	n.a.	T 5
F 6	14 39 30	10°44'45	22° 7	28°43	13°22	25°14	20°46	14°49	23°29	23° 2	29°35	6°22	5°22	2°33	n.a.	F 6
S 7	14 43 27	11°42'04	5♋45	28°28	14°33	25°53	20°54	14°46	23°32	23° 0	29°36	6°15	5°19	2°40	n.a.	S 7
S 8	14 47 23	12°39'22	18°56	28°18	15°44	26°33	21° 1	14°42	23°35	22°59	29°37	6°10	5°16	2°47	n.a.	S 8
M 9	14 51 20	13°36'38	1♌40	28°12	16°55	27°12	21° 8	14°39	23°39	22°57	29°37	6° 8	5°13	2°53	n.a.	M 9
T 10	14 55 16	14°33'54	14° 4	28°D10	18° 7	27°52	21°15	14°35	23°42	22°56	29°38	6°D 7	5° 9	3° 0	n.a.	T 10
W11	14 59 13	15°31'08	26°10	28°13	19°18	28°31	21°21	14°32	23°45	22°54	29°38	6° 8	5° 6	3° 7	n.a.	W11
T 12	15 3 10	16°28'22	8♍ 5	28°20	20°29	29°11	21°28	14°28	23°48	22°53	29°39	6°R 8	5° 3	3°13	n.a.	T 12
F 13	15 7 6	17°25'34	19°54	28°32	21°40	29°50	21°34	14°25	23°52	22°51	29°39	6° 7	5° 0	3°20	n.a.	F 13
S 14	15 11 3	18°22'46	1♎42	28°48	22°51	0♊30	21°40	14°21	23°55	22°49	29°40	6° 4	4°57	3°27	n.a.	S 14
S 15	15 14 59	19°19'57	13°32	29° 9	24° 2	1° 9	21°46	14°17	23°58	22°48	29°40	5°59	4°54	3°33	n.a.	S 15
M16	15 18 56	20°17'07	25°29	29°34	25°12	1°48	21°52	14°14	24° 1	22°46	29°41	5°51	4°50	3°40	n.a.	M16
T 17	15 22 52	21°14'16	7♏35	0♉ 4	26°23	2°28	21°58	14°10	24° 5	22°44	29°41	5°41	4°47	3°47	n.a.	T 17
W18	15 26 49	22°11'25	19°51	0°38	27°34	3° 7	22° 3	14° 6	24° 8	22°43	29°41	5°29	4°44	3°53	n.a.	W18
T 19	15 30 45	23° 8'33	2♐19	1°16	28°44	3°46	22° 9	14° 2	24°11	22°41	29°42	5°16	4°41	4° 0	n.a.	T 19
F 20	15 34 42	24° 5'42	14°58	1°59	29°55	4°26	22°14	13°58	24°14	22°40	29°42	5° 4	4°38	4° 6	n.a.	F 20
S 21	15 38 39	25° 2'49	27°49	2°46	1♋ 5	5° 5	22°19	13°54	24°17	22°38	29°42	4°53	4°34	4°13	n.a.	S 21
S 22	15 42 35	25°59'57	10♑51	3°36	2°16	5°44	22°24	13°50	24°20	22°36	29°43	4°44	4°31	4°20	n.a.	S 22
M23	15 46 32	26°57'04	24° 6	4°31	3°26	6°23	22°28	13°46	24°23	22°35	29°43	4°39	4°28	4°26	n.a.	M23
T 24	15 50 28	27°54'11	7♒32	5°30	4°36	7° 2	22°33	13°42	24°26	22°33	29°43	4°36	4°25	4°33	n.a.	T 24
W25	15 54 25	28°51'19	21°12	6°33	5°46	7°42	22°37	13°38	24°29	22°32	29°43	4°35	4°22	4°40	n.a.	W25
T 26	15 58 21	29°48'26	5♓ 6	7°39	6°56	8°21	22°42	13°33	24°32	22°30	29°44	4°35	4°19	4°46	n.a.	T 26
F 27	16 2 18	0♊45'33	19°14	8°49	8° 6	9° 0	22°46	13°29	24°35	22°28	29°44	4°34	4°15	4°53	n.a.	F 27
S 28	16 6 15	1°42'41	3♈36	10° 3	9°16	9°39	22°49	13°25	24°38	22°27	29°44	4°32	4°12	5° 0	n.a.	S 28
S 29	16 10 11	2°39'48	18° 9	11°21	10°26	10°18	22°53	13°21	24°41	22°25	29°44	4°28	4° 9	5° 6	n.a.	S 29
M30	16 14 8	3°36'56	2♉48	12°42	11°36	10°57	22°56	13°16	24°44	22°24	29°44	4°21	4° 6	5°13	n.a.	M30
T 31	16 18 4	4♊34'03	17♉28	14♉ 6	12♋45	11♊36	23♒ 0	13♐12	24♈47	22♏22	29♒44	4♍12	4♍ 3	5♎20	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	13n40	1n 1	2s40	10n 2	1s57	23n17	1n31	19n 0	0n34	15s57	1s 4	21s46	1n 6	8n40	0s29	17s 9	1n41	26s28	15s48	9n 1	9n33	1n18			n.a.
M 2	13 59	5 51	3 42	9 38	2 12	23 31	1 33	19 11	0 35	15 54	1 4	21 46	1 6	8 41	0 29	17 9	1 41	26 28	15 49	9 4	9 34	1 16			n.a.
T 3	14 18	10 19	4 29	9 15	2 26	23 44	1 35	19 22	0 35	15 52	1 4	21 46	1 6	8 43	0 29	17 9	1 41	26 28	15 49	9 6	9 35	1 14			n.a.
W 4	14 36	14 4	4 56	8 54	2 39	23 56	1 37	19 32	0 36	15 50	1 4	21 45	1 6	8 44	0 29	17 8	1 41	26 28	15 49	9 10	9 37	1 12			n.a.
T 5	14 55	16 53	5 4	8 35	2 51	24 8	1 39	19 43	0 36	15 48	1 5	21 45	1 6	8 45	0 29	17 8	1 41	26 28	15 50	9 13	9 38	1 10			n.a.
F 6	15 13	18 36	4 53	8 18	3 2	24 19	1 40	19 53	0 37	15 46	1 5	21 45	1 6	8 46	0 29	17 7	1 41	26 28	15 50	9 17	9 39	1 8			n.a.
S 7	15 31	19 10	4 25	8 4	3 12	24 30	1 42	20 3	0 37	15 43	1 5	21 44	1 6	8 48	0 29	17 7	1 41	26 28	15 50	9 19	9 40	1 6			n.a.
S 8	15 49	18 40	3 44	7 52	3 21	24 40	1 44	20 13	0 38	15 41	1 6	21 44	1 6	8 49	0 29	17 6	1 41	26 28	15 51	9 21	9 41	1 4			n.a.
M 9	16 6	17 12	2 53	7 43	3 28	24 49	1 45	20 22	0 38	15 39	1 6	21 44	1 6	8 50	0 29	17 6	1 41	26 28	15 51	9 22	9 42	1 2			n.a.
T 10	16 23	14 58	1 55	7 36	3 35	24 57	1 47	20 32	0 38	15 37	1 6	21 43	1 6	8 51	0 29	17 6	1 41	26 28	15 51	9 22	9 44	1 0			n.a.
W11	16 40	12 7	0 53	7 32	3 40	25 5	1 48	20 41	0 39	15 36	1 6	21 43	1 6	8 53	0 29	17 5	1 41	26 28	15 52	9 22	9 45	0 58			n.a.
T 12	16 57	8 48	0n10	7 31	3 44	25 12	1 50	20 51	0 39	15 34	1 7	21 42	1 6	8 54	0 29	17 5	1 41	26 29	15 52	9 22	9 46	0 56			n.a.
F 13	17 14	5 9	1 13	7 32	3 47	25 18	1 51	21 0	0 40	15 32	1 7	21 42	1 6	8 55	0 29	17 4	1 41	26 29	15 53	9 22	9 47	0 54			n.a.
S 14	17 30	1 20	2 12	7 37	3 49	25 23	1 52	21 9	0 40	15 30	1 7	21 42	1 6	8 56	0 29	17 4	1 41	26 29	15 53	9 23	9 48	0 52			n.a.
S 15	17 46	2s34	3 5	7 43	3 50	25 28	1 54	21 17	0 41	15 28	1 8	21 41	1 6	8 57	0 29	17 4	1 41	26 29	15 53	9 25	9 50	0 50			n.a.
M16	18 1	6 23	3 50	7 52	3 49	25 32	1 55	21 26	0 41	15 27	1 8	21 41	1 6	8 59	0 29	17 3	1 41	26 29	15 54	9 28	9 51	0 48			n.a.
T 17	18 16	10 0	4 26	8 4	3 48	25 36	1 56	21 34	0 42	15 25	1 8	21 40	1 6	9 0	0 29	17 3	1 41	26 29	15 54	9 32	9 52	0 46			n.a.
W18	18 31	13 15	4 50	8 18	3 46	25 38	1 57	21 42	0 42	15 24	1 8	21 40	1 6	9 1	0 29	17 2	1 41	26 30	15 54	9 36	9 53	0 44			n.a.
T 19	18 46	15 57	5 0	8 34	3 43	25 40	1 58	21 50	0 42	15 22	1 9	21 40	1 6	9 2	0 29	17 2	1 41	26 30	15 55	9 41	9 54	0 42			n.a.
F 20	19 1	17 57	4 56	8 52	3 39	25 41	1 59	21 58	0 43	15 21	1 9	21 39	1 6	9 3	0 29	17 2	1 41	26 30	15 55	9 46	9 55	0 40			n.a.
S 21	19 15	19 4	4 38	9 13	3 34	25 42	1 59	22 6	0 43	15 19	1 9	21 39	1 6	9 4	0 29	17 1	1 41	26 30	15 55	9 50	9 57	0 38			n.a.
S 22	19 28	19 13	4 4	9 35	3 29	25 41	2 0	22 13	0 44	15 18	1 10	21 38	1 6	9 6	0 29	17 1	1 41	26 31	15 56	9 53	9 58	0 36			n.a.
M23	19 42	18 19	3 17	10 0	3 23	25 40	2 0	22 21	0 44	15 17	1 10	21 38	1 5	9 7	0 29	17 0	1 41	26 31	15 56	9 55	9 59	0 35			n.a.
T 24	19 55	16 22	2 18	10 26	3 16	25 39	2 1	22 28	0 45	15 16	1 10	21 37	1 5	9 8	0 29	17 0	1 40	26 31	15 57	9 56	10 0	0 33			n.a.
W25	20 8	13 29	1 10	10 54	3 8	25 36	2 1	22 35	0 45	15 14	1 11	21 37	1 5	9 9	0 29	17 0	1 40	26 31	15 57	9 56	10 1	0 31			n.a.
T 26	20 20	9 47	0s 3	11 23	3 0	25 33	2 2	22 42	0 45	15 13	1 11	21 36	1 5	9 10	0 29	16 59	1 40	26 32	15 57	9 57	10 2	0 29			n.a.
F 27	20 33	5 29	1 17	11 54	2 51	25 29	2 2	22 48	0 46	15 12	1 11	21 36	1 5	9 11	0 29	16 59	1 40	26 32	15 58	9 57	10 4	0 27			n.a.
S 28	20 44	0 48	2 27	12 26	2 42	25 25	2 2	22 55	0 46	15 11	1 12	21 35	1 5	9 12	0 29	16 58	1 40	26 32	15 58	9 57	10 5	0 25			n.a.
S 29	20 56	3n59	3 29	13 0	2 32	25 19	2 2	23 1	0 47	15 10	1 12	21 35	1 5	9 13	0 29	16 58	1 40	26 32	15 58	9 59	10 6	0 23			n.a.
M30	21 7	8 34	4 17	13 34	2 22	25 13	2 2	23 7	0 47	15 10	1 12	21 35	1 5	9 14	0 29	16 58	1 40	26 33	15 59	10 1	10 7	0 21			n.a.
T 31	21n18	12n38	4s48	14n10	2s11	25n 7	2n 2	23n13	0n47	15s 9	1s13	21s34	1n 5	9n15	0s29	16s57	1n40	26s33	15s59	10n 5	10n 8	0n19			n.a.

Julian Day Number = 1662372.5, Delta T = 03h25m01s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'58, Lahiri = - 6°10'58 Julian Calendar 1 May 162 BCE == Greg. Calendar 28 Apr. 162 BCE

The year -161 astronomical counting style corresponds to year 162 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 162 BCE
geocentric

JUNE 162 BCE (-161) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 22 1	5♊31'11	2♊ 1	15♉35	13♋55	12♊15	23♒ 3	13°R 8	24♈50	22°R20	29♒44	4°R 1	3♍59	5♎26	n.a.	W 1
T 2	16 25 57	6°28'19	16°19	17° 6	15° 5	12°54	23° 6	13♐ 3	24°53	22♏19	29°44	3♍49	3°56	5°33	n.a.	T 2
F 3	16 29 54	7°25'27	0♋18	18°42	16°14	13°33	23° 8	12°59	24°55	22°17	29°44	3°38	3°53	5°40	n.a.	F 3
S 4	16 33 50	8°22'35	13°52	20°20	17°23	14°12	23°11	12°55	24°58	22°16	29°R44	3°29	3°50	5°46	n.a.	S 4
S 5	16 37 47	9°19'43	27° 1	22° 2	18°33	14°51	23°13	12°50	25° 1	22°14	29°44	3°23	3°47	5°53	n.a.	S 5
M 6	16 41 44	10°16'50	9♌47	23°47	19°42	15°29	23°16	12°46	25° 4	22°13	29°44	3°19	3°44	6° 0	n.a.	M 6
T 7	16 45 40	11°13'58	22°11	25°35	20°51	16° 8	23°17	12°41	25° 6	22°11	29°44	3°18	3°40	6° 6	n.a.	T 7
W 8	16 49 37	12°11'05	4♍18	27°26	22° 0	16°47	23°19	12°37	25° 9	22°10	29°44	3°D17	3°37	6°13	n.a.	W 8
T 9	16 53 33	13° 8'12	16°15	29°20	23° 9	17°26	23°21	12°33	25°11	22° 8	29°44	3°R17	3°34	6°20	n.a.	T 9
F 10	16 57 30	14° 5'20	28° 5	1♊16	24°17	18° 5	23°22	12°28	25°14	22° 7	29°44	3°17	3°31	6°26	n.a.	F 10
S 11	17 1 26	15° 2'27	9♎54	3°15	25°26	18°44	23°23	12°24	25°16	22° 5	29°44	3°14	3°28	6°33	n.a.	S 11
S 12	17 5 23	15°59'34	21°48	5°16	26°35	19°22	23°24	12°19	25°19	22° 4	29°44	3°10	3°25	6°40	n.a.	S 12
M13	17 9 19	16°56'42	3♏50	7°19	27°43	20° 1	23°25	12°15	25°21	22° 2	29°43	3° 2	3°21	6°47	n.a.	M13
T 14	17 13 16	17°53'50	16° 4	9°24	28°51	20°40	23°26	12°11	25°24	22° 1	29°43	2°53	3°18	6°53	n.a.	T 14
W15	17 17 13	18°50'58	28°31	11°30	29°59	21°18	23°26	12° 6	25°26	22° 0	29°43	2°42	3°15	7° 0	n.a.	W15
T 16	17 21 9	19°48'06	11♐14	13°37	1♌ 8	21°57	23°27	12° 2	25°29	21°58	29°43	2°30	3°12	7° 7	n.a.	T 16
F 17	17 25 6	20°45'15	24°12	15°44	2°16	22°36	23°R27	11°58	25°31	21°57	29°42	2°18	3° 9	7°13	n.a.	F 17
S 18	17 29 2	21°42'25	7♑23	17°52	3°23	23°14	23°26	11°53	25°33	21°55	29°42	2° 8	3° 5	7°20	n.a.	S 18
S 19	17 32 59	22°39'35	20°47	20° 1	4°31	23°53	23°26	11°49	25°35	21°54	29°42	2° 0	3° 2	7°27	n.a.	S 19
M20	17 36 55	23°36'46	4♒22	22° 9	5°39	24°32	23°26	11°45	25°38	21°53	29°41	1°54	2°59	7°33	n.a.	M20
T 21	17 40 52	24°33'57	18° 6	24°17	6°46	25°10	23°25	11°40	25°40	21°52	29°41	1°52	2°56	7°40	n.a.	T 21
W22	17 44 49	25°31'10	1♓58	26°24	7°53	25°49	23°24	11°36	25°42	21°50	29°41	1°D51	2°53	7°47	n.a.	W22
T 23	17 48 45	26°28'23	15°57	28°30	9° 1	26°27	23°23	11°32	25°44	21°49	29°40	1°51	2°50	7°53	n.a.	T 23
F 24	17 52 42	27°25'38	0♈ 3	0♋36	10° 8	27° 6	23°22	11°28	25°46	21°48	29°40	1°R52	2°46	8° 0	n.a.	F 24
S 25	17 56 38	28°22'53	14°14	2°40	11°14	27°45	23°20	11°24	25°48	21°46	29°39	1°51	2°43	8° 7	n.a.	S 25
S 26	18 0 35	29°20'10	28°30	4°43	12°21	28°23	23°18	11°20	25°50	21°45	29°39	1°47	2°40	8°13	n.a.	S 26
M27	18 4 31	0♋17'28	12♉47	6°45	13°28	29° 2	23°16	11°16	25°52	21°44	29°38	1°42	2°37	8°20	n.a.	M27
T 28	18 8 28	1°14'46	27° 1	8°45	14°34	29°40	23°14	11°12	25°54	21°43	29°38	1°35	2°34	8°27	n.a.	T 28
W29	18 12 24	2°12'06	11♊ 9	10°43	15°41	0♋19	23°12	11° 8	25°56	21°42	29°37	1°25	2°31	8°33	n.a.	W29
T 30	18 16 21	3♋ 9'27	25♊ 5	12♋41	16♌47	0♋57	23♒10	11♐ 4	25♈57	21♏41	29♒37	1♍16	2♍27	8♎40	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21n28	15n54	5s 0	14n46	2s 0	24n59	2n 1	23n19	0n48	15s 8	1s13	21s34	1n 5	9n16	0s29	16s57	1n40	26s33	16s 0	10n 9	10n 9	0n17		n.a.
T 2	21 38	18 8	4 54	15 23	1 49	24 51	2 1	23 24	0 48	15 7	1 13	21 33	1 5	9 18	0 29	16 56	1 40	26 34	16 0	10 13	10 11	0 15		n.a.
F 3	21 48	19 14	4 29	16 1	1 38	24 42	2 1	23 29	0 49	15 7	1 13	21 33	1 5	9 19	0 29	16 56	1 40	26 34	16 0	10 17	10 12	0 13		n.a.
S 4	21 57	19 10	3 50	16 39	1 26	24 33	2 0	23 34	0 49	15 6	1 14	21 32	1 5	9 20	0 29	16 56	1 40	26 34	16 1	10 20	10 13	0 11		n.a.
S 5	22 6	18 3	2 59	17 18	1 14	24 23	1 59	23 39	0 49	15 6	1 14	21 32	1 5	9 21	0 29	16 55	1 40	26 35	16 1	10 23	10 14	0 9		n.a.
M 6	22 15	16 3	2 1	17 56	1 2	24 12	1 59	23 44	0 50	15 5	1 14	21 31	1 5	9 22	0 29	16 55	1 40	26 35	16 1	10 24	10 15	0 7		n.a.
T 7	22 23	13 21	0 59	18 34	0 50	24 1	1 58	23 49	0 50	15 5	1 15	21 31	1 5	9 22	0 29	16 55	1 40	26 35	16 2	10 25	10 16	0 5		n.a.
W 8	22 31	10 7	0n 5	19 12	0 38	23 49	1 57	23 53	0 50	15 5	1 15	21 30	1 4	9 23	0 29	16 54	1 40	26 36	16 2	10 25	10 18	0 3		n.a.
T 9	22 38	6 32	1 8	19 49	0 26	23 36	1 56	23 57	0 51	15 5	1 15	21 30	1 4	9 24	0 29	16 54	1 40	26 36	16 3	10 25	10 19	0 1		n.a.
F 10	22 45	2 43	2 8	20 25	0 14	23 23	1 55	24 1	0 51	15 4	1 16	21 29	1 4	9 25	0 29	16 54	1 40	26 37	16 3	10 25	10 20	0s 1		n.a.
S 11	22 52	1s12	3 1	21 0	0 2	23 9	1 53	24 5	0 52	15 4	1 16	21 29	1 4	9 26	0 29	16 53	1 40	26 37	16 3	10 26	10 21	0 3		n.a.
S 12	22 58	5 5	3 47	21 34	0n 9	22 55	1 52	24 9	0 52	15 4	1 16	21 28	1 4	9 27	0 29	16 53	1 40	26 37	16 4	10 28	10 22	0 5		n.a.
M13	23 4	8 48	4 24	22 6	0 20	22 40	1 50	24 12	0 52	15 4	1 17	21 28	1 4	9 28	0 29	16 53	1 40	26 38	16 4	10 30	10 23	0 7		n.a.
T 14	23 9	12 13	4 49	22 37	0 30	22 24	1 49	24 15	0 53	15 4	1 17	21 27	1 4	9 29	0 29	16 52	1 40	26 38	16 4	10 34	10 25	0 9		n.a.
W15	23 14	15 10	5 1	23 5	0 40	22 8	1 47	24 18	0 53	15 5	1 17	21 27	1 4	9 30	0 29	16 52	1 40	26 39	16 5	10 38	10 26	0 11		n.a.
T 16	23 19	17 28	4 58	23 31	0 50	21 51	1 45	24 21	0 53	15 5	1 18	21 26	1 4	9 31	0 29	16 52	1 40	26 39	16 5	10 42	10 27	0 13		n.a.
F 17	23 23	18 55	4 40	23 54	0 58	21 34	1 44	24 24	0 54	15 5	1 18	21 26	1 4	9 31	0 29	16 51	1 40	26 40	16 6	10 46	10 28	0 15		n.a.
S 18	23 27	19 23	4 7	24 16	1 7	21 16	1 41	24 26	0 54	15 5	1 18	21 25	1 4	9 32	0 29	16 51	1 40	26 40	16 6	10 50	10 29	0 17		n.a.
S 19	23 30	18 47	3 20	24 34	1 14	20 57	1 39	24 28	0 54	15 6	1 19	21 25	1 3	9 33	0 29	16 51	1 40	26 40	16 6	10 53	10 30	0 19		n.a.
M20	23 33	17 7	2 21	24 49	1 21	20 39	1 37	24 31	0 55	15 6	1 19	21 24	1 3	9 34	0 29	16 50	1 40	26 41	16 7	10 55	10 31	0 21		n.a.
T 21	23 36	14 26	1 13	25 2	1 27	20 19	1 35	24 32	0 55	15 7	1 19	21 24	1 3	9 35	0 29	16 50	1 40	26 41	16 7	10 56	10 33	0 23		n.a.
W22	23 38	10 54	0s 1	25 12	1 32	19 59	1 32	24 34	0 55	15 7	1 20	21 23	1 3	9 35	0 29	16 50	1 40	26 42	16 7	10 56	10 34	0 25		n.a.
T 23	23 40	6 45	1 15	25 19	1 37	19 39	1 30	24 36	0 56	15 8	1 20	21 23	1 3	9 36	0 29	16 49	1 40	26 42	16 8	10 56	10 35	0 27		n.a.
F 24	23 41	2 11	2 24	25 24	1 41	19 18	1 27	24 37	0 56	15 9	1 20	21 23	1 3	9 37	0 29	16 49	1 40	26 43	16 8	10 56	10 36	0 29		n.a.
S 25	23 42	2n31	3 26	25 25	1 44	18 57	1 24	24 38	0 56	15 10	1 21	21 22	1 3	9 38	0 29	16 49	1 40	26 43	16 8	10 56	10 37	0 31		n.a.
S 26	23 43	7 6	4 15	25 24	1 47	18 35	1 21	24 39	0 57	15 11	1 21	21 22	1 3	9 38	0 29	16 49	1 40	26 44	16 9	10 57	10 38	0 33		n.a.
M27	23 43	11 16	4 48	25 21	1 48	18 13	1 18	24 40	0 57	15 12	1 21	21 21	1 3	9 39	0 29	16 48	1 40	26 44	16 9	10 59	10 40	0 35		n.a.
T 28	23 42	14 48	5 4	25 14	1 50	17 51	1 15	24 40	0 57	15 13	1 22	21 21	1 2	9 40	0 29	16 48	1 39	26 45	16 9	11 2	10 41	0 37		n.a.
W29	23 42	17 25	5 0	25 6	1 50	17 28	1 12	24 40	0 58	15 14	1 22	21 20	1 2	9 40	0 29	16 48	1 39	26 45	16 10	11 5	10 42	0 39		n.a.
T 30	23n40	18n58	4s39	24n55	1n50	17n 5	1n 9	24n41	0n58	15s15	1s22	21s20	1n 2	9n41	0s29	16s48	1n39	26s46	16s10	11n 9	10n43	0s41		n.a.

Julian Day Number = 1662403.5, Delta T = 03h25m01s
Ecliptic obliquity = 23°42'44, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'54, Lahiri = - 6°10'53 Julian Calendar 1 June 162 BCE == Greg. Calendar 29 May 162 BCE

The year -161 astronomical counting style corresponds to year 162 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 162 BCE
geocentric

JULY 162 BCE (-161) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 20 18	4♋ 6'49	8♋44	14♋36	17♌53	1♋36	23°R 7	11°R 0	25♈59	21°R40	29°R36	1°R 7	2♍24	8♎47	n.a.	F 1
S 2	18 24 14	5° 4'12	22° 5	16°30	18°59	2°14	23♒ 4	10♐56	26° 1	21♏39	29♒36	1♍ 0	2°21	8°53	n.a.	S 2
S 3	18 28 11	6° 1'36	5♌ 5	18°23	20° 4	2°52	23° 1	10°52	26° 3	21°37	29°35	0°55	2°18	9° 0	n.a.	S 3
M 4	18 32 7	6°59'00	17°44	20°14	21°10	3°31	22°58	10°48	26° 4	21°36	29°34	0°52	2°15	9° 7	n.a.	M 4
T 5	18 36 4	7°56'26	0♍ 6	22° 3	22°15	4° 9	22°54	10°45	26° 6	21°35	29°34	0°D51	2°11	9°13	n.a.	T 5
W 6	18 40 0	8°53'52	12°13	23°50	23°20	4°48	22°51	10°41	26° 7	21°34	29°33	0°51	2° 8	9°20	n.a.	W 6
T 7	18 43 57	9°51'19	24°10	25°36	24°25	5°26	22°47	10°38	26° 9	21°34	29°32	0°52	2° 5	9°27	n.a.	T 7
F 8	18 47 53	10°48'47	6♎ 1	27°21	25°30	6° 4	22°43	10°34	26°10	21°33	29°32	0°R53	2° 2	9°33	n.a.	F 8
S 9	18 51 50	11°46'16	17°51	29° 4	26°34	6°43	22°39	10°31	26°12	21°32	29°31	0°53	1°59	9°40	n.a.	S 9
S 10	18 55 47	12°43'46	29°46	0♌45	27°38	7°21	22°35	10°27	26°13	21°31	29°30	0°51	1°56	9°47	n.a.	S 10
M11	18 59 43	13°41'17	11♏51	2°25	28°43	8° 0	22°30	10°24	26°14	21°30	29°29	0°48	1°52	9°53	n.a.	M11
T 12	19 3 40	14°38'49	24°10	4° 3	29°46	8°38	22°25	10°21	26°16	21°29	29°29	0°43	1°49	10° 0	n.a.	T 12
W13	19 7 36	15°36'22	6♐45	5°39	0♍50	9°16	22°21	10°17	26°17	21°28	29°28	0°36	1°46	10° 7	n.a.	W13
T 14	19 11 33	16°33'56	19°39	7°14	1°53	9°54	22°16	10°14	26°18	21°28	29°27	0°28	1°43	10°13	n.a.	T 14
F 15	19 15 29	17°31'31	2♑52	8°48	2°56	10°33	22°10	10°11	26°19	21°27	29°26	0°21	1°40	10°20	n.a.	F 15
S 16	19 19 26	18°29'08	16°24	10°20	3°59	11°11	22° 5	10° 8	26°20	21°26	29°25	0°15	1°37	10°27	n.a.	S 16
S 17	19 23 22	19°26'46	0♒11	11°50	5° 2	11°49	22° 0	10° 5	26°21	21°26	29°24	0°10	1°33	10°33	n.a.	S 17
M18	19 27 19	20°24'26	14°11	13°19	6° 4	12°28	21°54	10° 3	26°22	21°25	29°24	0° 7	1°30	10°40	n.a.	M18
T 19	19 31 16	21°22'07	28°20	14°46	7° 6	13° 6	21°48	10° 0	26°23	21°24	29°23	0°D 6	1°27	10°47	n.a.	T 19
W20	19 35 12	22°19'50	12♓33	16°12	8° 8	13°44	21°43	9°57	26°24	21°24	29°22	0° 7	1°24	10°53	n.a.	W20
T 21	19 39 9	23°17'34	26°49	17°36	9°10	14°22	21°36	9°55	26°25	21°23	29°21	0° 8	1°21	11° 0	n.a.	T 21
F 22	19 43 5	24°15'20	11♈ 4	18°58	10°11	15° 1	21°30	9°52	26°26	21°23	29°20	0° 9	1°17	11° 7	n.a.	F 22
S 23	19 47 2	25°13'08	25°16	20°19	11°12	15°39	21°24	9°50	26°26	21°22	29°19	0°R10	1°14	11°13	n.a.	S 23
S 24	19 50 58	26°10'58	9♉22	21°38	12°12	16°17	21°18	9°47	26°27	21°22	29°18	0° 9	1°11	11°20	n.a.	S 24
M25	19 54 55	27° 8'50	23°23	22°55	13°13	16°55	21°11	9°45	26°28	21°21	29°17	0° 7	1° 8	11°27	n.a.	M25
T 26	19 58 51	28° 6'44	7♊15	24°11	14°12	17°33	21° 4	9°43	26°28	21°21	29°16	0° 3	1° 5	11°33	n.a.	T 26
W27	20 2 48	29° 4'40	20°56	25°24	15°12	18°12	20°58	9°41	26°29	21°20	29°15	29♌59	1° 2	11°40	n.a.	W27
T 28	20 6 45	0♌ 2'37	4♋25	26°36	16°11	18°50	20°51	9°39	26°29	21°20	29°14	29°54	0°58	11°47	n.a.	T 28
F 29	20 10 41	1° 0'37	17°40	27°45	17°10	19°28	20°44	9°37	26°30	21°20	29°13	29°50	0°55	11°54	n.a.	F 29
S 30	20 14 38	1°58'38	0♌40	28°53	18° 9	20° 6	20°37	9°35	26°30	21°19	29°12	29°46	0°52	12° 0	n.a.	S 30
S 31	20 18 34	2♌56'41	13♌24	29♌58	19♍ 7	20♋44	20♒29	9♐33	26♈30	21♏19	29♒11	29♌44	0♍49	12♎ 7	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23n39	19n24	4s 2	24n42	1n49	16n41	1n 5	24n40	0n58	15s16	1s23	21s19	1n 2	9n42	0s29	16s47	1n39	26s46	16s10	11n12	10n44	0s43		n.a.
S 2	23 37	18 43	3 12	24 28	1 48	16 17	1 2	24 40	0 59	15 17	1 23	21 19	1 2	9 42	0 29	16 47	1 39	26 47	16 11	11 15	10 45	0 45		n.a.
S 3	23 34	17 3	2 14	24 11	1 46	15 52	0 58	24 40	0 59	15 18	1 23	21 19	1 2	9 43	0 29	16 47	1 39	26 47	16 11	11 16	10 46	0 47		n.a.
M 4	23 32	14 35	1 10	23 52	1 43	15 28	0 54	24 39	0 59	15 20	1 23	21 18	1 2	9 43	0 29	16 47	1 39	26 48	16 11	11 18	10 48	0 49		n.a.
T 5	23 28	11 30	0 4	23 32	1 40	15 3	0 50	24 38	1 0	15 21	1 24	21 18	1 2	9 44	0 29	16 46	1 39	26 48	16 12	11 18	10 49	0 51		n.a.
W 6	23 25	7 59	1n 1	23 10	1 37	14 37	0 46	24 37	1 0	15 23	1 24	21 17	1 1	9 45	0 29	16 46	1 39	26 49	16 12	11 18	10 50	0 53		n.a.
T 7	23 20	4 13	2 2	22 47	1 33	14 12	0 42	24 36	1 0	15 24	1 24	21 17	1 1	9 45	0 29	16 46	1 39	26 49	16 12	11 17	10 51	0 55		n.a.
F 8	23 16	0 18	2 58	22 22	1 28	13 46	0 38	24 35	1 0	15 26	1 25	21 17	1 1	9 46	0 29	16 46	1 39	26 50	16 12	11 17	10 52	0 57		n.a.
S 9	23 11	3s36	3 46	21 57	1 24	13 20	0 34	24 33	1 1	15 27	1 25	21 16	1 1	9 46	0 29	16 46	1 39	26 51	16 13	11 17	10 53	0 59		n.a.
S 10	23 6	7 24	4 25	21 30	1 18	12 53	0 29	24 31	1 1	15 29	1 25	21 16	1 1	9 47	0 29	16 45	1 39	26 51	16 13	11 18	10 55	1 1		n.a.
M11	23 0	10 56	4 52	21 2	1 13	12 27	0 25	24 29	1 1	15 31	1 26	21 16	1 1	9 47	0 29	16 45	1 39	26 52	16 13	11 19	10 56	1 3		n.a.
T 12	22 54	14 4	5 7	20 33	1 7	12 0	0 20	24 27	1 2	15 33	1 26	21 15	1 1	9 48	0 29	16 45	1 39	26 52	16 14	11 21	10 57	1 5		n.a.
W13	22 47	16 39	5 7	20 3	1 1	11 33	0 15	24 25	1 2	15 35	1 26	21 15	1 0	9 48	0 29	16 45	1 39	26 53	16 14	11 23	10 58	1 7		n.a.
T 14	22 40	18 27	4 52	19 32	0 54	11 5	0 11	24 22	1 2	15 37	1 26	21 15	1 0	9 48	0 29	16 45	1 39	26 53	16 14	11 26	10 59	1 9		n.a.
F 15	22 33	19 20	4 21	19 1	0 47	10 38	0 6	24 20	1 2	15 38	1 27	21 14	1 0	9 49	0 30	16 45	1 39	26 54	16 14	11 28	11 0	1 11		n.a.
S 16	22 25	19 8	3 35	18 29	0 40	10 10	0 1	24 17	1 3	15 40	1 27	21 14	1 0	9 49	0 30	16 45	1 39	26 54	16 15	11 31	11 1	1 13		n.a.
S 17	22 17	17 49	2 35	17 57	0 32	9 42	0s 5	24 14	1 3	15 42	1 27	21 14	1 0	9 50	0 30	16 44	1 39	26 55	16 15	11 32	11 3	1 15		n.a.
M18	22 9	15 24	1 26	17 24	0 24	9 14	0 10	24 10	1 3	15 45	1 27	21 14	1 0	9 50	0 30	16 44	1 38	26 55	16 15	11 33	11 4	1 17		n.a.
T 19	22 0	12 2	0 10	16 51	0 16	8 46	0 15	24 7	1 4	15 47	1 28	21 13	1 0	9 50	0 30	16 44	1 38	26 56	16 15	11 34	11 5	1 19		n.a.
W20	21 50	7 58	1s 7	16 18	0 8	8 18	0 21	24 3	1 4	15 49	1 28	21 13	0 59	9 50	0 30	16 44	1 38	26 57	16 16	11 34	11 6	1 21		n.a.
T 21	21 41	3 25	2 20	15 44	0s 0	7 49	0 26	23 59	1 4	15 51	1 28	21 13	0 59	9 51	0 30	16 44	1 38	26 57	16 16	11 33	11 7	1 23		n.a.
F 22	21 31	1n17	3 25	15 10	0 9	7 21	0 32	23 55	1 4	15 53	1 28	21 13	0 59	9 51	0 30	16 44	1 38	26 58	16 16	11 33	11 8	1 25		n.a.
S 23	21 20	5 54	4 16	14 36	0 18	6 52	0 38	23 51	1 5	15 56	1 29	21 12	0 59	9 51	0 30	16 44	1 38	26 58	16 16	11 33	11 9	1 27		n.a.
S 24	21 9	10 10	4 52	14 2	0 27	6 23	0 44	23 47	1 5	15 58	1 29	21 12	0 59	9 52	0 30	16 44	1 38	26 59	16 17	11 33	11 11	1 29		n.a.
M25	20 58	13 50	5 10	13 28	0 36	5 55	0 49	23 42	1 5	16 0	1 29	21 12	0 59	9 52	0 30	16 44	1 38	26 59	16 17	11 34	11 12	1 31		n.a.
T 26	20 47	16 40	5 10	12 54	0 45	5 26	0 56	23 38	1 5	16 3	1 29	21 12	0 58	9 52	0 30	16 44	1 38	27 0	16 17	11 35	11 13	1 33		n.a.
W27	20 35	18 33	4 52	12 21	0 54	4 57	1 2	23 33	1 6	16 5	1 30	21 12	0 58	9 52	0 30	16 44	1 38	27 1	16 17	11 36	11 14	1 35		n.a.
T 28	20 22	19 21	4 18	11 47	1 4	4 28	1 8	23 28	1 6	16 8	1 30	21 12	0 58	9 52	0 30	16 44	1 38	27 1	16 17	11 38	11 15	1 37		n.a.
F 29	20 10	19 3	3 30	11 14	1 14	3 59	1 14	23 22	1 6	16 10	1 30	21 11	0 58	9 52	0 30	16 44	1 38	27 2	16 18	11 40	11 16	1 39		n.a.
S 30	19 57	17 45	2 33	10 42	1 23	3 30	1 21	23 17	1 6	16 12	1 30	21 11	0 58	9 53	0 30	16 44	1 38	27 2	16 18	11 41	11 17	1 41		n.a.
S 31	19n43	15n34	1s28	10n10	1s33	3n 1	1s27	23n11	1n 7	16s15	1s30	21s11	0n58	9n53	0s30	16s44	1n38	27s 3	16s18	11n42	11n19	1s43		n.a.

Julian Day Number = 1662433.5, Delta T = 03h25m00s
Ecliptic obliquity = 23°42'44, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'50, Lahiri = - 6°10'49 Julian Calendar 1 July 162 BCE == Greg. Calendar 28 June 162 BCE

The year -161 astronomical counting style corresponds to year 162 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 162 BCE
geocentric

AUGUST 162 BCE (-161) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 22 31	3♌54'45	25♌53	1♍ 1	20♍ 4	21♋23	20°R22	9°R31	26♈31	21°R19	29°R10	29°D43	0♍46	12♎14	n.a.	M 1
T 2	20 26 27	4°52'51	8♍ 8	2° 1	21° 2	22° 1	20♒15	9♐30	26°31	21♏19	29♒ 9	29♌43	0°43	12°20	n.a.	T 2
W 3	20 30 24	5°50'59	20°12	2°59	21°59	22°39	20° 7	9°28	26°31	21°19	29° 8	29°44	0°39	12°27	n.a.	W 3
T 4	20 34 20	6°49'08	2♎ 7	3°54	22°55	23°17	20° 0	9°27	26°31	21°19	29° 6	29°46	0°36	12°34	n.a.	T 4
F 5	20 38 17	7°47'19	13°57	4°46	23°51	23°55	19°52	9°26	26°31	21°18	29° 5	29°47	0°33	12°40	n.a.	F 5
S 6	20 42 14	8°45'32	25°47	5°35	24°46	24°33	19°44	9°24	26°R31	21°18	29° 4	29°49	0°30	12°47	n.a.	S 6
S 7	20 46 10	9°43'46	7♏42	6°21	25°41	25°11	19°37	9°23	26°31	21°D18	29° 3	29°R49	0°27	12°54	n.a.	S 7
M 8	20 50 7	10°42'02	19°46	7° 3	26°36	25°50	19°29	9°22	26°31	21°18	29° 2	29°49	0°23	13° 0	n.a.	M 8
T 9	20 54 3	11°40'20	2♐ 5	7°41	27°30	26°28	19°21	9°21	26°31	21°18	29° 1	29°48	0°20	13° 7	n.a.	T 9
W10	20 58 0	12°38'39	14°41	8°15	28°23	27° 6	19°13	9°20	26°31	21°18	29° 0	29°46	0°17	13°14	n.a.	W10
T 11	21 1 56	13°37'00	27°39	8°45	29°15	27°44	19° 5	9°20	26°31	21°19	28°59	29°44	0°14	13°20	n.a.	T 11
F 12	21 5 53	14°35'22	10♑59	9°10	0♎ 8	28°22	18°57	9°19	26°30	21°19	28°57	29°42	0°11	13°27	n.a.	F 12
S 13	21 9 49	15°33'47	24°43	9°30	0°59	29° 0	18°49	9°18	26°30	21°19	28°56	29°40	0° 8	13°34	n.a.	S 13
S 14	21 13 46	16°32'13	8♒48	9°44	1°50	29°38	18°41	9°18	26°30	21°19	28°55	29°39	0° 4	13°40	n.a.	S 14
M15	21 17 42	17°30'41	23°11	9°53	2°40	0♌16	18°33	9°18	26°29	21°19	28°54	29°D38	0° 1	13°47	n.a.	M15
T 16	21 21 39	18°29'11	7♓46	9°R56	3°29	0°54	18°26	9°17	26°29	21°20	28°53	29°38	29♌58	13°54	n.a.	T 16
W17	21 25 36	19°27'43	22°27	9°53	4°18	1°33	18°18	9°17	26°28	21°20	28°52	29°39	29°55	14° 0	n.a.	W17
T 18	21 29 32	20°26'18	7♈ 7	9°43	5° 6	2°11	18°10	9°D17	26°28	21°20	28°50	29°39	29°52	14° 7	n.a.	T 18
F 19	21 33 29	21°24'54	21°41	9°26	5°53	2°49	18° 2	9°17	26°27	21°21	28°49	29°40	29°48	14°14	n.a.	F 19
S 20	21 37 25	22°23'33	6♉ 4	9° 3	6°39	3°27	17°54	9°17	26°26	21°21	28°48	29°41	29°45	14°21	n.a.	S 20
S 21	21 41 22	23°22'15	20°14	8°32	7°25	4° 5	17°46	9°18	26°26	21°21	28°47	29°R41	29°42	14°27	n.a.	S 21
M22	21 45 18	24°20'59	4♊ 8	7°54	8° 9	4°43	17°38	9°18	26°25	21°22	28°46	29°41	29°39	14°34	n.a.	M22
T 23	21 49 15	25°19'45	17°46	7°10	8°53	5°21	17°30	9°18	26°24	21°22	28°44	29°40	29°36	14°41	n.a.	T 23
W24	21 53 11	26°18'34	1♋ 7	6°19	9°35	5°59	17°22	9°19	26°23	21°23	28°43	29°40	29°33	14°47	n.a.	W24
T 25	21 57 8	27°17'25	14°13	5°23	10°17	6°37	17°14	9°19	26°22	21°24	28°42	29°40	29°29	14°54	n.a.	T 25
F 26	22 1 5	28°16'18	27° 5	4°22	10°58	7°15	17° 7	9°20	26°21	21°24	28°41	29°40	29°26	15° 1	n.a.	F 26
S 27	22 5 1	29°15'13	9♌44	3°18	11°37	7°53	16°59	9°21	26°20	21°25	28°40	29°D39	29°23	15° 7	n.a.	S 27
S 28	22 8 58	0♍14'11	22°10	2°12	12°16	8°31	16°51	9°22	26°19	21°25	28°38	29°39	29°20	15°14	n.a.	S 28
M29	22 12 54	1°13'11	4♍25	1° 5	12°53	9° 9	16°44	9°23	26°18	21°26	28°37	29°R39	29°17	15°21	n.a.	M29
T 30	22 16 51	2°12'12	16°31	29♌59	13°29	9°48	16°36	9°24	26°17	21°27	28°36	29°39	29°14	15°27	n.a.	T 30
W31	22 20 47	3♍11'16	28♍28	28♌56	14♎ 4	10♌26	16♒29	9♐25	26♈16	21♏28	28♒35	29♌39	29♌10	15♎34	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	19n30	12n42	0s21	9n38	1s43	2n33	1s34	23n 6	1n 7	16s17	1s31	21s11	0n57	9n53	0s30	16s44	1n38	27s 3	16s18	11n42	11n20	1s45			n.a.
T 2	19 16	9 20	0n46	9 8	1 52	2 4	1 40	23 0	1 7	16 20	1 31	21 11	0 57	9 53	0 30	16 44	1 38	27 4	16 18	11 42	11 21	1 47			n.a.
W 3	19 1	5 37	1 50	8 38	2 2	1 35	1 47	22 54	1 7	16 23	1 31	21 11	0 57	9 53	0 30	16 44	1 38	27 5	16 19	11 42	11 22	1 49			n.a.
T 4	18 47	1 44	2 49	8 9	2 12	1 6	1 54	22 47	1 8	16 25	1 31	21 11	0 57	9 53	0 30	16 44	1 38	27 5	16 19	11 41	11 23	1 51			n.a.
F 5	18 32	2s11	3 40	7 41	2 22	0 38	2 1	22 41	1 8	16 28	1 31	21 11	0 57	9 53	0 30	16 44	1 37	27 6	16 19	11 40	11 24	1 53			n.a.
S 6	18 17	6 1	4 22	7 14	2 31	0 9	2 8	22 34	1 8	16 30	1 31	21 11	0 57	9 53	0 30	16 44	1 37	27 6	16 19	11 40	11 25	1 55			n.a.
S 7	18 1	9 37	4 53	6 48	2 41	0s19	2 15	22 27	1 8	16 33	1 31	21 11	0 56	9 53	0 30	16 44	1 37	27 7	16 19	11 40	11 27	1 57			n.a.
M 8	17 45	12 53	5 11	6 24	2 50	0 48	2 22	22 21	1 8	16 36	1 32	21 11	0 56	9 53	0 30	16 44	1 37	27 7	16 19	11 40	11 28	1 59			n.a.
T 9	17 29	15 39	5 16	6 1	2 59	1 16	2 29	22 13	1 9	16 38	1 32	21 11	0 56	9 53	0 30	16 44	1 37	27 8	16 19	11 40	11 29	2 1			n.a.
W10	17 12	17 46	5 5	5 40	3 8	1 44	2 36	22 6	1 9	16 41	1 32	21 11	0 56	9 53	0 30	16 44	1 37	27 8	16 20	11 41	11 30	2 3			n.a.
T 11	16 56	19 2	4 39	5 22	3 16	2 12	2 44	21 59	1 9	16 43	1 32	21 11	0 56	9 53	0 30	16 44	1 37	27 9	16 20	11 42	11 31	2 5			n.a.
F 12	16 39	19 18	3 58	5 5	3 24	2 40	2 51	21 51	1 9	16 46	1 32	21 11	0 56	9 52	0 30	16 44	1 37	27 9	16 20	11 42	11 32	2 7			n.a.
S 13	16 21	18 27	3 2	4 50	3 32	3 7	2 58	21 44	1 10	16 49	1 32	21 11	0 55	9 52	0 30	16 44	1 37	27 10	16 20	11 43	11 33	2 9			n.a.
S 14	16 4	16 27	1 53	4 38	3 38	3 34	3 6	21 36	1 10	16 51	1 32	21 11	0 55	9 52	0 30	16 44	1 37	27 10	16 20	11 44	11 34	2 11			n.a.
M15	15 46	13 23	0 36	4 29	3 45	4 1	3 13	21 28	1 10	16 54	1 32	21 11	0 55	9 52	0 30	16 44	1 37	27 11	16 20	11 44	11 36	2 13			n.a.
T 16	15 28	9 27	0s45	4 23	3 50	4 28	3 21	21 20	1 10	16 56	1 32	21 11	0 55	9 52	0 30	16 45	1 37	27 12	16 20	11 44	11 37	2 15			n.a.
W17	15 9	4 55	2 3	4 20	3 55	4 55	3 29	21 11	1 10	16 59	1 33	21 12	0 55	9 52	0 30	16 45	1 37	27 12	16 20	11 44	11 38	2 17			n.a.
T 18	14 50	0 6	3 13	4 20	3 59	5 21	3 36	21 3	1 11	17 2	1 33	21 12	0 55	9 51	0 30	16 45	1 37	27 13	16 20	11 43	11 39	2 19			n.a.
F 19	14 32	4n41	4 10	4 24	4 1	5 47	3 44	20 54	1 11	17 4	1 33	21 12	0 54	9 51	0 30	16 45	1 37	27 13	16 20	11 43	11 40	2 21			n.a.
S 20	14 12	9 7	4 51	4 32	4 2	6 13	3 52	20 45	1 11	17 7	1 33	21 12	0 54	9 51	0 30	16 45	1 37	27 14	16 20	11 43	11 41	2 23			n.a.
S 21	13 53	12 59	5 13	4 44	4 2	6 38	4 0	20 36	1 11	17 9	1 33	21 12	0 54	9 51	0 30	16 45	1 36	27 14	16 20	11 43	11 42	2 25			n.a.
M22	13 33	16 2	5 16	4 59	4 0	7 3	4 7	20 27	1 11	17 12	1 33	21 13	0 54	9 50	0 30	16 46	1 36	27 15	16 21	11 43	11 43	2 27			n.a.
T 23	13 13	18 8	5 2	5 19	3 57	7 28	4 15	20 18	1 12	17 14	1 33	21 13	0 54	9 50	0 30	16 46	1 36	27 15	16 21	11 43	11 45	2 29			n.a.
W24	12 53	19 11	4 31	5 43	3 51	7 52	4 23	20 9	1 12	17 17	1 33	21 13	0 54	9 50	0 30	16 46	1 36	27 16	16 21	11 43	11 46	2 31			n.a.
T 25	12 33	19 11	3 46	6 11	3 44	8 16	4 31	19 59	1 12	17 19	1 33	21 13	0 53	9 49	0 30	16 46	1 36	27 16	16 21	11 43	11 47	2 33			n.a.
F 26	12 13	18 11	2 51	6 42	3 34	8 39	4 39	19 50	1 12	17 21	1 33	21 14	0 53	9 49	0 30	16 46	1 36	27 16	16 21	11 43	11 48	2 35			n.a.
S 27	11 52	16 16	1 48	7 16	3 23	9 2	4 47	19 40	1 12	17 24	1 33	21 14	0 53	9 49	0 30	16 47	1 36	27 17	16 21	11 43	11 49	2 37			n.a.
S 28	11 31	13 38	0 42	7 52	3 9	9 24	4 55	19 30	1 12	17 26	1 33	21 14	0 53	9 48	0 30	16 47	1 36	27 17	16 21	11 43	11 50	2 39			n.a.
M29	11 10	10 25	0n26	8 30	2 54	9 46	5 2	19 20	1 13	17 28	1 33	21 14	0 53	9 48	0 30	16 47	1 36	27 18	16 21	11 43	11 51	2 41			n.a.
T 30	10 49	6 48	1 32	9 9	2 37	10 8	5 10	19 10	1 13	17 31	1 33	21 15	0 53	9 47	0 30	16 47	1 36	27 18	16 21	11 43	11 52	2 43			n.a.
W31	10n27	2n57	2n33	9n48	2s19	10s29	5s18	19n 0	1n13	17s33	1s33	21s15	0n52	9n47	0s30	16s48	1n36	27s19	16s21	11n43	11n54	2s46			n.a.

Julian Day Number = 1662464.5, Delta T = 03h24m59s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'46, Lahiri = - 6°10'45 Julian Calendar 1 Aug. 162 BCE == Greg. Calendar 29 July 162 BCE

The year -161 astronomical counting style corresponds to year 162 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 162 BCE
geocentric

SEPTEMBER 162 BCE (-161) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 24 44	4♍10'22	10♎21	27°R58	14♎38	11♌ 4	16°R22	9♐27	26°R15	21♏28	28°R33	29°R39	29♌ 7	15♎41	n.a.	T 1
F 2	22 28 40	5° 9'30	22°10	27♌ 6	15°10	11°42	16♒15	9°28	26♈13	21°29	28♒32	29♌38	29° 4	15°47	n.a.	F 2
S 3	22 32 37	6° 8'40	4♏ 0	26°21	15°41	12°20	16° 8	9°29	26°12	21°30	28°31	29°37	29° 1	15°54	n.a.	S 3
S 4	22 36 33	7° 7'52	15°54	25°45	16°10	12°58	16° 1	9°31	26°11	21°31	28°30	29°36	28°58	16° 1	n.a.	S 4
M 5	22 40 30	8° 7'05	27°56	25°19	16°38	13°36	15°54	9°33	26° 9	21°32	28°29	29°36	28°54	16° 8	n.a.	M 5
T 6	22 44 27	9° 6'21	10♐11	25° 4	17° 4	14°14	15°47	9°35	26° 8	21°33	28°27	29°D36	28°51	16°14	n.a.	T 6
W 7	22 48 23	10° 5'38	22°43	24°D59	17°28	14°52	15°41	9°36	26° 6	21°34	28°26	29°36	28°48	16°21	n.a.	W 7
T 8	22 52 20	11° 4'58	5♑36	25° 4	17°51	15°30	15°34	9°38	26° 5	21°35	28°25	29°37	28°45	16°28	n.a.	T 8
F 9	22 56 16	12° 4'19	18°54	25°20	18°12	16° 8	15°28	9°40	26° 3	21°36	28°24	29°38	28°42	16°34	n.a.	F 9
S 10	23 0 13	13° 3'42	2♒38	25°46	18°31	16°46	15°21	9°43	26° 2	21°37	28°23	29°39	28°39	16°41	n.a.	S 10
S 11	23 4 9	14° 3'07	16°49	26°22	18°48	17°24	15°15	9°45	26° 0	21°38	28°22	29°40	28°35	16°48	n.a.	S 11
M12	23 8 6	15° 2'34	1♓23	27° 7	19° 3	18° 2	15° 9	9°47	25°58	21°39	28°20	29°R40	28°32	16°54	n.a.	M12
T 13	23 12 2	16° 2'03	16°16	27°59	19°17	18°40	15° 4	9°50	25°57	21°40	28°19	29°39	28°29	17° 1	n.a.	T 13
W14	23 15 59	17° 1'34	1♈20	29° 0	19°28	19°18	14°58	9°52	25°55	21°41	28°18	29°38	28°26	17° 8	n.a.	W14
T 15	23 19 56	18° 1'08	16°25	0♍ 7	19°37	19°56	14°53	9°55	25°53	21°43	28°17	29°36	28°23	17°14	n.a.	T 15
F 16	23 23 52	19° 0'43	1♉23	1°19	19°43	20°34	14°47	9°58	25°51	21°44	28°16	29°33	28°20	17°21	n.a.	F 16
S 17	23 27 49	20° 0'21	16° 7	2°37	19°48	21°12	14°42	10° 0	25°49	21°45	28°15	29°31	28°16	17°28	n.a.	S 17
S 18	23 31 45	21° 0'02	0♊29	3°59	19°R50	21°50	14°37	10° 3	25°47	21°47	28°14	29°29	28°13	17°34	n.a.	S 18
M19	23 35 42	21°59'44	14°28	5°25	19°50	22°28	14°32	10° 6	25°45	21°48	28°13	29°28	28°10	17°41	n.a.	M19
T 20	23 39 38	22°59'30	28° 3	6°55	19°47	23° 6	14°27	10° 9	25°43	21°49	28°12	29°D28	28° 7	17°48	n.a.	T 20
W21	23 43 35	23°59'17	11♋15	8°26	19°42	23°44	14°23	10°13	25°41	21°51	28°10	29°28	28° 4	17°55	n.a.	W21
T 22	23 47 31	24°59'07	24° 7	10° 0	19°35	24°22	14°19	10°16	25°39	21°52	28° 9	29°30	28° 0	18° 1	n.a.	T 22
F 23	23 51 28	25°58'59	6♌43	11°36	19°25	25° 1	14°15	10°19	25°37	21°53	28° 8	29°32	27°57	18° 8	n.a.	F 23
S 24	23 55 24	26°58'54	19° 4	13°13	19°13	25°39	14°11	10°23	25°35	21°55	28° 7	29°33	27°54	18°15	n.a.	S 24
S 25	23 59 21	27°58'50	1♍15	14°52	18°59	26°17	14° 7	10°26	25°33	21°56	28° 6	29°R33	27°51	18°21	n.a.	S 25
M26	0 3 18	28°58'49	13°18	16°31	18°42	26°55	14° 3	10°30	25°31	21°58	28° 5	29°33	27°48	18°28	n.a.	M26
T 27	0 7 14	29°58'50	25°14	18°10	18°23	27°33	14° 0	10°33	25°29	21°59	28° 4	29°30	27°45	18°35	n.a.	T 27
W28	0 11 11	0♎58'53	7♎ 7	19°50	18° 1	28°11	13°57	10°37	25°27	22° 1	28° 3	29°26	27°41	18°41	n.a.	W28
T 29	0 15 7	1°58'57	18°57	21°30	17°38	28°49	13°54	10°41	25°24	22° 3	28° 2	29°21	27°38	18°48	n.a.	T 29
F 30	0 19 4	2♎59'04	0♏47	23♍11	17♎12	29♌27	13♒51	10♐45	25♈22	22♏ 4	28♒ 1	29♌14	27♌35	18♎55	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	10n 5	0s58	3n27	10n26	2s 0	10s49	5s26	18n49	1n13	17s35	1s33	21s15	0n52	9n46	0s30	16s48	1n36	27s19	16s21	11n44	11n55	2s48		n.a.
F 2	9 44	4 50	4 12	11 3	1 41	11 9	5 33	18 39	1 13	17 37	1 33	21 16	0 52	9 46	0 30	16 48	1 36	27 20	16 21	11 44	11 56	2 50		n.a.
S 3	9 22	8 31	4 46	11 37	1 20	11 28	5 41	18 28	1 14	17 39	1 33	21 16	0 52	9 45	0 30	16 48	1 36	27 20	16 21	11 44	11 57	2 52		n.a.
S 4	8 59	11 52	5 8	12 8	1 0	11 46	5 49	18 17	1 14	17 41	1 33	21 17	0 52	9 45	0 30	16 49	1 36	27 20	16 21	11 44	11 58	2 54		n.a.
M 5	8 37	14 47	5 17	12 35	0 41	12 4	5 56	18 7	1 14	17 43	1 33	21 17	0 52	9 44	0 30	16 49	1 36	27 21	16 20	11 45	11 59	2 56		n.a.
T 6	8 15	17 5	5 12	12 59	0 22	12 21	6 3	17 56	1 14	17 45	1 33	21 17	0 52	9 44	0 30	16 49	1 36	27 21	16 20	11 45	12 0	2 58		n.a.
W 7	7 52	18 39	4 52	13 18	0 3	12 37	6 11	17 44	1 14	17 47	1 32	21 18	0 51	9 43	0 30	16 50	1 35	27 22	16 20	11 45	12 1	3 0		n.a.
T 8	7 29	19 19	4 17	13 32	0n14	12 53	6 18	17 33	1 14	17 49	1 32	21 18	0 51	9 43	0 30	16 50	1 35	27 22	16 20	11 44	12 3	3 2		n.a.
F 9	7 7	18 57	3 27	13 42	0 30	13 7	6 25	17 22	1 14	17 51	1 32	21 19	0 51	9 42	0 30	16 50	1 35	27 22	16 20	11 44	12 4	3 4		n.a.
S 10	6 44	17 27	2 24	13 46	0 45	13 21	6 31	17 10	1 15	17 53	1 32	21 19	0 51	9 41	0 30	16 51	1 35	27 23	16 20	11 44	12 5	3 6		n.a.
S 11	6 21	14 51	1 11	13 47	0 58	13 34	6 38	16 59	1 15	17 55	1 32	21 20	0 51	9 41	0 30	16 51	1 35	27 23	16 20	11 43	12 6	3 8		n.a.
M12	5 57	11 15	0s10	13 43	1 10	13 46	6 45	16 47	1 15	17 56	1 32	21 20	0 51	9 40	0 30	16 51	1 35	27 23	16 20	11 43	12 7	3 10		n.a.
T 13	5 34	6 52	1 31	13 34	1 21	13 56	6 51	16 35	1 15	17 58	1 32	21 21	0 50	9 40	0 30	16 52	1 35	27 24	16 20	11 43	12 8	3 12		n.a.
W14	5 11	2 0	2 46	13 21	1 30	14 6	6 57	16 23	1 15	17 59	1 32	21 21	0 50	9 39	0 30	16 52	1 35	27 24	16 20	11 44	12 9	3 14		n.a.
T 15	4 47	2n59	3 50	13 5	1 38	14 15	7 2	16 11	1 15	18 1	1 32	21 22	0 50	9 38	0 31	16 52	1 35	27 24	16 20	11 45	12 10	3 16		n.a.
F 16	4 24	7 45	4 38	12 45	1 44	14 22	7 8	15 59	1 15	18 2	1 32	21 22	0 50	9 38	0 31	16 53	1 35	27 25	16 20	11 45	12 11	3 18		n.a.
S 17	4 0	11 57	5 7	12 22	1 50	14 29	7 12	15 47	1 16	18 4	1 31	21 23	0 50	9 37	0 31	16 53	1 35	27 25	16 19	11 46	12 13	3 20		n.a.
S 18	3 36	15 21	5 15	11 55	1 54	14 34	7 17	15 35	1 16	18 5	1 31	21 24	0 50	9 36	0 31	16 53	1 35	27 25	16 19	11 47	12 14	3 22		n.a.
M19	3 13	17 45	5 5	11 26	1 57	14 37	7 21	15 22	1 16	18 7	1 31	21 24	0 49	9 35	0 31	16 54	1 35	27 26	16 19	11 47	12 15	3 24		n.a.
T 20	2 49	19 5	4 37	10 55	1 59	14 40	7 25	15 10	1 16	18 8	1 31	21 25	0 49	9 35	0 31	16 54	1 35	27 26	16 19	11 47	12 16	3 26		n.a.
W21	2 25	19 19	3 55	10 21	2 0	14 41	7 28	14 57	1 16	18 9	1 31	21 25	0 49	9 34	0 31	16 55	1 35	27 26	16 19	11 47	12 17	3 28		n.a.
T 22	2 1	18 32	3 3	9 46	2 1	14 41	7 31	14 45	1 16	18 10	1 31	21 26	0 49	9 33	0 31	16 55	1 35	27 26	16 19	11 47	12 18	3 30		n.a.
F 23	1 37	16 50	2 2	9 8	2 0	14 39	7 33	14 32	1 16	18 11	1 31	21 27	0 49	9 32	0 31	16 55	1 35	27 27	16 19	11 46	12 19	3 32		n.a.
S 24	1 13	14 22	0 57	8 30	1 59	14 36	7 35	14 19	1 16	18 12	1 30	21 27	0 49	9 32	0 31	16 56	1 35	27 27	16 18	11 46	12 20	3 34		n.a.
S 25	0 49	11 18	0n 9	7 50	1 57	14 31	7 36	14 6	1 17	18 13	1 30	21 28	0 49	9 31	0 31	16 56	1 34	27 27	16 18	11 45	12 21	3 36		n.a.
M26	0 25	7 47	1 15	7 9	1 55	14 25	7 36	13 53	1 17	18 14	1 30	21 29	0 48	9 30	0 31	16 57	1 34	27 27	16 18	11 46	12 23	3 38		n.a.
T 27	0 0	3 59	2 16	6 27	1 52	14 17	7 36	13 40	1 17	18 15	1 30	21 29	0 48	9 29	0 31	16 57	1 34	27 27	16 18	11 47	12 24	3 40		n.a.
W28	0s24	0 4	3 11	5 44	1 49	14 8	7 35	13 27	1 17	18 16	1 30	21 30	0 48	9 29	0 31	16 58	1 34	27 28	16 18	11 48	12 25	3 42		n.a.
T 29	0 48	3s51	3 58	5 1	1 45	13 57	7 33	13 13	1 17	18 16	1 30	21 31	0 48	9 28	0 31	16 58	1 34	27 28	16 18	11 50	12 26	3 44		n.a.
F 30	1s12	7s36	4n34	4n17	1n41	13s44	7s30	13n 0	1n17	18s17	1s29	21s31	0n48	9n27	0s31	16s59	1n34	27s28	16s17	11n52	12n27	3s46		n.a.

Julian Day Number = 1662495.5, Delta T = 03h24m58s
Ecliptic obliquity = 23°42'46, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'41, Lahiri = - 6°10'41 Julian Calendar 1 Sept. 162 BCE == Greg. Calendar 29 Aug. 162 BCE

The year -161 astronomical counting style corresponds to year 162 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 162 BCE
geocentric

OCTOBER 162 BCE (-161) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 23 0	3♎59'13	12♏38	24♍51	16°R45	0♍ 5	13°R48	10♐49	25°R20	22♏ 6	28°R 0	29°R 8	27♌32	19♎ 1	n.a.	S 1
S 2	0 26 57	4°59'23	24°34	26°31	16♎15	0°43	13♒46	10°53	25♈18	22° 8	27♒59	29♌ 1	27°29	19° 8	n.a.	S 2
M 3	0 30 53	5°59'35	6♐37	28°11	15°45	1°21	13°43	10°57	25°15	22° 9	27°59	28°56	27°25	19°15	n.a.	M 3
T 4	0 34 50	6°59'49	18°50	29°51	15°12	1°59	13°41	11° 1	25°13	22°11	27°58	28°53	27°22	19°22	n.a.	T 4
W 5	0 38 47	8° 0'04	1♑17	1♎31	14°39	2°37	13°40	11° 6	25°11	22°13	27°57	28°51	27°19	19°28	n.a.	W 5
T 6	0 42 43	9° 0'21	14° 3	3°10	14° 4	3°15	13°38	11°10	25° 8	22°14	27°56	28°D51	27°16	19°35	n.a.	T 6
F 7	0 46 40	10° 0'40	27°12	4°49	13°28	3°53	13°37	11°15	25° 6	22°16	27°55	28°52	27°13	19°42	n.a.	F 7
S 8	0 50 36	11° 1'00	10♒47	6°27	12°52	4°31	13°35	11°19	25° 3	22°18	27°54	28°54	27°10	19°48	n.a.	S 8
S 9	0 54 33	12° 1'22	24°49	8° 6	12°16	5° 9	13°34	11°24	25° 1	22°20	27°53	28°R54	27° 6	19°55	n.a.	S 9
M10	0 58 29	13° 1'45	9♓19	9°44	11°39	5°47	13°34	11°28	24°59	22°22	27°53	28°54	27° 3	20° 2	n.a.	M10
T 11	1 2 26	14° 2'09	24°13	11°21	11° 3	6°25	13°33	11°33	24°56	22°24	27°52	28°52	27° 0	20° 8	n.a.	T 11
W12	1 6 22	15° 2'36	9♈25	12°58	10°27	7° 3	13°33	11°38	24°54	22°25	27°51	28°47	26°57	20°15	n.a.	W12
T 13	1 10 19	16° 3'04	24°45	14°35	9°52	7°41	13°D33	11°43	24°51	22°27	27°50	28°41	26°54	20°22	n.a.	T 13
F 14	1 14 15	17° 3'33	10♉ 1	16°12	9°17	8°19	13°33	11°48	24°49	22°29	27°50	28°33	26°51	20°28	n.a.	F 14
S 15	1 18 12	18° 4'05	25° 3	17°48	8°44	8°57	13°33	11°53	24°46	22°31	27°49	28°26	26°47	20°35	n.a.	S 15
S 16	1 22 9	19° 4'38	9♊42	19°24	8°12	9°35	13°33	11°58	24°44	22°33	27°48	28°19	26°44	20°42	n.a.	S 16
M17	1 26 5	20° 5'14	23°54	20°59	7°42	10°13	13°34	12° 3	24°41	22°35	27°47	28°14	26°41	20°49	n.a.	M17
T 18	1 30 2	21° 5'51	7♋36	22°35	7°14	10°51	13°35	12° 8	24°39	22°37	27°47	28°11	26°38	20°55	n.a.	T 18
W19	1 33 58	22° 6'30	20°50	24°10	6°47	11°29	13°36	12°14	24°36	22°39	27°46	28°D10	26°35	21° 2	n.a.	W19
T 20	1 37 55	23° 7'11	3♌39	25°44	6°23	12° 7	13°37	12°19	24°34	22°41	27°46	28°10	26°31	21° 9	n.a.	T 20
F 21	1 41 51	24° 7'54	16° 8	27°19	6° 0	12°45	13°39	12°25	24°31	22°43	27°45	28°11	26°28	21°15	n.a.	F 21
S 22	1 45 48	25° 8'38	28°20	28°53	5°40	13°23	13°40	12°30	24°29	22°45	27°44	28°R12	26°25	21°22	n.a.	S 22
S 23	1 49 44	26° 9'24	10♍22	0♏27	5°22	14° 1	13°42	12°36	24°26	22°47	27°44	28°11	26°22	21°29	n.a.	S 23
M24	1 53 41	27°10'12	22°16	2° 1	5° 7	14°39	13°44	12°41	24°24	22°49	27°43	28° 8	26°19	21°35	n.a.	M24
T 25	1 57 38	28°11'01	4♎ 7	3°35	4°54	15°17	13°46	12°47	24°21	22°51	27°43	28° 2	26°16	21°42	n.a.	T 25
W26	2 1 34	29°11'52	15°56	5° 9	4°43	15°55	13°49	12°53	24°19	22°53	27°42	27°53	26°12	21°49	n.a.	W26
T 27	2 5 31	0♏12'44	27°47	6°42	4°35	16°33	13°52	12°58	24°16	22°56	27°42	27°43	26° 9	21°56	n.a.	T 27
F 28	2 9 27	1°13'38	9♏40	8°16	4°30	17°11	13°54	13° 4	24°14	22°58	27°41	27°30	26° 6	22° 2	n.a.	F 28
S 29	2 13 24	2°14'32	21°37	9°49	4°27	17°49	13°58	13°10	24°11	23° 0	27°41	27°17	26° 3	22° 9	n.a.	S 29
S 30	2 17 20	3°15'28	3♐39	11°22	4°D26	18°27	14° 1	13°16	24° 9	23° 2	27°41	27° 4	26° 0	22°16	n.a.	S 30
M31	2 21 17	4♏16'25	15♐48	12♏55	4♎28	19♍ 5	14♒ 4	13♐22	24♈ 6	23♏ 4	27♒40	26♌53	25♌56	22♎22	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	1s36	11s 4	4n58	3n32	1n36	13s30	7s27	12n46	1n17	18s18	1s29	21s32	0n48	9n26	0s31	16s59	1n34	27s28	16s17	11n55	12n28	3s48		n.a.
S 2	2 0	14 7	5 10	2 48	1 32	13 15	7 22	12 33	1 17	18 18	1 29	21 33	0 48	9 25	0 31	17 0	1 34	27 28	16 17	11 57	12 29	3 50		n.a.
M 3	2 24	16 36	5 8	2 3	1 26	12 58	7 17	12 19	1 17	18 19	1 29	21 34	0 47	9 24	0 31	17 0	1 34	27 28	16 17	11 58	12 30	3 53		n.a.
T 4	2 48	18 23	4 52	1 18	1 21	12 40	7 11	12 6	1 17	18 19	1 29	21 34	0 47	9 23	0 31	17 1	1 34	27 29	16 16	12 0	12 31	3 55		n.a.
W 5	3 13	19 20	4 23	0 33	1 16	12 20	7 5	11 52	1 18	18 19	1 28	21 35	0 47	9 23	0 31	17 1	1 34	27 29	16 16	12 0	12 32	3 57		n.a.
T 6	3 37	19 19	3 39	0s12	1 10	12 0	6 57	11 38	1 18	18 20	1 28	21 36	0 47	9 22	0 31	17 2	1 34	27 29	16 16	12 0	12 34	3 59		n.a.
F 7	4 1	18 17	2 44	0 58	1 4	11 38	6 49	11 24	1 18	18 20	1 28	21 37	0 47	9 21	0 31	17 2	1 34	27 29	16 16	12 0	12 35	4 1		n.a.
S 8	4 24	16 11	1 37	1 43	0 58	11 15	6 39	11 10	1 18	18 20	1 28	21 37	0 47	9 20	0 31	17 3	1 34	27 29	16 16	12 0	12 36	4 3		n.a.
S 9	4 48	13 3	0 22	2 27	0 52	10 51	6 29	10 56	1 18	18 20	1 28	21 38	0 47	9 19	0 31	17 3	1 34	27 29	16 15	11 59	12 37	4 5		n.a.
M10	5 12	9 2	0s56	3 12	0 45	10 27	6 18	10 42	1 18	18 20	1 27	21 39	0 46	9 18	0 31	17 4	1 34	27 29	16 15	11 59	12 38	4 7		n.a.
T 11	5 36	4 21	2 13	3 57	0 39	10 2	6 7	10 28	1 18	18 20	1 27	21 40	0 46	9 17	0 31	17 4	1 34	27 29	16 15	12 0	12 39	4 9		n.a.
W12	5 59	0n42	3 21	4 41	0 32	9 36	5 55	10 14	1 18	18 20	1 27	21 41	0 46	9 16	0 31	17 5	1 34	27 29	16 15	12 2	12 40	4 11		n.a.
T 13	6 23	5 44	4 16	5 25	0 26	9 11	5 42	9 59	1 18	18 20	1 27	21 41	0 46	9 15	0 31	17 5	1 34	27 29	16 14	12 4	12 41	4 13		n.a.
F 14	6 47	10 22	4 52	6 9	0 19	8 45	5 29	9 45	1 18	18 20	1 27	21 42	0 46	9 15	0 31	17 6	1 34	27 29	16 14	12 7	12 42	4 15		n.a.
S 15	7 10	14 17	5 7	6 52	0 13	8 19	5 15	9 31	1 18	18 19	1 26	21 43	0 46	9 14	0 31	17 6	1 34	27 29	16 14	12 9	12 43	4 17		n.a.
S 16	7 33	17 12	5 1	7 35	0 6	7 53	5 1	9 16	1 18	18 19	1 26	21 44	0 46	9 13	0 31	17 7	1 34	27 29	16 14	12 12	12 45	4 19		n.a.
M17	7 56	18 57	4 37	8 17	0s 0	7 28	4 46	9 2	1 18	18 19	1 26	21 45	0 45	9 12	0 31	17 7	1 34	27 29	16 13	12 13	12 46	4 21		n.a.
T 18	8 19	19 32	3 58	8 59	0 7	7 3	4 31	8 47	1 18	18 18	1 26	21 45	0 45	9 11	0 31	17 8	1 34	27 29	16 13	12 14	12 47	4 23		n.a.
W19	8 42	19 0	3 7	9 41	0 13	6 38	4 16	8 33	1 19	18 18	1 25	21 46	0 45	9 10	0 31	17 8	1 33	27 29	16 13	12 15	12 48	4 25		n.a.
T 20	9 5	17 29	2 8	10 22	0 20	6 14	4 1	8 18	1 19	18 17	1 25	21 47	0 45	9 9	0 31	17 9	1 33	27 29	16 12	12 15	12 49	4 27		n.a.
F 21	9 28	15 10	1 4	11 3	0 26	5 51	3 46	8 3	1 19	18 16	1 25	21 48	0 45	9 8	0 31	17 9	1 33	27 29	16 12	12 14	12 50	4 29		n.a.
S 22	9 50	12 12	0n 1	11 43	0 33	5 29	3 30	7 49	1 19	18 16	1 25	21 49	0 45	9 7	0 31	17 10	1 33	27 29	16 12	12 14	12 51	4 31		n.a.
S 23	10 13	8 46	1 5	12 22	0 39	5 8	3 15	7 34	1 19	18 15	1 25	21 50	0 45	9 6	0 31	17 10	1 33	27 29	16 11	12 14	12 52	4 33		n.a.
M24	10 35	5 1	2 5	13 1	0 45	4 48	3 0	7 19	1 19	18 14	1 24	21 50	0 45	9 5	0 31	17 11	1 33	27 29	16 11	12 16	12 53	4 35		n.a.
T 25	10 57	1 5	3 0	13 40	0 52	4 29	2 44	7 4	1 19	18 13	1 24	21 51	0 44	9 4	0 31	17 12	1 33	27 29	16 11	12 18	12 54	4 37		n.a.
W26	11 19	2s52	3 46	14 17	0 58	4 11	2 29	6 49	1 19	18 12	1 24	21 52	0 44	9 4	0 31	17 12	1 33	27 29	16 11	12 21	12 56	4 39		n.a.
T 27	11 41	6 43	4 23	14 54	1 4	3 54	2 15	6 35	1 19	18 11	1 24	21 53	0 44	9 3	0 30	17 13	1 33	27 29	16 10	12 24	12 57	4 41		n.a.
F 28	12 2	10 19	4 48	15 31	1 9	3 38	2 0	6 20	1 19	18 10	1 23	21 54	0 44	9 2	0 30	17 13	1 33	27 28	16 10	12 29	12 58	4 43		n.a.
S 29	12 23	13 32	5 1	16 6	1 15	3 24	1 46	6 5	1 19	18 9	1 23	21 55	0 44	9 1	0 30	17 14	1 33	27 28	16 10	12 33	12 59	4 46		n.a.
S 30	12 44	16 13	5 0	16 41	1 21	3 11	1 32	5 50	1 19	18 8	1 23	21 55	0 44	9 0	0 30	17 14	1 33	27 28	16 9	12 38	13 0	4 48		n.a.
M31	13s 5	18s12	4n46	17s15	1s26	2s59	1s18	5n35	1n19	18s 7	1s23	21s56	0n44	8n59	0s30	17s15	1n33	27s28	16s 9	12n41	13n 1	4s50		n.a.

Julian Day Number = 1662525.5, Delta T = 03h24m57s
Ecliptic obliquity = 23°42'46, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'37, Lahiri = - 6°10'37 Julian Calendar 1 Oct. 162 BCE == Greg. Calendar 28 Sept. 162 BCE

The year -161 astronomical counting style corresponds to year 162 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 162 BCE
geocentric

NOVEMBER 162 BCE (-161) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 25 13	5♏17'23	28♐ 6	14♏28	4♎32	19♍43	14♒ 8	13♐28	24°R 4	23♏ 6	27°R40	26°R45	25♌53	22♎29	n.a.	T 1
W 2	2 29 10	6°18'22	10♑35	16° 1	4°38	20°21	14°12	13°34	24♈ 1	23° 9	27♒40	26♌39	25°50	22°36	n.a.	W 2
T 3	2 33 7	7°19'22	23°19	17°34	4°47	20°59	14°16	13°40	23°59	23°11	27°39	26°36	25°47	22°42	n.a.	T 3
F 4	2 37 3	8°20'23	6♒21	19° 6	4°58	21°36	14°20	13°46	23°57	23°13	27°39	26°D35	25°44	22°49	n.a.	F 4
S 5	2 41 0	9°21'24	19°45	20°39	5°11	22°14	14°25	13°52	23°54	23°15	27°39	26°R36	25°41	22°56	n.a.	S 5
S 6	2 44 56	10°22'26	3♓34	22°11	5°27	22°52	14°29	13°59	23°52	23°17	27°39	26°35	25°37	23° 3	n.a.	S 6
M 7	2 48 53	11°23'29	17°49	23°43	5°44	23°30	14°34	14° 5	23°49	23°20	27°38	26°34	25°34	23° 9	n.a.	M 7
T 8	2 52 49	12°24'33	2♈28	25°15	6° 4	24° 8	14°39	14°11	23°47	23°22	27°38	26°30	25°31	23°16	n.a.	T 8
W 9	2 56 46	13°25'37	17°29	26°47	6°25	24°46	14°44	14°18	23°45	23°24	27°38	26°23	25°28	23°23	n.a.	W 9
T 10	3 0 42	14°26'41	2♉42	28°19	6°48	25°24	14°49	14°24	23°42	23°26	27°38	26°14	25°25	23°29	n.a.	T 10
F 11	3 4 39	15°27'47	17°59	29°50	7°13	26° 2	14°55	14°31	23°40	23°29	27°38	26° 2	25°22	23°36	n.a.	F 11
S 12	3 8 36	16°28'53	3♊ 7	1♐21	7°40	26°40	15° 1	14°37	23°38	23°31	27°38	25°51	25°18	23°43	n.a.	S 12
S 13	3 12 32	17°30'01	17°55	2°51	8° 9	27°18	15° 7	14°44	23°36	23°33	27°38	25°40	25°15	23°49	n.a.	S 13
M14	3 16 29	18°31'09	2♋18	4°21	8°39	27°55	15°13	14°50	23°33	23°35	27°38	25°31	25°12	23°56	n.a.	M14
T 15	3 20 25	19°32'18	16°10	5°51	9°11	28°33	15°19	14°57	23°31	23°38	27°D37	25°25	25° 9	24° 3	n.a.	T 15
W16	3 24 22	20°33'28	29°32	7°19	9°44	29°11	15°25	15° 3	23°29	23°40	27°37	25°22	25° 6	24°10	n.a.	W16
T 17	3 28 18	21°34'39	12♌26	8°47	10°19	29°49	15°32	15°10	23°27	23°42	27°38	25°21	25° 2	24°16	n.a.	T 17
F 18	3 32 15	22°35'51	24°57	10°13	10°55	0♎27	15°39	15°17	23°25	23°44	27°38	25°20	24°59	24°23	n.a.	F 18
S 19	3 36 12	23°37'03	7♍ 9	11°39	11°32	1° 5	15°45	15°23	23°23	23°47	27°38	25°20	24°56	24°30	n.a.	S 19
S 20	3 40 8	24°38'16	19° 9	13° 2	12°11	1°43	15°52	15°30	23°21	23°49	27°38	25°19	24°53	24°36	n.a.	S 20
M21	3 44 5	25°39'30	1♎ 1	14°24	12°51	2°20	16° 0	15°37	23°19	23°51	27°38	25°15	24°50	24°43	n.a.	M21
T 22	3 48 1	26°40'45	12°49	15°44	13°33	2°58	16° 7	15°44	23°17	23°53	27°38	25° 8	24°47	24°50	n.a.	T 22
W23	3 51 58	27°42'00	24°38	17° 1	14°15	3°36	16°15	15°51	23°15	23°56	27°38	24°58	24°43	24°57	n.a.	W23
T 24	3 55 54	28°43'16	6♏31	18°15	14°59	4°14	16°22	15°57	23°13	23°58	27°38	24°46	24°40	25° 3	n.a.	T 24
F 25	3 59 51	29°44'32	18°30	19°26	15°43	4°52	16°30	16° 4	23°11	24° 0	27°39	24°31	24°37	25°10	n.a.	F 25
S 26	4 3 47	0♐45'48	0♐35	20°33	16°29	5°29	16°38	16°11	23° 9	24° 3	27°39	24°16	24°34	25°17	n.a.	S 26
S 27	4 7 44	1°47'04	12°49	21°34	17°16	6° 7	16°46	16°18	23° 7	24° 5	27°39	24° 2	24°31	25°23	n.a.	S 27
M28	4 11 41	2°48'21	25°11	22°31	18° 3	6°45	16°55	16°25	23° 6	24° 7	27°39	23°49	24°28	25°30	n.a.	M28
T 29	4 15 37	3°49'38	7♑42	23°21	18°52	7°23	17° 3	16°32	23° 4	24° 9	27°40	23°39	24°24	25°37	n.a.	T 29
W30	4 19 34	4♐50'55	20♑23	24♐ 4	19♎41	8♎ 0	17♒12	16♐39	23♈ 2	24♏12	27♒40	23♌32	24♌21	25♎43	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13 s26	19 s23	4n19	17 s49	1 s31	2 s48	1 s 4	5n20	1n19	18 s 6	1 s23	21 s57	0n44	8n58	0 s30	17 s16	1n33	27 s28	16 s 9	12n44	13n 2	4 s52		n.a.
W 2	13 46	19 39	3 39	18 21	1 36	2 39	0 51	5 4	1 19	18 4	1 22	21 58	0 44	8 57	0 30	17 16	1 33	27 28	16 8	12 46	13 3	4 54		n.a.
T 3	14 7	18 56	2 47	18 53	1 41	2 31	0 39	4 49	1 19	18 3	1 22	21 59	0 43	8 56	0 30	17 17	1 33	27 27	16 8	12 47	13 4	4 56		n.a.
F 4	14 27	17 12	1 45	19 23	1 46	2 24	0 26	4 34	1 19	18 1	1 22	22 0	0 43	8 55	0 30	17 17	1 33	27 27	16 8	12 48	13 5	4 58		n.a.
S 5	14 46	14 29	0 36	19 53	1 50	2 18	0 14	4 19	1 19	18 0	1 22	22 1	0 43	8 54	0 30	17 18	1 33	27 27	16 7	12 48	13 6	5 0		n.a.
S 6	15 6	10 53	0 s37	20 21	1 54	2 14	0 3	4 4	1 19	17 58	1 22	22 2	0 43	8 54	0 30	17 18	1 33	27 27	16 7	12 48	13 7	5 2		n.a.
M 7	15 25	6 33	1 50	20 49	1 58	2 10	0n 9	3 49	1 19	17 57	1 21	22 2	0 43	8 53	0 30	17 19	1 33	27 27	16 7	12 48	13 9	5 4		n.a.
T 8	15 44	1 43	2 58	21 15	2 1	2 8	0 20	3 33	1 19	17 55	1 21	22 3	0 43	8 52	0 30	17 20	1 33	27 26	16 6	12 49	13 10	5 6		n.a.
W 9	16 3	3n20	3 55	21 41	2 5	2 7	0 30	3 18	1 19	17 53	1 21	22 4	0 43	8 51	0 30	17 20	1 33	27 26	16 6	12 52	13 11	5 8		n.a.
T 10	16 21	8 14	4 36	22 5	2 8	2 7	0 40	3 3	1 19	17 51	1 21	22 5	0 43	8 50	0 30	17 21	1 33	27 26	16 6	12 55	13 12	5 10		n.a.
F 11	16 39	12 37	4 58	22 28	2 10	2 8	0 50	2 48	1 19	17 50	1 20	22 6	0 43	8 49	0 30	17 21	1 33	27 26	16 5	12 59	13 13	5 12		n.a.
S 12	16 57	16 8	4 58	22 49	2 12	2 10	1 0	2 33	1 19	17 48	1 20	22 7	0 42	8 49	0 30	17 22	1 33	27 25	16 5	13 3	13 14	5 14		n.a.
S 13	17 15	18 32	4 39	23 9	2 14	2 13	1 9	2 17	1 19	17 46	1 20	22 7	0 42	8 48	0 30	17 22	1 33	27 25	16 5	13 7	13 15	5 16		n.a.
M14	17 32	19 40	4 2	23 28	2 15	2 17	1 17	2 2	1 19	17 44	1 20	22 8	0 42	8 47	0 30	17 23	1 33	27 25	16 4	13 10	13 16	5 18		n.a.
T 15	17 49	19 33	3 11	23 46	2 16	2 22	1 26	1 47	1 19	17 42	1 20	22 9	0 42	8 46	0 30	17 24	1 33	27 24	16 4	13 12	13 17	5 20		n.a.
W16	18 6	18 20	2 12	24 1	2 17	2 28	1 34	1 31	1 18	17 40	1 19	22 10	0 42	8 45	0 30	17 24	1 33	27 24	16 4	13 13	13 18	5 22		n.a.
T 17	18 22	16 11	1 8	24 16	2 16	2 35	1 41	1 16	1 18	17 37	1 19	22 11	0 42	8 45	0 30	17 25	1 33	27 24	16 3	13 13	13 19	5 24		n.a.
F 18	18 38	13 19	0 2	24 28	2 16	2 42	1 49	1 1	1 18	17 35	1 19	22 12	0 42	8 44	0 30	17 25	1 33	27 23	16 3	13 13	13 20	5 26		n.a.
S 19	18 53	9 56	1n 2	24 39	2 14	2 51	1 56	0 46	1 18	17 33	1 19	22 13	0 42	8 43	0 30	17 26	1 33	27 23	16 3	13 13	13 21	5 28		n.a.
S 20	19 9	6 13	2 2	24 49	2 12	3 0	2 2	0 30	1 18	17 31	1 19	22 13	0 42	8 42	0 30	17 27	1 33	27 23	16 2	13 14	13 23	5 30		n.a.
M21	19 24	2 17	2 56	24 56	2 9	3 10	2 9	0 15	1 18	17 28	1 18	22 14	0 42	8 42	0 30	17 27	1 33	27 22	16 2	13 15	13 24	5 32		n.a.
T 22	19 38	1 s42	3 43	25 2	2 6	3 20	2 15	0 s 0	1 18	17 26	1 18	22 15	0 42	8 41	0 30	17 28	1 33	27 22	16 1	13 17	13 25	5 34		n.a.
W23	19 52	5 38	4 19	25 5	2 2	3 31	2 21	0 15	1 18	17 23	1 18	22 16	0 41	8 40	0 30	17 28	1 33	27 22	16 1	13 21	13 26	5 37		n.a.
T 24	20 6	9 22	4 45	25 7	1 56	3 43	2 26	0 31	1 18	17 21	1 18	22 17	0 41	8 39	0 30	17 29	1 33	27 21	16 1	13 25	13 27	5 39		n.a.
F 25	20 20	12 45	4 58	25 7	1 50	3 56	2 31	0 46	1 18	17 18	1 18	22 17	0 41	8 39	0 30	17 29	1 33	27 21	16 0	13 30	13 28	5 41		n.a.
S 26	20 33	15 39	4 58	25 5	1 43	4 9	2 36	1 1	1 18	17 16	1 17	22 18	0 41	8 38	0 30	17 30	1 33	27 20	16 0	13 35	13 29	5 43		n.a.
S 27	20 45	17 54	4 44	25 1	1 35	4 23	2 41	1 16	1 18	17 13	1 17	22 19	0 41	8 37	0 30	17 30	1 33	27 20	16 0	13 40	13 30	5 45		n.a.
M28	20 58	19 21	4 17	24 55	1 25	4 37	2 45	1 31	1 18	17 10	1 17	22 20	0 41	8 37	0 30	17 31	1 33	27 19	15 59	13 44	13 31	5 47		n.a.
T 29	21 9	19 53	3 37	24 47	1 14	4 52	2 49	1 47	1 17	17 7	1 17	22 21	0 41	8 36	0 30	17 32	1 33	27 19	15 59	13 48	13 32	5 49		n.a.
W30	21 s21	19 s25	2n45	24 s37	1 s 3	5 s 7	2n53	2 s 2	1n17	17 s 5	1 s17	22 s21	0n41	8n36	0 s30	17 s32	1n33	27 s19	15 s59	13n50	13n33	5 s51		n.a.

Julian Day Number = 1662556.5, Delta T = 03h24m56s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'33, Lahiri = - 6°10'33 Julian Calendar 1 Nov. 162 BCE == Greg. Calendar 29 Oct. 162 BCE

The year -161 astronomical counting style corresponds to year 162 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 162 BCE
geocentric

DECEMBER 162 BCE (-161) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 23 30	5♐52'11	3♒15	24♐39	20♎31	8♎38	17♒20	16♐46	23°R 0	24♏14	27♒40	23°R28	24♌18	25♎50	n.a.	T 1
F 2	4 27 27	6°53'27	16°22	25° 5	21°22	9°16	17°29	16°53	22♈59	24°16	27°41	23♌26	24°15	25°57	n.a.	F 2
S 3	4 31 23	7°54'43	29°44	25°21	22°14	9°53	17°38	17° 0	22°57	24°18	27°41	23°D26	24°12	26° 4	n.a.	S 3
S 4	4 35 20	8°55'59	13♓25	25°R26	23° 6	10°31	17°47	17° 7	22°56	24°20	27°42	23°R26	24° 8	26°10	n.a.	S 4
M 5	4 39 16	9°57'14	27°25	25°20	23°59	11° 9	17°57	17°14	22°54	24°23	27°42	23°25	24° 5	26°17	n.a.	M 5
T 6	4 43 13	10°58'29	11♈45	25° 3	24°53	11°46	18° 6	17°21	22°53	24°25	27°43	23°22	24° 2	26°24	n.a.	T 6
W 7	4 47 10	11°59'43	26°24	24°34	25°47	12°24	18°15	17°28	22°51	24°27	27°43	23°16	23°59	26°30	n.a.	W 7
T 8	4 51 6	13° 0'56	11♉15	23°53	26°42	13° 1	18°25	17°35	22°50	24°29	27°44	23° 7	23°56	26°37	n.a.	T 8
F 9	4 55 3	14° 2'10	26°12	23° 1	27°38	13°39	18°35	17°42	22°49	24°31	27°44	22°57	23°53	26°44	n.a.	F 9
S 10	4 58 59	15° 3'23	11♊ 5	21°59	28°34	14°16	18°45	17°49	22°47	24°34	27°45	22°46	23°49	26°51	n.a.	S 10
S 11	5 2 56	16° 4'35	25°46	20°50	29°31	14°54	18°55	17°56	22°46	24°36	27°45	22°35	23°46	26°57	n.a.	S 11
M12	5 6 52	17° 5'48	10♋ 6	19°34	0♏29	15°32	19° 5	18° 4	22°45	24°38	27°46	22°27	23°43	27° 4	n.a.	M12
T 13	5 10 49	18° 7'00	24° 1	18°15	1°27	16° 9	19°15	18°11	22°44	24°40	27°47	22°21	23°40	27°11	n.a.	T 13
W14	5 14 45	19° 8'11	7♌28	16°56	2°25	16°47	19°26	18°18	22°43	24°42	27°47	22°18	23°37	27°17	n.a.	W14
T 15	5 18 42	20° 9'23	20°28	15°38	3°24	17°24	19°36	18°25	22°42	24°44	27°48	22°D17	23°34	27°24	n.a.	T 15
F 16	5 22 39	21°10'34	3♍ 4	14°24	4°24	18° 1	19°47	18°32	22°41	24°46	27°49	22°17	23°30	27°31	n.a.	F 16
S 17	5 26 35	22°11'44	15°21	13°16	5°23	18°39	19°57	18°39	22°40	24°48	27°50	22°18	23°27	27°37	n.a.	S 17
S 18	5 30 32	23°12'55	27°24	12°15	6°24	19°16	20° 8	18°46	22°39	24°50	27°50	22°R18	23°24	27°44	n.a.	S 18
M19	5 34 28	24°14'05	9♎17	11°23	7°25	19°54	20°19	18°53	22°38	24°52	27°51	22°16	23°21	27°51	n.a.	M19
T 20	5 38 25	25°15'14	21° 7	10°39	8°26	20°31	20°30	19° 0	22°37	24°54	27°52	22°13	23°18	27°58	n.a.	T 20
W21	5 42 21	26°16'23	2♏58	10° 6	9°27	21° 9	20°41	19° 7	22°36	24°56	27°53	22° 7	23°14	28° 4	n.a.	W21
T 22	5 46 18	27°17'32	14°54	9°41	10°29	21°46	20°53	19°14	22°36	24°58	27°53	21°58	23°11	28°11	n.a.	T 22
F 23	5 50 15	28°18'39	26°57	9°26	11°31	22°23	21° 4	19°21	22°35	25° 0	27°54	21°48	23° 8	28°18	n.a.	F 23
S 24	5 54 11	29°19'47	9♐12	9°D19	12°34	23° 0	21°16	19°28	22°35	25° 2	27°55	21°38	23° 5	28°24	n.a.	S 24
S 25	5 58 8	0♑20'53	21°37	9°21	13°37	23°38	21°27	19°35	22°34	25° 4	27°56	21°28	23° 2	28°31	n.a.	S 25
M26	6 2 4	1°21'59	4♑15	9°31	14°40	24°15	21°39	19°42	22°33	25° 6	27°57	21°19	22°59	28°38	n.a.	M26
T 27	6 6 1	2°23'03	17° 5	9°47	15°44	24°52	21°50	19°49	22°33	25° 8	27°58	21°12	22°55	28°45	n.a.	T 27
W28	6 9 57	3°24'07	0♒ 7	10°10	16°48	25°29	22° 2	19°56	22°33	25°10	27°59	21° 7	22°52	28°51	n.a.	W28
T 29	6 13 54	4°25'09	13°19	10°39	17°52	26° 7	22°14	20° 3	22°32	25°12	28° 0	21° 5	22°49	28°58	n.a.	T 29
F 30	6 17 50	5°26'10	26°43	11°14	18°56	26°44	22°26	20°10	22°32	25°14	28° 1	21°D 5	22°46	29° 5	n.a.	F 30
S 31	6 21 47	6♑27'10	10♓18	11♐53	20♏ 1	27♎21	22♒38	20♐17	22♈32	25♏16	28♒ 2	21♌ 6	22♌43	29♎11	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	21 s32	17 s57	1n45	24 s26	0 s49	5 s23	2n57	2 s17	1n17	17 s 2	1 s17	22 s22	0n41	8n35	0 s30	17 s33	1n33	27 s18	15 s58	13n51	13n34	5 s53			n.a.
F 2	21 42	15 31	0 37	24 12	0 35	5 39	3 0	2 32	1 17	16 59	1 16	22 23	0 41	8 34	0 30	17 33	1 33	27 18	15 58	13 52	13 35	5 55			n.a.
S 3	21 53	12 13	0 s33	23 57	0 19	5 55	3 3	2 47	1 17	16 56	1 16	22 24	0 41	8 34	0 30	17 34	1 33	27 17	15 58	13 52	13 36	5 57			n.a.
S 4	22 2	8 11	1 44	23 41	0 3	6 12	3 6	3 2	1 17	16 53	1 16	22 25	0 41	8 33	0 30	17 34	1 33	27 17	15 57	13 52	13 38	5 59			n.a.
M 5	22 12	3 38	2 50	23 23	0n15	6 29	3 9	3 17	1 17	16 50	1 16	22 25	0 40	8 33	0 30	17 35	1 33	27 16	15 57	13 52	13 39	6 1			n.a.
T 6	22 21	1n14	3 47	23 3	0 34	6 47	3 11	3 32	1 16	16 47	1 16	22 26	0 40	8 32	0 30	17 35	1 33	27 16	15 57	13 53	13 40	6 3			n.a.
W 7	22 29	6 7	4 30	22 43	0 53	7 5	3 13	3 47	1 16	16 44	1 16	22 27	0 40	8 32	0 30	17 36	1 33	27 15	15 56	13 55	13 41	6 5			n.a.
T 8	22 37	10 42	4 56	22 21	1 13	7 23	3 15	4 2	1 16	16 40	1 15	22 28	0 40	8 31	0 30	17 36	1 33	27 15	15 56	13 58	13 42	6 7			n.a.
F 9	22 45	14 38	5 1	21 59	1 33	7 41	3 17	4 17	1 16	16 37	1 15	22 28	0 40	8 31	0 30	17 37	1 33	27 14	15 56	14 1	13 43	6 9			n.a.
S 10	22 52	17 38	4 47	21 36	1 52	8 0	3 19	4 32	1 16	16 34	1 15	22 29	0 40	8 30	0 30	17 37	1 33	27 14	15 55	14 5	13 44	6 11			n.a.
S 11	22 59	19 25	4 13	21 14	2 10	8 19	3 20	4 46	1 16	16 31	1 15	22 30	0 40	8 30	0 30	17 38	1 33	27 13	15 55	14 8	13 45	6 13			n.a.
M12	23 5	19 55	3 25	20 51	2 27	8 38	3 21	5 1	1 15	16 27	1 15	22 30	0 40	8 29	0 30	17 38	1 33	27 13	15 55	14 11	13 46	6 15			n.a.
T 13	23 10	19 11	2 25	20 30	2 42	8 57	3 22	5 16	1 15	16 24	1 15	22 31	0 40	8 29	0 30	17 39	1 33	27 12	15 54	14 13	13 47	6 17			n.a.
W14	23 16	17 21	1 18	20 9	2 55	9 17	3 23	5 31	1 15	16 20	1 14	22 32	0 40	8 29	0 29	17 39	1 33	27 12	15 54	14 14	13 48	6 19			n.a.
T 15	23 21	14 41	0 10	19 51	3 6	9 36	3 23	5 45	1 15	16 17	1 14	22 32	0 40	8 28	0 29	17 40	1 33	27 11	15 54	14 15	13 49	6 21			n.a.
F 16	23 25	11 23	0n57	19 34	3 14	9 56	3 24	6 0	1 15	16 13	1 14	22 33	0 40	8 28	0 29	17 40	1 33	27 11	15 53	14 15	13 50	6 23			n.a.
S 17	23 29	7 41	2 0	19 20	3 20	10 16	3 24	6 15	1 14	16 10	1 14	22 34	0 40	8 28	0 29	17 41	1 33	27 10	15 53	14 14	13 51	6 25			n.a.
S 18	23 32	3 44	2 56	19 9	3 24	10 36	3 24	6 29	1 14	16 6	1 14	22 35	0 39	8 27	0 29	17 41	1 33	27 9	15 53	14 14	13 52	6 28			n.a.
M19	23 35	0 s18	3 44	19 1	3 25	10 56	3 24	6 44	1 14	16 2	1 14	22 35	0 39	8 27	0 29	17 42	1 33	27 9	15 52	14 15	13 53	6 30			n.a.
T 20	23 38	4 17	4 22	18 56	3 24	11 16	3 24	6 58	1 14	15 59	1 14	22 36	0 39	8 27	0 29	17 42	1 33	27 8	15 52	14 16	13 54	6 32			n.a.
W21	23 40	8 7	4 49	18 53	3 22	11 36	3 23	7 12	1 14	15 55	1 13	22 36	0 39	8 26	0 29	17 43	1 33	27 8	15 52	14 18	13 56	6 34			n.a.
T 22	23 41	11 40	5 3	18 54	3 18	11 56	3 23	7 27	1 13	15 51	1 13	22 37	0 39	8 26	0 29	17 43	1 33	27 7	15 52	14 21	13 57	6 36			n.a.
F 23	23 42	14 46	5 4	18 57	3 12	12 16	3 22	7 41	1 13	15 47	1 13	22 38	0 39	8 26	0 29	17 44	1 33	27 6	15 51	14 24	13 58	6 38			n.a.
S 24	23 43	17 17	4 51	19 2	3 6	12 35	3 21	7 55	1 13	15 44	1 13	22 38	0 39	8 26	0 29	17 44	1 33	27 6	15 51	14 27	13 59	6 40			n.a.
S 25	23 43	19 3	4 25	19 10	2 58	12 55	3 20	8 9	1 12	15 40	1 13	22 39	0 39	8 26	0 29	17 45	1 33	27 5	15 51	14 31	14 0	6 42			n.a.
M26	23 42	19 54	3 45	19 19	2 50	13 15	3 19	8 23	1 12	15 36	1 13	22 40	0 39	8 25	0 29	17 45	1 33	27 5	15 50	14 34	14 1	6 44			n.a.
T 27	23 41	19 45	2 53	19 30	2 42	13 35	3 18	8 37	1 12	15 32	1 13	22 40	0 39	8 25	0 29	17 46	1 33	27 4	15 50	14 36	14 2	6 46			n.a.
W28	23 40	18 33	1 51	19 43	2 33	13 54	3 16	8 51	1 12	15 28	1 13	22 41	0 39	8 25	0 29	17 46	1 33	27 3	15 50	14 37	14 3	6 48			n.a.
T 29	23 38	16 21	0 42	19 56	2 23	14 14	3 15	9 5	1 11	15 24	1 12	22 41	0 39	8 25	0 29	17 46	1 33	27 3	15 50	14 38	14 4	6 50			n.a.
F 30	23 36	13 14	0 s30	20 11	2 13	14 33	3 13	9 19	1 11	15 20	1 12	22 42	0 39	8 25	0 29	17 47	1 33	27 2	15 49	14 38	14 5	6 52			n.a.
S 31	23 s33	9 s22	1 s42	20 s26	2n 3	14 s52	3n12	9 s33	1n11	15 s16	1 s12	22 s43	0n39	8n25	0 s29	17 s47	1n33	27 s 2	15 s49	14n38	14n 6	6 s54			n.a.

Julian Day Number = 1662586.5, Delta T = 03h24m55s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'29, Lahiri = - 6°10'28 Julian Calendar 1 Dec. 162 BCE == Greg. Calendar 28 Nov. 162 BCE

The year -161 astronomical counting style corresponds to year 162 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 161 BCE
geocentric

JANUARY 161 BCE (-160) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 25 44	7♉28'08	24♓ 4	12♐37	21♏ 6	27♎58	22♒51	20♐24	22°R32	25♏17	28♒ 3	21♌ 7	22♌40	29♎18	n.a.	S 1
M 2	6 29 40	8°29'05	8♈ 2	13°25	22°11	28°35	23° 3	20°31	22♈31	25°19	28° 4	21°R 8	22°36	29°25	n.a.	M 2
T 3	6 33 37	9°30'00	22°11	14°17	23°16	29°12	23°15	20°38	22°31	25°21	28° 5	21° 7	22°33	29°32	n.a.	T 3
W 4	6 37 33	10°30'54	6♉30	15°12	24°22	29°49	23°28	20°44	22°D31	25°23	28° 6	21° 4	22°30	29°38	n.a.	W 4
T 5	6 41 30	11°31'46	20°56	16°10	25°28	0♏26	23°40	20°51	22°31	25°24	28° 7	21° 0	22°27	29°45	n.a.	T 5
F 6	6 45 26	12°32'36	5♊24	17°11	26°34	1° 3	23°53	20°58	22°32	25°26	28° 8	20°55	22°24	29°52	n.a.	F 6
S 7	6 49 23	13°33'26	19°49	18°15	27°40	1°39	24° 5	21° 5	22°32	25°28	28°10	20°48	22°20	29°58	n.a.	S 7
S 8	6 53 19	14°34'13	4♋ 5	19°21	28°47	2°16	24°18	21°11	22°32	25°30	28°11	20°43	22°17	0♏ 5	n.a.	S 8
M 9	6 57 16	15°35'00	18° 6	20°29	29°53	2°53	24°31	21°18	22°32	25°31	28°12	20°38	22°14	0°12	n.a.	M 9
T 10	7 1 13	16°35'45	1♌49	21°39	1♐ 0	3°30	24°44	21°25	22°32	25°33	28°13	20°35	22°11	0°19	n.a.	T 10
W11	7 5 9	17°36'28	15°10	22°51	2° 7	4° 7	24°57	21°31	22°33	25°34	28°14	20°D33	22° 8	0°25	n.a.	W11
T 12	7 9 6	18°37'10	28° 8	24° 5	3°14	4°43	25°10	21°38	22°33	25°36	28°15	20°33	22° 5	0°32	n.a.	T 12
F 13	7 13 2	19°37'51	10♍47	25°20	4°22	5°20	25°23	21°44	22°34	25°37	28°17	20°35	22° 1	0°39	n.a.	F 13
S 14	7 16 59	20°38'30	23° 7	26°37	5°29	5°57	25°36	21°51	22°34	25°39	28°18	20°36	21°58	0°45	n.a.	S 14
S 15	7 20 55	21°39'08	5♎13	27°55	6°37	6°33	25°49	21°57	22°35	25°40	28°19	20°38	21°55	0°52	n.a.	S 15
M16	7 24 52	22°39'45	17°10	29°15	7°45	7°10	26° 2	22° 4	22°35	25°42	28°20	20°39	21°52	0°59	n.a.	M16
T 17	7 28 48	23°40'21	29° 2	0♉36	8°53	7°46	26°15	22°10	22°36	25°43	28°22	20°R39	21°49	1° 6	n.a.	T 17
W18	7 32 45	24°40'55	10♏54	1°59	10° 1	8°23	26°29	22°17	22°37	25°45	28°23	20°38	21°45	1°12	n.a.	W18
T 19	7 36 42	25°41'27	22°52	3°22	11°10	8°59	26°42	22°23	22°37	25°46	28°24	20°35	21°42	1°19	n.a.	T 19
F 20	7 40 38	26°41'58	4♐59	4°47	12°18	9°36	26°56	22°29	22°38	25°47	28°26	20°32	21°39	1°26	n.a.	F 20
S 21	7 44 35	27°42'28	17°18	6°13	13°27	10°12	27° 9	22°36	22°39	25°49	28°27	20°28	21°36	1°32	n.a.	S 21
S 22	7 48 31	28°42'57	29°52	7°40	14°35	10°48	27°23	22°42	22°40	25°50	28°28	20°25	21°33	1°39	n.a.	S 22
M23	7 52 28	29°43'23	12♉44	9° 8	15°44	11°24	27°36	22°48	22°41	25°51	28°30	20°21	21°30	1°46	n.a.	M23
T 24	7 56 24	0♒43'48	25°52	10°37	16°53	12° 1	27°50	22°54	22°42	25°52	28°31	20°19	21°26	1°53	n.a.	T 24
W25	8 0 21	1°44'11	9♒16	12° 7	18° 2	12°37	28° 4	23° 0	22°43	25°54	28°32	20°18	21°23	1°59	n.a.	W25
T 26	8 4 17	2°44'33	22°54	13°38	19°11	13°13	28°17	23° 6	22°44	25°55	28°34	20°D17	21°20	2° 6	n.a.	T 26
F 27	8 8 14	3°44'52	6♓45	15°11	20°21	13°49	28°31	23°12	22°45	25°56	28°35	20°18	21°17	2°13	n.a.	F 27
S 28	8 12 11	4°45'09	20°44	16°44	21°30	14°25	28°45	23°18	22°47	25°57	28°37	20°19	21°14	2°19	n.a.	S 28
S 29	8 16 7	5°45'24	4♈51	18°18	22°39	15° 1	28°59	23°24	22°48	25°58	28°38	20°20	21°11	2°26	n.a.	S 29
M30	8 20 4	6°45'37	19° 1	19°54	23°49	15°37	29°13	23°30	22°49	25°59	28°39	20°21	21° 7	2°33	n.a.	M30
T 31	8 24 0	7♒45'48	3♉13	21♉30	24♐59	16♏12	29♒27	23♐35	22♈51	26♏ 0	28♒41	20°R22	21♌ 4	2♏40	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	23s30	4s58	2s49	20s42	1n54	15s11	3n10	9s47	1n10	15s11	1s12	22s43	0n39	8n25	0s29	17s48	1n33	27s 1	15s49	14n37	14n 7	6s56			n.a.
M 2	23 26	0 15	3 47	20 58	1 43	15 30	3 8	10 0	1 10	15 7	1 12	22 44	0 39	8 25	0 29	17 48	1 33	27 0	15 49	14 37	14 8	6 58			n.a.
T 3	23 22	4n32	4 32	21 14	1 33	15 48	3 6	10 14	1 10	15 3	1 12	22 44	0 39	8 25	0 29	17 48	1 33	27 0	15 48	14 37	14 9	7 0			n.a.
W 4	23 17	9 7	5 0	21 30	1 23	16 7	3 3	10 27	1 9	14 59	1 12	22 45	0 38	8 25	0 29	17 49	1 33	26 59	15 48	14 38	14 10	7 2			n.a.
T 5	23 12	13 13	5 10	21 46	1 14	16 25	3 1	10 41	1 9	14 55	1 12	22 45	0 38	8 25	0 29	17 49	1 33	26 59	15 48	14 40	14 11	7 4			n.a.
F 6	23 7	16 31	5 0	22 2	1 4	16 43	2 59	10 54	1 9	14 50	1 12	22 46	0 38	8 25	0 29	17 50	1 33	26 58	15 48	14 41	14 12	7 6			n.a.
S 7	23 1	18 48	4 31	22 17	0 54	17 0	2 56	11 7	1 8	14 46	1 11	22 46	0 38	8 25	0 29	17 50	1 34	26 57	15 47	14 43	14 13	7 8			n.a.
S 8	22 54	19 53	3 46	22 32	0 44	17 17	2 54	11 20	1 8	14 42	1 11	22 47	0 38	8 25	0 29	17 50	1 34	26 57	15 47	14 45	14 14	7 10			n.a.
M 9	22 47	19 42	2 48	22 47	0 35	17 34	2 51	11 33	1 7	14 37	1 11	22 47	0 38	8 25	0 29	17 51	1 34	26 56	15 47	14 47	14 15	7 12			n.a.
T 10	22 40	18 21	1 41	23 1	0 26	17 51	2 48	11 46	1 7	14 33	1 11	22 48	0 38	8 26	0 29	17 51	1 34	26 55	15 47	14 48	14 17	7 14			n.a.
W11	22 32	16 0	0 29	23 14	0 17	18 7	2 46	11 59	1 7	14 28	1 11	22 48	0 38	8 26	0 29	17 51	1 34	26 55	15 46	14 48	14 18	7 16			n.a.
T 12	22 24	12 54	0n41	23 27	0 8	18 23	2 43	12 12	1 6	14 24	1 11	22 49	0 38	8 26	0 29	17 52	1 34	26 54	15 46	14 48	14 19	7 18			n.a.
F 13	22 15	9 17	1 48	23 38	0s 1	18 39	2 40	12 25	1 6	14 19	1 11	22 49	0 38	8 26	0 29	17 52	1 34	26 53	15 46	14 48	14 20	7 20			n.a.
S 14	22 6	5 21	2 49	23 49	0 9	18 54	2 37	12 38	1 5	14 15	1 11	22 50	0 38	8 26	0 28	17 52	1 34	26 53	15 46	14 47	14 21	7 22			n.a.
S 15	21 57	1 16	3 41	23 59	0 17	19 8	2 34	12 50	1 5	14 10	1 11	22 50	0 38	8 27	0 28	17 53	1 34	26 52	15 46	14 47	14 22	7 24			n.a.
M16	21 47	2s47	4 22	24 8	0 25	19 23	2 30	13 3	1 4	14 5	1 11	22 50	0 38	8 27	0 28	17 53	1 34	26 51	15 45	14 46	14 23	7 27			n.a.
T 17	21 37	6 42	4 52	24 16	0 33	19 37	2 27	13 15	1 4	14 1	1 11	22 51	0 38	8 27	0 28	17 53	1 34	26 51	15 45	14 46	14 24	7 29			n.a.
W18	21 26	10 22	5 9	24 22	0 41	19 50	2 24	13 28	1 3	13 56	1 11	22 51	0 38	8 27	0 28	17 54	1 34	26 50	15 45	14 47	14 25	7 31			n.a.
T 19	21 15	13 38	5 14	24 28	0 48	20 3	2 20	13 40	1 3	13 51	1 10	22 52	0 38	8 28	0 28	17 54	1 34	26 49	15 45	14 47	14 26	7 33			n.a.
F 20	21 3	16 23	5 4	24 32	0 55	20 16	2 17	13 52	1 2	13 47	1 10	22 52	0 38	8 28	0 28	17 54	1 34	26 49	15 45	14 49	14 27	7 35			n.a.
S 21	20 51	18 27	4 40	24 35	1 1	20 28	2 14	14 4	1 2	13 42	1 10	22 52	0 38	8 28	0 28	17 54	1 34	26 48	15 44	14 50	14 28	7 37			n.a.
S 22	20 39	19 40	4 3	24 37	1 8	20 39	2 10	14 16	1 1	13 37	1 10	22 53	0 38	8 29	0 28	17 55	1 34	26 48	15 44	14 51	14 29	7 39			n.a.
M23	20 26	19 54	3 12	24 37	1 14	20 51	2 7	14 28	1 1	13 32	1 10	22 53	0 38	8 29	0 28	17 55	1 34	26 47	15 44	14 52	14 30	7 41			n.a.
T 24	20 13	19 5	2 11	24 36	1 20	21 1	2 3	14 40	1 0	13 27	1 10	22 54	0 38	8 30	0 28	17 55	1 34	26 46	15 44	14 53	14 31	7 43			n.a.
W25	20 0	17 10	1 1	24 34	1 25	21 11	1 59	14 51	1 0	13 23	1 10	22 54	0 38	8 30	0 28	17 56	1 34	26 46	15 44	14 53	14 32	7 45			n.a.
T 26	19 46	14 16	0s14	24 30	1 30	21 21	1 56	15 3	0 59	13 18	1 10	22 54	0 38	8 30	0 28	17 56	1 34	26 45	15 44	14 53	14 33	7 47			n.a.
F 27	19 32	10 31	1 30	24 25	1 35	21 30	1 52	15 14	0 58	13 13	1 10	22 55	0 38	8 31	0 28	17 56	1 34	26 44	15 44	14 53	14 34	7 49			n.a.
S 28	19 18	6 10	2 40	24 18	1 40	21 38	1 48	15 26	0 58	13 8	1 10	22 55	0 37	8 31	0 28	17 56	1 34	26 44	15 43	14 53	14 35	7 51			n.a.
S 29	19 3	1 27	3 42	24 10	1 44	21 46	1 45	15 37	0 57	13 3	1 10	22 55	0 37	8 32	0 28	17 56	1 34	26 43	15 43	14 52	14 36	7 53			n.a.
M30	18 48	3n22	4 31	24 0	1 48	21 53	1 41	15 48	0 56	12 58	1 10	22 56	0 37	8 32	0 28	17 57	1 34	26 42	15 43	14 52	14 37	7 55			n.a.
T 31	18s32	7n59	5s 2	23s48	1s51	22s 0	1n37	15s59	0n56	12s53	1s10	22s56	0n37	8n33	0s28	17s57	1n34	26s42	15s43	14n52	14n38	7s57			n.a.

Julian Day Number = 1662617.5, Delta T = 03h24m54s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'25, Lahiri = - 6°10'24 Julian Calendar 1 Jan. 161 BCE == Greg. Calendar 29 Dec. 162 BCE

The year -160 astronomical counting style corresponds to year 161 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 161 BCE
geocentric

FEBRUARY 161 BCE (-160) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	8 27 57	8♒45'56	17♉25	23♋ 7	26♐ 8	16♏48	29♒41	23♐41	22♈52	26♏ 1	28♒42	20°R22	21♌ 1	2♏46	n.a.	W 1
T 2	8 31 53	9°46'02	1♊33	24°46	27°18	17°24	29°55	23°47	22°53	26° 2	28°44	20♌21	20°58	2°53	n.a.	T 2
F 3	8 35 50	10°46'06	15°37	26°25	28°28	17°59	0♓ 9	23°52	22°55	26° 3	28°45	20°20	20°55	3° 0	n.a.	F 3
S 4	8 39 46	11°46'08	29°33	28° 6	29°38	18°35	0°23	23°58	22°57	26° 4	28°47	20°19	20°51	3° 6	n.a.	S 4
S 5	8 43 43	12°46'08	13♋19	29°48	0♋48	19°11	0°37	24° 3	22°58	26° 5	28°48	20°18	20°48	3°13	n.a.	S 5
M 6	8 47 40	13°46'05	26°52	1♒31	1°58	19°46	0°51	24° 9	23° 0	26° 6	28°50	20°17	20°45	3°20	n.a.	M 6
T 7	8 51 36	14°46'00	10♌12	3°14	3° 8	20°21	1° 5	24°14	23° 2	26° 6	28°51	20°17	20°42	3°27	n.a.	T 7
W 8	8 55 33	15°45'54	23°15	4°59	4°19	20°57	1°20	24°19	23° 3	26° 7	28°53	20°D17	20°39	3°33	n.a.	W 8
T 9	8 59 29	16°45'45	6♍ 3	6°46	5°29	21°32	1°34	24°25	23° 5	26° 8	28°54	20°17	20°36	3°40	n.a.	T 9
F 10	9 3 26	17°45'34	18°35	8°33	6°39	22° 7	1°48	24°30	23° 7	26° 9	28°56	20°17	20°32	3°47	n.a.	F 10
S 11	9 7 22	18°45'21	0♎54	10°21	7°50	22°42	2° 2	24°35	23° 9	26° 9	28°57	20°17	20°29	3°54	n.a.	S 11
S 12	9 11 19	19°45'06	13° 0	12°11	9° 0	23°17	2°17	24°40	23°11	26°10	28°59	20°18	20°26	4° 0	n.a.	S 12
M13	9 15 15	20°44'50	24°58	14° 2	10°11	23°52	2°31	24°45	23°13	26°10	29° 0	20°R18	20°23	4° 7	n.a.	M13
T 14	9 19 12	21°44'31	6♏51	15°54	11°22	24°27	2°45	24°50	23°15	26°11	29° 2	20°17	20°20	4°14	n.a.	T 14
W15	9 23 8	22°44'11	18°44	17°47	12°32	25° 2	3° 0	24°55	23°17	26°12	29° 3	20°D17	20°17	4°20	n.a.	W15
T 16	9 27 5	23°43'49	0♐42	19°41	13°43	25°36	3°14	24°59	23°19	26°12	29° 5	20°17	20°13	4°27	n.a.	T 16
F 17	9 31 2	24°43'25	12°48	21°37	14°54	26°11	3°28	25° 4	23°21	26°12	29° 6	20°18	20°10	4°34	n.a.	F 17
S 18	9 34 58	25°42'59	25° 7	23°33	16° 5	26°46	3°43	25° 9	23°23	26°13	29° 8	20°18	20° 7	4°41	n.a.	S 18
S 19	9 38 55	26°42'32	7♋44	25°31	17°16	27°20	3°57	25°13	23°25	26°13	29° 9	20°19	20° 4	4°47	n.a.	S 19
M20	9 42 51	27°42'02	20°42	27°30	18°27	27°54	4°12	25°18	23°28	26°14	29°11	20°19	20° 1	4°54	n.a.	M20
T 21	9 46 48	28°41'31	4♒ 1	29°29	19°38	28°29	4°26	25°22	23°30	26°14	29°12	20°20	19°57	5° 1	n.a.	T 21
W22	9 50 44	29°40'57	17°41	1♓30	20°49	29° 3	4°40	25°26	23°32	26°14	29°14	20°R20	19°54	5° 7	n.a.	W22
T 23	9 54 41	0♓40'22	1♓42	3°31	22° 0	29°37	4°55	25°31	23°35	26°15	29°15	20°20	19°51	5°14	n.a.	T 23
F 24	9 58 37	1°39'44	16° 0	5°32	23°11	0♐11	5° 9	25°35	23°37	26°15	29°17	20°19	19°48	5°21	n.a.	F 24
S 25	10 2 34	2°39'04	0♈29	7°34	24°23	0°45	5°24	25°39	23°39	26°15	29°18	20°18	19°45	5°28	n.a.	S 25
S 26	10 6 31	3°38'21	15° 3	9°37	25°34	1°19	5°38	25°43	23°42	26°15	29°20	20°17	19°42	5°34	n.a.	S 26
M27	10 10 27	4°37'36	29°37	11°39	26°45	1°52	5°53	25°47	23°44	26°15	29°21	20°15	19°38	5°41	n.a.	M27
T 28	10 14 24	5°36'49	14♉ 5	13°40	27°57	2°26	6° 7	25°51	23°47	26°15	29°23	20°13	19°35	5°48	n.a.	T 28
W29	10 18 20	6♓36'00	28♉23	15♓42	29♋ 8	2♐59	6♓22	25♐54	23♈50	26♏15	29♒24	20♌13	19♌32	5♏54	n.a.	W29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	18s16	12n10	5s16	23s35	1s55	22s 6	1n33	16s10	0n55	12s48	1s10	22s56	0n37	8n34	0s28	17s57	1n34	26s41	15s43	14n52	14n39	7s59		n.a.
T 2	18 0	15 38	5 10	23 21	1 57	22 12	1 29	16 21	0 54	12 43	1 10	22 57	0 37	8 34	0 28	17 57	1 35	26 40	15 43	14 52	14 40	8 1		n.a.
F 3	17 44	18 11	4 46	23 4	2 0	22 17	1 26	16 32	0 54	12 38	1 10	22 57	0 37	8 35	0 28	17 57	1 35	26 40	15 43	14 52	14 41	8 3		n.a.
S 4	17 27	19 37	4 5	22 46	2 2	22 21	1 22	16 42	0 53	12 33	1 10	22 57	0 37	8 35	0 28	17 58	1 35	26 39	15 43	14 53	14 42	8 5		n.a.
S 5	17 10	19 52	3 11	22 26	2 3	22 25	1 18	16 53	0 52	12 28	1 10	22 57	0 37	8 36	0 28	17 58	1 35	26 39	15 43	14 53	14 43	8 7		n.a.
M 6	16 53	18 58	2 6	22 5	2 5	22 28	1 14	17 3	0 52	12 23	1 10	22 58	0 37	8 37	0 28	17 58	1 35	26 38	15 43	14 53	14 44	8 9		n.a.
T 7	16 35	17 0	0 56	21 41	2 5	22 30	1 10	17 13	0 51	12 18	1 10	22 58	0 37	8 37	0 28	17 58	1 35	26 37	15 42	14 53	14 45	8 11		n.a.
W 8	16 18	14 11	0n17	21 16	2 6	22 32	1 6	17 24	0 50	12 12	1 10	22 58	0 37	8 38	0 28	17 58	1 35	26 37	15 42	14 54	14 46	8 13		n.a.
T 9	15 59	10 44	1 26	20 49	2 6	22 33	1 2	17 34	0 49	12 7	1 9	22 59	0 37	8 39	0 28	17 58	1 35	26 36	15 42	14 53	14 47	8 15		n.a.
F 10	15 41	6 52	2 31	20 20	2 5	22 34	0 59	17 44	0 48	12 2	1 9	22 59	0 37	8 39	0 28	17 58	1 35	26 36	15 42	14 53	14 48	8 17		n.a.
S 11	15 22	2 48	3 27	19 50	2 4	22 34	0 55	17 53	0 48	11 57	1 9	22 59	0 37	8 40	0 28	17 58	1 35	26 35	15 42	14 53	14 50	8 19		n.a.
S 12	15 4	1s19	4 13	19 18	2 2	22 33	0 51	18 3	0 47	11 52	1 9	22 59	0 37	8 41	0 28	17 59	1 35	26 34	15 42	14 53	14 51	8 21		n.a.
M13	14 44	5 20	4 47	18 43	2 0	22 32	0 47	18 13	0 46	11 46	1 9	22 59	0 37	8 42	0 28	17 59	1 35	26 34	15 42	14 53	14 52	8 23		n.a.
T 14	14 25	9 6	5 9	18 7	1 58	22 30	0 43	18 22	0 45	11 41	1 9	23 0	0 37	8 42	0 28	17 59	1 35	26 33	15 42	14 53	14 53	8 25		n.a.
W15	14 6	12 31	5 17	17 30	1 55	22 28	0 39	18 32	0 44	11 36	1 9	23 0	0 37	8 43	0 28	17 59	1 35	26 33	15 42	14 53	14 54	8 27		n.a.
T 16	13 46	15 26	5 12	16 50	1 51	22 24	0 36	18 41	0 43	11 31	1 9	23 0	0 37	8 44	0 27	17 59	1 35	26 32	15 42	14 53	14 55	8 29		n.a.
F 17	13 26	17 45	4 53	16 9	1 47	22 20	0 32	18 50	0 42	11 25	1 9	23 0	0 37	8 45	0 27	17 59	1 35	26 31	15 42	14 53	14 56	8 31		n.a.
S 18	13 6	19 17	4 21	15 25	1 42	22 16	0 28	18 59	0 41	11 20	1 9	23 1	0 37	8 46	0 27	17 59	1 35	26 31	15 42	14 53	14 57	8 33		n.a.
S 19	12 45	19 55	3 35	14 40	1 37	22 11	0 24	19 8	0 40	11 15	1 9	23 1	0 37	8 46	0 27	17 59	1 35	26 30	15 42	14 53	14 58	8 35		n.a.
M20	12 25	19 31	2 37	13 54	1 31	22 5	0 21	19 17	0 39	11 9	1 9	23 1	0 37	8 47	0 27	17 59	1 35	26 30	15 42	14 53	14 59	8 37		n.a.
T 21	12 4	18 2	1 29	13 6	1 24	21 59	0 17	19 25	0 38	11 4	1 9	23 1	0 37	8 48	0 27	17 59	1 35	26 29	15 42	14 52	15 0	8 39		n.a.
W22	11 43	15 28	0 15	12 16	1 17	21 51	0 14	19 34	0 37	10 59	1 9	23 1	0 37	8 49	0 27	17 59	1 35	26 29	15 42	14 52	15 1	8 41		n.a.
T 23	11 22	11 58	1s 3	11 25	1 10	21 44	0 10	19 42	0 36	10 53	1 9	23 1	0 37	8 50	0 27	17 59	1 35	26 28	15 42	14 52	15 2	8 43		n.a.
F 24	11 0	7 41	2 17	10 32	1 1	21 35	0 6	19 51	0 35	10 48	1 9	23 2	0 37	8 51	0 27	17 59	1 36	26 27	15 42	14 53	15 3	8 45		n.a.
S 25	10 39	2 55	3 24	9 38	0 53	21 26	0 3	19 59	0 34	10 43	1 9	23 2	0 37	8 52	0 27	17 59	1 36	26 27	15 42	14 53	15 4	8 47		n.a.
S 26	10 17	2n 2	4 18	8 43	0 43	21 17	0s 1	20 7	0 33	10 37	1 9	23 2	0 37	8 53	0 27	17 59	1 36	26 26	15 42	14 54	15 5	8 49		n.a.
M27	9 55	6 51	4 56	7 47	0 33	21 7	0 4	20 15	0 32	10 32	1 9	23 2	0 37	8 54	0 27	17 59	1 36	26 26	15 42	14 54	15 6	8 51		n.a.
T 28	9 33	11 15	5 14	6 51	0 23	20 56	0 7	20 23	0 31	10 27	1 9	23 2	0 37	8 55	0 27	17 59	1 36	26 25	15 42	14 55	15 7	8 53		n.a.
W29	9s11	14n57	5s13	5s54	0s13	20s45	0s11	20s31	0n30	10s21	1s 9	23s 2	0n37	8n56	0s27	17s59	1n36	26s25	15s42	14n55	15n 8	8s55		n.a.

Julian Day Number = 1662648.5, Delta T = 03h24m53s
Ecliptic obliquity = 23°42'46, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'20, Lahiri = - 6°10'20 Julian Calendar 1 Feb. 161 BCE == Greg. Calendar 29 Jan. 161 BCE

The year -160 astronomical counting style corresponds to year 161 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 161 BCE
geocentric

MARCH 161 BCE (-160) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 22 17	7♓35'08	12♊28	17♓42	0♒19	3♐32	6♓36	25♐58	23♈52	26°R15	29♒26	20°D12	19♌29	6♏ 1	n.a.	T 1
F 2	10 26 13	8°34'13	26°18	19°41	1°31	4° 6	6°50	26° 2	23°55	26♏15	29°27	20♌13	19°26	6° 8	n.a.	F 2
S 3	10 30 10	9°33'16	9♋54	21°38	2°42	4°39	7° 5	26° 5	23°57	26°15	29°29	20°14	19°23	6°15	n.a.	S 3
S 4	10 34 6	10°32'17	23°16	23°33	3°54	5°12	7°19	26° 9	24° 0	26°15	29°30	20°16	19°19	6°21	n.a.	S 4
M 5	10 38 3	11°31'16	6♌24	25°26	5° 5	5°44	7°34	26°12	24° 3	26°15	29°32	20°17	19°16	6°28	n.a.	M 5
T 6	10 42 0	12°30'12	19°19	27°16	6°17	6°17	7°48	26°15	24° 6	26°15	29°33	20°R18	19°13	6°35	n.a.	T 6
W 7	10 45 56	13°29'05	2♍ 1	29° 3	7°28	6°50	8° 3	26°19	24° 9	26°15	29°35	20°17	19°10	6°41	n.a.	W 7
T 8	10 49 53	14°27'57	14°33	0♈47	8°40	7°22	8°17	26°22	24°11	26°15	29°36	20°15	19° 7	6°48	n.a.	T 8
F 9	10 53 49	15°26'47	26°53	2°26	9°52	7°54	8°31	26°25	24°14	26°14	29°38	20°12	19° 3	6°55	n.a.	F 9
S 10	10 57 46	16°25'34	9♎ 4	4° 1	11° 3	8°27	8°46	26°28	24°17	26°14	29°39	20° 8	19° 0	7° 2	n.a.	S 10
S 11	11 1 42	17°24'19	21° 6	5°32	12°15	8°59	9° 0	26°31	24°20	26°14	29°41	20° 4	18°57	7° 8	n.a.	S 11
M12	11 5 39	18°23'03	3♏ 3	6°58	13°27	9°30	9°14	26°33	24°23	26°14	29°42	19°59	18°54	7°15	n.a.	M12
T 13	11 9 35	19°21'44	14°56	8°20	14°39	10° 2	9°29	26°36	24°26	26°13	29°44	19°55	18°51	7°22	n.a.	T 13
W14	11 13 32	20°20'24	26°48	9°36	15°51	10°34	9°43	26°39	24°29	26°13	29°45	19°51	18°48	7°29	n.a.	W14
T 15	11 17 28	21°19'02	8♐45	10°47	17° 2	11° 5	9°57	26°41	24°32	26°12	29°47	19°49	18°44	7°35	n.a.	T 15
F 16	11 21 25	22°17'39	20°49	11°52	18°14	11°36	10°12	26°43	24°35	26°12	29°48	19°D48	18°41	7°42	n.a.	F 16
S 17	11 25 22	23°16'13	3♑ 6	12°52	19°26	12° 7	10°26	26°46	24°38	26°11	29°49	19°48	18°38	7°49	n.a.	S 17
S 18	11 29 18	24°14'46	15°40	13°46	20°38	12°38	10°40	26°48	24°41	26°11	29°51	19°50	18°35	7°55	n.a.	S 18
M19	11 33 15	25°13'17	28°36	14°34	21°50	13° 9	10°54	26°50	24°44	26°10	29°52	19°51	18°32	8° 2	n.a.	M19
T 20	11 37 11	26°11'46	11♒56	15°16	23° 2	13°40	11° 9	26°52	24°47	26°10	29°54	19°53	18°28	8° 9	n.a.	T 20
W21	11 41 8	27°10'14	25°43	15°53	24°14	14°10	11°23	26°54	24°51	26° 9	29°55	19°R53	18°25	8°16	n.a.	W21
T 22	11 45 4	28° 8'39	9♓56	16°24	25°26	14°40	11°37	26°56	24°54	26° 9	29°56	19°51	18°22	8°22	n.a.	T 22
F 23	11 49 1	29° 7'03	24°31	16°48	26°38	15°10	11°51	26°58	24°57	26° 8	29°58	19°48	18°19	8°29	n.a.	F 23
S 24	11 52 57	0♈ 5'25	9♈23	17° 7	27°50	15°40	12° 5	26°59	25° 0	26° 7	29°59	19°43	18°16	8°36	n.a.	S 24
S 25	11 56 54	1° 3'45	24°24	17°20	29° 2	16° 9	12°19	27° 1	25° 3	26° 6	0♓ 0	19°37	18°13	8°42	n.a.	S 25
M26	12 0 50	2° 2'02	9♉23	17°27	0♓14	16°39	12°33	27° 2	25° 7	26° 6	0° 2	19°31	18° 9	8°49	n.a.	M26
T 27	12 4 47	3° 0'18	24°12	17°R28	1°26	17° 8	12°47	27° 4	25°10	26° 5	0° 3	19°25	18° 6	8°56	n.a.	T 27
W28	12 8 44	3°58'32	8♊46	17°24	2°38	17°36	13° 1	27° 5	25°13	26° 4	0° 4	19°21	18° 3	9° 3	n.a.	W28
T 29	12 12 40	4°56'43	22°58	17°14	3°51	18° 5	13°15	27° 6	25°17	26° 3	0° 6	19°18	18° 0	9° 9	n.a.	T 29
F 30	12 16 37	5°54'53	6♋48	17° 0	5° 3	18°34	13°29	27° 7	25°20	26° 2	0° 7	19°D18	17°57	9°16	n.a.	F 30
S 31	12 20 33	6♈53'00	20♋16	16♈41	6♓15	19♐ 2	13♓43	27♐ 8	25♈23	26♏ 2	0♓ 8	19♌18	17♌54	9♏23	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	8s49	17n43	4s52	4s56	0s 1	20s33	0s14	20s38	0n28	10s16	1s 9	23s 2	0n37	8n57	0s27	17s59	1n36	26s24	15s42	14n55	15n 9	8s57			n.a.
F 2	8 27	19 24	4 16	3 59	0n10	20 20	0 17	20 46	0 27	10 10	1 10	23 3	0 37	8 58	0 27	17 59	1 36	26 24	15 42	14 55	15 10	9 0			n.a.
S 3	8 5	19 56	3 25	3 1	0 22	20 7	0 21	20 53	0 26	10 5	1 10	23 3	0 37	8 59	0 27	17 59	1 36	26 23	15 42	14 54	15 11	9 2			n.a.
S 4	7 42	19 19	2 24	2 4	0 34	19 53	0 24	21 0	0 25	10 0	1 10	23 3	0 37	9 0	0 27	17 59	1 36	26 23	15 43	14 54	15 12	9 4			n.a.
M 5	7 19	17 40	1 16	1 8	0 46	19 39	0 27	21 7	0 23	9 54	1 10	23 3	0 37	9 1	0 27	17 59	1 36	26 22	15 43	14 53	15 13	9 6			n.a.
T 6	6 57	15 7	0 5	0 13	0 58	19 24	0 30	21 15	0 22	9 49	1 10	23 3	0 36	9 2	0 27	17 59	1 36	26 22	15 43	14 53	15 14	9 8			n.a.
W 7	6 34	11 52	1n 4	0n41	1 9	19 9	0 33	21 21	0 21	9 43	1 10	23 3	0 36	9 3	0 27	17 59	1 36	26 21	15 43	14 53	15 15	9 10			n.a.
T 8	6 11	8 8	2 9	1 33	1 21	18 53	0 36	21 28	0 19	9 38	1 10	23 3	0 36	9 4	0 27	17 59	1 36	26 21	15 43	14 54	15 16	9 12			n.a.
F 9	5 48	4 7	3 8	2 24	1 33	18 36	0 39	21 35	0 18	9 33	1 10	23 3	0 36	9 5	0 27	17 59	1 36	26 21	15 43	14 55	15 17	9 14			n.a.
S 10	5 25	0s 1	3 56	3 12	1 44	18 19	0 42	21 42	0 17	9 27	1 10	23 3	0 36	9 6	0 27	17 58	1 36	26 20	15 43	14 56	15 18	9 16			n.a.
S 11	5 2	4 6	4 34	3 59	1 55	18 2	0 44	21 48	0 15	9 22	1 10	23 4	0 36	9 7	0 27	17 58	1 36	26 20	15 43	14 58	15 19	9 18			n.a.
M12	4 39	7 59	4 59	4 43	2 5	17 44	0 47	21 54	0 14	9 16	1 10	23 4	0 36	9 8	0 27	17 58	1 36	26 19	15 43	14 59	15 20	9 20			n.a.
T 13	4 15	11 32	5 11	5 24	2 15	17 25	0 50	22 1	0 12	9 11	1 10	23 4	0 36	9 10	0 27	17 58	1 36	26 19	15 43	15 1	15 21	9 22			n.a.
W14	3 52	14 38	5 10	6 3	2 24	17 6	0 52	22 7	0 11	9 5	1 10	23 4	0 36	9 11	0 27	17 58	1 36	26 18	15 44	15 2	15 22	9 24			n.a.
T 15	3 29	17 9	4 56	6 39	2 33	16 47	0 55	22 13	0 9	9 0	1 10	23 4	0 36	9 12	0 27	17 58	1 36	26 18	15 44	15 2	15 23	9 26			n.a.
F 16	3 5	18 56	4 28	7 12	2 41	16 27	0 57	22 19	0 7	8 55	1 10	23 4	0 36	9 13	0 27	17 58	1 36	26 18	15 44	15 3	15 24	9 28			n.a.
S 17	2 42	19 53	3 48	7 42	2 48	16 6	1 0	22 24	0 6	8 49	1 10	23 4	0 36	9 14	0 27	17 57	1 37	26 17	15 44	15 3	15 25	9 30			n.a.
S 18	2 19	19 52	2 56	8 9	2 54	15 46	1 2	22 30	0 4	8 44	1 10	23 4	0 36	9 15	0 27	17 57	1 37	26 17	15 44	15 2	15 26	9 32			n.a.
M19	1 55	18 50	1 53	8 33	2 59	15 24	1 4	22 36	0 2	8 38	1 10	23 4	0 36	9 16	0 27	17 57	1 37	26 16	15 44	15 2	15 27	9 34			n.a.
T 20	1 32	16 43	0 43	8 53	3 3	15 3	1 7	22 41	0 1	8 33	1 10	23 4	0 36	9 18	0 27	17 57	1 37	26 16	15 45	15 1	15 28	9 36			n.a.
W21	1 8	13 35	0s32	9 10	3 6	14 40	1 9	22 47	0s 1	8 28	1 10	23 4	0 36	9 19	0 27	17 57	1 37	26 16	15 45	15 1	15 29	9 38			n.a.
T 22	0 45	9 35	1 47	9 24	3 7	14 18	1 11	22 52	0 3	8 22	1 10	23 4	0 36	9 20	0 27	17 57	1 37	26 15	15 45	15 2	15 30	9 40			n.a.
F 23	0 21	4 54	2 57	9 34	3 8	13 55	1 13	22 57	0 5	8 17	1 11	23 4	0 36	9 21	0 27	17 56	1 37	26 15	15 45	15 3	15 31	9 42			n.a.
S 24	0n 2	0n 9	3 56	9 40	3 7	13 32	1 15	23 2	0 7	8 11	1 11	23 5	0 36	9 22	0 27	17 56	1 37	26 15	15 45	15 4	15 32	9 44			n.a.
S 25	0 26	5 14	4 40	9 44	3 6	13 8	1 17	23 7	0 8	8 6	1 11	23 5	0 36	9 24	0 27	17 56	1 37	26 14	15 45	15 6	15 33	9 46			n.a.
M26	0 49	9 59	5 4	9 44	3 2	12 44	1 18	23 12	0 10	8 1	1 11	23 5	0 36	9 25	0 27	17 56	1 37	26 14	15 46	15 8	15 34	9 48			n.a.
T 27	1 12	14 4	5 8	9 40	2 58	12 20	1 20	23 17	0 12	7 55	1 11	23 5	0 36	9 26	0 27	17 56	1 37	26 14	15 46	15 10	15 35	9 50			n.a.
W28	1 36	17 13	4 52	9 33	2 52	11 55	1 22	23 22	0 14	7 50	1 11	23 5	0 36	9 27	0 27	17 55	1 37	26 13	15 46	15 11	15 36	9 52			n.a.
T 29	1 59	19 14	4 18	9 23	2 45	11 30	1 23	23 27	0 16	7 45	1 11	23 5	0 36	9 29	0 27	17 55	1 37	26 13	15 46	15 12	15 37	9 54			n.a.
F 30	2 22	20 3	3 29	9 9	2 36	11 5	1 25	23 31	0 18	7 39	1 11	23 5	0 36	9 30	0 27	17 55	1 37	26 13	15 46	15 12	15 38	9 56			n.a.
S 31	2n46	19n41	2s30	8n53	2n27	10s39	1s26	23s36	0s20	7s34	1s11	23s 5	0n36	9n31	0s27	17s55	1n37	26s13	15s47	15n12	15n39	9s57			n.a.

Julian Day Number = 1662677.5, Delta T = 03h24m52s
Ecliptic obliquity = 23°42'46, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'16, Lahiri = - 6°10'16 Julian Calendar 1 March 161 BCE == Greg. Calendar 27 Feb. 161 BCE

The year -160 astronomical counting style corresponds to year 161 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 161 BCE
geocentric

APRIL 161 BCE (-160) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 24 30	7♈51'06	3♌24	16°R17	7♓27	19♐30	13♓57	27♐ 9	25♈27	26°R 1	0♓10	19♌19	17♌50	9♏30	n.a.	S 1
M 2	12 28 26	8°49'09	16°15	15♈50	8°39	19°57	14°10	27°10	25°30	26♏ 0	0°11	19°R20	17°47	9°36	n.a.	M 2
T 3	12 32 23	9°47'10	28°52	15°20	9°52	20°25	14°24	27°10	25°33	25°59	0°12	19°20	17°44	9°43	n.a.	T 3
W 4	12 36 19	10°45'09	11♍17	14°47	11° 4	20°52	14°38	27°11	25°37	25°58	0°13	19°18	17°41	9°50	n.a.	W 4
T 5	12 40 16	11°43'06	23°33	14°12	12°16	21°19	14°51	27°12	25°40	25°57	0°14	19°13	17°38	9°56	n.a.	T 5
F 6	12 44 13	12°41'02	5♎41	13°35	13°28	21°45	15° 5	27°12	25°44	25°56	0°16	19° 6	17°34	10° 3	n.a.	F 6
S 7	12 48 9	13°38'56	17°43	12°58	14°41	22°12	15°18	27°12	25°47	25°55	0°17	18°57	17°31	10°10	n.a.	S 7
S 8	12 52 6	14°36'48	29°40	12°20	15°53	22°38	15°32	27°12	25°50	25°53	0°18	18°46	17°28	10°17	n.a.	S 8
M 9	12 56 2	15°34'38	11♏34	11°43	17° 5	23° 4	15°45	27°12	25°54	25°52	0°19	18°36	17°25	10°23	n.a.	M 9
T 10	12 59 59	16°32'28	23°26	11° 8	18°18	23°29	15°59	27°R13	25°57	25°51	0°20	18°26	17°22	10°30	n.a.	T 10
W11	13 3 55	17°30'15	5♐19	10°34	19°30	23°54	16°12	27°12	26° 1	25°50	0°21	18°17	17°19	10°37	n.a.	W11
T 12	13 7 52	18°28'02	17°16	10° 3	20°42	24°19	16°25	27°12	26° 4	25°49	0°22	18°10	17°15	10°43	n.a.	T 12
F 13	13 11 48	19°25'47	29°19	9°34	21°55	24°43	16°39	27°12	26° 8	25°48	0°23	18° 6	17°12	10°50	n.a.	F 13
S 14	13 15 45	20°23'31	11♑34	9° 9	23° 7	25° 8	16°52	27°12	26°11	25°46	0°25	18° 4	17° 9	10°57	n.a.	S 14
S 15	13 19 42	21°21'14	24° 4	8°47	24°20	25°31	17° 5	27°11	26°15	25°45	0°26	18°D 3	17° 6	11° 4	n.a.	S 15
M16	13 23 38	22°18'55	6♒55	8°29	25°32	25°55	17°18	27°11	26°18	25°44	0°27	18° 4	17° 3	11°10	n.a.	M16
T 17	13 27 35	23°16'36	20°11	8°15	26°44	26°18	17°31	27°10	26°21	25°43	0°28	18°R 4	16°59	11°17	n.a.	T 17
W18	13 31 31	24°14'15	3♓55	8° 6	27°57	26°41	17°44	27° 9	26°25	25°41	0°29	18° 3	16°56	11°24	n.a.	W18
T 19	13 35 28	25°11'53	18° 7	8° 1	29° 9	27° 3	17°57	27° 8	26°28	25°40	0°30	18° 0	16°53	11°31	n.a.	T 19
F 20	13 39 24	26° 9'30	2♈46	8°D 1	0♈22	27°25	18°10	27° 7	26°32	25°39	0°31	17°54	16°50	11°37	n.a.	F 20
S 21	13 43 21	27° 7'05	17°48	8° 5	1°34	27°46	18°23	27° 6	26°35	25°37	0°32	17°47	16°47	11°44	n.a.	S 21
S 22	13 47 17	28° 4'40	3♉ 2	8°14	2°47	28° 7	18°35	27° 5	26°39	25°36	0°32	17°37	16°44	11°51	n.a.	S 22
M23	13 51 14	29° 2'13	18°18	8°27	4° 0	28°28	18°48	27° 4	26°42	25°35	0°33	17°27	16°40	11°57	n.a.	M23
T 24	13 55 10	29°59'45	3♊26	8°45	5°12	28°48	19° 0	27° 2	26°46	25°33	0°34	17°18	16°37	12° 4	n.a.	T 24
W25	13 59 7	0♉57'15	18°15	9° 7	6°25	29° 8	19°13	27° 1	26°49	25°32	0°35	17°10	16°34	12°11	n.a.	W25
T 26	14 3 4	1°54'44	2♋39	9°33	7°37	29°27	19°25	27° 0	26°53	25°30	0°36	17° 5	16°31	12°18	n.a.	T 26
F 27	14 7 0	2°52'12	16°37	10° 4	8°50	29°46	19°38	26°58	26°56	25°29	0°37	17° 2	16°28	12°24	n.a.	F 27
S 28	14 10 57	3°49'38	0♌ 7	10°38	10° 2	0♑ 4	19°50	26°56	27° 0	25°27	0°38	17°D 1	16°25	12°31	n.a.	S 28
S 29	14 14 53	4°47'03	13°12	11°17	11°15	0°22	20° 2	26°54	27° 3	25°26	0°38	17°R 1	16°21	12°38	n.a.	S 29
M30	14 18 50	5♉44'26	25♌56	11♈59	12♈28	0♑40	20♓14	26♐53	27♈ 7	25♏24	0♓39	17♌ 1	16♌18	12♏44	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n 9	18n14	1s25	8n34	2n16	10s13	1s27	23s40	0s23	7s29	1s11	23s 5	0n36	9n32	0s27	17s54	1n37	26s12	15s47	15n12	15n40	9s59		n.a.
M 2	3 32	15 53	0 17	8 12	2 3	9 47	1 29	23 44	0 25	7 24	1 11	23 5	0 36	9 34	0 27	17 54	1 37	26 12	15 47	15 11	15 41	10 1		n.a.
T 3	3 55	12 48	0n51	7 48	1 50	9 21	1 30	23 49	0 27	7 18	1 11	23 5	0 36	9 35	0 27	17 54	1 37	26 12	15 47	15 12	15 42	10 3		n.a.
W 4	4 18	9 11	1 55	7 22	1 36	8 54	1 31	23 53	0 29	7 13	1 12	23 5	0 36	9 36	0 26	17 54	1 37	26 12	15 48	15 12	15 43	10 5		n.a.
T 5	4 41	5 14	2 53	6 54	1 21	8 27	1 32	23 57	0 32	7 8	1 12	23 5	0 36	9 37	0 26	17 53	1 37	26 11	15 48	15 14	15 44	10 7		n.a.
F 6	5 4	1 7	3 42	6 25	1 5	8 0	1 33	24 1	0 34	7 3	1 12	23 5	0 36	9 39	0 26	17 53	1 37	26 11	15 48	15 16	15 45	10 9		n.a.
S 7	5 27	3s 1	4 21	5 55	0 49	7 32	1 34	24 5	0 36	6 57	1 12	23 5	0 36	9 40	0 26	17 53	1 37	26 11	15 48	15 19	15 46	10 11		n.a.
S 8	5 49	7 0	4 48	5 25	0 32	7 5	1 35	24 9	0 39	6 52	1 12	23 5	0 36	9 41	0 26	17 52	1 37	26 11	15 49	15 22	15 46	10 13		n.a.
M 9	6 12	10 41	5 2	4 55	0 15	6 37	1 35	24 13	0 41	6 47	1 12	23 5	0 36	9 42	0 26	17 52	1 37	26 10	15 49	15 25	15 47	10 15		n.a.
T 10	6 34	13 57	5 3	4 25	0s 2	6 9	1 36	24 17	0 44	6 42	1 12	23 5	0 36	9 44	0 26	17 52	1 37	26 10	15 49	15 29	15 48	10 17		n.a.
W11	6 57	16 40	4 51	3 56	0 19	5 41	1 37	24 20	0 46	6 37	1 12	23 5	0 36	9 45	0 26	17 52	1 37	26 10	15 49	15 31	15 49	10 19		n.a.
T 12	7 19	18 40	4 26	3 28	0 36	5 13	1 37	24 24	0 49	6 32	1 12	23 5	0 36	9 46	0 26	17 51	1 37	26 10	15 50	15 33	15 50	10 21		n.a.
F 13	7 41	19 53	3 50	3 2	0 52	4 44	1 38	24 28	0 52	6 26	1 13	23 5	0 36	9 47	0 26	17 51	1 37	26 10	15 50	15 35	15 51	10 23		n.a.
S 14	8 3	20 11	3 2	2 38	1 8	4 15	1 38	24 32	0 54	6 21	1 13	23 5	0 36	9 49	0 26	17 51	1 37	26 10	15 50	15 35	15 52	10 25		n.a.
S 15	8 25	19 30	2 4	2 15	1 23	3 47	1 38	24 35	0 57	6 16	1 13	23 5	0 36	9 50	0 26	17 50	1 38	26 10	15 50	15 36	15 53	10 27		n.a.
M16	8 47	17 48	0 59	1 55	1 38	3 18	1 38	24 39	1 0	6 11	1 13	23 5	0 36	9 51	0 26	17 50	1 38	26 9	15 51	15 35	15 54	10 29		n.a.
T 17	9 9	15 6	0s11	1 37	1 51	2 49	1 39	24 42	1 3	6 6	1 13	23 5	0 36	9 53	0 26	17 50	1 38	26 9	15 51	15 35	15 55	10 31		n.a.
W18	9 30	11 29	1 23	1 21	2 4	2 20	1 39	24 46	1 6	6 1	1 13	23 5	0 36	9 54	0 26	17 49	1 38	26 9	15 51	15 36	15 56	10 33		n.a.
T 19	9 52	7 5	2 33	1 8	2 16	1 51	1 39	24 49	1 9	5 56	1 13	23 5	0 36	9 55	0 26	17 49	1 38	26 9	15 52	15 37	15 57	10 35		n.a.
F 20	10 13	2 9	3 34	0 58	2 27	1 21	1 38	24 53	1 12	5 51	1 13	23 5	0 36	9 56	0 26	17 49	1 38	26 9	15 52	15 38	15 58	10 37		n.a.
S 21	10 34	3n 2	4 22	0 50	2 37	0 52	1 38	24 56	1 15	5 46	1 14	23 5	0 36	9 58	0 26	17 48	1 38	26 9	15 52	15 41	15 59	10 39		n.a.
S 22	10 55	8 5	4 52	0 46	2 46	0 23	1 38	25 0	1 18	5 42	1 14	23 5	0 35	9 59	0 26	17 48	1 38	26 9	15 53	15 44	16 0	10 41		n.a.
M23	11 15	12 38	5 2	0 43	2 54	0n 7	1 38	25 3	1 21	5 37	1 14	23 5	0 35	10 0	0 26	17 48	1 38	26 9	15 53	15 47	16 1	10 43		n.a.
T 24	11 36	16 20	4 50	0 44	3 1	0 36	1 37	25 6	1 24	5 32	1 14	23 5	0 35	10 2	0 26	17 47	1 38	26 9	15 53	15 50	16 2	10 45		n.a.
W25	11 56	18 53	4 19	0 47	3 7	1 6	1 37	25 10	1 27	5 27	1 14	23 5	0 35	10 3	0 26	17 47	1 38	26 9	15 54	15 52	16 3	10 47		n.a.
T 26	12 16	20 9	3 32	0 53	3 13	1 35	1 36	25 13	1 31	5 22	1 14	23 5	0 35	10 4	0 26	17 47	1 38	26 9	15 54	15 54	16 4	10 49		n.a.
F 27	12 36	20 7	2 34	1 1	3 17	2 4	1 36	25 17	1 34	5 17	1 14	23 5	0 35	10 5	0 26	17 46	1 38	26 9	15 54	15 54	16 5	10 51		n.a.
S 28	12 56	18 55	1 28	1 12	3 20	2 34	1 35	25 20	1 37	5 13	1 15	23 5	0 35	10 7	0 26	17 46	1 38	26 9	15 54	15 55	16 6	10 53		n.a.
S 29	13 16	16 43	0 20	1 25	3 23	3 3	1 34	25 24	1 41	5 8	1 15	23 5	0 35	10 8	0 26	17 45	1 38	26 9	15 55	15 55	16 7	10 55		n.a.
M30	13n35	13n45	0n47	1n40	3s24	3n33	1s34	25s27	1s44	5s 3	1s15	23s 5	0n35	10n 9	0s26	17s45	1n38	26s 9	15s55	15n55	16n 8	10s57		n.a.

Julian Day Number = 1662708.5, Delta T = 03h24m51s
Ecliptic obliquity = 23°42'46, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'12, Lahiri = - 6°10'12 Julian Calendar 1 Apr. 161 BCE == Greg. Calendar 29 March 161 BCE

The year -160 astronomical counting style corresponds to year 161 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 161 BCE
geocentric

MAY 161 BCE (-160) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 22 46	6♉41'48	8♍24	12♈46	13♈40	0♑56	20♓26	26°R51	27♈10	25°R23	0♓40	17°R 0	16♌15	12♏51	n.a.	T 1
W 2	14 26 43	7°39'09	20°39	13°36	14°53	1°13	20°38	26♐49	27°14	25♏21	0°41	16♌56	16°12	12°58	n.a.	W 2
T 3	14 30 40	8°36'29	2♎44	14°29	16° 6	1°29	20°50	26°46	27°17	25°20	0°41	16°49	16° 9	13° 5	n.a.	T 3
F 4	14 34 36	9°33'47	14°44	15°26	17°18	1°44	21° 2	26°44	27°20	25°18	0°42	16°40	16° 5	13°11	n.a.	F 4
S 5	14 38 33	10°31'05	26°39	16°27	18°31	1°59	21°14	26°42	27°24	25°17	0°43	16°28	16° 2	13°18	n.a.	S 5
S 6	14 42 29	11°28'21	8♏33	17°30	19°44	2°13	21°25	26°40	27°27	25°15	0°43	16°15	15°59	13°25	n.a.	S 6
M 7	14 46 26	12°25'37	20°25	18°37	20°57	2°26	21°37	26°37	27°31	25°14	0°44	16° 1	15°56	13°32	n.a.	M 7
T 8	14 50 22	13°22'52	2♐19	19°48	22° 9	2°39	21°48	26°35	27°34	25°12	0°45	15°48	15°53	13°38	n.a.	T 8
W 9	14 54 19	14°20'06	14°15	21° 1	23°22	2°52	22° 0	26°32	27°37	25°11	0°45	15°36	15°50	13°45	n.a.	W 9
T 10	14 58 15	15°17'20	26°15	22°17	24°35	3° 3	22°11	26°29	27°41	25° 9	0°46	15°27	15°46	13°52	n.a.	T 10
F 11	15 2 12	16°14'33	8♑22	23°37	25°48	3°15	22°22	26°27	27°44	25° 7	0°46	15°20	15°43	13°58	n.a.	F 11
S 12	15 6 9	17°11'46	20°38	24°59	27° 1	3°25	22°33	26°24	27°47	25° 6	0°47	15°17	15°40	14° 5	n.a.	S 12
S 13	15 10 5	18° 8'58	3♒ 9	26°25	28°13	3°35	22°44	26°21	27°51	25° 4	0°47	15°15	15°37	14°12	n.a.	S 13
M14	15 14 2	19° 6'10	15°58	27°53	29°26	3°44	22°55	26°18	27°54	25° 3	0°48	15°15	15°34	14°19	n.a.	M14
T 15	15 17 58	20° 3'21	29° 9	29°25	0♉39	3°53	23° 6	26°15	27°57	25° 1	0°48	15°15	15°31	14°25	n.a.	T 15
W16	15 21 55	21° 0'32	12♓46	0♉59	1°52	4° 1	23°17	26°12	28° 1	24°59	0°49	15°14	15°27	14°32	n.a.	W16
T 17	15 25 51	21°57'43	26°50	2°36	3° 5	4° 8	23°28	26° 8	28° 4	24°58	0°49	15°10	15°24	14°39	n.a.	T 17
F 18	15 29 48	22°54'54	11♈22	4°16	4°18	4°14	23°38	26° 5	28° 7	24°56	0°49	15° 5	15°21	14°46	n.a.	F 18
S 19	15 33 44	23°52'04	26°17	5°59	5°31	4°20	23°48	26° 2	28°10	24°54	0°50	14°57	15°18	14°52	n.a.	S 19
S 20	15 37 41	24°49'15	11♉29	7°45	6°44	4°25	23°59	25°58	28°14	24°53	0°50	14°47	15°15	14°59	n.a.	S 20
M21	15 41 38	25°46'24	26°47	9°33	7°57	4°29	24° 9	25°55	28°17	24°51	0°51	14°36	15°11	15° 6	n.a.	M21
T 22	15 45 34	26°43'34	12♊ 0	11°24	9°10	4°33	24°19	25°51	28°20	24°50	0°51	14°26	15° 8	15°12	n.a.	T 22
W23	15 49 31	27°40'43	26°57	13°18	10°23	4°35	24°29	25°48	28°23	24°48	0°51	14°18	15° 5	15°19	n.a.	W23
T 24	15 53 27	28°37'52	11♋30	15°14	11°36	4°37	24°39	25°44	28°26	24°46	0°51	14°12	15° 2	15°26	n.a.	T 24
F 25	15 57 24	29°35'00	25°36	17°12	12°49	4°39	24°49	25°40	28°29	24°45	0°52	14° 9	14°59	15°33	n.a.	F 25
S 26	16 1 20	0♊32'08	9♌12	19°13	14° 2	4°R39	24°58	25°37	28°32	24°43	0°52	14°D 8	14°56	15°39	n.a.	S 26
S 27	16 5 17	1°29'15	22°21	21°16	15°15	4°39	25° 8	25°33	28°36	24°42	0°52	14° 8	14°52	15°46	n.a.	S 27
M28	16 9 13	2°26'22	5♍ 7	23°20	16°28	4°38	25°17	25°29	28°39	24°40	0°52	14°R 8	14°49	15°53	n.a.	M28
T 29	16 13 10	3°23'28	17°33	25°26	17°41	4°36	25°26	25°25	28°42	24°38	0°52	14° 7	14°46	16° 0	n.a.	T 29
W30	16 17 7	4°20'34	29°44	27°34	18°55	4°34	25°36	25°21	28°45	24°37	0°52	14° 4	14°43	16° 6	n.a.	W30
T 31	16 21 3	5♊17'40	11♎46	29♉42	20♉ 8	4♑30	25♓45	25♐17	28♈48	24♏35	0♓53	13♌59	14♌40	16♏13	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13n54	10n13	1n51	1n58	3s25	4n 2	1s33	25s31	1s48	4s59	1s15	23s 5	0n35	10n10	0s26	17s45	1n38	26s 9	15s55	15n55	16n 9	10s59		n.a.
W 2	14 13	6 19	2 48	2 17	3 25	4 31	1 32	25 34	1 52	4 54	1 15	23 5	0 35	10 12	0 26	17 44	1 38	26 9	15 56	15 56	16 10	11 1		n.a.
T 3	14 32	2 12	3 37	2 39	3 24	5 0	1 31	25 38	1 55	4 49	1 15	23 5	0 35	10 13	0 26	17 44	1 38	26 9	15 56	15 58	16 11	11 3		n.a.
F 4	14 50	1s57	4 15	3 3	3 22	5 29	1 30	25 41	1 59	4 45	1 16	23 5	0 35	10 14	0 26	17 44	1 38	26 9	15 57	16 1	16 12	11 5		n.a.
S 5	15 9	6 1	4 42	3 28	3 19	5 58	1 29	25 45	2 3	4 40	1 16	23 5	0 35	10 15	0 26	17 43	1 38	26 9	15 57	16 5	16 13	11 7		n.a.
S 6	15 27	9 50	4 57	3 56	3 16	6 27	1 28	25 48	2 7	4 36	1 16	23 5	0 35	10 17	0 26	17 43	1 38	26 9	15 57	16 9	16 14	11 9		n.a.
M 7	15 45	13 15	4 59	4 25	3 12	6 56	1 26	25 52	2 11	4 31	1 16	23 5	0 35	10 18	0 26	17 42	1 38	26 9	15 58	16 13	16 15	11 10		n.a.
T 8	16 2	16 10	4 47	4 56	3 8	7 24	1 25	25 56	2 15	4 27	1 16	23 5	0 35	10 19	0 26	17 42	1 38	26 9	15 58	16 17	16 15	11 12		n.a.
W 9	16 19	18 24	4 24	5 28	3 3	7 53	1 24	25 59	2 19	4 23	1 16	23 5	0 35	10 20	0 26	17 42	1 38	26 9	15 58	16 20	16 16	11 14		n.a.
T 10	16 36	19 52	3 48	6 2	2 57	8 21	1 22	26 3	2 23	4 18	1 17	23 5	0 35	10 22	0 26	17 41	1 38	26 9	15 59	16 23	16 17	11 16		n.a.
F 11	16 53	20 26	3 2	6 38	2 50	8 49	1 21	26 7	2 27	4 14	1 17	23 5	0 35	10 23	0 26	17 41	1 38	26 10	15 59	16 25	16 18	11 18		n.a.
S 12	17 10	20 2	2 6	7 15	2 43	9 17	1 19	26 11	2 31	4 10	1 17	23 5	0 35	10 24	0 26	17 40	1 38	26 10	15 59	16 26	16 19	11 20		n.a.
S 13	17 26	18 39	1 4	7 53	2 36	9 45	1 18	26 15	2 35	4 5	1 17	23 5	0 35	10 25	0 26	17 40	1 38	26 10	16 0	16 27	16 20	11 22		n.a.
M14	17 42	16 18	0s 4	8 33	2 28	10 13	1 16	26 19	2 40	4 1	1 17	23 5	0 35	10 26	0 26	17 40	1 38	26 10	16 0	16 27	16 21	11 24		n.a.
T 15	17 57	13 2	1 13	9 13	2 19	10 40	1 15	26 23	2 44	3 57	1 18	23 5	0 35	10 28	0 26	17 39	1 38	26 10	16 0	16 27	16 22	11 26		n.a.
W16	18 13	9 0	2 20	9 55	2 10	11 7	1 13	26 27	2 48	3 53	1 18	23 5	0 35	10 29	0 26	17 39	1 38	26 10	16 1	16 27	16 23	11 28		n.a.
T 17	18 28	4 20	3 21	10 37	2 1	11 34	1 11	26 32	2 53	3 49	1 18	23 5	0 34	10 30	0 26	17 39	1 38	26 11	16 1	16 28	16 24	11 30		n.a.
F 18	18 43	0n42	4 11	11 21	1 51	12 1	1 9	26 36	2 57	3 45	1 18	23 5	0 34	10 31	0 26	17 38	1 38	26 11	16 2	16 30	16 25	11 32		n.a.
S 19	18 57	5 50	4 45	12 5	1 41	12 27	1 8	26 40	3 2	3 41	1 18	23 5	0 34	10 32	0 26	17 38	1 38	26 11	16 2	16 32	16 26	11 34		n.a.
S 20	19 11	10 41	5 0	12 50	1 30	12 53	1 6	26 45	3 6	3 37	1 19	23 5	0 34	10 33	0 26	17 37	1 38	26 11	16 2	16 35	16 27	11 36		n.a.
M21	19 25	14 53	4 54	13 35	1 20	13 19	1 4	26 49	3 11	3 33	1 19	23 5	0 34	10 35	0 26	17 37	1 38	26 11	16 3	16 38	16 28	11 38		n.a.
T 22	19 39	18 4	4 27	14 20	1 9	13 44	1 2	26 53	3 16	3 29	1 19	23 5	0 34	10 36	0 26	17 37	1 38	26 12	16 3	16 41	16 29	11 40		n.a.
W23	19 52	19 59	3 42	15 6	0 57	14 9	1 0	26 58	3 20	3 25	1 19	23 5	0 34	10 37	0 26	17 36	1 38	26 12	16 3	16 44	16 30	11 42		n.a.
T 24	20 5	20 29	2 44	15 51	0 46	14 34	0 58	27 3	3 25	3 22	1 19	23 5	0 34	10 38	0 26	17 36	1 38	26 12	16 4	16 45	16 31	11 44		n.a.
F 25	20 18	19 41	1 37	16 36	0 35	14 59	0 56	27 7	3 30	3 18	1 20	23 4	0 34	10 39	0 26	17 35	1 38	26 12	16 4	16 46	16 32	11 46		n.a.
S 26	20 30	17 44	0 26	17 21	0 23	15 23	0 54	27 12	3 34	3 14	1 20	23 4	0 34	10 40	0 26	17 35	1 38	26 13	16 5	16 47	16 33	11 47		n.a.
S 27	20 42	14 54	0n44	18 5	0 12	15 46	0 52	27 17	3 39	3 11	1 20	23 4	0 34	10 41	0 26	17 35	1 38	26 13	16 5	16 47	16 34	11 49		n.a.
M28	20 53	11 26	1 49	18 48	0 1	16 10	0 49	27 22	3 44	3 7	1 20	23 4	0 34	10 42	0 26	17 34	1 38	26 13	16 5	16 47	16 34	11 51		n.a.
T 29	21 4	7 32	2 48	19 30	0n10	16 33	0 47	27 27	3 49	3 4	1 20	23 4	0 34	10 43	0 26	17 34	1 38	26 13	16 6	16 47	16 35	11 53		n.a.
W30	21 15	3 25	3 37	20 10	0 21	16 55	0 45	27 31	3 54	3 0	1 21	23 4	0 34	10 44	0 26	17 34	1 38	26 14	16 6	16 48	16 36	11 55		n.a.
T 31	21n26	0s47	4n16	20n49	0n31	17n17	0s43	27s36	3s58	2s57	1s21	23s 4	0n34	10n46	0s26	17s33	1n38	26s14	16s 6	16n49	16n37	11s57		n.a.

Julian Day Number = 1662738.5, Delta T = 03h24m50s
Ecliptic obliquity = 23°42'46, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'08, Lahiri = - 6°10'08 Julian Calendar 1 May 161 BCE == Greg. Calendar 28 Apr. 161 BCE

The year -160 astronomical counting style corresponds to year 161 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 161 BCE
geocentric

JUNE 161 BCE (-160) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 25 0	6♊14'45	23♎41	1♊52	21♉21	4°R26	25♓54	25°R13	28♈50	24°R34	0♓53	13°R52	14♌36	16♏20	n.a.	F 1
S 2	16 28 56	7°11'50	5♏34	4° 2	22°34	4♑22	26° 2	25♐ 9	28°53	24♏32	0°53	13♌42	14°33	16°26	n.a.	S 2
S 3	16 32 53	8° 8'55	17°26	6°12	23°47	4°16	26°11	25° 5	28°56	24°30	0°53	13°30	14°30	16°33	n.a.	S 3
M 4	16 36 49	9° 6'00	29°20	8°22	25° 1	4°10	26°19	25° 1	28°59	24°29	0°R53	13°18	14°27	16°40	n.a.	M 4
T 5	16 40 46	10° 3'06	11♐18	10°32	26°14	4° 3	26°28	24°57	29° 2	24°27	0°53	13° 7	14°24	16°47	n.a.	T 5
W 6	16 44 42	11° 0'11	23°20	12°42	27°27	3°56	26°36	24°52	29° 5	24°26	0°53	12°57	14°21	16°53	n.a.	W 6
T 7	16 48 39	11°57'17	5♑28	14°51	28°40	3°47	26°44	24°48	29° 8	24°24	0°53	12°49	14°17	17° 0	n.a.	T 7
F 8	16 52 36	12°54'23	17°44	16°58	29°54	3°38	26°52	24°44	29°10	24°23	0°53	12°44	14°14	17° 7	n.a.	F 8
S 9	16 56 32	13°51'29	0♒10	19° 5	1♊ 7	3°29	27° 0	24°40	29°13	24°21	0°52	12°41	14°11	17°13	n.a.	S 9
S 10	17 0 29	14°48'36	12°49	21°10	2°20	3°18	27° 8	24°35	29°16	24°20	0°52	12°D40	14° 8	17°20	n.a.	S 10
M11	17 4 25	15°45'43	25°42	23°14	3°34	3° 7	27°15	24°31	29°18	24°18	0°52	12°41	14° 5	17°27	n.a.	M11
T 12	17 8 22	16°42'51	8♓54	25°16	4°47	2°56	27°23	24°27	29°21	24°17	0°52	12°42	14° 2	17°34	n.a.	T 12
W13	17 12 18	17°39'59	22°28	27°17	6° 1	2°44	27°30	24°22	29°24	24°15	0°52	12°R42	13°58	17°40	n.a.	W13
T 14	17 16 15	18°37'09	6♈24	29°16	7°14	2°31	27°37	24°18	29°26	24°14	0°52	12°40	13°55	17°47	n.a.	T 14
F 15	17 20 11	19°34'19	20°43	1♋13	8°28	2°18	27°44	24°14	29°29	24°12	0°51	12°37	13°52	17°54	n.a.	F 15
S 16	17 24 8	20°31'29	5♉24	3° 9	9°41	2° 4	27°51	24° 9	29°31	24°11	0°51	12°32	13°49	18° 1	n.a.	S 16
S 17	17 28 5	21°28'41	20°20	5° 3	10°55	1°50	27°58	24° 5	29°34	24°10	0°51	12°25	13°46	18° 7	n.a.	S 17
M18	17 32 1	22°25'53	5♊24	6°55	12° 8	1°36	28° 4	24° 0	29°36	24° 8	0°51	12°17	13°42	18°14	n.a.	M18
T 19	17 35 58	23°23'06	20°26	8°45	13°22	1°21	28°10	23°56	29°38	24° 7	0°50	12°10	13°39	18°21	n.a.	T 19
W20	17 39 54	24°20'20	5♋17	10°33	14°36	1° 6	28°17	23°51	29°41	24° 6	0°50	12° 5	13°36	18°27	n.a.	W20
T 21	17 43 51	25°17'34	19°49	12°20	15°49	0°50	28°23	23°47	29°43	24° 4	0°49	12° 1	13°33	18°34	n.a.	T 21
F 22	17 47 47	26°14'49	3♌56	14° 5	17° 3	0°35	28°29	23°43	29°45	24° 3	0°49	11°59	13°30	18°41	n.a.	F 22
S 23	17 51 44	27°12'04	17°36	15°48	18°17	0°19	28°34	23°38	29°48	24° 2	0°49	11°D59	13°27	18°48	n.a.	S 23
S 24	17 55 41	28° 9'20	0♍50	17°29	19°30	0° 3	28°40	23°34	29°50	24° 0	0°48	12° 0	13°23	18°54	n.a.	S 24
M25	17 59 37	29° 6'36	13°39	19° 9	20°44	29♐46	28°45	23°29	29°52	23°59	0°48	12° 1	13°20	19° 1	n.a.	M25
T 26	18 3 34	0♋ 3'52	26° 8	20°46	21°58	29°30	28°50	23°25	29°54	23°58	0°47	12°R 2	13°17	19° 8	n.a.	T 26
W27	18 7 30	1° 1'09	8♎21	22°22	23°11	29°14	28°56	23°21	29°56	23°57	0°47	12° 2	13°14	19°15	n.a.	W27
T 28	18 11 27	1°58'27	20°23	23°56	24°25	28°58	29° 0	23°16	29°58	23°55	0°46	12° 0	13°11	19°21	n.a.	T 28
F 29	18 15 23	2°55'46	2♏18	25°29	25°39	28°42	29° 5	23°12	0♑ 0	23°54	0°46	11°56	13° 8	19°28	n.a.	F 29
S 30	18 19 20	3♋53'05	14♏10	26♋59	26♊53	28♐26	29♓10	23♐ 8	0♑ 2	23♏53	0♓45	11♌51	13♌ 4	19♏35	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n36	4s54	4n44	21n26	0n41	17n39	0s41	27s41	4s 3	2s53	1s21	23s 4	0n34	10n47	0s26	17s33	1n38	26s14	16s 7	16n51	16n38	11s59		n.a.
S 2	21 46	8 49	4 59	22 1	0 50	18 0	0 38	27 46	4 8	2 50	1 21	23 4	0 34	10 48	0 26	17 32	1 38	26 15	16 7	16 54	16 39	12 1		n.a.
S 3	21 55	12 24	5 2	22 33	0 59	18 21	0 36	27 51	4 13	2 47	1 22	23 4	0 33	10 49	0 26	17 32	1 38	26 15	16 8	16 58	16 40	12 3		n.a.
M 4	22 4	15 30	4 51	23 3	1 7	18 42	0 34	27 56	4 18	2 44	1 22	23 4	0 33	10 50	0 26	17 32	1 38	26 15	16 8	17 1	16 41	12 5		n.a.
T 5	22 13	17 59	4 27	23 31	1 15	19 1	0 31	28 1	4 22	2 40	1 22	23 4	0 33	10 51	0 26	17 31	1 38	26 16	16 8	17 4	16 42	12 7		n.a.
W 6	22 21	19 41	3 51	23 56	1 22	19 21	0 29	28 6	4 27	2 37	1 22	23 4	0 33	10 52	0 26	17 31	1 38	26 16	16 9	17 7	16 43	12 9		n.a.
T 7	22 29	20 31	3 5	24 18	1 28	19 40	0 26	28 11	4 32	2 34	1 23	23 3	0 33	10 53	0 26	17 31	1 38	26 16	16 9	17 9	16 44	12 11		n.a.
F 8	22 36	20 23	2 9	24 37	1 34	19 58	0 24	28 16	4 36	2 31	1 23	23 3	0 33	10 54	0 26	17 30	1 38	26 17	16 9	17 11	16 45	12 12		n.a.
S 9	22 43	19 16	1 6	24 54	1 39	20 16	0 22	28 21	4 41	2 28	1 23	23 3	0 33	10 55	0 26	17 30	1 38	26 17	16 10	17 12	16 46	12 14		n.a.
S 10	22 50	17 10	0s 1	25 7	1 43	20 33	0 19	28 26	4 45	2 26	1 23	23 3	0 33	10 56	0 26	17 30	1 37	26 18	16 10	17 12	16 47	12 16		n.a.
M11	22 57	14 11	1 9	25 18	1 46	20 50	0 17	28 30	4 50	2 23	1 24	23 3	0 33	10 56	0 26	17 29	1 37	26 18	16 11	17 12	16 48	12 18		n.a.
T 12	23 2	10 25	2 16	25 27	1 49	21 6	0 14	28 35	4 54	2 20	1 24	23 3	0 33	10 57	0 26	17 29	1 37	26 18	16 11	17 11	16 48	12 20		n.a.
W13	23 8	6 2	3 17	25 32	1 51	21 22	0 12	28 40	4 59	2 17	1 24	23 3	0 33	10 58	0 26	17 29	1 37	26 19	16 11	17 11	16 49	12 22		n.a.
T 14	23 13	1 13	4 8	25 35	1 53	21 37	0 10	28 44	5 3	2 15	1 24	23 3	0 33	10 59	0 26	17 28	1 37	26 19	16 12	17 12	16 50	12 24		n.a.
F 15	23 18	3n47	4 45	25 36	1 53	21 51	0 7	28 48	5 7	2 12	1 25	23 3	0 33	11 0	0 26	17 28	1 37	26 20	16 12	17 13	16 51	12 26		n.a.
S 16	23 22	8 41	5 4	25 34	1 53	22 5	0 5	28 53	5 11	2 10	1 25	23 3	0 32	11 1	0 26	17 28	1 37	26 20	16 12	17 14	16 52	12 28		n.a.
S 17	23 26	13 9	5 4	25 30	1 53	22 18	0 2	28 57	5 15	2 7	1 25	23 2	0 32	11 2	0 26	17 27	1 37	26 21	16 13	17 16	16 53	12 30		n.a.
M18	23 30	16 49	4 42	25 23	1 52	22 30	0n 0	29 1	5 19	2 5	1 25	23 2	0 32	11 3	0 26	17 27	1 37	26 21	16 13	17 18	16 54	12 32		n.a.
T 19	23 33	19 21	4 1	25 15	1 50	22 42	0 3	29 5	5 22	2 2	1 26	23 2	0 32	11 4	0 26	17 27	1 37	26 21	16 13	17 20	16 55	12 33		n.a.
W20	23 35	20 32	3 5	25 4	1 47	22 54	0 5	29 9	5 26	2 0	1 26	23 2	0 32	11 4	0 26	17 26	1 37	26 22	16 14	17 22	16 56	12 35		n.a.
T 21	23 38	20 18	1 57	24 52	1 45	23 4	0 7	29 12	5 29	1 58	1 26	23 2	0 32	11 5	0 26	17 26	1 37	26 22	16 14	17 23	16 57	12 37		n.a.
F 22	23 40	18 47	0 43	24 38	1 41	23 14	0 10	29 15	5 33	1 56	1 26	23 2	0 32	11 6	0 26	17 26	1 37	26 23	16 14	17 24	16 58	12 39		n.a.
S 23	23 41	16 13	0n30	24 22	1 37	23 23	0 12	29 19	5 36	1 54	1 27	23 2	0 32	11 7	0 27	17 26	1 37	26 23	16 15	17 24	16 59	12 41		n.a.
S 24	23 42	12 52	1 40	24 5	1 33	23 32	0 15	29 22	5 39	1 52	1 27	23 2	0 32	11 8	0 27	17 25	1 37	26 24	16 15	17 23	17 0	12 43		n.a.
M25	23 43	9 0	2 43	23 47	1 28	23 40	0 17	29 25	5 42	1 50	1 27	23 1	0 32	11 8	0 27	17 25	1 37	26 24	16 16	17 23	17 0	12 45		n.a.
T 26	23 43	4 51	3 36	23 27	1 23	23 47	0 19	29 27	5 44	1 48	1 28	23 1	0 32	11 9	0 27	17 25	1 37	26 25	16 16	17 23	17 1	12 47		n.a.
W27	23 43	0 36	4 18	23 6	1 17	23 54	0 22	29 30	5 47	1 46	1 28	23 1	0 31	11 10	0 27	17 25	1 37	26 25	16 16	17 23	17 2	12 49		n.a.
T 28	23 42	3s36	4 48	22 43	1 11	23 59	0 24	29 32	5 49	1 45	1 28	23 1	0 31	11 10	0 27	17 24	1 37	26 26	16 17	17 23	17 3	12 51		n.a.
F 29	23 41	7 38	5 6	22 20	1 4	24 5	0 26	29 34	5 52	1 43	1 28	23 1	0 31	11 11	0 27	17 24	1 37	26 26	16 17	17 24	17 4	12 52		n.a.
S 30	23n39	11s21	5n10	21n56	0n57	24n 9	0n28	29s36	5s54	1s41	1s29	23s 1	0n31	11n12	0s27	17s24	1n37	26s27	16s17	17n26	17n 5	12s54		n.a.

Julian Day Number = 1662769.5, Delta T = 03h24m49s
Ecliptic obliquity = 23°42'46, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'04, Lahiri = - 6°10'03 Julian Calendar 1 June 161 BCE == Greg. Calendar 29 May 161 BCE

The year -160 astronomical counting style corresponds to year 161 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 161 BCE
geocentric

JULY 161 BCE (-160) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 23 16	4♋50'25	26♏ 4	28♋28	28♊ 7	28°R10	29♓14	23°R 3	0♉ 4	23°R52	0°R45	11°R45	13♌ 1	19♏41	n.a.	S 1
M 2	18 27 13	5°47'46	8♐ 1	29°55	29°21	27♐54	29°18	22♐59	0° 6	23♏51	0♓44	11♌39	12°58	19°48	n.a.	M 2
T 3	18 31 10	6°45'07	20° 4	1♌20	0♋35	27°39	29°22	22°55	0° 8	23°50	0°43	11°33	12°55	19°55	n.a.	T 3
W 4	18 35 6	7°42'30	2♑16	2°43	1°48	27°24	29°26	22°51	0° 9	23°49	0°43	11°27	12°52	20° 2	n.a.	W 4
T 5	18 39 3	8°39'54	14°37	4° 4	3° 2	27° 9	29°30	22°46	0°11	23°48	0°42	11°23	12°48	20° 8	n.a.	T 5
F 6	18 42 59	9°37'19	27° 8	5°23	4°16	26°55	29°33	22°42	0°13	23°47	0°42	11°21	12°45	20°15	n.a.	F 6
S 7	18 46 56	10°34'45	9♒50	6°41	5°30	26°41	29°36	22°38	0°15	23°46	0°41	11°D20	12°42	20°22	n.a.	S 7
S 8	18 50 52	11°32'12	22°45	7°56	6°44	26°28	29°39	22°34	0°16	23°45	0°40	11°21	12°39	20°28	n.a.	S 8
M 9	18 54 49	12°29'41	5♓53	9° 9	7°58	26°15	29°42	22°30	0°18	23°44	0°39	11°22	12°36	20°35	n.a.	M 9
T 10	18 58 45	13°27'11	19°15	10°20	9°12	26° 2	29°45	22°26	0°19	23°43	0°39	11°23	12°33	20°42	n.a.	T 10
W11	19 2 42	14°24'42	2♈53	11°28	10°27	25°51	29°48	22°22	0°21	23°42	0°38	11°25	12°29	20°49	n.a.	W11
T 12	19 6 39	15°22'16	16°48	12°35	11°41	25°39	29°50	22°18	0°22	23°41	0°37	11°R25	12°26	20°55	n.a.	T 12
F 13	19 10 35	16°19'50	0♉58	13°39	12°55	25°29	29°52	22°14	0°24	23°40	0°36	11°24	12°23	21° 2	n.a.	F 13
S 14	19 14 32	17°17'27	15°22	14°40	14° 9	25°18	29°54	22°11	0°25	23°40	0°36	11°23	12°20	21° 9	n.a.	S 14
S 15	19 18 28	18°15'05	29°56	15°38	15°23	25° 9	29°56	22° 7	0°26	23°39	0°35	11°20	12°17	21°16	n.a.	S 15
M16	19 22 25	19°12'45	14♊36	16°34	16°37	25° 0	29°57	22° 3	0°27	23°38	0°34	11°17	12°14	21°22	n.a.	M16
T 17	19 26 21	20°10'27	29°16	17°27	17°52	24°52	29°59	21°59	0°29	23°37	0°33	11°14	12°10	21°29	n.a.	T 17
W18	19 30 18	21° 8'10	13♋47	18°17	19° 6	24°45	29°59	21°56	0°30	23°37	0°32	11°12	12° 7	21°36	n.a.	W18
T 19	19 34 14	22° 5'54	28° 4	19° 3	20°20	24°39	0♈ 1	21°52	0°31	23°36	0°31	11°11	12° 4	21°42	n.a.	T 19
F 20	19 38 11	23° 3'40	12♌ 2	19°46	21°34	24°33	0° 2	21°49	0°32	23°35	0°30	11°D10	12° 1	21°49	n.a.	F 20
S 21	19 42 8	24° 1'27	25°39	20°26	22°49	24°28	0° 2	21°45	0°33	23°35	0°29	11°11	11°58	21°56	n.a.	S 21
S 22	19 46 4	24°59'16	8♍52	21° 1	24° 3	24°24	0° 3	21°42	0°34	23°34	0°29	11°12	11°54	22° 3	n.a.	S 22
M23	19 50 1	25°57'06	21°43	21°32	25°17	24°21	0°R 3	21°39	0°35	23°34	0°28	11°13	11°51	22° 9	n.a.	M23
T 24	19 53 57	26°54'57	4♎15	21°59	26°32	24°18	0° 3	21°36	0°36	23°33	0°27	11°14	11°48	22°16	n.a.	T 24
W25	19 57 54	27°52'50	16°30	22°22	27°46	24°16	0° 3	21°32	0°37	23°33	0°26	11°15	11°45	22°23	n.a.	W25
T 26	20 1 50	28°50'44	28°33	22°39	29° 1	24°16	0° 2	21°29	0°37	23°32	0°25	11°R15	11°42	22°30	n.a.	T 26
F 27	20 5 47	29°48'40	10♏29	22°52	0♌15	24°D16	0° 2	21°26	0°38	23°32	0°24	11°15	11°39	22°36	n.a.	F 27
S 28	20 9 43	0♌46'37	22°22	22°59	1°29	24°16	0° 1	21°23	0°39	23°31	0°23	11°14	11°35	22°43	n.a.	S 28
S 29	20 13 40	1°44'35	4♐17	23°R 0	2°44	24°18	29♓59	21°21	0°39	23°31	0°22	11°13	11°32	22°50	n.a.	S 29
M30	20 17 37	2°42'35	16°17	22°55	3°58	24°20	29°58	21°18	0°40	23°31	0°21	11°12	11°29	22°56	n.a.	M30
T 31	20 21 33	3♌40'37	28♐26	22♌45	5♌13	24♐24	29♓57	21♐15	0♉40	23♏30	0♓20	11♌11	11♌26	23♏ 3	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	23n37	14s37	5n 1	21n31	0n50	24n13	0n31	29s37	5s55	1s40	1s29	23s 1	0n31	11n13	0s27	17s24	1n37	26s27	16s17	17n27	17n 6	12s56			n.a.
M 2	23 35	17 19	4 38	21 5	0 42	24 15	0 33	29 39	5 57	1 39	1 29	23 1	0 31	11 13	0 27	17 23	1 37	26 28	16 18	17 29	17 7	12 58			n.a.
T 3	23 32	19 18	4 3	20 38	0 34	24 18	0 35	29 40	5 59	1 37	1 30	23 0	0 31	11 14	0 27	17 23	1 37	26 28	16 18	17 31	17 8	13 0			n.a.
W 4	23 29	20 25	3 17	20 11	0 25	24 19	0 37	29 41	6 0	1 36	1 30	23 0	0 31	11 14	0 27	17 23	1 37	26 29	16 18	17 32	17 9	13 2			n.a.
T 5	23 26	20 34	2 21	19 44	0 17	24 20	0 39	29 42	6 1	1 35	1 30	23 0	0 31	11 15	0 27	17 23	1 37	26 29	16 19	17 34	17 10	13 4			n.a.
F 6	23 22	19 43	1 17	19 16	0 8	24 20	0 41	29 43	6 2	1 34	1 30	23 0	0 31	11 16	0 27	17 22	1 37	26 30	16 19	17 34	17 10	13 6			n.a.
S 7	23 17	17 51	0 8	18 48	0s 1	24 19	0 43	29 43	6 3	1 33	1 31	23 0	0 30	11 16	0 27	17 22	1 36	26 30	16 19	17 35	17 11	13 8			n.a.
S 8	23 12	15 4	1s 2	18 19	0 11	24 18	0 45	29 43	6 4	1 32	1 31	23 0	0 30	11 17	0 27	17 22	1 36	26 31	16 20	17 34	17 12	13 9			n.a.
M 9	23 7	11 29	2 10	17 50	0 21	24 15	0 47	29 44	6 4	1 31	1 31	23 0	0 30	11 17	0 27	17 22	1 36	26 31	16 20	17 34	17 13	13 11			n.a.
T 10	23 1	7 15	3 13	17 22	0 31	24 12	0 49	29 43	6 5	1 30	1 32	23 0	0 30	11 18	0 27	17 22	1 36	26 32	16 20	17 34	17 14	13 13			n.a.
W11	22 55	2 36	4 6	16 53	0 41	24 9	0 51	29 43	6 5	1 29	1 32	22 59	0 30	11 18	0 27	17 22	1 36	26 33	16 21	17 33	17 15	13 15			n.a.
T 12	22 49	2n17	4 46	16 24	0 51	24 4	0 53	29 43	6 5	1 28	1 32	22 59	0 30	11 19	0 27	17 21	1 36	26 33	16 21	17 33	17 16	13 17			n.a.
F 13	22 42	7 7	5 9	15 56	1 2	23 59	0 55	29 42	6 5	1 28	1 32	22 59	0 30	11 19	0 27	17 21	1 36	26 34	16 21	17 33	17 17	13 19			n.a.
S 14	22 35	11 38	5 13	15 28	1 12	23 53	0 57	29 42	6 4	1 27	1 33	22 59	0 30	11 20	0 27	17 21	1 36	26 34	16 21	17 34	17 18	13 21			n.a.
S 15	22 27	15 31	4 58	15 0	1 23	23 47	0 58	29 41	6 4	1 27	1 33	22 59	0 30	11 20	0 27	17 21	1 36	26 35	16 22	17 35	17 19	13 23			n.a.
M16	22 19	18 28	4 23	14 33	1 34	23 39	1 0	29 40	6 3	1 27	1 33	22 59	0 29	11 21	0 27	17 21	1 36	26 35	16 22	17 35	17 20	13 24			n.a.
T 17	22 11	20 12	3 31	14 7	1 45	23 31	1 2	29 39	6 2	1 26	1 34	22 59	0 29	11 21	0 27	17 21	1 36	26 36	16 22	17 36	17 20	13 26			n.a.
W18	22 2	20 35	2 25	13 41	1 56	23 23	1 3	29 38	6 2	1 26	1 34	22 59	0 29	11 21	0 27	17 21	1 36	26 36	16 22	17 37	17 21	13 28			n.a.
T 19	21 53	19 37	1 12	13 16	2 7	23 13	1 5	29 36	6 1	1 26	1 34	22 59	0 29	11 22	0 27	17 20	1 36	26 37	16 23	17 37	17 22	13 30			n.a.
F 20	21 43	17 27	0n 5	12 52	2 18	23 3	1 6	29 35	5 59	1 26	1 35	22 58	0 29	11 22	0 27	17 20	1 36	26 38	16 23	17 37	17 23	13 32			n.a.
S 21	21 33	14 21	1 19	12 29	2 30	22 52	1 8	29 34	5 58	1 26	1 35	22 58	0 29	11 23	0 27	17 20	1 36	26 38	16 23	17 37	17 24	13 34			n.a.
S 22	21 23	10 36	2 27	12 7	2 40	22 41	1 9	29 32	5 57	1 26	1 35	22 58	0 29	11 23	0 27	17 20	1 36	26 39	16 23	17 37	17 25	13 36			n.a.
M23	21 12	6 28	3 26	11 47	2 51	22 29	1 10	29 30	5 55	1 26	1 35	22 58	0 29	11 23	0 27	17 20	1 36	26 39	16 24	17 37	17 26	13 37			n.a.
T 24	21 1	2 9	4 13	11 28	3 2	22 16	1 12	29 29	5 54	1 27	1 36	22 58	0 29	11 23	0 27	17 20	1 36	26 40	16 24	17 36	17 27	13 39			n.a.
W25	20 49	2s 8	4 47	11 11	3 12	22 2	1 13	29 27	5 52	1 27	1 36	22 58	0 28	11 24	0 27	17 20	1 36	26 40	16 24	17 36	17 28	13 41			n.a.
T 26	20 38	6 17	5 9	10 56	3 22	21 48	1 14	29 25	5 50	1 27	1 36	22 58	0 28	11 24	0 27	17 20	1 35	26 41	16 24	17 36	17 28	13 43			n.a.
F 27	20 25	10 8	5 16	10 43	3 32	21 33	1 15	29 23	5 48	1 28	1 37	22 58	0 28	11 24	0 27	17 20	1 35	26 42	16 24	17 36	17 29	13 45			n.a.
S 28	20 13	13 34	5 10	10 32	3 41	21 18	1 16	29 21	5 46	1 28	1 37	22 58	0 28	11 24	0 27	17 20	1 35	26 42	16 25	17 36	17 30	13 47			n.a.
S 29	20 0	16 28	4 51	10 23	3 50	21 2	1 17	29 19	5 44	1 29	1 37	22 58	0 28	11 25	0 27	17 20	1 35	26 43	16 25	17 36	17 31	13 48			n.a.
M30	19 47	18 42	4 19	10 17	3 58	20 45	1 18	29 17	5 42	1 30	1 37	22 58	0 28	11 25	0 27	17 20	1 35	26 43	16 25	17 37	17 32	13 50			n.a.
T 31	19n33	20s 7	3n35	10n14	4s 5	20n28	1n19	29s15	5s40	1s31	1s38	22s58	0n28	11n25	0s27	17s20	1n35	26s44	16s25	17n37	17n33	13s52			n.a.

Julian Day Number = 1662799.5, Delta T = 03h24m48s
Ecliptic obliquity = 23°42'46, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°17'00, Lahiri = - 6°09'59 Julian Calendar 1 July 161 BCE == Greg. Calendar 28 June 161 BCE

The year -160 astronomical counting style corresponds to year 161 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 161 BCE
geocentric

AUGUST 161 BCE (-160) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 25 30	4♌38'40	10♉47	22°R28	6♌27	24♐28	29°R55	21°R13	0♉41	23°R30	0°R18	11°R10	11♌23	23♏10	n.a.	W 1
T 2	20 29 26	5°36'44	23°21	22♌ 5	7°42	24°33	29♓54	21♐10	0°41	23♏30	0♓17	11♌10	11°20	23°17	n.a.	T 2
F 3	20 33 23	6°34'51	6♒ 9	21°36	8°56	24°38	29°52	21° 8	0°42	23°30	0°16	11°D 9	11°16	23°23	n.a.	F 3
S 4	20 37 19	7°32'59	19°12	21° 1	10°11	24°45	29°49	21° 5	0°42	23°29	0°15	11° 9	11°13	23°30	n.a.	S 4
S 5	20 41 16	8°31'09	2♓30	20°20	11°26	24°52	29°47	21° 3	0°42	23°29	0°14	11° 9	11°10	23°37	n.a.	S 5
M 6	20 45 12	9°29'22	16° 1	19°34	12°40	25° 0	29°44	21° 1	0°42	23°29	0°13	11°10	11° 7	23°43	n.a.	M 6
T 7	20 49 9	10°27'36	29°45	18°43	13°55	25° 8	29°42	20°59	0°43	23°29	0°12	11°10	11° 4	23°50	n.a.	T 7
W 8	20 53 6	11°25'52	13♈39	17°48	15° 9	25°18	29°39	20°57	0°43	23°29	0°11	11°R10	11° 0	23°57	n.a.	W 8
T 9	20 57 2	12°24'10	27°42	16°51	16°24	25°28	29°36	20°55	0°43	23°D29	0°10	11°10	10°57	24° 4	n.a.	T 9
F 10	21 0 59	13°22'31	11♉51	15°51	17°39	25°39	29°32	20°53	0°R43	23°29	0° 9	11°D10	10°54	24°10	n.a.	F 10
S 11	21 4 55	14°20'54	26° 6	14°50	18°53	25°50	29°29	20°51	0°43	23°29	0° 7	11°10	10°51	24°17	n.a.	S 11
S 12	21 8 52	15°19'20	10♊22	13°50	20° 8	26° 3	29°25	20°49	0°43	23°29	0° 6	11°10	10°48	24°24	n.a.	S 12
M13	21 12 48	16°17'47	24°37	12°53	21°23	26°16	29°21	20°48	0°42	23°29	0° 5	11°10	10°45	24°30	n.a.	M13
T 14	21 16 45	17°16'17	8♋48	11°58	22°37	26°29	29°17	20°46	0°42	23°30	0° 4	11°11	10°41	24°37	n.a.	T 14
W15	21 20 41	18°14'49	22°52	11° 9	23°52	26°44	29°13	20°45	0°42	23°30	0° 3	11°11	10°38	24°44	n.a.	W15
T 16	21 24 38	19°13'23	6♌45	10°26	25° 7	26°59	29° 8	20°44	0°42	23°30	0° 2	11°R12	10°35	24°51	n.a.	T 16
F 17	21 28 35	20°12'00	20°24	9°49	26°22	27°15	29° 4	20°42	0°41	23°30	0° 0	11°12	10°32	24°57	n.a.	F 17
S 18	21 32 31	21°10'38	3♍46	9°21	27°36	27°31	28°59	20°41	0°41	23°31	29♒59	11°11	10°29	25° 4	n.a.	S 18
S 19	21 36 28	22° 9'18	16°51	9° 2	28°51	27°48	28°54	20°40	0°41	23°31	29°58	11°10	10°26	25°11	n.a.	S 19
M20	21 40 24	23° 8'00	29°38	8°52	0♍ 6	28° 5	28°49	20°39	0°40	23°31	29°57	11° 8	10°22	25°18	n.a.	M20
T 21	21 44 21	24° 6'44	12♎ 9	8°D52	1°21	28°24	28°43	20°39	0°39	23°32	29°56	11° 7	10°19	25°24	n.a.	T 21
W22	21 48 17	25° 5'30	24°24	9° 1	2°35	28°42	28°38	20°38	0°39	23°32	29°54	11° 5	10°16	25°31	n.a.	W22
T 23	21 52 14	26° 4'18	6♏28	9°20	3°50	29° 2	28°32	20°37	0°38	23°32	29°53	11° 3	10°13	25°38	n.a.	T 23
F 24	21 56 10	27° 3'07	18°24	9°49	5° 5	29°22	28°26	20°37	0°38	23°33	29°52	11° 2	10°10	25°44	n.a.	F 24
S 25	22 0 7	28° 1'59	0♐17	10°26	6°20	29°42	28°20	20°36	0°37	23°33	29°51	11°D 2	10° 6	25°51	n.a.	S 25
S 26	22 4 3	29° 0'52	12°11	11°13	7°35	0♑ 3	28°14	20°36	0°36	23°34	29°50	11° 3	10° 3	25°58	n.a.	S 26
M27	22 8 0	29°59'47	24°11	12° 7	8°50	0°25	28° 8	20°36	0°35	23°35	29°48	11° 4	10° 0	26° 5	n.a.	M27
T 28	22 11 57	0♍58'44	6♑22	13° 9	10° 4	0°47	28° 2	20°35	0°34	23°35	29°47	11° 5	9°57	26°11	n.a.	T 28
W29	22 15 53	1°57'43	18°47	14°18	11°19	1°10	27°55	20°D35	0°33	23°36	29°46	11° 7	9°54	26°18	n.a.	W29
T 30	22 19 50	2°56'44	1♒31	15°33	12°34	1°33	27°49	20°36	0°32	23°37	29°45	11° 8	9°51	26°25	n.a.	T 30
F 31	22 23 46	3♍55'47	14♒34	16♌53	13♍49	1♑56	27♓42	20♐36	0♉31	23♏37	29♒44	11°R 8	9♌47	26♏31	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	19n19	20s36	2n41	10n14	4s11	20n10	1n20	29s13	5s38	1s32	1s38	22s58	0n28	11n25	0s27	17s20	1n35	26s44	16s25	17n37	17n34	13s54			n.a.
T 2	19 5	20 4	1 37	10 16	4 16	19 51	1 21	29 11	5 36	1 33	1 38	22 58	0 27	11 25	0 27	17 20	1 35	26 45	16 26	17 37	17 35	13 56			n.a.
F 3	18 50	18 30	0 28	10 22	4 19	19 32	1 21	29 9	5 33	1 34	1 39	22 57	0 27	11 25	0 27	17 20	1 35	26 46	16 26	17 38	17 36	13 58			n.a.
S 4	18 36	15 56	0s45	10 31	4 22	19 12	1 22	29 7	5 31	1 35	1 39	22 57	0 27	11 25	0 27	17 20	1 35	26 46	16 26	17 38	17 36	14 0			n.a.
S 5	18 20	12 30	1 56	10 44	4 22	18 52	1 23	29 5	5 28	1 36	1 39	22 57	0 27	11 26	0 27	17 20	1 35	26 47	16 26	17 37	17 37	14 1			n.a.
M 6	18 5	8 21	3 2	10 59	4 21	18 32	1 23	29 3	5 26	1 37	1 39	22 57	0 27	11 26	0 27	17 20	1 35	26 47	16 26	17 37	17 38	14 3			n.a.
T 7	17 49	3 44	3 58	11 18	4 18	18 10	1 24	29 0	5 23	1 39	1 40	22 57	0 27	11 26	0 27	17 20	1 35	26 48	16 26	17 37	17 39	14 5			n.a.
W 8	17 33	1n 8	4 41	11 39	4 13	17 49	1 24	28 58	5 21	1 40	1 40	22 57	0 27	11 26	0 27	17 20	1 35	26 48	16 27	17 37	17 40	14 7			n.a.
T 9	17 16	5 59	5 8	12 3	4 7	17 26	1 24	28 56	5 18	1 42	1 40	22 57	0 27	11 26	0 27	17 20	1 35	26 49	16 27	17 37	17 41	14 9			n.a.
F 10	17 0	10 32	5 17	12 29	3 58	17 4	1 24	28 54	5 15	1 43	1 40	22 57	0 26	11 26	0 27	17 20	1 35	26 49	16 27	17 37	17 42	14 10			n.a.
S 11	16 43	14 32	5 6	12 57	3 47	16 40	1 25	28 51	5 13	1 45	1 41	22 57	0 26	11 26	0 27	17 20	1 35	26 50	16 27	17 37	17 43	14 12			n.a.
S 12	16 26	17 41	4 37	13 26	3 34	16 17	1 25	28 49	5 10	1 47	1 41	22 57	0 26	11 26	0 27	17 20	1 34	26 50	16 27	17 37	17 43	14 14			n.a.
M13	16 8	19 46	3 50	13 56	3 20	15 52	1 25	28 47	5 7	1 48	1 41	22 57	0 26	11 26	0 27	17 20	1 34	26 51	16 27	17 37	17 44	14 16			n.a.
T 14	15 50	20 35	2 50	14 27	3 4	15 28	1 25	28 44	5 4	1 50	1 41	22 57	0 26	11 25	0 27	17 20	1 34	26 52	16 27	17 37	17 45	14 18			n.a.
W15	15 32	20 7	1 40	14 57	2 47	15 3	1 25	28 42	5 2	1 52	1 42	22 57	0 26	11 25	0 27	17 20	1 34	26 52	16 27	17 37	17 46	14 20			n.a.
T 16	15 14	18 24	0 25	15 26	2 29	14 37	1 25	28 39	4 59	1 54	1 42	22 57	0 26	11 25	0 27	17 20	1 34	26 53	16 27	17 37	17 47	14 21			n.a.
F 17	14 55	15 39	0n51	15 54	2 10	14 12	1 24	28 37	4 56	1 56	1 42	22 57	0 26	11 25	0 27	17 21	1 34	26 53	16 28	17 37	17 48	14 23			n.a.
S 18	14 36	12 7	2 2	16 20	1 51	13 45	1 24	28 34	4 53	1 58	1 42	22 57	0 25	11 25	0 27	17 21	1 34	26 54	16 28	17 37	17 49	14 25			n.a.
S 19	14 17	8 5	3 5	16 44	1 32	13 19	1 24	28 32	4 50	2 1	1 43	22 58	0 25	11 25	0 27	17 21	1 34	26 54	16 28	17 37	17 50	14 27			n.a.
M20	13 58	3 46	3 57	17 5	1 13	12 52	1 23	28 29	4 47	2 3	1 43	22 58	0 25	11 25	0 27	17 21	1 34	26 55	16 28	17 38	17 50	14 29			n.a.
T 21	13 38	0s37	4 37	17 23	0 54	12 25	1 23	28 27	4 44	2 5	1 43	22 58	0 25	11 24	0 27	17 21	1 34	26 55	16 28	17 38	17 51	14 30			n.a.
W22	13 18	4 53	5 3	17 38	0 35	11 57	1 22	28 24	4 42	2 8	1 43	22 58	0 25	11 24	0 27	17 21	1 34	26 56	16 28	17 39	17 52	14 32			n.a.
T 23	12 58	8 53	5 15	17 50	0 18	11 29	1 22	28 21	4 39	2 10	1 43	22 58	0 25	11 24	0 27	17 22	1 34	26 56	16 28	17 39	17 53	14 34			n.a.
F 24	12 38	12 29	5 13	17 59	0 1	11 1	1 21	28 19	4 36	2 12	1 44	22 58	0 25	11 24	0 27	17 22	1 34	26 57	16 28	17 39	17 54	14 36			n.a.
S 25	12 18	15 35	4 58	18 4	0n15	10 32	1 20	28 16	4 33	2 15	1 44	22 58	0 25	11 23	0 27	17 22	1 34	26 57	16 28	17 40	17 55	14 38			n.a.
S 26	11 57	18 3	4 30	18 5	0 29	10 3	1 20	28 13	4 30	2 18	1 44	22 58	0 24	11 23	0 27	17 22	1 34	26 58	16 28	17 39	17 56	14 39			n.a.
M27	11 36	19 45	3 51	18 2	0 43	9 34	1 19	28 10	4 27	2 20	1 44	22 58	0 24	11 23	0 27	17 22	1 34	26 58	16 28	17 39	17 57	14 41			n.a.
T 28	11 15	20 34	3 0	17 56	0 55	9 5	1 18	28 7	4 24	2 23	1 44	22 58	0 24	11 22	0 27	17 22	1 33	26 58	16 28	17 39	17 57	14 43			n.a.
W29	10 54	20 24	2 0	17 47	1 6	8 35	1 17	28 4	4 21	2 26	1 44	22 58	0 24	11 22	0 27	17 23	1 33	26 59	16 28	17 38	17 58	14 45			n.a.
T 30	10 32	19 12	0 53	17 34	1 16	8 5	1 16	28 1	4 19	2 29	1 45	22 59	0 24	11 22	0 27	17 23	1 33	26 59	16 28	17 38	17 59	14 47			n.a.
F 31	10n11	16s57	0s19	17n18	1n25	7n35	1n15	27s58	4s16	2s31	1s45	22s59	0n24	11n21	0s28	17s23	1n33	27s 0	16s28	17n38	18n 0	14s48			n.a.

Julian Day Number = 1662830.5, Delta T = 03h24m47s
Ecliptic obliquity = 23°42'46, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°16'56, Lahiri = - 6°09'55 Julian Calendar 1 Aug. 161 BCE == Greg. Calendar 29 July 161 BCE

The year -160 astronomical counting style corresponds to year 161 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 161 BCE
geocentric

SEPTEMBER 161 BCE (-160) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 27 43	4♍54'52	27♒57	18♌19	15♍ 4	2♑20	27°R35	20♐36	0°R30	23♏38	29°R42	11°R 7	9♌44	26♏38	n.a.	S 1
S 2	22 31 39	5°53'59	11♓39	19°48	16°19	2°45	27♓28	20°36	0♉29	23°39	29♒41	11♌ 5	9°41	26°45	n.a.	S 2
M 3	22 35 36	6°53'08	25°39	21°21	17°33	3°10	27°21	20°37	0°28	23°40	29°40	11° 2	9°38	26°52	n.a.	M 3
T 4	22 39 32	7°52'20	9♈51	22°57	18°48	3°35	27°14	20°37	0°27	23°40	29°39	10°58	9°35	26°58	n.a.	T 4
W 5	22 43 29	8°51'33	24°10	24°35	20° 3	4° 1	27° 7	20°38	0°25	23°41	29°38	10°54	9°31	27° 5	n.a.	W 5
T 6	22 47 26	9°50'50	8♉33	26°16	21°18	4°27	26°59	20°39	0°24	23°42	29°36	10°51	9°28	27°12	n.a.	T 6
F 7	22 51 22	10°50'08	22°54	27°58	22°33	4°54	26°52	20°40	0°23	23°43	29°35	10°48	9°25	27°18	n.a.	F 7
S 8	22 55 19	11°49'29	7♊ 9	29°41	23°48	5°20	26°44	20°41	0°21	23°44	29°34	10°D47	9°22	27°25	n.a.	S 8
S 9	22 59 15	12°48'53	21°16	1♍25	25° 3	5°48	26°36	20°42	0°20	23°45	29°33	10°47	9°19	27°32	n.a.	S 9
M10	23 3 12	13°48'19	5♋14	3° 9	26°17	6°16	26°29	20°43	0°18	23°46	29°32	10°48	9°16	27°39	n.a.	M10
T 11	23 7 8	14°47'47	19° 2	4°54	27°32	6°44	26°21	20°44	0°17	23°47	29°31	10°50	9°12	27°45	n.a.	T 11
W12	23 11 5	15°47'18	2♌40	6°40	28°47	7°12	26°13	20°45	0°15	23°48	29°29	10°51	9° 9	27°52	n.a.	W12
T 13	23 15 1	16°46'51	16° 6	8°25	0♎ 2	7°41	26° 5	20°47	0°14	23°49	29°28	10°R51	9° 6	27°59	n.a.	T 13
F 14	23 18 58	17°46'27	29°20	10°10	1°17	8°10	25°57	20°48	0°12	23°51	29°27	10°50	9° 3	28° 5	n.a.	F 14
S 15	23 22 54	18°46'04	12♍23	11°55	2°32	8°39	25°49	20°50	0°11	23°52	29°26	10°46	9° 0	28°12	n.a.	S 15
S 16	23 26 51	19°45'44	25°12	13°39	3°47	9° 9	25°41	20°52	0° 9	23°53	29°25	10°41	8°57	28°19	n.a.	S 16
M17	23 30 48	20°45'26	7♎49	15°23	5° 2	9°39	25°33	20°54	0° 7	23°54	29°24	10°34	8°53	28°26	n.a.	M17
T 18	23 34 44	21°45'10	20°12	17° 7	6°17	10°10	25°25	20°56	0° 5	23°55	29°23	10°27	8°50	28°32	n.a.	T 18
W19	23 38 41	22°44'55	2♏24	18°50	7°32	10°41	25°17	20°58	0° 3	23°57	29°22	10°19	8°47	28°39	n.a.	W19
T 20	23 42 37	23°44'43	14°25	20°33	8°46	11°12	25° 9	21° 0	0° 2	23°58	29°20	10°12	8°44	28°46	n.a.	T 20
F 21	23 46 34	24°44'33	26°20	22°15	10° 1	11°43	25° 1	21° 2	29♈59	23°59	29°19	10° 6	8°41	28°52	n.a.	F 21
S 22	23 50 30	25°44'24	8♐11	23°57	11°16	12°15	24°52	21° 4	29°58	24° 1	29°18	10° 2	8°37	28°59	n.a.	S 22
S 23	23 54 27	26°44'17	20° 3	25°38	12°31	12°47	24°44	21° 7	29°56	24° 2	29°17	10° 0	8°34	29° 6	n.a.	S 23
M24	23 58 23	27°44'13	2♑ 0	27°18	13°46	13°19	24°36	21° 9	29°54	24° 4	29°16	10°D 0	8°31	29°13	n.a.	M24
T 25	0 2 20	28°44'10	14° 9	28°58	15° 1	13°51	24°28	21°12	29°52	24° 5	29°15	10° 1	8°28	29°19	n.a.	T 25
W26	0 6 17	29°44'08	26°33	0♎37	16°16	14°24	24°20	21°14	29°50	24° 6	29°14	10° 2	8°25	29°26	n.a.	W26
T 27	0 10 13	0♎44'09	9♒17	2°16	17°31	14°57	24°12	21°17	29°48	24° 8	29°13	10°R 3	8°22	29°33	n.a.	T 27
F 28	0 14 10	1°44'11	22°26	3°54	18°45	15°30	24° 4	21°20	29°46	24°10	29°12	10° 2	8°18	29°39	n.a.	F 28
S 29	0 18 6	2°44'15	6♓ 1	5°32	20° 0	16° 3	23°56	21°23	29°43	24°11	29°11	9°59	8°15	29°46	n.a.	S 29
S 30	0 22 3	3♎44'20	20♓ 1	7♎ 9	21♎15	16♑37	23♓48	21♐26	29♈41	24♏13	29♒10	9♌54	8♌12	29♏53	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n49	13s45	1s31	16n58	1n32	7n 5	1n14	27s54	4s13	2s34	1s45	22s59	0n24	11n21	0s28	17s23	1n33	27s 0	16s28	17n38	18n 1	14s50		n.a.
S 2	9 27	9 44	2 40	16 36	1 38	6 34	1 13	27 51	4 10	2 37	1 45	22 59	0 24	11 21	0 28	17 24	1 33	27 1	16 28	17 39	18 2	14 52		n.a.
M 3	9 5	5 7	3 40	16 11	1 43	6 4	1 11	27 48	4 7	2 40	1 45	22 59	0 24	11 20	0 28	17 24	1 33	27 1	16 28	17 40	18 3	14 54		n.a.
T 4	8 43	0 10	4 28	15 43	1 48	5 33	1 10	27 44	4 4	2 43	1 45	22 59	0 23	11 20	0 28	17 24	1 33	27 2	16 28	17 41	18 3	14 55		n.a.
W 5	8 20	4n50	5 0	15 13	1 51	5 2	1 9	27 41	4 2	2 46	1 45	22 59	0 23	11 19	0 28	17 24	1 33	27 2	16 28	17 42	18 4	14 57		n.a.
T 6	7 58	9 35	5 12	14 40	1 53	4 31	1 7	27 37	3 59	2 49	1 45	23 0	0 23	11 19	0 28	17 25	1 33	27 2	16 28	17 43	18 5	14 59		n.a.
F 7	7 35	13 46	5 6	14 6	1 54	4 0	1 6	27 33	3 56	2 52	1 46	23 0	0 23	11 18	0 28	17 25	1 33	27 3	16 28	17 43	18 6	15 1		n.a.
S 8	7 12	17 9	4 40	13 30	1 55	3 28	1 4	27 29	3 53	2 55	1 46	23 0	0 23	11 18	0 28	17 25	1 33	27 3	16 28	17 44	18 7	15 3		n.a.
S 9	6 49	19 28	3 58	12 53	1 55	2 57	1 3	27 25	3 50	2 59	1 46	23 0	0 23	11 17	0 28	17 26	1 33	27 3	16 28	17 44	18 8	15 4		n.a.
M10	6 26	20 34	3 2	12 14	1 54	2 25	1 1	27 21	3 48	3 2	1 46	23 0	0 23	11 17	0 28	17 26	1 33	27 4	16 28	17 43	18 9	15 6		n.a.
T 11	6 3	20 26	1 56	11 34	1 53	1 54	0 59	27 17	3 45	3 5	1 46	23 1	0 23	11 16	0 28	17 26	1 33	27 4	16 27	17 43	18 9	15 8		n.a.
W12	5 40	19 4	0 45	10 53	1 51	1 22	0 57	27 13	3 42	3 8	1 46	23 1	0 22	11 16	0 28	17 27	1 33	27 5	16 27	17 43	18 10	15 10		n.a.
T 13	5 17	16 39	0n29	10 11	1 48	0 50	0 56	27 8	3 39	3 11	1 46	23 1	0 22	11 15	0 28	17 27	1 33	27 5	16 27	17 43	18 11	15 11		n.a.
F 14	4 53	13 23	1 39	9 28	1 45	0 18	0 54	27 4	3 37	3 15	1 46	23 1	0 22	11 14	0 28	17 27	1 33	27 5	16 27	17 43	18 12	15 13		n.a.
S 15	4 30	9 30	2 43	8 44	1 42	0s14	0 52	26 59	3 34	3 18	1 46	23 2	0 22	11 14	0 28	17 28	1 32	27 6	16 27	17 44	18 13	15 15		n.a.
S 16	4 6	5 15	3 37	8 0	1 38	0 45	0 50	26 54	3 31	3 21	1 46	23 2	0 22	11 13	0 28	17 28	1 32	27 6	16 27	17 45	18 14	15 17		n.a.
M17	3 42	0 51	4 20	7 15	1 33	1 17	0 48	26 49	3 29	3 24	1 46	23 2	0 22	11 13	0 28	17 28	1 32	27 6	16 27	17 47	18 14	15 18		n.a.
T 18	3 18	3s31	4 50	6 30	1 29	1 49	0 46	26 44	3 26	3 28	1 46	23 2	0 22	11 12	0 28	17 29	1 32	27 6	16 27	17 49	18 15	15 20		n.a.
W19	2 55	7 40	5 6	5 45	1 24	2 21	0 44	26 39	3 23	3 31	1 46	23 3	0 22	11 11	0 28	17 29	1 32	27 7	16 27	17 51	18 16	15 22		n.a.
T 20	2 31	11 27	5 8	5 0	1 19	2 53	0 42	26 34	3 21	3 34	1 46	23 3	0 21	11 11	0 28	17 29	1 32	27 7	16 26	17 53	18 17	15 24		n.a.
F 21	2 7	14 45	4 56	4 14	1 14	3 24	0 40	26 29	3 18	3 37	1 46	23 3	0 21	11 10	0 28	17 30	1 32	27 7	16 26	17 55	18 18	15 25		n.a.
S 22	1 43	17 26	4 32	3 28	1 8	3 56	0 37	26 23	3 16	3 41	1 46	23 3	0 21	11 9	0 28	17 30	1 32	27 8	16 26	17 56	18 19	15 27		n.a.
S 23	1 19	19 24	3 57	2 43	1 2	4 28	0 35	26 18	3 13	3 44	1 46	23 4	0 21	11 9	0 28	17 31	1 32	27 8	16 26	17 57	18 20	15 29		n.a.
M24	0 55	20 31	3 10	1 57	0 56	4 59	0 33	26 12	3 10	3 47	1 46	23 4	0 21	11 8	0 28	17 31	1 32	27 8	16 26	17 57	18 20	15 31		n.a.
T 25	0 31	20 43	2 15	1 11	0 50	5 31	0 31	26 6	3 8	3 50	1 46	23 4	0 21	11 7	0 28	17 31	1 32	27 8	16 26	17 56	18 21	15 32		n.a.
W26	0 6	19 54	1 12	0 25	0 44	6 2	0 28	26 0	3 5	3 53	1 46	23 4	0 21	11 6	0 28	17 32	1 32	27 8	16 25	17 56	18 22	15 34		n.a.
T 27	0s18	18 4	0 4	0s20	0 38	6 33	0 26	25 54	3 3	3 57	1 46	23 5	0 21	11 6	0 28	17 32	1 32	27 9	16 25	17 56	18 23	15 36		n.a.
F 28	0 42	15 14	1s 6	1 5	0 32	7 4	0 24	25 47	3 0	4 0	1 46	23 5	0 21	11 5	0 28	17 33	1 32	27 9	16 25	17 56	18 24	15 38		n.a.
S 29	1 6	11 30	2 15	1 50	0 25	7 35	0 21	25 41	2 58	4 3	1 46	23 5	0 20	11 4	0 28	17 33	1 32	27 9	16 25	17 57	18 25	15 39		n.a.
S 30	1s30	7s 1	3s17	2s35	0n19	8s 5	0n19	25s34	2s55	4s 6	1s45	23s 6	0n20	11n 3	0s28	17s34	1n32	27s 9	16s25	17n58	18n25	15s41		n.a.

Julian Day Number = 1662861.5, Delta T = 03h24m46s
Ecliptic obliquity = 23°42'47, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°16'51, Lahiri = - 6°09'51 Julian Calendar 1 Sept. 161 BCE == Greg. Calendar 29 Aug. 161 BCE

The year -160 astronomical counting style corresponds to year 161 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 161 BCE
geocentric

OCTOBER 161 BCE (-160) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 25 59	4♎44'28	4♈24	8♎46	22♎30	17♉11	23°R40	21♐29	29°R39	24♏14	29°R 9	9°R47	8♌ 9	29♏59	n.a.	M 1
T 2	0 29 56	5°44'37	19° 4	10°22	23°45	17°45	23♓33	21°33	29♈37	24°16	29♒ 8	9♌38	8° 6	0♐ 6	n.a.	T 2
W 3	0 33 52	6°44'48	3♉52	11°58	25° 0	18°19	23°25	21°36	29°35	24°18	29° 7	9°29	8° 2	0°13	n.a.	W 3
T 4	0 37 49	7°45'02	18°42	13°33	26°14	18°53	23°17	21°39	29°32	24°19	29° 7	9°20	7°59	0°20	n.a.	T 4
F 5	0 41 45	8°45'18	3♊24	15° 8	27°29	19°28	23°10	21°43	29°30	24°21	29° 6	9°14	7°56	0°26	n.a.	F 5
S 6	0 45 42	9°45'36	17°53	16°43	28°44	20° 3	23° 2	21°46	29°28	24°23	29° 5	9° 9	7°53	0°33	n.a.	S 6
S 7	0 49 39	10°45'56	2♋ 5	18°17	29°59	20°38	22°55	21°50	29°25	24°24	29° 4	9° 7	7°50	0°40	n.a.	S 7
M 8	0 53 35	11°46'18	15°58	19°50	1♏14	21°13	22°47	21°54	29°23	24°26	29° 3	9°D 7	7°47	0°47	n.a.	M 8
T 9	0 57 32	12°46'42	29°34	21°24	2°28	21°48	22°40	21°58	29°21	24°28	29° 2	9° 8	7°43	0°53	n.a.	T 9
W10	1 1 28	13°47'08	12♌53	22°57	3°43	22°23	22°33	22° 2	29°18	24°30	29° 1	9°R 8	7°40	1° 0	n.a.	W10
T 11	1 5 25	14°47'36	25°59	24°29	4°58	22°59	22°26	22° 5	29°16	24°32	29° 1	9° 6	7°37	1° 7	n.a.	T 11
F 12	1 9 21	15°48'06	8♍51	26° 2	6°13	23°35	22°19	22°10	29°13	24°33	29° 0	9° 3	7°34	1°13	n.a.	F 12
S 13	1 13 18	16°48'38	21°33	27°34	7°28	24°11	22°13	22°14	29°11	24°35	28°59	8°56	7°31	1°20	n.a.	S 13
S 14	1 17 14	17°49'12	4♎ 5	29° 5	8°42	24°47	22° 6	22°18	29° 9	24°37	28°58	8°46	7°28	1°27	n.a.	S 14
M15	1 21 11	18°49'48	16°27	0♏37	9°57	25°23	22° 0	22°22	29° 6	24°39	28°58	8°34	7°24	1°34	n.a.	M15
T 16	1 25 8	19°50'25	28°40	2° 8	11°12	26° 0	21°53	22°27	29° 4	24°41	28°57	8°21	7°21	1°40	n.a.	T 16
W17	1 29 4	20°51'04	10♏45	3°39	12°27	26°36	21°47	22°31	29° 1	24°43	28°56	8° 7	7°18	1°47	n.a.	W17
T 18	1 33 1	21°51'44	22°42	5° 9	13°41	27°13	21°41	22°36	28°59	24°45	28°56	7°54	7°15	1°54	n.a.	T 18
F 19	1 36 57	22°52'26	4♐35	6°39	14°56	27°50	21°35	22°40	28°56	24°47	28°55	7°43	7°12	2° 0	n.a.	F 19
S 20	1 40 54	23°53'09	16°24	8° 9	16°11	28°27	21°29	22°45	28°54	24°49	28°54	7°34	7° 8	2° 7	n.a.	S 20
S 21	1 44 50	24°53'53	28°13	9°38	17°26	29° 4	21°24	22°50	28°51	24°51	28°54	7°29	7° 5	2°14	n.a.	S 21
M22	1 48 47	25°54'39	10♉ 8	11° 7	18°40	29°41	21°18	22°55	28°49	24°53	28°53	7°26	7° 2	2°21	n.a.	M22
T 23	1 52 43	26°55'25	22°12	12°36	19°55	0♒19	21°13	23° 0	28°46	24°55	28°53	7°25	6°59	2°27	n.a.	T 23
W24	1 56 40	27°56'13	4♒31	14° 4	21°10	0°56	21° 8	23° 4	28°44	24°57	28°52	7°25	6°56	2°34	n.a.	W24
T 25	2 0 37	28°57'02	17°11	15°31	22°24	1°34	21° 3	23°10	28°41	24°59	28°52	7°24	6°53	2°41	n.a.	T 25
F 26	2 4 33	29°57'52	0♓15	16°58	23°39	2°11	20°59	23°15	28°39	25° 1	28°51	7°23	6°49	2°47	n.a.	F 26
S 27	2 8 30	0♏58'43	13°49	18°25	24°54	2°49	20°54	23°20	28°36	25° 3	28°51	7°19	6°46	2°54	n.a.	S 27
S 28	2 12 26	1°59'36	27°53	19°50	26° 8	3°27	20°50	23°25	28°34	25° 5	28°50	7°12	6°43	3° 1	n.a.	S 28
M29	2 16 23	3° 0'29	12♈25	21°15	27°23	4° 5	20°45	23°30	28°31	25° 8	28°50	7° 3	6°40	3° 8	n.a.	M29
T 30	2 20 19	4° 1'23	27°20	22°39	28°38	4°43	20°41	23°36	28°29	25°10	28°49	6°52	6°37	3°14	n.a.	T 30
W31	2 24 16	5♏ 2'18	12♉29	24♏ 2	29♏52	5♒21	20♓38	23♐41	28♈26	25♏12	28♒49	6♌40	6♌33	3♐21	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	1s54	2s 2	4s 9	3s20	0n12	8s36	0n16	25s27	2s53	4s 9	1s45	23s 6	0n20	11n 3	0s28	17s34	1n32	27s 9	16s24	18n 0	18n26	15s43		n.a.
T 2	2 18	3n 9	4 45	4 4	0 5	9 6	0 14	25 20	2 51	4 12	1 45	23 6	0 20	11 2	0 28	17 34	1 32	27 10	16 24	18 3	18 27	15 44		n.a.
W 3	2 42	8 12	5 3	4 48	0s 1	9 36	0 11	25 13	2 48	4 15	1 45	23 7	0 20	11 1	0 28	17 35	1 32	27 10	16 24	18 5	18 28	15 46		n.a.
T 4	3 7	12 46	5 1	5 32	0 8	10 6	0 9	25 6	2 46	4 18	1 45	23 7	0 20	11 0	0 28	17 35	1 32	27 10	16 24	18 7	18 29	15 48		n.a.
F 5	3 31	16 31	4 38	6 15	0 14	10 36	0 6	24 59	2 43	4 21	1 45	23 7	0 20	10 59	0 28	17 36	1 31	27 10	16 24	18 9	18 30	15 50		n.a.
S 6	3 55	19 12	3 58	6 58	0 21	11 5	0 4	24 51	2 41	4 24	1 45	23 8	0 20	10 59	0 28	17 36	1 31	27 10	16 23	18 10	18 30	15 51		n.a.
S 7	4 18	20 38	3 4	7 40	0 28	11 34	0 1	24 43	2 39	4 26	1 45	23 8	0 20	10 58	0 28	17 37	1 31	27 10	16 23	18 11	18 31	15 53		n.a.
M 8	4 42	20 45	2 0	8 22	0 34	12 3	0s 1	24 36	2 36	4 29	1 44	23 8	0 19	10 57	0 28	17 37	1 31	27 10	16 23	18 11	18 32	15 55		n.a.
T 9	5 6	19 39	0 51	9 4	0 41	12 32	0 4	24 28	2 34	4 32	1 44	23 9	0 19	10 56	0 28	17 38	1 31	27 10	16 23	18 11	18 33	15 56		n.a.
W10	5 30	17 27	0n20	9 45	0 47	13 0	0 6	24 20	2 32	4 35	1 44	23 9	0 19	10 55	0 28	17 38	1 31	27 10	16 22	18 11	18 34	15 58		n.a.
T 11	5 54	14 23	1 28	10 25	0 53	13 28	0 9	24 11	2 30	4 37	1 44	23 9	0 19	10 54	0 28	17 39	1 31	27 10	16 22	18 11	18 35	16 0		n.a.
F 12	6 17	10 40	2 31	11 5	1 0	13 56	0 12	24 3	2 27	4 40	1 44	23 10	0 19	10 53	0 28	17 39	1 31	27 11	16 22	18 12	18 35	16 1		n.a.
S 13	6 41	6 31	3 25	11 45	1 6	14 23	0 14	23 54	2 25	4 42	1 43	23 10	0 19	10 53	0 28	17 40	1 31	27 11	16 22	18 14	18 36	16 3		n.a.
S 14	7 4	2 9	4 8	12 24	1 12	14 50	0 17	23 45	2 23	4 45	1 43	23 10	0 19	10 52	0 28	17 40	1 31	27 11	16 21	18 16	18 37	16 5		n.a.
M15	7 27	2s15	4 39	13 2	1 18	15 16	0 19	23 37	2 21	4 47	1 43	23 11	0 19	10 51	0 28	17 41	1 31	27 11	16 21	18 20	18 38	16 7		n.a.
T 16	7 51	6 30	4 57	13 39	1 24	15 43	0 22	23 27	2 19	4 50	1 43	23 11	0 19	10 50	0 28	17 41	1 31	27 11	16 21	18 23	18 39	16 8		n.a.
W17	8 14	10 28	5 0	14 16	1 29	16 8	0 25	23 18	2 16	4 52	1 43	23 11	0 19	10 49	0 28	17 42	1 31	27 11	16 21	18 27	18 39	16 10		n.a.
T 18	8 37	13 58	4 51	14 52	1 35	16 34	0 27	23 9	2 14	4 54	1 42	23 12	0 18	10 48	0 28	17 42	1 31	27 11	16 20	18 30	18 40	16 12		n.a.
F 19	9 0	16 53	4 29	15 28	1 40	16 59	0 30	22 59	2 12	4 56	1 42	23 12	0 18	10 47	0 28	17 43	1 31	27 11	16 20	18 33	18 41	16 13		n.a.
S 20	9 22	19 6	3 55	16 2	1 45	17 23	0 32	22 50	2 10	4 58	1 42	23 13	0 18	10 46	0 28	17 43	1 31	27 11	16 20	18 35	18 42	16 15		n.a.
S 21	9 45	20 31	3 12	16 36	1 50	17 47	0 35	22 40	2 8	5 0	1 42	23 13	0 18	10 46	0 28	17 44	1 31	27 11	16 19	18 37	18 43	16 17		n.a.
M22	10 7	21 1	2 19	17 9	1 55	18 11	0 37	22 30	2 6	5 2	1 41	23 13	0 18	10 45	0 28	17 44	1 31	27 10	16 19	18 37	18 44	16 18		n.a.
T 23	10 30	20 33	1 20	17 41	1 59	18 34	0 40	22 20	2 4	5 4	1 41	23 14	0 18	10 44	0 28	17 45	1 31	27 10	16 19	18 38	18 44	16 20		n.a.
W24	10 52	19 6	0 15	18 12	2 3	18 56	0 43	22 9	2 2	5 6	1 41	23 14	0 18	10 43	0 28	17 45	1 31	27 10	16 19	18 38	18 45	16 22		n.a.
T 25	11 14	16 41	0s51	18 42	2 7	19 18	0 45	21 59	2 0	5 7	1 41	23 14	0 18	10 42	0 28	17 46	1 31	27 10	16 18	18 38	18 46	16 23		n.a.
F 26	11 35	13 20	1 58	19 11	2 11	19 40	0 48	21 48	1 58	5 9	1 40	23 15	0 18	10 41	0 28	17 46	1 31	27 10	16 18	18 38	18 47	16 25		n.a.
S 27	11 57	9 12	3 0	19 39	2 14	20 1	0 50	21 38	1 56	5 11	1 40	23 15	0 17	10 40	0 28	17 47	1 31	27 10	16 18	18 39	18 48	16 27		n.a.
S 28	12 18	4 25	3 53	20 6	2 17	20 21	0 52	21 27	1 54	5 12	1 40	23 15	0 17	10 39	0 28	17 47	1 31	27 10	16 17	18 41	18 48	16 28		n.a.
M29	12 39	0n46	4 33	20 31	2 20	20 41	0 55	21 16	1 52	5 14	1 40	23 16	0 17	10 38	0 28	17 48	1 31	27 10	16 17	18 43	18 49	16 30		n.a.
T 30	13 0	6 2	4 56	20 56	2 22	21 1	0 57	21 5	1 50	5 15	1 39	23 16	0 17	10 37	0 28	17 48	1 31	27 10	16 17	18 46	18 50	16 32		n.a.
W31	13s21	11n 1	4s58	21s18	2s23	21s19	1s 0	20s53	1s48	5s16	1s39	23s17	0n17	10n37	0s28	17s49	1n31	27s 9	16s16	18n49	18n51	16s33		n.a.

Julian Day Number = 1662891.5, Delta T = 03h24m45s
Ecliptic obliquity = 23°42'48, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°16'47, Lahiri = - 6°09'47 Julian Calendar 1 Oct. 161 BCE == Greg. Calendar 28 Sept. 161 BCE

The year -160 astronomical counting style corresponds to year 161 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 161 BCE
geocentric

NOVEMBER 161 BCE (-160) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 28 12	6♏ 3'15	27♉43	25♏24	1♐ 7	6♒ 0	20°R34	23♐47	28°R24	25♏14	28°R49	6°R28	6♌30	3♐28	n.a.	T 1
F 2	2 32 9	7° 4'13	12♊49	26°44	2°21	6°38	20♓31	23°52	28♈21	25°16	28♒48	6♌19	6°27	3°34	n.a.	F 2
S 3	2 36 6	8° 5'12	27°38	28° 2	3°36	7°16	20°27	23°58	28°19	25°18	28°48	6°13	6°24	3°41	n.a.	S 3
S 4	2 40 2	9° 6'13	12♋ 6	29°19	4°50	7°55	20°24	24° 4	28°16	25°21	28°48	6° 9	6°21	3°48	n.a.	S 4
M 5	2 43 59	10° 7'15	26° 8	0♐33	6° 5	8°33	20°22	24° 9	28°14	25°23	28°47	6° 8	6°18	3°54	n.a.	M 5
T 6	2 47 55	11° 8'18	9♌46	1°45	7°20	9°12	20°19	24°15	28°11	25°25	28°47	6° 8	6°14	4° 1	n.a.	T 6
W 7	2 51 52	12° 9'23	23° 1	2°54	8°34	9°51	20°17	24°21	28° 9	25°27	28°47	6° 7	6°11	4° 8	n.a.	W 7
T 8	2 55 48	13°10'28	5♍56	3°59	9°49	10°30	20°14	24°27	28° 6	25°29	28°47	6° 6	6° 8	4°15	n.a.	T 8
F 9	2 59 45	14°11'35	18°36	5° 1	11° 3	11° 8	20°12	24°33	28° 4	25°32	28°47	6° 2	6° 5	4°21	n.a.	F 9
S 10	3 3 41	15°12'43	1♎ 3	5°58	12°17	11°47	20°11	24°39	28° 2	25°34	28°46	5°54	6° 2	4°28	n.a.	S 10
S 11	3 7 38	16°13'51	13°20	6°50	13°32	12°26	20° 9	24°45	27°59	25°36	28°46	5°44	5°59	4°35	n.a.	S 11
M12	3 11 35	17°15'01	25°29	7°36	14°46	13° 5	20° 8	24°51	27°57	25°38	28°46	5°32	5°55	4°41	n.a.	M12
T 13	3 15 31	18°16'11	7♏32	8°15	16° 1	13°45	20° 6	24°57	27°55	25°41	28°46	5°17	5°52	4°48	n.a.	T 13
W14	3 19 28	19°17'23	19°29	8°47	17°15	14°24	20° 5	25° 3	27°52	25°43	28°46	5° 3	5°49	4°55	n.a.	W14
T 15	3 23 24	20°18'35	1♐22	9°11	18°30	15° 3	20° 5	25° 9	27°50	25°45	28°46	4°49	5°46	5° 2	n.a.	T 15
F 16	3 27 21	21°19'47	13°13	9°25	19°44	15°42	20° 4	25°16	27°48	25°47	28°D46	4°36	5°43	5° 8	n.a.	F 16
S 17	3 31 17	22°21'00	25° 2	9°R29	20°58	16°22	20° 4	25°22	27°46	25°50	28°46	4°27	5°39	5°15	n.a.	S 17
S 18	3 35 14	23°22'14	6♑53	9°22	22°13	17° 1	20°D 4	25°28	27°43	25°52	28°46	4°21	5°36	5°22	n.a.	S 18
M19	3 39 10	24°23'27	18°48	9° 4	23°27	17°41	20° 4	25°35	27°41	25°54	28°46	4°17	5°33	5°28	n.a.	M19
T 20	3 43 7	25°24'41	0♒51	8°35	24°41	18°20	20° 4	25°41	27°39	25°56	28°46	4°D16	5°30	5°35	n.a.	T 20
W21	3 47 4	26°25'55	13° 8	7°53	25°55	19° 0	20° 4	25°48	27°37	25°59	28°46	4°16	5°27	5°42	n.a.	W21
T 22	3 51 0	27°27'10	25°42	7° 1	27°10	19°39	20° 5	25°54	27°35	26° 1	28°47	4°R16	5°24	5°48	n.a.	T 22
F 23	3 54 57	28°28'24	8♓40	5°58	28°24	20°19	20° 6	26° 1	27°33	26° 3	28°47	4°16	5°20	5°55	n.a.	F 23
S 24	3 58 53	29°29'38	22° 4	4°47	29°38	20°59	20° 7	26° 7	27°31	26° 6	28°47	4°14	5°17	6° 2	n.a.	S 24
S 25	4 2 50	0♐30'52	5♈59	3°30	0♑52	21°38	20° 8	26°14	27°29	26° 8	28°47	4° 9	5°14	6° 9	n.a.	S 25
M26	4 6 46	1°32'06	20°23	2° 9	2° 6	22°18	20°10	26°21	27°27	26°10	28°47	4° 2	5°11	6°15	n.a.	M26
T 27	4 10 43	2°33'20	5♉15	0°47	3°20	22°58	20°12	26°27	27°25	26°12	28°48	3°53	5° 8	6°22	n.a.	T 27
W28	4 14 39	3°34'34	20°26	29♏26	4°34	23°38	20°14	26°34	27°23	26°15	28°48	3°43	5° 5	6°29	n.a.	W28
T 29	4 18 36	4°35'49	5♊47	28°10	5°48	24°17	20°16	26°41	27°21	26°17	28°48	3°34	5° 1	6°35	n.a.	T 29
F 30	4 22 33	5♐37'03	21♊ 6	27♏ 0	7♑ 2	24♒57	20♓18	26♐48	27♈19	26♏19	28♒49	3♌26	4♌58	6♐42	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13 s41	15n20	4 s40	21 s40	2 s25	21 s38	1 s 2	20 s42	1 s46	5 s17	1 s39	23 s17	0n17	10n36	0 s28	17 s50	1n31	27 s 9	16 s16	18n52	18n52	16 s35		n.a.
F 2	14 2	18 36	4 2	22 0	2 25	21 55	1 4	20 30	1 44	5 18	1 38	23 17	0 17	10 35	0 28	17 50	1 31	27 9	16 16	18 54	18 52	16 37		n.a.
S 3	14 22	20 33	3 8	22 18	2 25	22 12	1 6	20 19	1 42	5 19	1 38	23 18	0 17	10 34	0 28	17 51	1 31	27 9	16 15	18 56	18 53	16 38		n.a.
S 4	14 42	21 7	2 3	22 35	2 25	22 28	1 9	20 7	1 40	5 20	1 38	23 18	0 17	10 33	0 28	17 51	1 31	27 9	16 15	18 57	18 54	16 40		n.a.
M 5	15 1	20 18	0 53	22 50	2 23	22 44	1 11	19 55	1 39	5 21	1 38	23 18	0 17	10 32	0 28	17 52	1 30	27 8	16 15	18 57	18 55	16 41		n.a.
T 6	15 20	18 19	0n19	23 3	2 22	22 59	1 13	19 43	1 37	5 22	1 37	23 19	0 17	10 31	0 28	17 52	1 30	27 8	16 14	18 57	18 56	16 43		n.a.
W 7	15 40	15 23	1 28	23 15	2 19	23 13	1 15	19 30	1 35	5 23	1 37	23 19	0 16	10 30	0 28	17 53	1 30	27 8	16 14	18 57	18 56	16 45		n.a.
T 8	15 58	11 46	2 31	23 24	2 15	23 27	1 17	19 18	1 33	5 23	1 37	23 19	0 16	10 30	0 28	17 53	1 30	27 8	16 14	18 58	18 57	16 46		n.a.
F 9	16 17	7 41	3 24	23 31	2 11	23 40	1 19	19 6	1 31	5 24	1 36	23 20	0 16	10 29	0 28	17 54	1 30	27 8	16 13	18 59	18 58	16 48		n.a.
S 10	16 35	3 21	4 7	23 36	2 5	23 52	1 21	18 53	1 30	5 24	1 36	23 20	0 16	10 28	0 27	17 55	1 30	27 7	16 13	19 1	18 59	16 50		n.a.
S 11	16 53	1 s 4	4 38	23 39	1 58	24 3	1 23	18 40	1 28	5 24	1 36	23 20	0 16	10 27	0 27	17 55	1 30	27 7	16 13	19 3	19 0	16 51		n.a.
M12	17 11	5 23	4 55	23 39	1 51	24 14	1 25	18 27	1 26	5 25	1 35	23 21	0 16	10 26	0 27	17 56	1 30	27 7	16 12	19 6	19 0	16 53		n.a.
T 13	17 28	9 27	5 0	23 36	1 42	24 24	1 27	18 14	1 24	5 25	1 35	23 21	0 16	10 25	0 27	17 56	1 30	27 6	16 12	19 10	19 1	16 54		n.a.
W14	17 45	13 8	4 51	23 31	1 31	24 34	1 28	18 1	1 23	5 25	1 35	23 21	0 16	10 25	0 27	17 57	1 30	27 6	16 12	19 13	19 2	16 56		n.a.
T 15	18 2	16 17	4 29	23 23	1 20	24 42	1 30	17 48	1 21	5 25	1 34	23 22	0 16	10 24	0 27	17 57	1 30	27 6	16 11	19 17	19 3	16 58		n.a.
F 16	18 18	18 45	3 56	23 13	1 7	24 50	1 32	17 34	1 19	5 25	1 34	23 22	0 16	10 23	0 27	17 58	1 30	27 6	16 11	19 20	19 4	16 59		n.a.
S 17	18 34	20 25	3 12	22 59	0 52	24 57	1 33	17 21	1 18	5 25	1 34	23 22	0 16	10 22	0 27	17 58	1 30	27 5	16 11	19 22	19 4	17 1		n.a.
S 18	18 50	21 12	2 20	22 42	0 36	25 4	1 35	17 7	1 16	5 25	1 33	23 23	0 15	10 21	0 27	17 59	1 30	27 5	16 10	19 24	19 5	17 3		n.a.
M19	19 5	21 2	1 21	22 22	0 19	25 9	1 36	16 53	1 14	5 24	1 33	23 23	0 15	10 21	0 27	17 59	1 30	27 4	16 10	19 24	19 6	17 4		n.a.
T 20	19 20	19 54	0 18	22 0	0 1	25 14	1 38	16 40	1 13	5 24	1 33	23 23	0 15	10 20	0 27	18 0	1 30	27 4	16 9	19 25	19 7	17 6		n.a.
W21	19 35	17 49	0 s47	21 34	0n19	25 18	1 39	16 26	1 11	5 23	1 32	23 24	0 15	10 19	0 27	18 1	1 30	27 4	16 9	19 25	19 7	17 7		n.a.
T 22	19 49	14 51	1 52	21 6	0 39	25 21	1 40	16 11	1 10	5 23	1 32	23 24	0 15	10 18	0 27	18 1	1 30	27 3	16 9	19 25	19 8	17 9		n.a.
F 23	20 3	11 4	2 52	20 35	0 59	25 24	1 42	15 57	1 8	5 22	1 32	23 24	0 15	10 18	0 27	18 2	1 30	27 3	16 8	19 25	19 9	17 11		n.a.
S 24	20 16	6 38	3 46	20 2	1 19	25 26	1 43	15 43	1 6	5 21	1 31	23 24	0 15	10 17	0 27	18 2	1 30	27 3	16 8	19 25	19 10	17 12		n.a.
S 25	20 29	1 42	4 28	19 29	1 39	25 26	1 44	15 29	1 5	5 20	1 31	23 25	0 15	10 16	0 27	18 3	1 30	27 2	16 8	19 26	19 11	17 14		n.a.
M26	20 42	3n30	4 56	18 55	1 57	25 27	1 45	15 14	1 3	5 20	1 31	23 25	0 15	10 16	0 27	18 3	1 30	27 2	16 7	19 28	19 11	17 15		n.a.
T 27	20 55	8 39	5 4	18 22	2 14	25 26	1 46	14 59	1 2	5 19	1 30	23 25	0 15	10 15	0 27	18 4	1 30	27 1	16 7	19 30	19 12	17 17		n.a.
W28	21 7	13 23	4 51	17 51	2 28	25 25	1 47	14 45	1 0	5 17	1 30	23 25	0 15	10 14	0 27	18 4	1 30	27 1	16 7	19 33	19 13	17 18		n.a.
T 29	21 18	17 17	4 18	17 22	2 41	25 22	1 47	14 30	0 59	5 16	1 30	23 26	0 15	10 14	0 27	18 5	1 30	27 1	16 6	19 35	19 14	17 20		n.a.
F 30	21 s29	19n59	3 s26	16 s56	2n51	25 s19	1 s48	14 s15	0 s57	5 s15	1 s29	23 s26	0n14	10n13	0 s27	18 s 5	1n30	27 s 0	16 s 6	19n37	19n14	17 s22		n.a.

Julian Day Number = 1662922.5, Delta T = 03h24m44s
Ecliptic obliquity = 23°42'47, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°16'43, Lahiri = - 6°09'43 Julian Calendar 1 Nov. 161 BCE == Greg. Calendar 29 Oct. 161 BCE

The year -160 astronomical counting style corresponds to year 161 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 161 BCE
geocentric

DECEMBER 161 BCE (-160) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 26 29	6♐38'17	6♋12	25°R58	8♑16	25♒37	20♓21	26♐55	27°R17	26♏21	28♒49	3°R21	4♌55	6♐49	n.a.	S 1
S 2	4 30 26	7°39'32	20°57	25♏ 5	9°30	26°17	20°24	27° 1	27♈16	26°24	28°49	3♌18	4°52	6°56	n.a.	S 2
M 3	4 34 22	8°40'47	5♌15	24°23	10°44	26°57	20°26	27° 8	27°14	26°26	28°50	3°D17	4°49	7° 2	n.a.	M 3
T 4	4 38 19	9°42'01	19° 4	23°51	11°58	27°37	20°30	27°15	27°12	26°28	28°50	3°18	4°45	7° 9	n.a.	T 4
W 5	4 42 15	10°43'16	2♍26	23°29	13°12	28°17	20°33	27°22	27°11	26°30	28°51	3°19	4°42	7°16	n.a.	W 5
T 6	4 46 12	11°44'31	15°25	23°17	14°25	28°57	20°36	27°29	27° 9	26°32	28°51	3°R19	4°39	7°22	n.a.	T 6
F 7	4 50 9	12°45'46	28° 2	23°D14	15°39	29°37	20°40	27°36	27° 7	26°35	28°52	3°18	4°36	7°29	n.a.	F 7
S 8	4 54 5	13°47'01	10♎24	23°20	16°53	0♓17	20°44	27°43	27° 6	26°37	28°52	3°14	4°33	7°36	n.a.	S 8
S 9	4 58 2	14°48'16	22°33	23°35	18° 7	0°57	20°48	27°50	27° 4	26°39	28°53	3° 9	4°30	7°42	n.a.	S 9
M10	5 1 58	15°49'31	4♏34	23°57	19°20	1°37	20°53	27°57	27° 3	26°41	28°53	3° 1	4°26	7°49	n.a.	M10
T 11	5 5 55	16°50'46	16°29	24°25	20°34	2°17	20°57	28° 4	27° 2	26°43	28°54	2°52	4°23	7°56	n.a.	T 11
W12	5 9 51	17°52'00	28°21	25° 0	21°47	2°58	21° 2	28°11	27° 0	26°46	28°54	2°42	4°20	8° 3	n.a.	W12
T 13	5 13 48	18°53'15	10♐12	25°40	23° 1	3°38	21° 7	28°18	26°59	26°48	28°55	2°33	4°17	8° 9	n.a.	T 13
F 14	5 17 44	19°54'28	22° 3	26°25	24°14	4°18	21°12	28°25	26°58	26°50	28°56	2°26	4°14	8°16	n.a.	F 14
S 15	5 21 41	20°55'41	3♑55	27°14	25°28	4°58	21°17	28°32	26°56	26°52	28°56	2°20	4°11	8°23	n.a.	S 15
S 16	5 25 38	21°56'54	15°52	28° 8	26°41	5°38	21°22	28°39	26°55	26°54	28°57	2°16	4° 7	8°29	n.a.	S 16
M17	5 29 34	22°58'06	27°54	29° 5	27°54	6°19	21°28	28°46	26°54	26°56	28°58	2°D15	4° 4	8°36	n.a.	M17
T 18	5 33 31	23°59'17	10♒ 5	0♐ 5	29° 7	6°59	21°34	28°54	26°53	26°58	28°58	2°15	4° 1	8°43	n.a.	T 18
W19	5 37 27	25° 0'27	22°27	1° 8	0♒21	7°39	21°39	29° 1	26°52	27° 0	28°59	2°16	3°58	8°49	n.a.	W19
T 20	5 41 24	26° 1'36	5♓ 4	2°13	1°34	8°19	21°46	29° 8	26°51	27° 2	29° 0	2°18	3°55	8°56	n.a.	T 20
F 21	5 45 20	27° 2'43	18° 0	3°21	2°47	8°59	21°52	29°15	26°50	27° 4	29° 1	2°19	3°51	9° 3	n.a.	F 21
S 22	5 49 17	28° 3'50	1♈18	4°31	4° 0	9°40	21°58	29°22	26°49	27° 6	29° 2	2°R20	3°48	9°10	n.a.	S 22
S 23	5 53 13	29° 4'56	15° 1	5°43	5°13	10°20	22° 5	29°29	26°49	27° 8	29° 3	2°18	3°45	9°16	n.a.	S 23
M24	5 57 10	0♑ 6'00	29°10	6°57	6°26	11° 0	22°12	29°36	26°48	27°10	29° 3	2°16	3°42	9°23	n.a.	M24
T 25	6 1 7	1° 7'04	13♉44	8°12	7°38	11°40	22°19	29°43	26°47	27°12	29° 4	2°12	3°39	9°30	n.a.	T 25
W26	6 5 3	2° 8'06	28°38	9°29	8°51	12°21	22°26	29°51	26°46	27°14	29° 5	2° 8	3°36	9°36	n.a.	W26
T 27	6 9 0	3° 9'07	13♊46	10°47	10° 4	13° 1	22°33	29°58	26°46	27°16	29° 6	2° 3	3°32	9°43	n.a.	T 27
F 28	6 12 56	4°10'07	28°57	12° 7	11°16	13°41	22°40	0♑ 5	26°45	27°18	29° 7	2° 0	3°29	9°50	n.a.	F 28
S 29	6 16 53	5°11'06	14♋ 3	13°28	12°29	14°22	22°48	0°12	26°45	27°20	29° 8	1°57	3°26	9°56	n.a.	S 29
S 30	6 20 49	6°12'04	28°53	14°50	13°41	15° 2	22°56	0°19	26°44	27°22	29° 9	1°D56	3°23	10° 3	n.a.	S 30
M31	6 24 46	7♑13'01	13♌21	16♐13	14♒54	15♓42	23♓ 3	0♑26	26♈44	27♏24	29♒10	1♌57	3♌20	10♐10	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s40	21n14	2s20	16s34	2n59	25s16	1s49	14s 0	0s56	5s14	1s29	23s26	0n14	10n12	0s27	18s 6	1n30	27s 0	16s 6	19n38	19n15	17s23		n.a.
S 2	21 50	20 59	1 6	16 16	3 4	25 11	1 49	13 45	0 55	5 12	1 29	23 26	0 14	10 12	0 27	18 6	1 30	26 59	16 5	19 38	19 16	17 25		n.a.
M 3	22 0	19 21	0n10	16 3	3 8	25 6	1 50	13 30	0 53	5 11	1 28	23 27	0 14	10 11	0 27	18 7	1 30	26 59	16 5	19 39	19 17	17 26		n.a.
T 4	22 10	16 36	1 24	15 54	3 9	25 0	1 50	13 15	0 52	5 9	1 28	23 27	0 14	10 10	0 27	18 7	1 30	26 58	16 5	19 38	19 18	17 28		n.a.
W 5	22 19	13 3	2 30	15 49	3 9	24 53	1 51	12 59	0 50	5 8	1 28	23 27	0 14	10 10	0 27	18 8	1 30	26 58	16 4	19 38	19 18	17 29		n.a.
T 6	22 27	8 59	3 27	15 48	3 7	24 46	1 51	12 44	0 49	5 6	1 27	23 27	0 14	10 9	0 27	18 8	1 30	26 57	16 4	19 38	19 19	17 31		n.a.
F 7	22 35	4 37	4 11	15 50	3 3	24 37	1 51	12 29	0 48	5 4	1 27	23 28	0 14	10 9	0 27	18 9	1 30	26 57	16 4	19 38	19 20	17 33		n.a.
S 8	22 43	0 11	4 43	15 56	2 59	24 28	1 51	12 13	0 46	5 2	1 27	23 28	0 14	10 8	0 27	18 9	1 30	26 56	16 3	19 39	19 21	17 34		n.a.
S 9	22 50	4s12	5 2	16 5	2 53	24 18	1 51	11 57	0 45	5 0	1 26	23 28	0 14	10 8	0 27	18 10	1 30	26 56	16 3	19 41	19 21	17 36		n.a.
M10	22 57	8 22	5 7	16 17	2 47	24 8	1 51	11 42	0 43	4 58	1 26	23 28	0 14	10 7	0 27	18 10	1 30	26 55	16 3	19 42	19 22	17 37		n.a.
T 11	23 3	12 11	4 59	16 30	2 40	23 57	1 51	11 26	0 42	4 56	1 26	23 28	0 14	10 7	0 27	18 11	1 30	26 55	16 2	19 45	19 23	17 39		n.a.
W12	23 9	15 31	4 37	16 46	2 33	23 45	1 51	11 10	0 41	4 54	1 26	23 29	0 13	10 6	0 27	18 11	1 30	26 54	16 2	19 47	19 24	17 40		n.a.
T 13	23 15	18 12	4 4	17 3	2 25	23 32	1 50	10 54	0 40	4 52	1 25	23 29	0 13	10 6	0 27	18 12	1 30	26 54	16 2	19 49	19 24	17 42		n.a.
F 14	23 19	20 8	3 20	17 22	2 17	23 19	1 50	10 38	0 38	4 50	1 25	23 29	0 13	10 5	0 27	18 12	1 30	26 53	16 1	19 51	19 25	17 43		n.a.
S 15	23 24	21 12	2 28	17 41	2 8	23 5	1 49	10 22	0 37	4 47	1 25	23 29	0 13	10 5	0 27	18 13	1 30	26 53	16 1	19 52	19 26	17 45		n.a.
S 16	23 28	21 18	1 28	18 2	1 59	22 50	1 49	10 6	0 36	4 45	1 24	23 29	0 13	10 5	0 27	18 13	1 30	26 52	16 1	19 53	19 27	17 46		n.a.
M17	23 31	20 26	0 24	18 23	1 51	22 35	1 48	9 50	0 34	4 42	1 24	23 29	0 13	10 4	0 27	18 14	1 30	26 51	16 0	19 53	19 28	17 48		n.a.
T 18	23 34	18 36	0s43	18 45	1 42	22 19	1 47	9 34	0 33	4 40	1 24	23 29	0 13	10 4	0 27	18 14	1 30	26 51	16 0	19 53	19 28	17 49		n.a.
W19	23 37	15 53	1 48	19 6	1 33	22 2	1 47	9 17	0 32	4 37	1 23	23 30	0 13	10 4	0 27	18 15	1 30	26 50	16 0	19 53	19 29	17 51		n.a.
T 20	23 39	12 23	2 49	19 28	1 24	21 45	1 46	9 1	0 31	4 34	1 23	23 30	0 13	10 3	0 27	18 15	1 30	26 50	15 59	19 52	19 30	17 52		n.a.
F 21	23 41	8 14	3 44	19 50	1 15	21 27	1 45	8 45	0 30	4 32	1 23	23 30	0 13	10 3	0 27	18 16	1 30	26 49	15 59	19 52	19 31	17 54		n.a.
S 22	23 42	3 34	4 28	20 12	1 6	21 9	1 43	8 28	0 28	4 29	1 22	23 30	0 13	10 3	0 27	18 16	1 30	26 49	15 59	19 52	19 31	17 56		n.a.
S 23	23 43	1n24	4 59	20 34	0 57	20 50	1 42	8 12	0 27	4 26	1 22	23 30	0 13	10 2	0 26	18 17	1 30	26 48	15 58	19 52	19 32	17 57		n.a.
M24	23 43	6 26	5 12	20 55	0 48	20 30	1 41	7 55	0 26	4 23	1 22	23 30	0 13	10 2	0 26	18 17	1 30	26 47	15 58	19 53	19 33	17 59		n.a.
T 25	23 42	11 16	5 6	21 16	0 40	20 10	1 40	7 39	0 25	4 20	1 22	23 30	0 12	10 2	0 26	18 17	1 31	26 47	15 58	19 54	19 34	18 0		n.a.
W26	23 42	15 32	4 40	21 37	0 31	19 50	1 38	7 22	0 24	4 17	1 21	23 30	0 12	10 2	0 26	18 18	1 31	26 46	15 58	19 55	19 34	18 2		n.a.
T 27	23 40	18 50	3 54	21 57	0 23	19 28	1 37	7 6	0 23	4 14	1 21	23 30	0 12	10 1	0 26	18 18	1 31	26 46	15 57	19 56	19 35	18 3		n.a.
F 28	23 39	20 51	2 51	22 16	0 14	19 7	1 35	6 49	0 21	4 10	1 21	23 31	0 12	10 1	0 26	18 19	1 31	26 45	15 57	19 57	19 36	18 5		n.a.
S 29	23 37	21 22	1 37	22 34	0 6	18 44	1 33	6 32	0 20	4 7	1 20	23 31	0 12	10 1	0 26	18 19	1 31	26 44	15 57	19 57	19 37	18 6		n.a.
S 30	23 34	20 21	0 17	22 52	0s 2	18 22	1 31	6 15	0 19	4 4	1 20	23 31	0 12	10 1	0 26	18 20	1 31	26 44	15 57	19 57	19 37	18 7		n.a.
M31	23s31	18n 0	1n 2	23s 9	0s 9	17s59	1s29	5s59	0s18	4s 0	1s20	23s31	0n12	10n 1	0s26	18s20	1n31	26s43	15s56	19n57	19n38	18s 9		n.a.

Julian Day Number = 1662952.5, Delta T = 03h24m43s
Ecliptic obliquity = 23°42'47, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°16'39, Lahiri = - 6°09'38 Julian Calendar 1 Dec. 161 BCE == Greg. Calendar 28 Nov. 161 BCE

The year -160 astronomical counting style corresponds to year 161 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 160 BCE
geocentric

JANUARY 160 BCE (-159) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 28 43	8♉13'56	27♌22	17♐37	16♒ 6	16♓22	23♓11	0♉33	26°R44	27♏26	29♒11	1♌58	3♌17	10♐16	n.a.	T 1
W 2	6 32 39	9°14'51	10♍56	19° 2	20°27	18°30	17°43	23°28	0°40	26♈43	27°27	29°12	1°59	3°13	10°23	n.a.	W 2
T 3	6 36 36	10°15'45	24° 3	20°27	18°30	17°43	23°28	0°47	26°43	27°29	29°13	2° 1	3°10	10°30	n.a.	T 3
F 4	6 40 32	11°16'38	6♎47	21°54	19°42	18°23	23°36	0°54	26°43	27°31	29°14	2°R 2	3° 7	10°37	n.a.	F 4
S 5	6 44 29	12°17'30	19°11	23°22	20°54	19° 3	23°45	1° 1	26°43	27°33	29°15	2° 1	3° 4	10°43	n.a.	S 5
S 6	6 48 25	13°18'20	1♏21	24°50	22° 6	19°43	23°54	1° 8	26°42	27°35	29°16	2° 0	3° 1	10°50	n.a.	S 6
M 7	6 52 22	14°19'10	13°19	26°20	23°18	20°24	24° 2	1°15	26°D42	27°36	29°18	1°59	2°57	10°57	n.a.	M 7
T 8	6 56 18	15°19'59	25°12	27°50	24°29	21° 4	24°11	1°22	26°42	27°38	29°19	1°56	2°54	11° 3	n.a.	T 8
W 9	7 0 15	16°20'46	7♐ 1	29°21	25°41	21°44	24°21	1°29	26°43	27°40	29°20	1°53	2°51	11°10	n.a.	W 9
T 10	7 4 12	17°21'32	18°51	0♉53	26°52	22°24	24°30	1°36	26°43	27°41	29°21	1°51	2°48	11°17	n.a.	T 10
F 11	7 8 8	18°22'17	0♉45	2°26	28° 4	23° 4	24°39	1°43	26°43	27°43	29°22	1°49	2°45	11°23	n.a.	F 11
S 12	7 12 5	19°23'00	12°44	4° 0	29°15	23°45	24°49	1°50	26°43	27°44	29°23	1°48	2°42	11°30	n.a.	S 12
S 13	7 16 1	20°23'42	24°50	5°34	0♓26	24°25	24°58	1°57	26°43	27°46	29°25	1°47	2°38	11°37	n.a.	S 13
M14	7 19 58	21°24'23	7♒ 5	7° 9	1°37	25° 5	25° 8	2° 4	26°44	27°48	29°26	1°D47	2°35	11°44	n.a.	M14
T 15	7 23 54	22°25'01	19°31	8°45	2°48	25°45	25°18	2°11	26°44	27°49	29°27	1°47	2°32	11°50	n.a.	T 15
W16	7 27 51	23°25'38	2♓ 8	10°22	3°59	26°25	25°28	2°18	26°44	27°51	29°28	1°48	2°29	11°57	n.a.	W16
T 17	7 31 47	24°26'13	14°59	12° 0	5° 9	27° 5	25°38	2°25	26°45	27°52	29°30	1°49	2°26	12° 4	n.a.	T 17
F 18	7 35 44	25°26'46	28° 4	13°39	6°20	27°46	25°48	2°31	26°45	27°53	29°31	1°50	2°23	12°10	n.a.	F 18
S 19	7 39 41	26°27'17	11♈27	15°18	7°31	28°26	25°59	2°38	26°46	27°55	29°32	1°50	2°19	12°17	n.a.	S 19
S 20	7 43 37	27°27'47	25° 7	16°59	8°41	29° 6	26° 9	2°45	26°47	27°56	29°33	1°R50	2°16	12°24	n.a.	S 20
M21	7 47 34	28°28'14	9♉ 5	18°40	9°51	29°46	26°20	2°52	26°47	27°58	29°35	1°50	2°13	12°30	n.a.	M21
T 22	7 51 30	29°28'39	23°21	20°23	11° 1	0♈26	26°30	2°58	26°48	27°59	29°36	1°50	2°10	12°37	n.a.	T 22
W23	7 55 27	0♒29'02	7♊52	22° 6	12°11	1° 6	26°41	3° 5	26°49	28° 0	29°37	1°50	2° 7	12°44	n.a.	W23
T 24	7 59 23	1°29'23	22°34	23°50	13°21	1°46	26°52	3°11	26°50	28° 1	29°39	1°D50	2° 3	12°50	n.a.	T 24
F 25	8 3 20	2°29'42	7♋22	25°36	14°30	2°26	27° 3	3°18	26°51	28° 3	29°40	1°50	2° 0	12°57	n.a.	F 25
S 26	8 7 16	3°29'59	22° 8	27°22	15°40	3° 6	27°14	3°24	26°52	28° 4	29°42	1°50	1°57	13° 4	n.a.	S 26
S 27	8 11 13	4°30'14	6♌45	29° 9	16°49	3°46	27°25	3°31	26°53	28° 5	29°43	1°R50	1°54	13°11	n.a.	S 27
M28	8 15 10	5°30'28	21° 7	0♒57	17°58	4°26	27°36	3°37	26°54	28° 6	29°44	1°50	1°51	13°17	n.a.	M28
T 29	8 19 6	6°30'39	5♍ 9	2°47	19° 7	5° 6	27°48	3°44	26°55	28° 7	29°46	1°49	1°48	13°24	n.a.	T 29
W30	8 23 3	7°30'49	18°47	4°37	20°16	5°46	27°59	3°50	26°56	28° 8	29°47	1°49	1°44	13°31	n.a.	W30
T 31	8 26 59	8♒30'56	2♎ 1	6♒28	21♓24	6♈26	28♓11	3♉56	26♈57	28♏ 9	29♒49	1♌48	1♌41	13♐37	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	23 s27	14n38	2n16	23 s25	0 s17	17 s35	1 s27	5 s42	0 s17	3 s57	1 s20	23 s31	0n12	10n 1	0 s26	18 s20	1n31	26 s42	15 s56	19n57	19n39	18 s10			n.a.
W 2	23 23	10 36	3 19	23 40	0 24	17 11	1 25	5 25	0 16	3 53	1 19	23 31	0 12	10 1	0 26	18 21	1 31	26 42	15 56	19 57	19 40	18 12			n.a.
T 3	23 19	6 11	4 9	23 54	0 32	16 46	1 23	5 8	0 15	3 50	1 19	23 31	0 12	10 1	0 26	18 21	1 31	26 41	15 55	19 56	19 40	18 13			n.a.
F 4	23 14	1 38	4 46	24 6	0 39	16 21	1 21	4 51	0 14	3 46	1 19	23 31	0 12	10 1	0 26	18 21	1 31	26 41	15 55	19 56	19 41	18 15			n.a.
S 5	23 8	2 s51	5 8	24 18	0 46	15 56	1 19	4 35	0 13	3 43	1 19	23 31	0 12	10 1	0 26	18 22	1 31	26 40	15 55	19 56	19 42	18 16			n.a.
S 6	23 2	7 9	5 16	24 29	0 52	15 30	1 16	4 18	0 12	3 39	1 18	23 31	0 12	10 1	0 26	18 22	1 31	26 39	15 55	19 56	19 43	18 18			n.a.
M 7	22 56	11 6	5 9	24 38	0 58	15 4	1 14	4 1	0 11	3 35	1 18	23 31	0 12	10 1	0 26	18 23	1 31	26 39	15 54	19 57	19 43	18 19			n.a.
T 8	22 49	14 35	4 50	24 46	1 5	14 37	1 11	3 44	0 10	3 31	1 18	23 31	0 11	10 1	0 26	18 23	1 31	26 38	15 54	19 57	19 44	18 21			n.a.
W 9	22 42	17 29	4 18	24 53	1 10	14 11	1 8	3 27	0 9	3 27	1 18	23 31	0 11	10 1	0 26	18 23	1 31	26 37	15 54	19 58	19 45	18 22			n.a.
T 10	22 34	19 39	3 36	24 59	1 16	13 43	1 6	3 10	0 8	3 23	1 17	23 31	0 11	10 1	0 26	18 24	1 31	26 37	15 54	19 58	19 45	18 24			n.a.
F 11	22 26	20 59	2 44	25 3	1 21	13 16	1 3	2 53	0 7	3 19	1 17	23 31	0 11	10 1	0 26	18 24	1 31	26 36	15 54	19 59	19 46	18 25			n.a.
S 12	22 18	21 23	1 44	25 6	1 27	12 48	1 0	2 36	0 6	3 15	1 17	23 31	0 11	10 1	0 26	18 24	1 31	26 35	15 53	19 59	19 47	18 27			n.a.
S 13	22 9	20 47	0 38	25 7	1 31	12 20	0 57	2 19	0 5	3 11	1 17	23 31	0 11	10 1	0 26	18 25	1 31	26 35	15 53	19 59	19 48	18 28			n.a.
M14	21 59	19 11	0 s29	25 7	1 36	11 51	0 54	2 2	0 4	3 7	1 16	23 31	0 11	10 1	0 26	18 25	1 31	26 34	15 53	19 59	19 48	18 29			n.a.
T 15	21 49	16 40	1 37	25 5	1 40	11 23	0 50	1 45	0 3	3 3	1 16	23 31	0 11	10 1	0 26	18 25	1 31	26 33	15 53	19 59	19 49	18 31			n.a.
W16	21 39	13 20	2 41	25 2	1 44	10 54	0 47	1 28	0 2	2 59	1 16	23 31	0 11	10 2	0 26	18 26	1 31	26 33	15 53	19 59	19 50	18 32			n.a.
T 17	21 29	9 19	3 38	24 57	1 47	10 24	0 44	1 11	0 1	2 54	1 16	23 31	0 11	10 2	0 26	18 26	1 31	26 32	15 52	19 59	19 51	18 34			n.a.
F 18	21 18	4 48	4 24	24 50	1 51	9 55	0 40	0 54	0 0	2 50	1 15	23 31	0 11	10 2	0 26	18 26	1 31	26 32	15 52	19 59	19 51	18 35			n.a.
S 19	21 6	0n 1	4 58	24 42	1 54	9 25	0 37	0 37	0n 1	2 46	1 15	23 30	0 11	10 2	0 26	18 26	1 31	26 31	15 52	19 59	19 52	18 37			n.a.
S 20	20 54	4 56	5 15	24 32	1 56	8 55	0 33	0 20	0 2	2 41	1 15	23 30	0 11	10 2	0 26	18 27	1 31	26 30	15 52	19 59	19 53	18 38			n.a.
M21	20 42	9 43	5 15	24 21	1 58	8 25	0 30	0 3	0 2	2 37	1 15	23 30	0 11	10 3	0 26	18 27	1 31	26 30	15 52	19 59	19 53	18 39			n.a.
T 22	20 30	14 3	4 56	24 7	2 0	7 55	0 26	0n14	0 3	2 32	1 14	23 30	0 11	10 3	0 26	18 27	1 31	26 29	15 51	19 59	19 54	18 41			n.a.
W23	20 17	17 39	4 17	23 52	2 1	7 25	0 22	0 30	0 4	2 28	1 14	23 30	0 10	10 3	0 26	18 27	1 31	26 28	15 51	19 59	19 55	18 42			n.a.
T 24	20 3	20 9	3 21	23 35	2 2	6 54	0 19	0 47	0 5	2 23	1 14	23 30	0 10	10 4	0 26	18 28	1 31	26 28	15 51	19 59	19 56	18 44			n.a.
F 25	19 50	21 19	2 12	23 17	2 3	6 24	0 15	1 4	0 6	2 19	1 14	23 30	0 10	10 4	0 26	18 28	1 31	26 27	15 51	19 59	19 56	18 45			n.a.
S 26	19 36	20 59	0 54	22 56	2 3	5 53	0 11	1 21	0 7	2 14	1 14	23 30	0 10	10 4	0 25	18 28	1 31	26 26	15 51	19 59	19 57	18 47			n.a.
S 27	19 21	19 14	0n27	22 34	2 3	5 22	0 7	1 38	0 8	2 9	1 13	23 30	0 10	10 5	0 25	18 28	1 32	26 26	15 51	19 59	19 58	18 48			n.a.
M28	19 7	16 17	1 45	22 9	2 2	4 51	0 3	1 55	0 8	2 5	1 13	23 30	0 10	10 5	0 25	18 29	1 32	26 25	15 51	19 59	19 59	18 49			n.a.
T 29	18 52	12 26	2 55	21 43	2 0	4 20	0n 2	2 11	0 9	2 0	1 13	23 30	0 10	10 6	0 25	18 29	1 32	26 24	15 50	19 59	19 59	18 51			n.a.
W30	18 36	8 2	3 52	21 15	1 59	3 49	0 6	2 28	0 10	1 55	1 13	23 29	0 10	10 6	0 25	18 29	1 32	26 24	15 50	19 59	20 0	18 52			n.a.
T 31	18 s20	3n24	4n36	20 s45	1 s56	3 s17	0n10	2n45	0n11	1 s50	1 s13	23 s29	0n10	10n 7	0 s25	18 s29	1n32	26 s23	15 s50	19n59	20n 1	18 s54			n.a.

Julian Day Number = 1662983.5, Delta T = 03h24m42s
Ecliptic obliquity = 23°42'47, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°16'35, Lahiri = - 6°09'34 Julian Calendar 1 Jan. 160 BCE == Greg. Calendar 29 Dec. 161 BCE

The year -159 astronomical counting style corresponds to year 160 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 160 BCE
geocentric

FEBRUARY 160 BCE (-159) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 30 56	9♒31'02	14♎51	8♒20	22♓33	7♈ 6	28♓22	4♉ 3	26♈58	28♏11	29♒50	1°R47	1♌38	13♐44	n.a.	F 1
S 2	8 34 52	10°31'07	27°21	10°13	23°41	7°46	28°34	4° 9	27° 0	28°11	29°51	1♌46	1°35	13°51	n.a.	S 2
S 3	8 38 49	11°31'09	9♏34	12° 8	24°49	8°26	28°46	4°15	27° 1	28°12	29°53	1°D46	1°32	13°57	n.a.	S 3
M 4	8 42 45	12°31'11	21°34	14° 3	25°57	9° 6	28°58	4°21	27° 3	28°13	29°54	1°46	1°29	14° 4	n.a.	M 4
T 5	8 46 42	13°31'10	3♐27	15°58	27° 5	9°45	29°10	4°27	27° 4	28°14	29°56	1°47	1°25	14°11	n.a.	T 5
W 6	8 50 39	14°31'07	15°17	17°55	28°12	10°25	29°22	4°33	27° 5	28°15	29°57	1°48	1°22	14°17	n.a.	W 6
T 7	8 54 35	15°31'03	27° 8	19°52	29°20	11° 5	29°34	4°39	27° 7	28°16	29°59	1°49	1°19	14°24	n.a.	T 7
F 8	8 58 32	16°30'57	9♑ 4	21°49	0♈27	11°45	29°46	4°45	27° 9	28°17	0♓ 0	1°51	1°16	14°31	n.a.	F 8
S 9	9 2 28	17°30'49	21°10	23°47	1°34	12°25	29°59	4°51	27°10	28°18	0° 2	1°52	1°13	14°37	n.a.	S 9
S 10	9 6 25	18°30'39	3♒27	25°45	2°40	13° 5	0♈11	4°57	27°12	28°18	0° 3	1°R52	1° 9	14°44	n.a.	S 10
M11	9 10 21	19°30'27	15°57	27°43	3°47	13°44	0°23	5° 3	27°14	28°19	0° 5	1°51	1° 6	14°51	n.a.	M11
T 12	9 14 18	20°30'13	28°42	29°40	4°53	14°24	0°36	5° 8	27°15	28°20	0° 6	1°50	1° 3	14°58	n.a.	T 12
W13	9 18 14	21°29'57	11♓41	1♓37	5°59	15° 4	0°48	5°14	27°17	28°20	0° 8	1°47	1° 0	15° 4	n.a.	W13
T 14	9 22 11	22°29'38	24°55	3°33	7° 5	15°43	1° 1	5°20	27°19	28°21	0° 9	1°44	0°57	15°11	n.a.	T 14
F 15	9 26 7	23°29'18	8♈22	5°28	8°10	16°23	1°14	5°25	27°21	28°22	0°11	1°41	0°54	15°18	n.a.	F 15
S 16	9 30 4	24°28'55	22° 1	7°21	9°16	17° 3	1°26	5°31	27°23	28°22	0°12	1°38	0°50	15°24	n.a.	S 16
S 17	9 34 1	25°28'29	5♉51	9°11	10°21	17°43	1°39	5°36	27°25	28°23	0°14	1°36	0°47	15°31	n.a.	S 17
M18	9 37 57	26°28'01	19°51	11° 0	11°26	18°22	1°52	5°42	27°27	28°23	0°15	1°35	0°44	15°38	n.a.	M18
T 19	9 41 54	27°27'31	3♊59	12°45	12°30	19° 2	2° 5	5°47	27°29	28°23	0°17	1°D35	0°41	15°44	n.a.	T 19
W20	9 45 50	28°26'59	18°13	14°27	13°34	19°41	2°18	5°52	27°31	28°24	0°18	1°36	0°38	15°51	n.a.	W20
T 21	9 49 47	29°26'24	2♋31	16° 4	14°38	20°21	2°31	5°57	27°33	28°24	0°20	1°37	0°34	15°58	n.a.	T 21
F 22	9 53 43	0♓25'46	16°50	17°38	15°42	21° 1	2°44	6° 2	27°36	28°25	0°21	1°39	0°31	16° 4	n.a.	F 22
S 23	9 57 40	1°25'06	1♌ 8	19° 7	16°45	21°40	2°58	6° 8	27°38	28°25	0°23	1°R39	0°28	16°11	n.a.	S 23
S 24	10 1 36	2°24'24	15°20	20°30	17°48	22°20	3°11	6°13	27°40	28°25	0°24	1°39	0°25	16°18	n.a.	S 24
M25	10 5 33	3°23'40	29°22	21°48	18°50	22°59	3°24	6°17	27°42	28°25	0°26	1°36	0°22	16°24	n.a.	M25
T 26	10 9 30	4°22'53	13♍ 9	23° 0	19°53	23°39	3°37	6°22	27°45	28°26	0°27	1°32	0°19	16°31	n.a.	T 26
W27	10 13 26	5°22'04	26°39	24° 6	20°55	24°18	3°51	6°27	27°47	28°26	0°29	1°27	0°15	16°38	n.a.	W27
T 28	10 17 23	6♓21'13	9♎50	25♓ 6	21♈56	24♈57	4♈ 4	6♉32	27♈50	28♏26	0♓30	1♌21	0♌12	16♐44	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	18s 4	1s15	5n 4	20s13	1s53	2s46	0n14	3n 2	0n12	1s45	1s12	23s29	0n10	10n 7	0s25	18s29	1n32	26s22	15s50	19n59	20n 1	18s55		n.a.
S 2	17 48	5 44	5 16	19 39	1 50	2 15	0 19	3 18	0 12	1 41	1 12	23 29	0 10	10 8	0 25	18 30	1 32	26 22	15 50	20 0	20 2	18 56		n.a.
S 3	17 31	9 53	5 14	19 3	1 46	1 44	0 23	3 35	0 13	1 36	1 12	23 29	0 10	10 8	0 25	18 30	1 32	26 21	15 50	20 0	20 3	18 58		n.a.
M 4	17 15	13 34	4 59	18 25	1 42	1 12	0 28	3 51	0 14	1 31	1 12	23 29	0 10	10 9	0 25	18 30	1 32	26 21	15 50	20 0	20 4	18 59		n.a.
T 5	16 57	16 40	4 30	17 46	1 36	0 41	0 32	4 8	0 15	1 26	1 12	23 29	0 10	10 9	0 25	18 30	1 32	26 20	15 50	19 59	20 4	19 0		n.a.
W 6	16 40	19 4	3 50	17 4	1 31	0 10	0 37	4 25	0 16	1 21	1 11	23 29	0 10	10 10	0 25	18 30	1 32	26 19	15 50	19 59	20 5	19 2		n.a.
T 7	16 22	20 40	3 1	16 21	1 24	0n22	0 41	4 41	0 16	1 16	1 11	23 28	0 9	10 10	0 25	18 30	1 32	26 19	15 49	19 59	20 6	19 3		n.a.
F 8	16 4	21 21	2 3	15 37	1 17	0 53	0 46	4 57	0 17	1 11	1 11	23 28	0 9	10 11	0 25	18 31	1 32	26 18	15 49	19 59	20 6	19 5		n.a.
S 9	15 46	21 3	0 59	14 50	1 10	1 24	0 51	5 14	0 18	1 6	1 11	23 28	0 9	10 12	0 25	18 31	1 32	26 17	15 49	19 58	20 7	19 6		n.a.
S 10	15 27	19 45	0s 9	14 3	1 2	1 55	0 55	5 30	0 18	1 0	1 11	23 28	0 9	10 12	0 25	18 31	1 32	26 17	15 49	19 58	20 8	19 7		n.a.
M11	15 8	17 28	1 17	13 14	0 53	2 26	1 0	5 46	0 19	0 55	1 11	23 28	0 9	10 13	0 25	18 31	1 32	26 16	15 49	19 58	20 8	19 9		n.a.
T 12	14 49	14 17	2 23	12 23	0 43	2 57	1 5	6 3	0 20	0 50	1 10	23 28	0 9	10 14	0 25	18 31	1 32	26 16	15 49	19 59	20 9	19 10		n.a.
W13	14 30	10 22	3 22	11 32	0 33	3 28	1 10	6 19	0 21	0 45	1 10	23 27	0 9	10 14	0 25	18 31	1 32	26 15	15 49	19 59	20 10	19 11		n.a.
T 14	14 10	5 54	4 12	10 40	0 23	3 59	1 14	6 35	0 21	0 40	1 10	23 27	0 9	10 15	0 25	18 31	1 32	26 14	15 49	20 0	20 11	19 13		n.a.
F 15	13 51	1 4	4 49	9 48	0 12	4 29	1 19	6 51	0 22	0 34	1 10	23 27	0 9	10 16	0 25	18 31	1 32	26 14	15 49	20 1	20 11	19 14		n.a.
S 16	13 31	3n53	5 10	8 55	0 0	5 0	1 24	7 7	0 23	0 29	1 10	23 27	0 9	10 16	0 25	18 31	1 32	26 13	15 49	20 1	20 12	19 15		n.a.
S 17	13 11	8 42	5 14	8 2	0n12	5 30	1 29	7 23	0 23	0 24	1 10	23 27	0 9	10 17	0 25	18 31	1 32	26 13	15 49	20 2	20 13	19 17		n.a.
M18	12 50	13 6	4 59	7 9	0 24	6 1	1 34	7 39	0 24	0 18	1 9	23 27	0 9	10 18	0 25	18 32	1 32	26 12	15 49	20 2	20 13	19 18		n.a.
T 19	12 30	16 50	4 26	6 17	0 37	6 31	1 39	7 55	0 25	0 13	1 9	23 26	0 9	10 19	0 25	18 32	1 33	26 12	15 49	20 2	20 14	19 19		n.a.
W20	12 9	19 36	3 36	5 26	0 50	7 1	1 44	8 11	0 25	0 8	1 9	23 26	0 9	10 19	0 25	18 32	1 33	26 11	15 49	20 2	20 15	19 21		n.a.
T 21	11 48	21 8	2 33	4 36	1 3	7 30	1 49	8 26	0 26	0 2	1 9	23 26	0 9	10 20	0 25	18 32	1 33	26 10	15 49	20 2	20 15	19 22		n.a.
F 22	11 27	21 19	1 20	3 47	1 16	8 0	1 54	8 42	0 27	0n 3	1 9	23 26	0 8	10 21	0 25	18 32	1 33	26 10	15 49	20 1	20 16	19 23		n.a.
S 23	11 6	20 5	0 3	3 0	1 29	8 29	1 59	8 58	0 27	0 8	1 9	23 26	0 8	10 22	0 25	18 32	1 33	26 9	15 49	20 1	20 17	19 25		n.a.
S 24	10 44	17 36	1n14	2 15	1 41	8 58	2 4	9 13	0 28	0 14	1 9	23 26	0 8	10 23	0 25	18 32	1 33	26 9	15 49	20 1	20 18	19 26		n.a.
M25	10 23	14 6	2 26	1 33	1 54	9 27	2 9	9 28	0 28	0 19	1 8	23 25	0 8	10 24	0 25	18 32	1 33	26 8	15 49	20 2	20 18	19 27		n.a.
T 26	10 1	9 53	3 28	0 53	2 6	9 55	2 14	9 44	0 29	0 25	1 8	23 25	0 8	10 25	0 25	18 32	1 33	26 8	15 49	20 3	20 19	19 28		n.a.
W27	9 39	5 15	4 16	0 16	2 17	10 24	2 19	9 59	0 30	0 30	1 8	23 25	0 8	10 25	0 25	18 32	1 33	26 7	15 49	20 4	20 20	19 30		n.a.
T 28	9s17	0n30	4n50	0n18	2n29	10n52	2n24	10n14	0n30	0n36	1s 8	23s25	0n 8	10n26	0s25	18s32	1n33	26s 7	15s49	20n 5	20n20	19s31		n.a.

Julian Day Number = 1663014.5, Delta T = 03h24m41s
Ecliptic obliquity = 23°42'48, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°16'30, Lahiri = - 6°09'30 Julian Calendar 1 Feb. 160 BCE == Greg. Calendar 29 Jan. 160 BCE

The year -159 astronomical counting style corresponds to year 160 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 160 BCE
geocentric

MARCH 160 BCE (-159) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 21 19	7♓20'21	22♎40	25♓58	22♈57	25♈37	4♈18	6♑36	27♈52	28♏26	0♓32	1°R16	0♌ 9	16♐51	n.a.	F 1
S 2	10 25 16	8°19'26	5♏11	26°45	23°58	26°16	4°31	6°41	27°55	28°26	0°33	1♌10	0° 6	16°58	n.a.	S 2
S 3	10 29 12	9°18'29	17°26	27°24	24°58	26°56	4°45	6°45	27°57	28°26	0°35	1° 7	0° 3	17° 5	n.a.	S 3
M 4	10 33 9	10°17'31	29°29	27°56	25°58	27°35	4°58	6°50	28° 0	28°R26	0°36	1° 4	29♋59	17°11	n.a.	M 4
T 5	10 37 5	11°16'30	11♐22	28°21	26°58	28°14	5°12	6°54	28° 2	28°26	0°38	1°D 3	29°56	17°18	n.a.	T 5
W 6	10 41 2	12°15'28	23°12	28°39	27°57	28°54	5°25	6°59	28° 5	28°26	0°39	1° 4	29°53	17°25	n.a.	W 6
T 7	10 44 58	13°14'24	5♑ 4	28°50	28°56	29°33	5°39	7° 3	28° 8	28°26	0°41	1° 5	29°50	17°31	n.a.	T 7
F 8	10 48 55	14°13'18	17° 3	28°R54	29°54	0♉12	5°53	7° 7	28°10	28°26	0°42	1° 7	29°47	17°38	n.a.	F 8
S 9	10 52 52	15°12'11	29°12	28°51	0♉52	0°51	6° 7	7°11	28°13	28°26	0°44	1°R 8	29°44	17°45	n.a.	S 9
S 10	10 56 48	16°11'01	11♒37	28°42	1°49	1°31	6°21	7°15	28°16	28°26	0°45	1° 7	29°40	17°51	n.a.	S 10
M11	11 0 45	17° 9'49	24°20	28°27	2°46	2°10	6°34	7°19	28°19	28°25	0°47	1° 5	29°37	17°58	n.a.	M11
T 12	11 4 41	18° 8'36	7♓23	28° 6	3°42	2°49	6°48	7°23	28°21	28°25	0°48	1° 0	29°34	18° 5	n.a.	T 12
W13	11 8 38	19° 7'20	20°44	27°40	4°38	3°28	7° 2	7°26	28°24	28°25	0°50	0°54	29°31	18°11	n.a.	W13
T 14	11 12 34	20° 6'02	4♈24	27° 9	5°33	4° 7	7°16	7°30	28°27	28°25	0°51	0°46	29°28	18°18	n.a.	T 14
F 15	11 16 31	21° 4'42	18°18	26°34	6°28	4°46	7°30	7°34	28°30	28°24	0°53	0°37	29°25	18°25	n.a.	F 15
S 16	11 20 27	22° 3'20	2♉23	25°56	7°22	5°26	7°44	7°37	28°33	28°24	0°54	0°29	29°21	18°31	n.a.	S 16
S 17	11 24 24	23° 1'56	16°34	25°16	8°15	6° 5	7°58	7°40	28°36	28°23	0°55	0°23	29°18	18°38	n.a.	S 17
M18	11 28 21	24° 0'29	0♊48	24°33	9° 8	6°44	8°12	7°44	28°39	28°23	0°57	0°19	29°15	18°45	n.a.	M18
T 19	11 32 17	24°59'00	15° 0	23°50	10° 0	7°23	8°26	7°47	28°42	28°22	0°58	0°16	29°12	18°51	n.a.	T 19
W20	11 36 14	25°57'29	29°10	23° 7	10°52	8° 2	8°40	7°50	28°45	28°22	1° 0	0°D16	29° 9	18°58	n.a.	W20
T 21	11 40 10	26°55'56	13♋14	22°24	11°43	8°41	8°54	7°53	28°48	28°21	1° 1	0°17	29° 6	19° 5	n.a.	T 21
F 22	11 44 7	27°54'20	27°13	21°43	12°33	9°20	9° 8	7°56	28°51	28°21	1° 2	0°R17	29° 2	19°11	n.a.	F 22
S 23	11 48 3	28°52'42	11♌ 6	21° 4	13°22	9°59	9°22	7°59	28°54	28°20	1° 4	0°17	28°59	19°18	n.a.	S 23
S 24	11 52 0	29°51'02	24°51	20°28	14°10	10°38	9°36	8° 2	28°57	28°20	1° 5	0°14	28°56	19°25	n.a.	S 24
M25	11 55 56	0♈49'20	8♍27	19°55	14°58	11°17	9°51	8° 4	29° 1	28°19	1° 7	0° 9	28°53	19°31	n.a.	M25
T 26	11 59 53	1°47'36	21°52	19°25	15°45	11°56	10° 5	8° 7	29° 4	28°18	1° 8	0° 2	28°50	19°38	n.a.	T 26
W27	12 3 49	2°45'49	5♎ 4	19° 0	16°31	12°35	10°19	8° 9	29° 7	28°18	1° 9	29♋52	28°46	19°45	n.a.	W27
T 28	12 7 46	3°44'01	18° 1	18°39	17°16	13°14	10°33	8°12	29°10	28°17	1°11	29°41	28°43	19°51	n.a.	T 28
F 29	12 11 43	4°42'11	0♏43	18°23	18° 0	13°52	10°47	8°14	29°13	28°16	1°12	29°30	28°40	19°58	n.a.	F 29
S 30	12 15 39	5°40'20	13° 9	18°12	18°43	14°31	11° 1	8°16	29°17	28°15	1°13	29°19	28°37	20° 5	n.a.	S 30
S 31	12 19 36	6♈38'27	25♏21	18♓ 5	19♉25	15♉10	11♈16	8♑19	29♈20	28♏14	1♓14	29♋11	28♋34	20♐12	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	8s55	4s10	5n 8	0n49	2n39	11n19	2n29	10n29	0n31	0n41	1s 8	23s25	0n 8	10n27	0s25	18s32	1n33	26s 6	15s49	20n 6	20n21	19s32		n.a.
S 2	8 33	8 32	5 10	1 16	2 49	11 47	2 34	10 44	0 31	0 47	1 8	23 25	0 8	10 28	0 25	18 32	1 33	26 6	15 49	20 8	20 22	19 34		n.a.
S 3	8 10	12 27	4 59	1 39	2 57	12 14	2 39	10 59	0 32	0 52	1 8	23 24	0 8	10 29	0 24	18 32	1 33	26 5	15 49	20 8	20 22	19 35		n.a.
M 4	7 48	15 49	4 34	1 59	3 5	12 41	2 44	11 14	0 33	0 58	1 8	23 24	0 8	10 30	0 24	18 32	1 33	26 5	15 49	20 9	20 23	19 36		n.a.
T 5	7 25	18 29	3 58	2 16	3 12	13 7	2 49	11 29	0 33	1 3	1 7	23 24	0 8	10 31	0 24	18 32	1 33	26 4	15 49	20 9	20 24	19 37		n.a.
W 6	7 2	20 21	3 11	2 28	3 17	13 34	2 53	11 44	0 34	1 9	1 7	23 24	0 8	10 32	0 24	18 32	1 33	26 4	15 50	20 9	20 24	19 39		n.a.
T 7	6 40	21 20	2 17	2 36	3 22	13 59	2 58	11 58	0 34	1 15	1 7	23 24	0 8	10 33	0 24	18 31	1 33	26 3	15 50	20 9	20 25	19 40		n.a.
F 8	6 17	21 22	1 16	2 41	3 24	14 25	3 3	12 13	0 35	1 20	1 7	23 24	0 7	10 34	0 24	18 31	1 33	26 3	15 50	20 8	20 26	19 41		n.a.
S 9	5 54	20 23	0 10	2 41	3 26	14 50	3 8	12 27	0 35	1 26	1 7	23 24	0 7	10 35	0 24	18 31	1 33	26 2	15 50	20 8	20 26	19 43		n.a.
S 10	5 31	18 24	0s57	2 37	3 26	15 15	3 13	12 42	0 36	1 31	1 7	23 23	0 7	10 36	0 24	18 31	1 33	26 2	15 50	20 8	20 27	19 44		n.a.
M11	5 8	15 29	2 2	2 30	3 25	15 39	3 17	12 56	0 36	1 37	1 7	23 23	0 7	10 37	0 24	18 31	1 33	26 1	15 50	20 9	20 28	19 45		n.a.
T 12	4 44	11 43	3 3	2 19	3 22	16 3	3 22	13 10	0 37	1 43	1 7	23 23	0 7	10 38	0 24	18 31	1 33	26 1	15 50	20 10	20 28	19 46		n.a.
W13	4 21	7 18	3 55	2 4	3 17	16 27	3 26	13 24	0 37	1 48	1 7	23 23	0 7	10 39	0 24	18 31	1 33	26 0	15 50	20 11	20 29	19 48		n.a.
T 14	3 58	2 26	4 35	1 46	3 11	16 50	3 31	13 38	0 38	1 54	1 6	23 23	0 7	10 40	0 24	18 31	1 34	26 0	15 50	20 13	20 30	19 49		n.a.
F 15	3 35	2n39	5 0	1 25	3 3	17 13	3 35	13 52	0 38	2 0	1 6	23 23	0 7	10 41	0 24	18 31	1 34	25 59	15 51	20 15	20 30	19 50		n.a.
S 16	3 11	7 39	5 6	1 1	2 54	17 35	3 40	14 6	0 39	2 5	1 6	23 23	0 7	10 42	0 24	18 31	1 34	25 59	15 51	20 17	20 31	19 51		n.a.
S 17	2 48	12 17	4 55	0 35	2 43	17 57	3 44	14 19	0 39	2 11	1 6	23 22	0 7	10 43	0 24	18 30	1 34	25 59	15 51	20 18	20 32	19 52		n.a.
M18	2 24	16 14	4 25	0 8	2 31	18 18	3 48	14 33	0 40	2 17	1 6	23 22	0 7	10 44	0 24	18 30	1 34	25 58	15 51	20 19	20 32	19 54		n.a.
T 19	2 1	19 15	3 38	0s22	2 18	18 39	3 52	14 46	0 40	2 22	1 6	23 22	0 7	10 46	0 24	18 30	1 34	25 58	15 51	20 19	20 33	19 55		n.a.
W20	1 37	21 4	2 39	0 52	2 4	19 0	3 57	14 59	0 41	2 28	1 6	23 22	0 7	10 47	0 24	18 30	1 34	25 57	15 51	20 20	20 34	19 56		n.a.
T 21	1 14	21 33	1 30	1 22	1 50	19 20	4 1	15 13	0 41	2 34	1 6	23 22	0 7	10 48	0 24	18 30	1 34	25 57	15 51	20 19	20 34	19 57		n.a.
F 22	0 51	20 41	0 16	1 53	1 34	19 39	4 4	15 26	0 42	2 39	1 6	23 22	0 7	10 49	0 24	18 30	1 34	25 57	15 52	20 19	20 35	19 59		n.a.
S 23	0 27	18 34	0n58	2 23	1 18	19 58	4 8	15 39	0 42	2 45	1 6	23 22	0 6	10 50	0 24	18 30	1 34	25 56	15 52	20 19	20 36	20 0		n.a.
S 24	0 4	15 23	2 7	2 53	1 2	20 17	4 12	15 52	0 43	2 51	1 6	23 22	0 6	10 51	0 24	18 29	1 34	25 56	15 52	20 20	20 36	20 1		n.a.
M25	0n20	11 25	3 9	3 21	0 45	20 35	4 16	16 4	0 43	2 56	1 6	23 22	0 6	10 52	0 24	18 29	1 34	25 56	15 52	20 21	20 37	20 2		n.a.
T 26	0 43	6 55	3 59	3 48	0 29	20 52	4 19	16 17	0 44	3 2	1 5	23 21	0 6	10 54	0 24	18 29	1 34	25 55	15 52	20 23	20 38	20 3		n.a.
W27	1 7	2 10	4 36	4 13	0 12	21 9	4 22	16 29	0 44	3 8	1 5	23 21	0 6	10 55	0 24	18 29	1 34	25 55	15 52	20 25	20 38	20 5		n.a.
T 28	1 30	2s35	4 57	4 36	0s 4	21 25	4 26	16 42	0 45	3 13	1 5	23 21	0 6	10 56	0 24	18 29	1 34	25 55	15 53	20 27	20 39	20 6		n.a.
F 29	1 53	7 7	5 3	4 57	0 20	21 41	4 29	16 54	0 45	3 19	1 5	23 21	0 6	10 57	0 24	18 28	1 34	25 54	15 53	20 29	20 40	20 7		n.a.
S 30	2 17	11 17	4 54	5 15	0 35	21 56	4 32	17 6	0 45	3 25	1 5	23 21	0 6	10 58	0 24	18 28	1 34	25 54	15 53	20 32	20 40	20 8		n.a.
S 31	2n40	14s55	4n32	5s31	0s49	22n11	4n35	17n18	0n46	3n30	1s 5	23s21	0n 6	10n59	0s24	18s28	1n34	25s54	15s53	20n33	20n41	20s 9		n.a.

Julian Day Number = 1663042.5, Delta T = 03h24m41s
Ecliptic obliquity = 23°42'48, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°16'27, Lahiri = - 6°09'26 Julian Calendar 1 March 160 BCE == Greg. Calendar 26 Feb. 160 BCE

The year -159 astronomical counting style corresponds to year 160 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 160 BCE
geocentric

APRIL 160 BCE (-159) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 23 32	7♈36'32	7♐22	18°D 4	20♉ 5	15♉49	11♈30	8♏21	29♈23	28°R14	1♓16	29°R 4	28♋31	20♐18	n.a.	M 1
T 2	12 27 29	8°34'35	19°15	18♓ 7	20°45	16°28	11°44	8°23	29°27	28♏13	1°17	29♋ 0	28°27	20°25	n.a.	T 2
W 3	12 31 25	9°32'38	1♏ 5	18°15	21°24	17° 6	11°58	8°25	29°30	28°12	1°18	28°58	28°24	20°32	n.a.	W 3
T 4	12 35 22	10°30'38	12°56	18°28	22° 1	17°45	12°12	8°26	29°33	28°11	1°19	28°D58	28°21	20°38	n.a.	T 4
F 5	12 39 18	11°28'38	24°54	18°45	22°38	18°24	12°27	8°28	29°37	28°10	1°21	28°R58	28°18	20°45	n.a.	F 5
S 6	12 43 15	12°26'36	7♒ 5	19° 7	23°13	19° 3	12°41	8°30	29°40	28° 9	1°22	28°58	28°15	20°52	n.a.	S 6
S 7	12 47 12	13°24'32	19°33	19°33	23°46	19°41	12°55	8°31	29°43	28° 8	1°23	28°56	28°11	20°58	n.a.	S 7
M 8	12 51 8	14°22'27	2♓23	20° 3	24°19	20°20	13° 9	8°32	29°47	28° 7	1°24	28°53	28° 8	21° 5	n.a.	M 8
T 9	12 55 5	15°20'20	15°36	20°38	24°50	20°59	13°23	8°34	29°50	28° 6	1°25	28°46	28° 5	21°12	n.a.	T 9
W10	12 59 1	16°18'12	29°14	21°16	25°19	21°37	13°38	8°35	29°54	28° 5	1°27	28°37	28° 2	21°18	n.a.	W10
T 11	13 2 58	17°16'03	13♈15	21°58	25°47	22°16	13°52	8°36	29°57	28° 4	1°28	28°26	27°59	21°25	n.a.	T 11
F 12	13 6 54	18°13'52	27°34	22°44	26°13	22°55	14° 6	8°37	0♉ 0	28° 3	1°29	28°15	27°56	21°32	n.a.	F 12
S 13	13 10 51	19°11'39	12♉ 6	23°34	26°38	23°33	14°20	8°38	0° 4	28° 1	1°30	28° 4	27°52	21°38	n.a.	S 13
S 14	13 14 47	20° 9'25	26°43	24°26	27° 1	24°12	14°34	8°39	0° 7	28° 0	1°31	27°55	27°49	21°45	n.a.	S 14
M15	13 18 44	21° 7'09	11♊18	25°22	27°22	24°51	14°49	8°39	0°11	27°59	1°32	27°48	27°46	21°52	n.a.	M15
T 16	13 22 41	22° 4'51	25°46	26°21	27°41	25°29	15° 3	8°40	0°14	27°58	1°33	27°44	27°43	21°58	n.a.	T 16
W17	13 26 37	23° 2'32	10♋ 3	27°23	27°59	26° 8	15°17	8°41	0°18	27°57	1°34	27°42	27°40	22° 5	n.a.	W17
T 18	13 30 34	24° 0'11	24° 7	28°29	28°14	26°46	15°31	8°41	0°21	27°55	1°35	27°42	27°37	22°12	n.a.	T 18
F 19	13 34 30	24°57'49	7♌57	29°36	28°27	27°25	15°45	8°41	0°25	27°54	1°36	27°42	27°33	22°18	n.a.	F 19
S 20	13 38 27	25°55'24	21°35	0♈47	28°39	28° 3	15°59	8°42	0°28	27°53	1°37	27°41	27°30	22°25	n.a.	S 20
S 21	13 42 23	26°52'58	5♍ 0	2° 1	28°48	28°42	16°13	8°42	0°32	27°51	1°38	27°37	27°27	22°32	n.a.	S 21
M22	13 46 20	27°50'31	18°14	3°17	28°55	29°20	16°27	8°R42	0°35	27°50	1°39	27°31	27°24	22°38	n.a.	M22
T 23	13 50 16	28°48'01	1♎16	4°36	29° 0	29°59	16°41	8°42	0°39	27°49	1°40	27°22	27°21	22°45	n.a.	T 23
W24	13 54 13	29°45'31	14° 7	5°57	29° 2	0♊37	16°55	8°41	0°42	27°47	1°41	27°11	27°17	22°52	n.a.	W24
T 25	13 58 10	0♉42'59	26°47	7°21	29°R 2	1°16	17° 9	8°41	0°46	27°46	1°42	26°58	27°14	22°58	n.a.	T 25
F 26	14 2 6	1°40'26	9♏14	8°47	29° 0	1°54	17°23	8°41	0°49	27°45	1°43	26°45	27°11	23° 5	n.a.	F 26
S 27	14 6 3	2°37'52	21°30	10°16	28°55	2°32	17°37	8°40	0°53	27°43	1°43	26°32	27° 8	23°12	n.a.	S 27
S 28	14 9 59	3°35'17	3♐36	11°48	28°48	3°11	17°51	8°40	0°56	27°42	1°44	26°22	27° 5	23°18	n.a.	S 28
M29	14 13 56	4°32'41	15°32	13°22	28°39	3°49	18° 5	8°39	1° 0	27°40	1°45	26°13	27° 2	23°25	n.a.	M29
T 30	14 17 52	5♉30'04	27♐23	14♈58	28♉27	4♊28	18♈19	8♏38	1♉ 3	27♏39	1♓46	26♋ 8	26♋58	23♐32	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	3n 3	17s52	3n59	5s45	1s 3	22n25	4n37	17n30	0n46	3n36	1s 5	23s21	0n 6	11n 1	0s24	18s28	1n34	25s54	15s54	20n35	20n42	20s11		n.a.
T 2	3 26	20 2	3 15	5 55	1 17	22 38	4 40	17 42	0 47	3 42	1 5	23 21	0 6	11 2	0 24	18 27	1 34	25 53	15 54	20 36	20 42	20 12		n.a.
W 3	3 49	21 20	2 23	6 4	1 29	22 51	4 42	17 53	0 47	3 47	1 5	23 21	0 6	11 3	0 24	18 27	1 34	25 53	15 54	20 36	20 43	20 13		n.a.
T 4	4 12	21 41	1 24	6 10	1 41	23 3	4 44	18 5	0 48	3 53	1 5	23 21	0 6	11 4	0 24	18 27	1 34	25 53	15 54	20 36	20 44	20 14		n.a.
F 5	4 35	21 2	0 22	6 13	1 52	23 14	4 46	18 16	0 48	3 59	1 5	23 21	0 6	11 5	0 24	18 27	1 34	25 53	15 54	20 36	20 44	20 15		n.a.
S 6	4 58	19 24	0s43	6 13	2 2	23 25	4 48	18 27	0 48	4 4	1 5	23 21	0 5	11 7	0 24	18 27	1 34	25 52	15 55	20 36	20 45	20 16		n.a.
S 7	5 21	16 49	1 47	6 12	2 12	23 36	4 49	18 38	0 49	4 10	1 5	23 21	0 5	11 8	0 24	18 26	1 34	25 52	15 55	20 36	20 46	20 17		n.a.
M 8	5 44	13 21	2 47	6 7	2 20	23 45	4 51	18 49	0 49	4 16	1 5	23 21	0 5	11 9	0 24	18 26	1 34	25 52	15 55	20 37	20 46	20 19		n.a.
T 9	6 6	9 7	3 41	6 1	2 28	23 54	4 52	19 0	0 50	4 21	1 5	23 21	0 5	11 10	0 24	18 26	1 34	25 52	15 55	20 39	20 47	20 20		n.a.
W10	6 29	4 19	4 23	5 52	2 35	24 2	4 53	19 11	0 50	4 27	1 5	23 21	0 5	11 11	0 24	18 25	1 35	25 51	15 56	20 40	20 48	20 21		n.a.
T 11	6 51	0n50	4 51	5 41	2 41	24 10	4 53	19 21	0 50	4 32	1 5	23 21	0 5	11 13	0 24	18 25	1 35	25 51	15 56	20 43	20 48	20 22		n.a.
F 12	7 14	6 3	5 1	5 27	2 46	24 16	4 53	19 32	0 51	4 38	1 5	23 21	0 5	11 14	0 24	18 25	1 35	25 51	15 56	20 45	20 49	20 23		n.a.
S 13	7 36	11 1	4 52	5 12	2 51	24 22	4 53	19 42	0 51	4 44	1 5	23 21	0 5	11 15	0 24	18 25	1 35	25 51	15 56	20 47	20 49	20 24		n.a.
S 14	7 58	15 22	4 24	4 54	2 55	24 28	4 53	19 52	0 51	4 49	1 5	23 21	0 5	11 16	0 24	18 24	1 35	25 51	15 57	20 49	20 50	20 25		n.a.
M15	8 20	18 46	3 39	4 35	2 58	24 32	4 53	20 2	0 52	4 55	1 4	23 21	0 5	11 18	0 24	18 24	1 35	25 51	15 57	20 50	20 51	20 27		n.a.
T 16	8 42	20 59	2 40	4 13	3 0	24 36	4 52	20 12	0 52	5 0	1 4	23 21	0 5	11 19	0 24	18 24	1 35	25 50	15 57	20 51	20 51	20 28		n.a.
W17	9 3	21 48	1 32	3 50	3 2	24 39	4 51	20 21	0 52	5 6	1 4	23 21	0 5	11 20	0 24	18 23	1 35	25 50	15 58	20 51	20 52	20 29		n.a.
T 18	9 25	21 13	0 19	3 24	3 3	24 41	4 49	20 31	0 53	5 11	1 4	23 21	0 5	11 21	0 24	18 23	1 35	25 50	15 58	20 52	20 53	20 30		n.a.
F 19	9 46	19 21	0n54	2 57	3 3	24 42	4 47	20 40	0 53	5 17	1 4	23 21	0 4	11 23	0 24	18 23	1 35	25 50	15 58	20 52	20 53	20 31		n.a.
S 20	10 8	16 24	2 3	2 28	3 3	24 43	4 45	20 49	0 53	5 22	1 4	23 21	0 4	11 24	0 24	18 23	1 35	25 50	15 58	20 52	20 54	20 32		n.a.
S 21	10 29	12 37	3 3	1 58	3 2	24 42	4 42	20 58	0 54	5 28	1 4	23 21	0 4	11 25	0 24	18 22	1 35	25 50	15 59	20 53	20 55	20 33		n.a.
M22	10 50	8 17	3 53	1 25	3 0	24 41	4 39	21 7	0 54	5 33	1 4	23 21	0 4	11 26	0 24	18 22	1 35	25 50	15 59	20 54	20 55	20 34		n.a.
T 23	11 10	3 37	4 30	0 52	2 57	24 38	4 35	21 16	0 54	5 39	1 4	23 21	0 4	11 28	0 24	18 22	1 35	25 50	15 59	20 56	20 56	20 35		n.a.
W24	11 31	1s 9	4 53	0 16	2 54	24 35	4 31	21 24	0 55	5 44	1 4	23 21	0 4	11 29	0 24	18 21	1 35	25 50	16 0	20 58	20 56	20 36		n.a.
T 25	11 51	5 47	5 0	0n21	2 51	24 31	4 27	21 33	0 55	5 49	1 4	23 22	0 4	11 30	0 24	18 21	1 35	25 50	16 0	21 0	20 57	20 38		n.a.
F 26	12 11	10 6	4 53	0 59	2 46	24 25	4 22	21 41	0 55	5 55	1 4	23 22	0 4	11 31	0 24	18 21	1 35	25 50	16 0	21 3	20 58	20 39		n.a.
S 27	12 31	13 58	4 33	1 39	2 41	24 19	4 17	21 49	0 56	6 0	1 4	23 22	0 4	11 32	0 24	18 20	1 35	25 50	16 1	21 5	20 58	20 40		n.a.
S 28	12 51	17 11	4 0	2 20	2 36	24 12	4 11	21 57	0 56	6 6	1 4	23 22	0 4	11 34	0 24	18 20	1 35	25 50	16 1	21 7	20 59	20 41		n.a.
M29	13 11	19 39	3 17	3 2	2 30	24 3	4 4	22 5	0 56	6 11	1 4	23 22	0 4	11 35	0 24	18 20	1 35	25 50	16 1	21 9	21 0	20 42		n.a.
T 30	13n30	21s15	2n26	3n46	2s24	23n54	3n57	22n12	0n57	6n16	1s 4	23s22	0n 4	11n36	0s24	18s19	1n35	25s50	16s 2	21n10	21n 0	20s43		n.a.

Julian Day Number = 1663073.5, Delta T = 03h24m40s
Ecliptic obliquity = 23°42'48, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°16'22, Lahiri = - 6°09'22 Julian Calendar 1 Apr. 160 BCE == Greg. Calendar 29 March 160 BCE

The year -159 astronomical counting style corresponds to year 160 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 160 BCE
geocentric

MAY 160 BCE (-159) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 21 49	6♉27'27	9♋11	16♈37	28°R13	5♊ 6	18♈33	8°R38	1♉ 6	27°R37	1♓47	26°R 5	26♋55	23♐38	n.a.	W 1
T 2	14 25 45	7°24'48	21° 1	18°18	27♉56	5°44	18°46	8♋37	1°10	27♏36	1°47	26♋ 4	26°52	23°45	n.a.	T 2
F 3	14 29 42	8°22'09	2♒58	20° 1	27°37	6°23	19° 0	8°36	1°13	27°34	1°48	26° 4	26°49	23°52	n.a.	F 3
S 4	14 33 39	9°19'29	15° 8	21°47	27°16	7° 1	19°14	8°34	1°17	27°33	1°49	26° 4	26°46	23°58	n.a.	S 4
S 5	14 37 35	10°16'48	27°36	23°36	26°52	7°39	19°28	8°33	1°20	27°31	1°50	26° 3	26°42	24° 5	n.a.	S 5
M 6	14 41 32	11°14'07	10♓26	25°26	26°27	8°18	19°41	8°32	1°24	27°30	1°50	26° 0	26°39	24°12	n.a.	M 6
T 7	14 45 28	12°11'25	23°42	27°19	26° 0	8°56	19°55	8°31	1°27	27°28	1°51	25°54	26°36	24°18	n.a.	T 7
W 8	14 49 25	13° 8'43	7♈26	29°15	25°30	9°34	20° 9	8°29	1°31	27°27	1°52	25°47	26°33	24°25	n.a.	W 8
T 9	14 53 21	14° 6'00	21°38	1♉12	24°59	10°12	20°22	8°27	1°34	27°25	1°52	25°37	26°30	24°32	n.a.	T 9
F 10	14 57 18	15° 3'16	6♉12	3°12	24°27	10°51	20°36	8°26	1°38	27°24	1°53	25°27	26°27	24°38	n.a.	F 10
S 11	15 1 14	16° 0'31	21° 3	5°13	23°53	11°29	20°49	8°24	1°41	27°22	1°53	25°17	26°23	24°45	n.a.	S 11
S 12	15 5 11	16°57'46	6♊ 2	7°17	23°18	12° 7	21° 3	8°22	1°44	27°20	1°54	25° 8	26°20	24°52	n.a.	S 12
M13	15 9 8	17°55'01	20°59	9°22	22°42	12°45	21°16	8°20	1°48	27°19	1°54	25° 2	26°17	24°58	n.a.	M13
T 14	15 13 4	18°52'14	5♋47	11°29	22° 5	13°24	21°29	8°18	1°51	27°17	1°55	24°58	26°14	25° 5	n.a.	T 14
W15	15 17 1	19°49'27	20°19	13°38	21°28	14° 2	21°43	8°16	1°55	27°16	1°55	24°D57	26°11	25°12	n.a.	W15
T 16	15 20 57	20°46'38	4♌32	15°47	20°50	14°40	21°56	8°14	1°58	27°14	1°56	24°57	26° 8	25°18	n.a.	T 16
F 17	15 24 54	21°43'49	18°25	17°57	20°12	15°18	22° 9	8°12	2° 1	27°13	1°56	24°R58	26° 4	25°25	n.a.	F 17
S 18	15 28 50	22°40'59	1♍59	20° 8	19°35	15°57	22°22	8° 9	2° 5	27°11	1°57	24°57	26° 1	25°32	n.a.	S 18
S 19	15 32 47	23°38'08	15°15	22°20	18°58	16°35	22°35	8° 7	2° 8	27° 9	1°57	24°55	25°58	25°38	n.a.	S 19
M20	15 36 43	24°35'17	28°15	24°31	18°22	17°13	22°48	8° 4	2°11	27° 8	1°58	24°51	25°55	25°45	n.a.	M20
T 21	15 40 40	25°32'24	11♎ 1	26°43	17°46	17°51	23° 1	8° 2	2°15	27° 6	1°58	24°44	25°52	25°52	n.a.	T 21
W22	15 44 37	26°29'31	23°35	28°53	17°12	18°29	23°14	7°59	2°18	27° 4	1°58	24°36	25°48	25°58	n.a.	W22
T 23	15 48 33	27°26'38	5♏58	1♊ 4	16°39	19° 7	23°27	7°56	2°21	27° 3	1°59	24°26	25°45	26° 5	n.a.	T 23
F 24	15 52 30	28°23'45	18°11	3°13	16° 8	19°46	23°40	7°53	2°24	27° 1	1°59	24°15	25°42	26°12	n.a.	F 24
S 25	15 56 26	29°20'51	0♐16	5°21	15°38	20°24	23°53	7°50	2°27	27° 0	1°59	24° 6	25°39	26°18	n.a.	S 25
S 26	16 0 23	0♊17'57	12°13	7°28	15°10	21° 2	24° 5	7°47	2°31	26°58	1°59	23°58	25°36	26°25	n.a.	S 26
M27	16 4 19	1°15'02	24° 5	9°33	14°44	21°40	24°18	7°44	2°34	26°56	2° 0	23°51	25°33	26°32	n.a.	M27
T 28	16 8 16	2°12'08	5♋53	11°37	14°20	22°18	24°31	7°41	2°37	26°55	2° 0	23°47	25°29	26°38	n.a.	T 28
W29	16 12 12	3° 9'14	17°41	13°39	13°58	22°56	24°43	7°38	2°40	26°53	2° 0	23°46	25°26	26°45	n.a.	W29
T 30	16 16 9	4° 6'19	29°31	15°40	13°39	23°34	24°56	7°35	2°43	26°52	2° 0	23°D46	25°23	26°52	n.a.	T 30
F 31	16 20 6	5♊ 3'25	11♒29	17♊38	13♉22	24♊12	25♈ 8	7♋31	2♉46	26♏50	2♓ 0	23♋47	25♋20	26♐58	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	13n50	21s55	1n28	4n30	2s16	23n43	3n50	22n20	0n57	6n22	1s 4	23s22	0n 4	11n37	0s24	18s19	1n35	25s50	16s 2	21n10	21n 1	20s44			n.a.
T 2	14 9	21 36	0 27	5 16	2 9	23 31	3 42	22 27	0 57	6 27	1 4	23 22	0 3	11 39	0 24	18 19	1 35	25 50	16 2	21 11	21 1	20 45			n.a.
F 3	14 27	20 19	0s37	6 3	2 1	23 18	3 33	22 34	0 57	6 32	1 4	23 23	0 3	11 40	0 24	18 18	1 35	25 50	16 3	21 11	21 2	20 46			n.a.
S 4	14 46	18 4	1 39	6 51	1 52	23 5	3 24	22 41	0 58	6 37	1 4	23 23	0 3	11 41	0 24	18 18	1 35	25 50	16 3	21 11	21 3	20 47			n.a.
S 5	15 4	14 56	2 39	7 40	1 44	22 50	3 14	22 47	0 58	6 43	1 4	23 23	0 3	11 42	0 24	18 17	1 35	25 50	16 3	21 11	21 3	20 48			n.a.
M 6	15 22	11 1	3 33	8 29	1 34	22 34	3 4	22 54	0 58	6 48	1 4	23 23	0 3	11 44	0 24	18 17	1 35	25 50	16 4	21 11	21 4	20 49			n.a.
T 7	15 40	6 27	4 16	9 19	1 25	22 17	2 53	23 0	0 59	6 53	1 4	23 23	0 3	11 45	0 24	18 17	1 35	25 50	16 4	21 12	21 4	20 50			n.a.
W 8	15 58	1 24	4 47	10 10	1 15	21 59	2 42	23 7	0 59	6 58	1 4	23 23	0 3	11 46	0 24	18 16	1 35	25 50	16 4	21 14	21 5	20 51			n.a.
T 9	16 15	3n52	5 2	11 1	1 4	21 40	2 30	23 13	0 59	7 3	1 4	23 24	0 3	11 47	0 24	18 16	1 35	25 50	16 5	21 16	21 6	20 52			n.a.
F 10	16 32	9 4	4 57	11 53	0 54	21 20	2 18	23 18	0 59	7 8	1 4	23 24	0 3	11 48	0 24	18 16	1 35	25 50	16 5	21 18	21 6	20 53			n.a.
S 11	16 49	13 51	4 33	12 44	0 43	20 59	2 6	23 24	1 0	7 14	1 4	23 24	0 3	11 50	0 24	18 15	1 35	25 50	16 5	21 19	21 7	20 54			n.a.
S 12	17 6	17 48	3 49	13 36	0 32	20 38	1 53	23 30	1 0	7 19	1 4	23 24	0 3	11 51	0 24	18 15	1 35	25 50	16 6	21 21	21 8	20 55			n.a.
M13	17 22	20 34	2 50	14 27	0 21	20 16	1 40	23 35	1 0	7 24	1 4	23 24	0 3	11 52	0 24	18 15	1 35	25 51	16 6	21 22	21 8	20 56			n.a.
T 14	17 38	21 55	1 40	15 17	0 11	19 53	1 26	23 40	1 0	7 29	1 4	23 25	0 2	11 53	0 24	18 14	1 35	25 51	16 7	21 23	21 9	20 57			n.a.
W15	17 54	21 45	0 25	16 7	0n 0	19 30	1 13	23 45	1 1	7 34	1 4	23 25	0 2	11 54	0 24	18 14	1 35	25 51	16 7	21 23	21 9	20 58			n.a.
T 16	18 9	20 10	0n51	16 56	0 11	19 7	0 59	23 50	1 1	7 39	1 4	23 25	0 2	11 55	0 24	18 13	1 35	25 51	16 7	21 23	21 10	20 59			n.a.
F 17	18 24	17 24	2 2	17 43	0 21	18 43	0 45	23 54	1 1	7 44	1 4	23 25	0 2	11 57	0 24	18 13	1 35	25 51	16 8	21 23	21 11	21 0			n.a.
S 18	18 39	13 45	3 4	18 29	0 32	18 19	0 31	23 59	1 1	7 48	1 4	23 25	0 2	11 58	0 24	18 13	1 35	25 51	16 8	21 23	21 11	21 1			n.a.
S 19	18 54	9 29	3 55	19 14	0 41	17 56	0 17	24 3	1 2	7 53	1 5	23 26	0 2	11 59	0 24	18 12	1 35	25 52	16 8	21 23	21 12	21 2			n.a.
M20	19 8	4 52	4 33	19 56	0 51	17 32	0 3	24 7	1 2	7 58	1 5	23 26	0 2	12 0	0 24	18 12	1 35	25 52	16 9	21 24	21 12	21 3			n.a.
T 21	19 22	0 8	4 56	20 37	1 0	17 9	0s11	24 11	1 2	8 3	1 5	23 26	0 2	12 1	0 24	18 12	1 35	25 52	16 9	21 25	21 13	21 4			n.a.
W22	19 36	4s33	5 5	21 15	1 8	16 46	0 25	24 14	1 2	8 8	1 5	23 26	0 2	12 2	0 24	18 11	1 35	25 52	16 9	21 27	21 14	21 5			n.a.
T 23	19 49	8 58	4 59	21 51	1 16	16 24	0 38	24 18	1 2	8 13	1 5	23 27	0 2	12 4	0 24	18 11	1 35	25 52	16 10	21 29	21 14	21 6			n.a.
F 24	20 2	12 58	4 39	22 24	1 23	16 2	0 52	24 21	1 3	8 17	1 5	23 27	0 2	12 5	0 24	18 11	1 35	25 53	16 10	21 31	21 15	21 7			n.a.
S 25	20 14	16 25	4 7	22 55	1 30	15 41	1 4	24 24	1 3	8 22	1 5	23 27	0 1	12 6	0 24	18 10	1 35	25 53	16 11	21 32	21 15	21 8			n.a.
S 26	20 27	19 9	3 24	23 23	1 36	15 21	1 17	24 27	1 3	8 27	1 5	23 27	0 1	12 7	0 24	18 10	1 35	25 53	16 11	21 34	21 16	21 9			n.a.
M27	20 39	21 2	2 33	23 48	1 41	15 1	1 29	24 30	1 3	8 31	1 5	23 28	0 1	12 8	0 24	18 9	1 35	25 53	16 11	21 35	21 17	21 10			n.a.
T 28	20 50	22 0	1 35	24 11	1 46	14 43	1 41	24 33	1 3	8 36	1 5	23 28	0 1	12 9	0 24	18 9	1 35	25 54	16 12	21 35	21 17	21 11			n.a.
W29	21 2	21 59	0 33	24 31	1 50	14 25	1 53	24 35	1 4	8 41	1 5	23 28	0 1	12 10	0 24	18 9	1 35	25 54	16 12	21 36	21 18	21 12			n.a.
T 30	21 13	20 59	0s31	24 48	1 53	14 9	2 4	24 37	1 4	8 45	1 5	23 29	0 1	12 11	0 24	18 8	1 35	25 54	16 12	21 36	21 18	21 13			n.a.
F 31	21n23	19s 3	1s34	25n 3	1n55	13n54	2s14	24n39	1n 4	8n50	1s 5	23s29	0n 1	12n12	0s24	18s 8	1n35	25s54	16s13	21n36	21n19	21s14			n.a.

Julian Day Number = 1663103.5, Delta T = 03h24m39s
Ecliptic obliquity = 23°42'48, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°16'18, Lahiri = - 6°09'18 Julian Calendar 1 May 160 BCE == Greg. Calendar 28 Apr. 160 BCE

The year -159 astronomical counting style corresponds to year 160 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 160 BCE
geocentric

JUNE 160 BCE (-159) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 24 2	6♊ 0'31	23♒39	19♊34	13°R 7	24♊50	25♈20	7°R28	2♉49	26°R48	2♓ 0	23♋48	25♋17	27♐ 5	n.a.	S 1
S 2	16 27 59	6°57'38	6♓ 5	21°29	12♉55	25°28	25°33	7♑24	2°52	26♏47	2° 0	23°R49	25°14	27°12	n.a.	S 2
M 3	16 31 55	7°54'44	18°53	23°22	12°45	26° 7	25°45	7°21	2°55	26°45	2° 0	23°48	25°10	27°18	n.a.	M 3
T 4	16 35 52	8°51'51	2♈ 6	25°12	12°37	26°45	25°57	7°17	2°58	26°44	2° 1	23°46	25° 7	27°25	n.a.	T 4
W 5	16 39 48	9°48'58	15°48	27° 1	12°32	27°23	26° 9	7°14	3° 1	26°42	2°R 1	23°42	25° 4	27°32	n.a.	W 5
T 6	16 43 45	10°46'06	29°58	28°47	12°30	28° 1	26°21	7°10	3° 4	26°40	2° 1	23°36	25° 1	27°38	n.a.	T 6
F 7	16 47 41	11°43'14	14♉34	0♋32	12°D29	28°39	26°33	7° 6	3° 7	26°39	2° 0	23°30	24°58	27°45	n.a.	F 7
S 8	16 51 38	12°40'22	29°30	2°14	12°31	29°17	26°45	7° 2	3°10	26°37	2° 0	23°24	24°54	27°52	n.a.	S 8
S 9	16 55 35	13°37'31	14♊39	3°54	12°35	29°55	26°57	6°59	3°13	26°36	2° 0	23°19	24°51	27°58	n.a.	S 9
M10	16 59 31	14°34'40	29°50	5°33	12°41	0♋33	27° 8	6°55	3°16	26°34	2° 0	23°15	24°48	28° 5	n.a.	M10
T 11	17 3 28	15°31'50	14♋54	7° 9	12°50	1°11	27°20	6°51	3°19	26°33	2° 0	23°14	24°45	28°12	n.a.	T 11
W12	17 7 24	16°28'59	29°42	8°43	13° 1	1°49	27°31	6°47	3°21	26°31	2° 0	23°D14	24°42	28°18	n.a.	W12
T 13	17 11 21	17°26'09	14♌ 9	10°16	13°13	2°27	27°43	6°43	3°24	26°30	2° 0	23°15	24°39	28°25	n.a.	T 13
F 14	17 15 17	18°23'19	28°12	11°46	13°28	3° 5	27°54	6°39	3°27	26°28	2° 0	23°16	24°35	28°32	n.a.	F 14
S 15	17 19 14	19°20'28	11♍51	13°14	13°44	3°44	28° 5	6°34	3°30	26°27	1°59	23°17	24°32	28°38	n.a.	S 15
S 16	17 23 11	20°17'38	25° 7	14°40	14° 3	4°22	28°16	6°30	3°32	26°25	1°59	23°R17	24°29	28°45	n.a.	S 16
M17	17 27 7	21°14'49	8♎ 2	16° 3	14°23	5° 0	28°28	6°26	3°35	26°24	1°59	23°16	24°26	28°52	n.a.	M17
T 18	17 31 4	22°11'59	20°39	17°25	14°45	5°38	28°39	6°22	3°37	26°23	1°59	23°13	24°23	28°58	n.a.	T 18
W19	17 35 0	23° 9'10	3♏ 3	18°44	15° 9	6°16	28°49	6°18	3°40	26°21	1°58	23°10	24°20	29° 5	n.a.	W19
T 20	17 38 57	24° 6'21	15°14	20° 2	15°34	6°54	29° 0	6°13	3°42	26°20	1°58	23° 5	24°16	29°12	n.a.	T 20
F 21	17 42 53	25° 3'33	27°16	21°16	16° 1	7°32	29°11	6° 9	3°45	26°18	1°58	23° 0	24°13	29°18	n.a.	F 21
S 22	17 46 50	26° 0'45	9♐12	22°29	16°30	8°10	29°21	6° 5	3°47	26°17	1°57	22°56	24°10	29°25	n.a.	S 22
S 23	17 50 46	26°57'58	21° 4	23°39	16°59	8°48	29°32	6° 0	3°50	26°16	1°57	22°52	24° 7	29°32	n.a.	S 23
M24	17 54 43	27°55'11	2♑52	24°46	17°31	9°26	29°42	5°56	3°52	26°14	1°57	22°49	24° 4	29°38	n.a.	M24
T 25	17 58 40	28°52'26	14°41	25°51	18° 4	10° 4	29°53	5°52	3°55	26°13	1°56	22°48	24° 0	29°45	n.a.	T 25
W26	18 2 36	29°49'41	26°31	26°53	18°38	10°42	0♉ 3	5°47	3°57	26°12	1°56	22°D48	23°57	29°52	n.a.	W26
T 27	18 6 33	0♋46'57	8♒26	27°53	19°13	11°20	0°13	5°43	3°59	26°10	1°55	22°49	23°54	29°58	n.a.	T 27
F 28	18 10 29	1°44'14	20°29	28°49	19°50	11°58	0°23	5°38	4° 1	26° 9	1°55	22°50	23°51	0♑ 5	n.a.	F 28
S 29	18 14 26	2°41'32	2♓43	29°42	20°27	12°36	0°33	5°34	4° 4	26° 8	1°54	22°51	23°48	0°11	n.a.	S 29
S 30	18 18 22	3♋38'52	15♓11	0♌32	21♉ 6	13♋15	0♉42	5♑29	4♉ 6	26♏ 7	1♓54	22♋53	23♋45	0♑18	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n33	16s13	2s35	25n14	1n57	13n40	2s25	24n41	1n 4	8n54	1s 5	23s29	0n 1	12n13	0s24	18s 8	1n35	25s55	16s13	21n35	21n19	21s15		n.a.
S 2	21 43	12 37	3 29	25 24	1 58	13 27	2 34	24 42	1 4	8 59	1 5	23 29	0 1	12 14	0 24	18 7	1 35	25 55	16 14	21 35	21 20	21 16		n.a.
M 3	21 53	8 20	4 14	25 31	1 58	13 15	2 43	24 44	1 5	9 3	1 5	23 30	0 1	12 15	0 24	18 7	1 35	25 55	16 14	21 35	21 21	21 17		n.a.
T 4	22 2	3 33	4 48	25 35	1 58	13 4	2 52	24 45	1 5	9 7	1 5	23 30	0 1	12 16	0 24	18 7	1 35	25 56	16 14	21 36	21 21	21 17		n.a.
W 5	22 11	1n34	5 7	25 38	1 57	12 55	3 0	24 46	1 5	9 12	1 5	23 30	0 1	12 17	0 24	18 6	1 35	25 56	16 15	21 37	21 22	21 18		n.a.
T 6	22 19	6 47	5 8	25 38	1 56	12 47	3 8	24 47	1 5	9 16	1 5	23 31	0 0	12 18	0 24	18 6	1 35	25 56	16 15	21 37	21 22	21 19		n.a.
F 7	22 27	11 47	4 49	25 36	1 53	12 40	3 15	24 48	1 5	9 20	1 5	23 31	0 0	12 19	0 24	18 6	1 35	25 57	16 15	21 39	21 23	21 20		n.a.
S 8	22 35	16 12	4 11	25 32	1 51	12 34	3 22	24 48	1 5	9 25	1 6	23 31	0 0	12 20	0 24	18 5	1 35	25 57	16 16	21 40	21 24	21 21		n.a.
S 9	22 42	19 36	3 14	25 26	1 47	12 29	3 29	24 48	1 6	9 29	1 6	23 31	0 0	12 21	0 24	18 5	1 35	25 58	16 16	21 40	21 24	21 22		n.a.
M10	22 49	21 39	2 4	25 19	1 43	12 25	3 35	24 48	1 6	9 33	1 6	23 32	0 0	12 22	0 24	18 5	1 35	25 58	16 17	21 41	21 25	21 23		n.a.
T 11	22 55	22 7	0 45	25 10	1 39	12 22	3 40	24 48	1 6	9 37	1 6	23 32	0s 0	12 23	0 24	18 4	1 35	25 58	16 17	21 41	21 25	21 24		n.a.
W12	23 1	21 1	0n35	24 59	1 34	12 20	3 46	24 48	1 6	9 41	1 6	23 32	0 0	12 24	0 24	18 4	1 35	25 59	16 17	21 41	21 26	21 25		n.a.
T 13	23 7	18 33	1 52	24 47	1 28	12 20	3 50	24 48	1 6	9 45	1 6	23 33	0 0	12 25	0 24	18 4	1 35	25 59	16 18	21 41	21 26	21 25		n.a.
F 14	23 12	15 2	2 59	24 33	1 22	12 20	3 55	24 47	1 6	9 49	1 6	23 33	0 0	12 26	0 24	18 3	1 35	25 59	16 18	21 41	21 27	21 26		n.a.
S 15	23 17	10 48	3 55	24 18	1 16	12 21	3 59	24 46	1 6	9 53	1 6	23 33	0 0	12 27	0 24	18 3	1 35	26 0	16 18	21 41	21 28	21 27		n.a.
S 16	23 21	6 11	4 36	24 2	1 9	12 23	4 2	24 45	1 7	9 57	1 6	23 34	0 0	12 28	0 24	18 3	1 35	26 0	16 19	21 41	21 28	21 28		n.a.
M17	23 25	1 24	5 2	23 45	1 1	12 26	4 6	24 44	1 7	10 1	1 6	23 34	0 1	12 29	0 24	18 2	1 35	26 1	16 19	21 41	21 29	21 29		n.a.
T 18	23 29	3s20	5 12	23 27	0 53	12 29	4 9	24 42	1 7	10 5	1 6	23 34	0 1	12 30	0 24	18 2	1 34	26 1	16 20	21 41	21 29	21 30		n.a.
W19	23 32	7 51	5 8	23 7	0 45	12 34	4 11	24 41	1 7	10 9	1 6	23 34	0 1	12 31	0 24	18 2	1 34	26 2	16 20	21 42	21 30	21 31		n.a.
T 20	23 35	11 58	4 50	22 48	0 36	12 39	4 13	24 39	1 7	10 13	1 7	23 35	0 1	12 32	0 24	18 1	1 34	26 2	16 20	21 43	21 30	21 32		n.a.
F 21	23 37	15 34	4 19	22 27	0 27	12 45	4 15	24 37	1 7	10 16	1 7	23 35	0 1	12 32	0 24	18 1	1 34	26 3	16 21	21 44	21 31	21 32		n.a.
S 22	23 39	18 31	3 37	22 6	0 17	12 51	4 17	24 35	1 7	10 20	1 7	23 35	0 1	12 33	0 24	18 1	1 34	26 3	16 21	21 44	21 32	21 33		n.a.
S 23	23 41	20 39	2 46	21 44	0 7	12 58	4 19	24 32	1 7	10 24	1 7	23 36	0 1	12 34	0 24	18 1	1 34	26 3	16 21	21 45	21 32	21 34		n.a.
M24	23 42	21 53	1 48	21 22	0s 3	13 6	4 20	24 30	1 8	10 27	1 7	23 36	0 1	12 35	0 24	18 0	1 34	26 4	16 22	21 45	21 33	21 35		n.a.
T 25	23 42	22 9	0 45	21 0	0 13	13 14	4 21	24 27	1 8	10 31	1 7	23 36	0 1	12 36	0 24	18 0	1 34	26 4	16 22	21 46	21 33	21 36		n.a.
W26	23 43	21 26	0s21	20 37	0 24	13 23	4 21	24 24	1 8	10 34	1 7	23 37	0 1	12 36	0 24	18 0	1 34	26 5	16 22	21 46	21 34	21 36		n.a.
T 27	23 43	19 44	1 25	20 15	0 36	13 32	4 22	24 21	1 8	10 38	1 7	23 37	0 1	12 37	0 24	18 0	1 34	26 5	16 23	21 46	21 34	21 37		n.a.
F 28	23 42	17 9	2 27	19 52	0 47	13 42	4 22	24 18	1 8	10 41	1 7	23 37	0 2	12 38	0 24	17 59	1 34	26 6	16 23	21 45	21 35	21 38		n.a.
S 29	23 41	13 46	3 23	19 29	0 59	13 52	4 22	24 14	1 8	10 45	1 7	23 37	0 2	12 39	0 24	17 59	1 34	26 6	16 23	21 45	21 35	21 39		n.a.
S 30	23n40	9s45	4s11	19n 7	1s11	14n 2	4s21	24n11	1n 8	10n48	1s 8	23s38	0s 2	12n39	0s24	17s59	1n34	26s 7	16s24	21n45	21n36	21s40		n.a.

Julian Day Number = 1663134.5, Delta T = 03h24m38s
Ecliptic obliquity = 23°42'48, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°16'14, Lahiri = - 6°09'14 Julian Calendar 1 June 160 BCE == Greg. Calendar 29 May 160 BCE

The year -159 astronomical counting style corresponds to year 160 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 160 BCE
geocentric

JULY 160 BCE (-159) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 22 19	4♋36'12	27♓59	1♌19	21♉46	13♋53	0♉52	5°R25	4♉ 8	26°R 6	1°R53	22♋53	23♋41	0♑25	n.a.	M 1
T 2	18 26 15	5°33'34	11♈ 9	2° 3	22°27	14°31	1° 2	5♑20	4°10	26♏ 4	1♓53	22°R54	23°38	0°31	n.a.	T 2
W 3	18 30 12	6°30'57	24°43	2°42	23° 9	15° 9	1°11	5°16	4°12	26° 3	1°52	22°53	23°35	0°38	n.a.	W 3
T 4	18 34 9	7°28'21	8♉44	3°18	23°52	15°47	1°20	5°11	4°14	26° 2	1°52	22°51	23°32	0°45	n.a.	T 4
F 5	18 38 5	8°25'47	23°11	3°50	24°36	16°25	1°29	5° 7	4°16	26° 1	1°51	22°50	23°29	0°51	n.a.	F 5
S 6	18 42 2	9°23'15	7♊58	4°18	25°21	17° 3	1°39	5° 3	4°18	26° 0	1°50	22°48	23°26	0°58	n.a.	S 6
S 7	18 45 58	10°20'43	23° 2	4°41	26° 7	17°41	1°47	4°58	4°20	25°59	1°50	22°47	23°22	1° 5	n.a.	S 7
M 8	18 49 55	11°18'13	8♋13	5° 0	26°54	18°19	1°56	4°54	4°21	25°58	1°49	22°46	23°19	1°11	n.a.	M 8
T 9	18 53 51	12°15'44	23°21	5°14	27°41	18°58	2° 5	4°49	4°23	25°57	1°48	22°D46	23°16	1°18	n.a.	T 9
W10	18 57 48	13°13'16	8♌17	5°23	28°29	19°36	2°13	4°45	4°25	25°56	1°48	22°46	23°13	1°25	n.a.	W10
T 11	19 1 45	14°10'49	22°55	5°R26	29°18	20°14	2°22	4°41	4°27	25°55	1°47	22°47	23°10	1°31	n.a.	T 11
F 12	19 5 41	15° 8'24	7♍ 9	5°25	0♊ 8	20°52	2°30	4°36	4°28	25°54	1°46	22°47	23° 6	1°38	n.a.	F 12
S 13	19 9 38	16° 5'59	20°57	5°18	0°58	21°30	2°38	4°32	4°30	25°53	1°45	22°48	23° 3	1°45	n.a.	S 13
S 14	19 13 34	17° 3'35	4♎18	5° 5	1°49	22° 8	2°46	4°28	4°31	25°52	1°45	22°48	23° 0	1°51	n.a.	S 14
M15	19 17 31	18° 1'12	17°15	4°47	2°41	22°46	2°54	4°23	4°33	25°51	1°44	22°R48	22°57	1°58	n.a.	M15
T 16	19 21 27	18°58'51	29°51	4°24	3°33	23°25	3° 2	4°19	4°34	25°51	1°43	22°48	22°54	2° 5	n.a.	T 16
W17	19 25 24	19°56'30	12♏10	3°55	4°26	24° 3	3°10	4°15	4°36	25°50	1°42	22°48	22°51	2°11	n.a.	W17
T 18	19 29 20	20°54'11	24°16	3°21	5°20	24°41	3°17	4°11	4°37	25°49	1°41	22°48	22°47	2°18	n.a.	T 18
F 19	19 33 17	21°51'53	6♐12	2°42	6°14	25°19	3°24	4° 6	4°39	25°48	1°40	22°48	22°44	2°25	n.a.	F 19
S 20	19 37 13	22°49'37	18° 3	1°59	7° 8	25°57	3°31	4° 2	4°40	25°48	1°39	22°D48	22°41	2°31	n.a.	S 20
S 21	19 41 10	23°47'21	29°52	1°12	8° 3	26°36	3°38	3°58	4°41	25°47	1°39	22°48	22°38	2°38	n.a.	S 21
M22	19 45 7	24°45'08	11♑41	0°22	8°59	27°14	3°45	3°54	4°42	25°46	1°38	22°48	22°35	2°45	n.a.	M22
T 23	19 49 3	25°42'55	23°33	29♋30	9°55	27°52	3°52	3°50	4°43	25°46	1°37	22°R48	22°32	2°51	n.a.	T 23
W24	19 53 0	26°40'45	5♒30	28°37	10°52	28°30	3°59	3°46	4°44	25°45	1°36	22°48	22°28	2°58	n.a.	W24
T 25	19 56 56	27°38'36	17°34	27°43	11°49	29° 9	4° 5	3°42	4°46	25°45	1°35	22°47	22°25	3° 5	n.a.	T 25
F 26	20 0 53	28°36'28	29°48	26°51	12°47	29°47	4°11	3°39	4°47	25°44	1°34	22°47	22°22	3°11	n.a.	F 26
S 27	20 4 49	29°34'22	12♓13	26° 0	13°45	0♌25	4°17	3°35	4°47	25°44	1°33	22°46	22°19	3°18	n.a.	S 27
S 28	20 8 46	0♌32'19	24°51	25°12	14°43	1° 3	4°23	3°31	4°48	25°43	1°32	22°45	22°16	3°25	n.a.	S 28
M29	20 12 42	1°30'17	7♈45	24°29	15°42	1°42	4°29	3°27	4°49	25°43	1°31	22°44	22°12	3°31	n.a.	M29
T 30	20 16 39	2°28'17	20°56	23°51	16°41	2°20	4°35	3°24	4°50	25°42	1°30	22°44	22° 9	3°38	n.a.	T 30
W31	20 20 36	3♌26'19	4♉27	23♋18	17♊41	2♌58	4♉40	3♑20	4♉51	25♏42	1♓29	22°D43	22♋ 6	3♑44	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	23n38	5s12	4s47	18n45	1s23	14n13	4s21	24n 7	1n 8	10n51	1s 8	23s38	0s 2	12n40	0s24	17s59	1n34	26s 7	16s24	21n45	21n37	21s40			n.a.
T 2	23 36	0 17	5 10	18 23	1 35	14 24	4 20	24 3	1 8	10 54	1 8	23 38	0 2	12 41	0 24	17 58	1 34	26 8	16 24	21 45	21 37	21 41			n.a.
W 3	23 33	4n47	5 16	18 2	1 48	14 35	4 19	23 58	1 8	10 58	1 8	23 38	0 2	12 41	0 24	17 58	1 34	26 8	16 25	21 45	21 38	21 42			n.a.
T 4	23 30	9 46	5 4	17 41	2 0	14 47	4 18	23 54	1 9	11 1	1 8	23 39	0 2	12 42	0 24	17 58	1 34	26 9	16 25	21 45	21 38	21 43			n.a.
F 5	23 26	14 22	4 33	17 22	2 13	14 59	4 17	23 50	1 9	11 4	1 8	23 39	0 2	12 43	0 24	17 58	1 34	26 9	16 25	21 45	21 39	21 44			n.a.
S 6	23 23	18 13	3 44	17 3	2 26	15 11	4 16	23 45	1 9	11 7	1 8	23 39	0 2	12 43	0 24	17 57	1 34	26 10	16 26	21 46	21 39	21 44			n.a.
S 7	23 18	20 54	2 38	16 45	2 38	15 23	4 14	23 40	1 9	11 10	1 8	23 40	0 2	12 44	0 24	17 57	1 34	26 10	16 26	21 46	21 40	21 45			n.a.
M 8	23 14	22 8	1 20	16 28	2 51	15 36	4 12	23 35	1 9	11 13	1 8	23 40	0 3	12 45	0 24	17 57	1 34	26 11	16 26	21 46	21 40	21 46			n.a.
T 9	23 8	21 43	0n 3	16 13	3 3	15 48	4 10	23 30	1 9	11 16	1 9	23 40	0 3	12 45	0 24	17 57	1 34	26 12	16 27	21 46	21 41	21 47			n.a.
W10	23 3	19 46	1 25	15 59	3 15	16 1	4 8	23 24	1 9	11 19	1 9	23 40	0 3	12 46	0 24	17 57	1 34	26 12	16 27	21 46	21 41	21 47			n.a.
T 11	22 57	16 33	2 40	15 47	3 27	16 14	4 6	23 18	1 9	11 21	1 9	23 41	0 3	12 46	0 24	17 56	1 34	26 13	16 27	21 46	21 42	21 48			n.a.
F 12	22 51	12 25	3 42	15 37	3 38	16 26	4 4	23 13	1 9	11 24	1 9	23 41	0 3	12 47	0 24	17 56	1 34	26 13	16 27	21 46	21 43	21 49			n.a.
S 13	22 44	7 45	4 30	15 28	3 49	16 39	4 1	23 7	1 9	11 27	1 9	23 41	0 3	12 47	0 24	17 56	1 33	26 14	16 28	21 46	21 43	21 50			n.a.
S 14	22 37	2 52	5 1	15 21	3 59	16 52	3 59	23 1	1 9	11 30	1 9	23 41	0 3	12 48	0 24	17 56	1 33	26 14	16 28	21 46	21 44	21 50			n.a.
M15	22 29	1s59	5 16	15 17	4 8	17 5	3 56	22 54	1 9	11 32	1 9	23 42	0 3	12 49	0 24	17 56	1 33	26 15	16 28	21 46	21 44	21 51			n.a.
T 16	22 21	6 38	5 15	15 14	4 16	17 17	3 53	22 48	1 9	11 35	1 9	23 42	0 3	12 49	0 24	17 56	1 33	26 15	16 28	21 46	21 45	21 52			n.a.
W17	22 13	10 54	5 0	15 14	4 23	17 30	3 50	22 41	1 9	11 37	1 10	23 42	0 3	12 49	0 24	17 56	1 33	26 16	16 29	21 46	21 45	21 53			n.a.
T 18	22 4	14 40	4 31	15 16	4 29	17 42	3 47	22 34	1 9	11 40	1 10	23 42	0 3	12 50	0 24	17 55	1 33	26 17	16 29	21 46	21 46	21 53			n.a.
F 19	21 55	17 48	3 51	15 21	4 33	17 55	3 44	22 27	1 9	11 42	1 10	23 42	0 3	12 50	0 24	17 55	1 33	26 17	16 29	21 46	21 46	21 54			n.a.
S 20	21 45	20 10	3 1	15 28	4 36	18 7	3 41	22 20	1 10	11 44	1 10	23 43	0 4	12 51	0 24	17 55	1 33	26 18	16 30	21 46	21 47	21 55			n.a.
S 21	21 36	21 39	2 4	15 37	4 37	18 19	3 38	22 13	1 10	11 47	1 10	23 43	0 4	12 51	0 24	17 55	1 33	26 18	16 30	21 46	21 47	21 55			n.a.
M22	21 25	22 10	1 1	15 48	4 37	18 31	3 34	22 5	1 10	11 49	1 10	23 43	0 4	12 52	0 24	17 55	1 33	26 19	16 30	21 46	21 48	21 56			n.a.
T 23	21 15	21 42	0s 4	16 1	4 34	18 43	3 31	21 58	1 10	11 51	1 10	23 43	0 4	12 52	0 24	17 55	1 33	26 19	16 30	21 46	21 48	21 57			n.a.
W24	21 4	20 15	1 10	16 16	4 30	18 55	3 27	21 50	1 10	11 53	1 11	23 43	0 4	12 52	0 24	17 55	1 33	26 20	16 30	21 46	21 49	21 57			n.a.
T 25	20 52	17 51	2 13	16 33	4 23	19 6	3 23	21 42	1 10	11 55	1 11	23 44	0 4	12 53	0 24	17 55	1 33	26 20	16 31	21 46	21 49	21 58			n.a.
F 26	20 40	14 39	3 11	16 52	4 15	19 17	3 20	21 34	1 10	11 57	1 11	23 44	0 4	12 53	0 24	17 55	1 33	26 21	16 31	21 46	21 50	21 59			n.a.
S 27	20 28	10 46	4 1	17 11	4 5	19 28	3 16	21 26	1 10	11 59	1 11	23 44	0 4	12 53	0 24	17 55	1 33	26 22	16 31	21 46	21 51	22 0			n.a.
S 28	20 16	6 21	4 41	17 31	3 53	19 39	3 12	21 17	1 10	12 1	1 11	23 44	0 4	12 54	0 24	17 55	1 33	26 22	16 31	21 46	21 51	22 0			n.a.
M29	20 3	1 35	5 6	17 52	3 40	19 49	3 8	21 9	1 10	12 3	1 11	23 44	0 4	12 54	0 24	17 54	1 33	26 23	16 32	21 46	21 52	22 1			n.a.
T 30	19 50	3n22	5 17	18 13	3 25	19 59	3 4	21 0	1 10	12 4	1 11	23 45	0 4	12 54	0 24	17 54	1 33	26 23	16 32	21 46	21 52	22 1			n.a.
W31	19n37	8n17	5s11	18n34	3s 9	20n 9	3s 0	20n51	1n10	12n 6	1s12	23s45	0s 5	12n54	0s24	17s54	1n33	26s24	16s32	21n46	21n53	22s 2			n.a.

Julian Day Number = 1663164.5, Delta T = 03h24m37s
Ecliptic obliquity = 23°42'48, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°16'10, Lahiri = - 6°09'10 Julian Calendar 1 July 160 BCE == Greg. Calendar 28 June 160 BCE

The year -159 astronomical counting style corresponds to year 160 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 160 BCE
geocentric

AUGUST 160 BCE (-159) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 24 32	4♌24'23	18♉18	22°R53	18♊41	3♌37	4♉45	3°R17	4♉51	25°R42	1°R28	22♋44	22♋ 3	3♏51	n.a.	T 1
F 2	20 28 29	5°22'29	2♊30	22♋35	19°42	4°15	4°51	3♏13	4°52	25♏41	1♓27	22°44	22° 0	3°58	n.a.	F 2
S 3	20 32 25	6°20'38	17° 0	22°24	20°43	4°53	4°55	3°10	4°53	25°41	1°26	22°45	21°57	4° 4	n.a.	S 3
S 4	20 36 22	7°18'48	1♋46	22°D23	21°44	5°32	5° 0	3° 7	4°53	25°41	1°25	22°46	21°53	4°11	n.a.	S 4
M 5	20 40 18	8°17'01	16°41	22°29	22°45	6°10	5° 5	3° 3	4°54	25°40	1°24	22°R47	21°50	4°18	n.a.	M 5
T 6	20 44 15	9°15'15	1♌38	22°45	23°47	6°48	5° 9	3° 0	4°54	25°40	1°22	22°47	21°47	4°24	n.a.	T 6
W 7	20 48 11	10°13'32	16°30	23° 9	24°49	7°27	5°13	2°57	4°55	25°40	1°21	22°46	21°44	4°31	n.a.	W 7
T 8	20 52 8	11°11'50	1♍ 8	23°41	25°52	8° 5	5°18	2°54	4°55	25°40	1°20	22°44	21°41	4°38	n.a.	T 8
F 9	20 56 5	12°10'10	15°26	24°22	26°55	8°44	5°21	2°51	4°55	25°40	1°19	22°42	21°37	4°44	n.a.	F 9
S 10	21 0 1	13° 8'31	29°19	25°11	27°58	9°22	5°25	2°48	4°55	25°40	1°18	22°39	21°34	4°51	n.a.	S 10
S 11	21 3 58	14° 6'55	12♎46	26° 8	29° 1	10° 0	5°29	2°45	4°56	25°D40	1°17	22°36	21°31	4°58	n.a.	S 11
M12	21 7 54	15° 5'20	25°48	27°12	0♋ 5	10°39	5°32	2°43	4°56	25°40	1°16	22°34	21°28	5° 4	n.a.	M12
T 13	21 11 51	16° 3'47	8♏27	28°22	1° 9	11°17	5°35	2°40	4°56	25°40	1°15	22°33	21°25	5°11	n.a.	T 13
W14	21 15 47	17° 2'15	20°46	29°39	2°13	11°56	5°38	2°38	4°R56	25°40	1°13	22°D33	21°22	5°18	n.a.	W14
T 15	21 19 44	18° 0'45	2♐51	1♌ 2	3°17	12°34	5°41	2°35	4°56	25°40	1°12	22°34	21°18	5°24	n.a.	T 15
F 16	21 23 40	18°59'18	14°45	2°29	4°22	13°13	5°43	2°33	4°56	25°40	1°11	22°35	21°15	5°31	n.a.	F 16
S 17	21 27 37	19°57'51	26°34	4° 1	5°27	13°51	5°46	2°30	4°56	25°40	1°10	22°37	21°12	5°38	n.a.	S 17
S 18	21 31 34	20°56'27	8♑22	5°37	6°32	14°30	5°48	2°28	4°55	25°41	1° 9	22°38	21° 9	5°44	n.a.	S 18
M19	21 35 30	21°55'05	20°13	7°16	7°38	15° 9	5°50	2°26	4°55	25°41	1° 8	22°R39	21° 6	5°51	n.a.	M19
T 20	21 39 27	22°53'44	2♒11	8°58	8°44	15°47	5°52	2°24	4°55	25°41	1° 6	22°39	21° 3	5°58	n.a.	T 20
W21	21 43 23	23°52'26	14°18	10°43	9°49	16°26	5°53	2°22	4°55	25°41	1° 5	22°37	20°59	6° 4	n.a.	W21
T 22	21 47 20	24°51'09	26°36	12°29	10°56	17° 4	5°55	2°20	4°54	25°42	1° 4	22°34	20°56	6°11	n.a.	T 22
F 23	21 51 16	25°49'54	9♓ 6	14°16	12° 2	17°43	5°56	2°18	4°54	25°42	1° 3	22°29	20°53	6°17	n.a.	F 23
S 24	21 55 13	26°48'42	21°49	16° 5	13° 9	18°22	5°57	2°17	4°53	25°43	1° 2	22°23	20°50	6°24	n.a.	S 24
S 25	21 59 9	27°47'32	4♈46	17°55	14°15	19° 0	5°58	2°15	4°53	25°43	1° 0	22°17	20°47	6°31	n.a.	S 25
M26	22 3 6	28°46'24	17°55	19°45	15°23	19°39	5°58	2°14	4°52	25°43	0°59	22°12	20°43	6°37	n.a.	M26
T 27	22 7 2	29°45'18	1♉17	21°35	16°30	20°18	5°59	2°12	4°52	25°44	0°58	22° 7	20°40	6°44	n.a.	T 27
W28	22 10 59	0♍44'15	14°53	23°25	17°37	20°56	5°59	2°11	4°51	25°44	0°57	22° 4	20°37	6°51	n.a.	W28
T 29	22 14 56	1°43'15	28°41	25°15	18°45	21°35	5°R59	2°10	4°50	25°45	0°56	22°D 3	20°34	6°57	n.a.	T 29
F 30	22 18 52	2°42'16	12♊43	27° 5	19°53	22°14	5°59	2° 9	4°50	25°46	0°54	22° 3	20°31	7° 4	n.a.	F 30
S 31	22 22 49	3♍41'21	26♊56	28♌54	21♋ 1	22♌52	5♉58	2♏ 8	4♉49	25♏46	0♓53	22♋ 5	20♋28	7♏11	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	19n23	12n54	4s46	18n55	2s52	20n18	2s56	20n42	1n10	12n 8	1s12	23s45	0s 5	12n55	0s24	17s54	1n32	26s24	16s32	21n46	21n53	22s 3			n.a.
F 2	19 9	16 55	4 4	19 15	2 35	20 27	2 52	20 33	1 10	12 9	1 12	23 45	0 5	12 55	0 24	17 54	1 32	26 25	16 32	21 46	21 54	22 3			n.a.
S 3	18 54	20 0	3 6	19 34	2 17	20 36	2 48	20 23	1 10	12 11	1 12	23 45	0 5	12 55	0 24	17 54	1 32	26 26	16 33	21 46	21 54	22 4			n.a.
S 4	18 39	21 48	1 54	19 53	1 59	20 44	2 43	20 14	1 10	12 12	1 12	23 45	0 5	12 55	0 24	17 54	1 32	26 26	16 33	21 46	21 55	22 5			n.a.
M 5	18 24	22 6	0 34	20 10	1 41	20 52	2 39	20 4	1 10	12 14	1 12	23 46	0 5	12 55	0 24	17 54	1 32	26 27	16 33	21 46	21 55	22 5			n.a.
T 6	18 9	20 49	0n49	20 25	1 23	20 59	2 35	19 54	1 10	12 15	1 12	23 46	0 5	12 55	0 24	17 54	1 32	26 27	16 33	21 46	21 56	22 6			n.a.
W 7	17 53	18 6	2 7	20 38	1 5	21 6	2 30	19 45	1 10	12 16	1 13	23 46	0 5	12 56	0 24	17 54	1 32	26 28	16 33	21 46	21 56	22 7			n.a.
T 8	17 37	14 15	3 16	20 50	0 47	21 13	2 26	19 35	1 10	12 18	1 13	23 46	0 5	12 56	0 24	17 54	1 32	26 28	16 33	21 46	21 57	22 7			n.a.
F 9	17 21	9 40	4 11	20 59	0 30	21 19	2 22	19 24	1 10	12 19	1 13	23 46	0 5	12 56	0 24	17 54	1 32	26 29	16 33	21 47	21 57	22 8			n.a.
S 10	17 4	4 42	4 50	21 6	0 14	21 25	2 17	19 14	1 10	12 20	1 13	23 46	0 5	12 56	0 24	17 54	1 32	26 29	16 34	21 47	21 58	22 8			n.a.
S 11	16 47	0s20	5 11	21 11	0n 1	21 30	2 13	19 4	1 10	12 21	1 13	23 47	0 5	12 56	0 24	17 55	1 32	26 30	16 34	21 48	21 58	22 9			n.a.
M12	16 30	5 12	5 15	21 13	0 15	21 35	2 8	18 53	1 10	12 22	1 13	23 47	0 6	12 56	0 24	17 55	1 32	26 31	16 34	21 48	21 59	22 10			n.a.
T 13	16 12	9 42	5 3	21 12	0 29	21 39	2 4	18 42	1 10	12 23	1 13	23 47	0 6	12 56	0 24	17 55	1 32	26 31	16 34	21 48	21 59	22 10			n.a.
W14	15 54	13 41	4 38	21 8	0 41	21 43	1 59	18 31	1 10	12 24	1 14	23 47	0 6	12 56	0 24	17 55	1 32	26 32	16 34	21 48	22 0	22 11			n.a.
T 15	15 36	17 2	4 1	21 1	0 53	21 46	1 55	18 20	1 10	12 24	1 14	23 47	0 6	12 56	0 24	17 55	1 32	26 32	16 34	21 48	22 0	22 11			n.a.
F 16	15 18	19 37	3 14	20 51	1 3	21 48	1 50	18 9	1 10	12 25	1 14	23 47	0 6	12 56	0 24	17 55	1 32	26 33	16 34	21 48	22 1	22 12			n.a.
S 17	15 0	21 22	2 19	20 38	1 12	21 51	1 46	17 58	1 9	12 26	1 14	23 47	0 6	12 56	0 24	17 55	1 32	26 33	16 34	21 48	22 1	22 13			n.a.
S 18	14 41	22 9	1 18	20 23	1 20	21 52	1 41	17 47	1 9	12 26	1 14	23 47	0 6	12 56	0 24	17 55	1 31	26 34	16 34	21 47	22 2	22 13			n.a.
M19	14 22	21 57	0 13	20 4	1 27	21 53	1 36	17 35	1 9	12 27	1 14	23 48	0 6	12 56	0 24	17 55	1 31	26 34	16 34	21 47	22 2	22 14			n.a.
T 20	14 2	20 45	0s52	19 43	1 34	21 54	1 32	17 23	1 9	12 27	1 15	23 48	0 6	12 56	0 24	17 55	1 31	26 35	16 35	21 47	22 3	22 14			n.a.
W21	13 43	18 34	1 56	19 20	1 39	21 54	1 27	17 12	1 9	12 28	1 15	23 48	0 6	12 55	0 24	17 55	1 31	26 35	16 35	21 48	22 3	22 15			n.a.
T 22	13 23	15 32	2 55	18 54	1 43	21 53	1 23	17 0	1 9	12 28	1 15	23 48	0 6	12 55	0 24	17 56	1 31	26 36	16 35	21 48	22 4	22 15			n.a.
F 23	13 3	11 45	3 47	18 26	1 46	21 52	1 18	16 48	1 9	12 28	1 15	23 48	0 6	12 55	0 24	17 56	1 31	26 36	16 35	21 49	22 4	22 16			n.a.
S 24	12 43	7 23	4 28	17 55	1 49	21 50	1 14	16 36	1 9	12 29	1 15	23 48	0 7	12 55	0 24	17 56	1 31	26 37	16 35	21 50	22 5	22 16			n.a.
S 25	12 23	2 37	4 57	17 23	1 50	21 47	1 9	16 23	1 9	12 29	1 15	23 48	0 7	12 55	0 24	17 56	1 31	26 37	16 35	21 51	22 5	22 17			n.a.
M26	12 2	2n20	5 10	16 49	1 51	21 45	1 5	16 11	1 9	12 29	1 15	23 48	0 7	12 55	0 24	17 56	1 31	26 38	16 35	21 52	22 6	22 17			n.a.
T 27	11 41	7 16	5 7	16 13	1 51	21 41	1 0	15 59	1 9	12 29	1 16	23 48	0 7	12 54	0 24	17 56	1 31	26 38	16 35	21 52	22 6	22 18			n.a.
W28	11 20	11 55	4 47	15 36	1 50	21 37	0 56	15 46	1 9	12 29	1 16	23 49	0 7	12 54	0 24	17 57	1 31	26 39	16 35	21 53	22 7	22 18			n.a.
T 29	10 59	16 2	4 10	14 58	1 49	21 32	0 52	15 33	1 9	12 29	1 16	23 49	0 7	12 54	0 25	17 57	1 31	26 39	16 35	21 53	22 7	22 19			n.a.
F 30	10 38	19 19	3 18	14 18	1 48	21 27	0 47	15 21	1 9	12 28	1 16	23 49	0 7	12 54	0 25	17 57	1 31	26 40	16 35	21 53	22 8	22 19			n.a.
S 31	10n16	21n28	2s12	13n38	1n45	21n21	0s43	15n 8	1n 9	12n28	1s16	23s49	0s 7	12n53	0s25	17s57	1n31	26s40	16s35	21n53	22n 8	22s20			n.a.

Julian Day Number = 1663195.5, Delta T = 03h24m36s
Ecliptic obliquity = 23°42'49, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°16'06, Lahiri = - 6°09'05 Julian Calendar 1 Aug. 160 BCE == Greg. Calendar 29 July 160 BCE

The year -159 astronomical counting style corresponds to year 160 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 160 BCE
geocentric

SEPTEMBER 160 BCE (-159) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 26 45	4♍40'27	11♋19	0♍43	22♋ 9	23♌31	5°R58	2°R 7	4°R48	25♏47	0°R52	22♋ 6	20♋24	7♑17	n.a.	S 1
M 2	22 30 42	5°39'36	25°51	2°31	23°17	24°10	5♉57	2♑ 6	4♉47	25°48	0♓51	22°R 6	20°21	7°24	n.a.	M 2
T 3	22 34 38	6°38'48	10♌25	4°19	24°26	24°49	5°56	2° 5	4°46	25°48	0°50	22° 5	20°18	7°31	n.a.	T 3
W 4	22 38 35	7°38'02	24°57	6° 6	25°35	25°28	5°55	2° 5	4°45	25°49	0°48	22° 1	20°15	7°37	n.a.	W 4
T 5	22 42 31	8°37'18	9♍21	7°52	26°44	26° 7	5°54	2° 4	4°44	25°50	0°47	21°56	20°12	7°44	n.a.	T 5
F 6	22 46 28	9°36'36	23°30	9°37	27°53	26°45	5°52	2° 4	4°43	25°51	0°46	21°48	20° 9	7°51	n.a.	F 6
S 7	22 50 25	10°35'56	7♎20	11°22	29° 2	27°24	5°50	2° 3	4°42	25°52	0°45	21°40	20° 5	7°57	n.a.	S 7
S 8	22 54 21	11°35'18	20°47	13° 6	0♌11	28° 3	5°48	2° 3	4°40	25°52	0°44	21°32	20° 2	8° 4	n.a.	S 8
M 9	22 58 18	12°34'42	3♏50	14°49	1°21	28°42	5°46	2° 3	4°39	25°53	0°42	21°24	19°59	8°10	n.a.	M 9
T 10	23 2 14	13°34'08	16°31	16°31	2°31	29°21	5°44	2°D 3	4°38	25°54	0°41	21°19	19°56	8°17	n.a.	T 10
W11	23 6 11	14°33'36	28°51	18°13	3°40	0♍ 0	5°41	2° 3	4°37	25°55	0°40	21°15	19°53	8°24	n.a.	W11
T 12	23 10 7	15°33'05	10♐56	19°54	4°50	0°39	5°38	2° 3	4°35	25°56	0°39	21°D14	19°49	8°30	n.a.	T 12
F 13	23 14 4	16°32'37	22°50	21°34	6° 0	1°18	5°35	2° 4	4°34	25°57	0°38	21°14	19°46	8°37	n.a.	F 13
S 14	23 18 0	17°32'11	4♑39	23°13	7°11	1°57	5°32	2° 4	4°32	25°58	0°37	21°15	19°43	8°44	n.a.	S 14
S 15	23 21 57	18°31'46	16°28	24°52	8°21	2°36	5°29	2° 4	4°31	26° 0	0°36	21°R16	19°40	8°50	n.a.	S 15
M16	23 25 54	19°31'24	28°21	26°30	9°32	3°15	5°25	2° 5	4°29	26° 1	0°34	21°16	19°37	8°57	n.a.	M16
T 17	23 29 50	20°31'03	10♒24	28° 7	10°42	3°54	5°21	2° 6	4°28	26° 2	0°33	21°14	19°34	9° 4	n.a.	T 17
W18	23 33 47	21°30'44	22°40	29°43	11°53	4°33	5°17	2° 6	4°26	26° 3	0°32	21° 9	19°30	9°10	n.a.	W18
T 19	23 37 43	22°30'27	5♓12	1♎19	13° 4	5°12	5°13	2° 7	4°24	26° 4	0°31	21° 2	19°27	9°17	n.a.	T 19
F 20	23 41 40	23°30'12	18° 0	2°55	14°15	5°51	5° 9	2° 8	4°23	26° 6	0°30	20°53	19°24	9°24	n.a.	F 20
S 21	23 45 36	24°29'59	1♈ 5	4°30	15°26	6°31	5° 5	2° 9	4°21	26° 7	0°29	20°42	19°21	9°30	n.a.	S 21
S 22	23 49 33	25°29'48	14°25	6° 4	16°37	7°10	5° 0	2°11	4°19	26° 8	0°28	20°31	19°18	9°37	n.a.	S 22
M23	23 53 29	26°29'40	27°59	7°37	17°49	7°49	4°55	2°12	4°17	26° 9	0°27	20°20	19°14	9°44	n.a.	M23
T 24	23 57 26	27°29'33	11♉43	9°10	19° 0	8°28	4°50	2°13	4°16	26°11	0°26	20°11	19°11	9°50	n.a.	T 24
W25	0 1 22	28°29'29	25°35	10°43	20°12	9° 7	4°45	2°15	4°14	26°12	0°25	20° 4	19° 8	9°57	n.a.	W25
T 26	0 5 19	29°29'27	9♊32	12°15	21°24	9°47	4°40	2°16	4°12	26°14	0°24	20° 0	19° 5	10° 3	n.a.	T 26
F 27	0 9 16	0♎29'28	23°34	13°46	22°36	10°26	4°34	2°18	4°10	26°15	0°23	19°59	19° 2	10°10	n.a.	F 27
S 28	0 13 12	1°29'31	7♋39	15°17	23°48	11° 5	4°28	2°20	4° 8	26°17	0°22	19°D59	18°59	10°17	n.a.	S 28
S 29	0 17 9	2°29'36	21°47	16°47	25° 0	11°45	4°23	2°22	4° 6	26°18	0°21	19°R59	18°55	10°23	n.a.	S 29
M30	0 21 5	3♎29'43	5♌55	18♎17	26♌12	12♍24	4♉17	2♑24	4♉ 4	26♏20	0♓20	19♋58	18♋52	10♑30	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n54	22n15	0s58	12n56	1n43	21n14	0s39	14n55	1n 9	12n28	1s16	23s49	0s 7	12n53	0s25	17s57	1n31	26s41	16s35	21n53	22n 9	22s20		n.a.
M 2	9 32	21 33	0n20	12 14	1 39	21 7	0 34	14 42	1 8	12 27	1 16	23 49	0 7	12 53	0 25	17 58	1 31	26 41	16 35	21 53	22 9	22 21		n.a.
T 3	9 10	19 24	1 38	11 31	1 36	20 59	0 30	14 28	1 8	12 27	1 17	23 49	0 7	12 52	0 25	17 58	1 31	26 41	16 35	21 53	22 10	22 21		n.a.
W 4	8 48	15 59	2 48	10 48	1 32	20 51	0 26	14 15	1 8	12 26	1 17	23 49	0 7	12 52	0 25	17 58	1 30	26 42	16 35	21 53	22 10	22 22		n.a.
T 5	8 26	11 39	3 47	10 4	1 27	20 42	0 22	14 2	1 8	12 26	1 17	23 49	0 7	12 52	0 25	17 58	1 30	26 42	16 35	21 54	22 11	22 22		n.a.
F 6	8 3	6 45	4 31	9 20	1 23	20 32	0 17	13 48	1 8	12 25	1 17	23 49	0 8	12 51	0 25	17 59	1 30	26 43	16 35	21 56	22 11	22 23		n.a.
S 7	7 41	1 37	4 58	8 35	1 18	20 22	0 13	13 34	1 8	12 24	1 17	23 49	0 8	12 51	0 25	17 59	1 30	26 43	16 35	21 57	22 11	22 23		n.a.
S 8	7 18	3s28	5 7	7 50	1 13	20 11	0 9	13 21	1 8	12 24	1 17	23 50	0 8	12 50	0 25	17 59	1 30	26 43	16 35	21 58	22 12	22 24		n.a.
M 9	6 55	8 14	5 0	7 5	1 7	20 0	0 5	13 7	1 8	12 23	1 17	23 50	0 8	12 50	0 25	17 59	1 30	26 44	16 35	21 59	22 12	22 24		n.a.
T 10	6 32	12 31	4 38	6 19	1 2	19 48	0 1	12 53	1 8	12 22	1 18	23 50	0 8	12 50	0 25	18 0	1 30	26 44	16 35	22 0	22 13	22 25		n.a.
W11	6 9	16 10	4 4	5 34	0 56	19 36	0n 3	12 39	1 8	12 21	1 18	23 50	0 8	12 49	0 25	18 0	1 30	26 45	16 34	22 1	22 13	22 25		n.a.
T 12	5 46	19 3	3 19	4 49	0 50	19 23	0 6	12 25	1 7	12 20	1 18	23 50	0 8	12 49	0 25	18 0	1 30	26 45	16 34	22 1	22 14	22 26		n.a.
F 13	5 22	21 5	2 27	4 3	0 44	19 9	0 10	12 11	1 7	12 19	1 18	23 50	0 8	12 48	0 25	18 1	1 30	26 45	16 34	22 1	22 14	22 26		n.a.
S 14	4 59	22 10	1 28	3 18	0 37	18 55	0 14	11 57	1 7	12 18	1 18	23 50	0 8	12 48	0 25	18 1	1 30	26 46	16 34	22 1	22 15	22 26		n.a.
S 15	4 35	22 16	0 26	2 32	0 31	18 40	0 18	11 42	1 7	12 16	1 18	23 50	0 8	12 47	0 25	18 1	1 30	26 46	16 34	22 1	22 15	22 27		n.a.
M16	4 12	21 21	0s38	1 47	0 25	18 25	0 21	11 28	1 7	12 15	1 18	23 50	0 8	12 47	0 25	18 2	1 30	26 46	16 34	22 1	22 16	22 27		n.a.
T 17	3 48	19 27	1 41	1 2	0 18	18 9	0 25	11 14	1 7	12 14	1 18	23 50	0 8	12 46	0 25	18 2	1 30	26 47	16 34	22 1	22 16	22 28		n.a.
W18	3 24	16 38	2 40	0 17	0 11	17 53	0 28	10 59	1 7	12 12	1 18	23 50	0 8	12 45	0 25	18 2	1 30	26 47	16 34	22 2	22 17	22 28		n.a.
T 19	3 0	13 0	3 32	0s28	0 5	17 36	0 32	10 44	1 7	12 11	1 19	23 50	0 8	12 45	0 25	18 3	1 30	26 47	16 34	22 3	22 17	22 29		n.a.
F 20	2 36	8 42	4 15	1 12	0s 2	17 18	0 35	10 30	1 6	12 9	1 19	23 50	0 9	12 44	0 25	18 3	1 30	26 48	16 33	22 4	22 18	22 29		n.a.
S 21	2 13	3 55	4 46	1 56	0 9	17 0	0 38	10 15	1 6	12 8	1 19	23 50	0 9	12 44	0 25	18 3	1 30	26 48	16 33	22 6	22 18	22 29		n.a.
S 22	1 49	1n 8	5 1	2 40	0 16	16 42	0 42	10 0	1 6	12 6	1 19	23 50	0 9	12 43	0 25	18 4	1 29	26 48	16 33	22 8	22 18	22 30		n.a.
M23	1 25	6 12	5 0	3 24	0 22	16 23	0 45	9 45	1 6	12 4	1 19	23 50	0 9	12 42	0 25	18 4	1 29	26 48	16 33	22 9	22 19	22 30		n.a.
T 24	1 0	11 3	4 42	4 7	0 29	16 3	0 48	9 30	1 6	12 3	1 19	23 50	0 9	12 42	0 25	18 4	1 29	26 49	16 33	22 11	22 19	22 31		n.a.
W25	0 36	15 22	4 7	4 50	0 36	15 43	0 51	9 15	1 6	12 1	1 19	23 51	0 9	12 41	0 25	18 5	1 29	26 49	16 33	22 12	22 20	22 31		n.a.
T 26	0 12	18 53	3 17	5 33	0 43	15 23	0 54	9 0	1 6	11 59	1 19	23 51	0 9	12 41	0 25	18 5	1 29	26 49	16 33	22 12	22 20	22 31		n.a.
F 27	0s12	21 18	2 15	6 15	0 49	15 2	0 57	8 45	1 5	11 57	1 19	23 51	0 9	12 40	0 25	18 5	1 29	26 49	16 32	22 12	22 21	22 32		n.a.
S 28	0 36	22 24	1 5	6 57	0 56	14 41	1 0	8 30	1 5	11 55	1 19	23 51	0 9	12 39	0 25	18 6	1 29	26 50	16 32	22 12	22 21	22 32		n.a.
S 29	1 0	22 5	0n10	7 38	1 2	14 19	1 2	8 14	1 5	11 53	1 19	23 51	0 9	12 39	0 25	18 6	1 29	26 50	16 32	22 12	22 22	22 32		n.a.
M30	1s24	20n21	1n24	8s18	1s 9	13n57	1n 5	7n59	1n 5	11n51	1s19	23s51	0s 9	12n38	0s25	18s 7	1n29	26s50	16s32	22n13	22n22	22s33		n.a.

Julian Day Number = 1663226.5, Delta T = 03h24m35s
Ecliptic obliquity = 23°42'49, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°16'02, Lahiri = - 6°09'01 Julian Calendar 1 Sept. 160 BCE == Greg. Calendar 29 Aug. 160 BCE

The year -159 astronomical counting style corresponds to year 160 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 160 BCE
geocentric

OCTOBER 160 BCE (-159) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 25 2	4♎29'53	20♌ 4	19♎46	27♌24	13♍ 3	4°R10	2♑26	4°R 2	26♏21	0°R19	19°R55	18♋49	10♑37	n.a.	T 1
W 2	0 28 58	5°30'05	4♍10	21°15	28°37	13°43	4♉ 4	2°28	4♉ 0	26°23	0♓18	19♋49	18°46	10°43	n.a.	W 2
T 3	0 32 55	6°30'18	18° 9	22°43	29°49	14°22	3°58	2°30	3°57	26°24	0°17	19°40	18°43	10°50	n.a.	T 3
F 4	0 36 51	7°30'34	1♎57	24°11	1♍ 2	15° 2	3°51	2°33	3°55	26°26	0°16	19°29	18°40	10°57	n.a.	F 4
S 5	0 40 48	8°30'52	15°31	25°38	2°14	15°41	3°45	2°35	3°53	26°28	0°15	19°16	18°36	11° 3	n.a.	S 5
S 6	0 44 45	9°31'11	28°48	27° 4	3°27	16°20	3°38	2°38	3°51	26°29	0°14	19° 3	18°33	11°10	n.a.	S 6
M 7	0 48 41	10°31'32	11♏45	28°30	4°40	17° 0	3°31	2°40	3°49	26°31	0°13	18°51	18°30	11°17	n.a.	M 7
T 8	0 52 38	11°31'55	24°22	29°55	5°53	17°39	3°24	2°43	3°46	26°33	0°12	18°41	18°27	11°23	n.a.	T 8
W 9	0 56 34	12°32'20	6♐41	1♏19	7° 6	18°19	3°17	2°46	3°44	26°34	0°11	18°34	18°24	11°30	n.a.	W 9
T 10	1 0 31	13°32'46	18°46	2°43	8°19	18°59	3° 9	2°49	3°42	26°36	0°11	18°30	18°20	11°37	n.a.	T 10
F 11	1 4 27	14°33'14	0♑39	4° 6	9°32	19°38	3° 2	2°52	3°39	26°38	0°10	18°28	18°17	11°43	n.a.	F 11
S 12	1 8 24	15°33'43	12°28	5°27	10°45	20°18	2°55	2°55	3°37	26°40	0° 9	18°27	18°14	11°50	n.a.	S 12
S 13	1 12 20	16°34'14	24°16	6°48	11°59	20°57	2°47	2°58	3°35	26°42	0° 8	18°27	18°11	11°56	n.a.	S 13
M14	1 16 17	17°34'46	6♒10	8° 8	13°12	21°37	2°39	3° 2	3°32	26°43	0° 7	18°27	18° 8	12° 3	n.a.	M14
T 15	1 20 14	18°35'19	18°14	9°26	14°25	22°17	2°32	3° 5	3°30	26°45	0° 7	18°24	18° 5	12°10	n.a.	T 15
W16	1 24 10	19°35'54	0♓35	10°43	15°39	22°56	2°24	3° 8	3°28	26°47	0° 6	18°19	18° 1	12°16	n.a.	W16
T 17	1 28 7	20°36'30	13°15	11°58	16°53	23°36	2°16	3°12	3°25	26°49	0° 5	18°11	17°58	12°23	n.a.	T 17
F 18	1 32 3	21°37'08	26°16	13°12	18° 6	24°16	2° 8	3°16	3°23	26°51	0° 5	18° 1	17°55	12°30	n.a.	F 18
S 19	1 36 0	22°37'47	9♈39	14°23	19°20	24°55	2° 0	3°19	3°20	26°53	0° 4	17°49	17°52	12°36	n.a.	S 19
S 20	1 39 56	23°38'27	23°23	15°32	20°34	25°35	1°52	3°23	3°18	26°55	0° 3	17°36	17°49	12°43	n.a.	S 20
M21	1 43 53	24°39'09	7♉23	16°38	21°47	26°15	1°44	3°27	3°15	26°57	0° 3	17°23	17°45	12°50	n.a.	M21
T 22	1 47 49	25°39'53	21°34	17°42	23° 1	26°55	1°36	3°31	3°13	26°59	0° 2	17°13	17°42	12°56	n.a.	T 22
W23	1 51 46	26°40'38	5♊52	18°42	24°15	27°35	1°28	3°35	3°10	27° 1	0° 2	17° 5	17°39	13° 3	n.a.	W23
T 24	1 55 42	27°41'25	20°11	19°38	25°29	28°15	1°20	3°39	3° 8	27° 3	0° 1	17° 0	17°36	13°10	n.a.	T 24
F 25	1 59 39	28°42'13	4♋27	20°30	26°43	28°54	1°12	3°44	3° 5	27° 5	0° 0	16°58	17°33	13°16	n.a.	F 25
S 26	2 3 36	29°43'03	18°38	21°17	27°57	29°34	1° 3	3°48	3° 3	27° 7	29♒59	16°D57	17°30	13°23	n.a.	S 26
S 27	2 7 32	0♏43'55	2♌43	21°59	29°12	0♎14	0°55	3°52	3° 0	27° 9	29°59	16°R57	17°26	13°30	n.a.	S 27
M28	2 11 29	1°44'49	16°40	22°34	0♎26	0°54	0°47	3°57	2°58	27°11	29°59	16°57	17°23	13°36	n.a.	M28
T 29	2 15 25	2°45'43	0♍30	23° 2	1°40	1°34	0°39	4° 1	2°55	27°13	29°58	16°54	17°20	13°43	n.a.	T 29
W30	2 19 22	3°46'40	14°11	23°22	2°54	2°14	0°31	4° 6	2°53	27°15	29°58	16°48	17°17	13°49	n.a.	W30
T 31	2 23 18	4♏47'37	27♍44	23♏34	4♎ 9	2♎54	0♉22	4♑11	2♉50	27♏17	29♒58	16♋40	17♋14	13♑56	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	1s48	17n22	2n32	8s59	1s15	13n34	1n 8	7n44	1n 5	11n49	1s19	23s51	0s 9	12n37	0s25	18s 7	1n29	26s50	16s32	22n13	22n23	22s33			n.a.
W 2	2 13	13 22	3 31	9 38	1 22	13 11	1 10	7 28	1 4	11 47	1 19	23 51	0 9	12 36	0 25	18 7	1 29	26 50	16 31	22 14	22 23	22 33			n.a.
T 3	2 37	8 40	4 17	10 17	1 28	12 48	1 13	7 12	1 4	11 44	1 19	23 51	0 9	12 36	0 25	18 8	1 29	26 50	16 31	22 15	22 23	22 34			n.a.
F 4	3 1	3 36	4 47	10 56	1 34	12 24	1 15	6 57	1 4	11 42	1 19	23 51	0 9	12 35	0 25	18 8	1 29	26 51	16 31	22 17	22 24	22 34			n.a.
S 5	3 25	1s34	5 0	11 34	1 40	12 0	1 17	6 41	1 4	11 40	1 19	23 51	0 10	12 34	0 25	18 9	1 29	26 51	16 31	22 19	22 24	22 34			n.a.
S 6	3 49	6 33	4 56	12 11	1 45	11 35	1 19	6 26	1 4	11 37	1 19	23 51	0 10	12 33	0 25	18 9	1 29	26 51	16 31	22 21	22 25	22 35			n.a.
M 7	4 13	11 8	4 37	12 47	1 51	11 10	1 21	6 10	1 4	11 35	1 19	23 51	0 10	12 33	0 25	18 10	1 29	26 51	16 30	22 22	22 25	22 35			n.a.
T 8	4 37	15 7	4 5	13 23	1 56	10 45	1 23	5 54	1 3	11 33	1 19	23 51	0 10	12 32	0 25	18 10	1 29	26 51	16 30	22 24	22 26	22 35			n.a.
W 9	5 1	18 21	3 22	13 58	2 1	10 19	1 25	5 38	1 3	11 30	1 20	23 51	0 10	12 31	0 25	18 10	1 29	26 51	16 30	22 25	22 26	22 36			n.a.
T 10	5 24	20 44	2 30	14 32	2 6	9 53	1 27	5 22	1 3	11 28	1 19	23 51	0 10	12 30	0 25	18 11	1 29	26 51	16 30	22 25	22 26	22 36			n.a.
F 11	5 48	22 10	1 33	15 5	2 11	9 27	1 29	5 7	1 3	11 25	1 19	23 51	0 10	12 29	0 25	18 11	1 29	26 51	16 29	22 25	22 27	22 36			n.a.
S 12	6 12	22 36	0 32	15 37	2 15	9 1	1 31	4 51	1 2	11 23	1 19	23 51	0 10	12 29	0 25	18 12	1 29	26 51	16 29	22 26	22 27	22 36			n.a.
S 13	6 35	22 1	0s31	16 8	2 19	8 34	1 32	4 35	1 2	11 20	1 19	23 51	0 10	12 28	0 25	18 12	1 29	26 51	16 29	22 26	22 28	22 37			n.a.
M14	6 59	20 26	1 32	16 38	2 23	8 7	1 34	4 19	1 2	11 17	1 19	23 51	0 10	12 27	0 25	18 13	1 28	26 51	16 29	22 26	22 28	22 37			n.a.
T 15	7 22	17 55	2 31	17 6	2 26	7 39	1 35	4 3	1 2	11 15	1 19	23 51	0 10	12 26	0 25	18 13	1 28	26 52	16 28	22 26	22 29	22 37			n.a.
W16	7 45	14 33	3 23	17 34	2 29	7 12	1 36	3 46	1 2	11 12	1 19	23 51	0 10	12 25	0 25	18 14	1 28	26 52	16 28	22 27	22 29	22 38			n.a.
T 17	8 8	10 27	4 7	18 0	2 32	6 44	1 38	3 30	1 1	11 10	1 19	23 51	0 10	12 25	0 25	18 14	1 28	26 52	16 28	22 28	22 30	22 38			n.a.
F 18	8 31	5 46	4 39	18 25	2 34	6 16	1 39	3 14	1 1	11 7	1 19	23 51	0 10	12 24	0 25	18 15	1 28	26 52	16 28	22 29	22 30	22 38			n.a.
S 19	8 54	0 41	4 57	18 48	2 35	5 48	1 40	2 58	1 1	11 4	1 19	23 51	0 10	12 23	0 25	18 15	1 28	26 52	16 27	22 31	22 30	22 38			n.a.
S 20	9 17	4n33	4 59	19 10	2 36	5 19	1 41	2 42	1 1	11 1	1 19	23 51	0 11	12 22	0 25	18 16	1 28	26 52	16 27	22 33	22 31	22 39			n.a.
M21	9 39	9 41	4 43	19 30	2 37	4 51	1 42	2 26	1 0	10 59	1 19	23 51	0 11	12 21	0 25	18 16	1 28	26 51	16 27	22 34	22 31	22 39			n.a.
T 22	10 2	14 22	4 9	19 48	2 36	4 22	1 42	2 9	1 0	10 56	1 19	23 51	0 11	12 20	0 25	18 17	1 28	26 51	16 26	22 35	22 32	22 39			n.a.
W23	10 24	18 16	3 19	20 4	2 35	3 53	1 43	1 53	1 0	10 53	1 19	23 51	0 11	12 19	0 25	18 17	1 28	26 51	16 26	22 37	22 32	22 39			n.a.
T 24	10 46	21 4	2 17	20 18	2 33	3 24	1 44	1 37	1 0	10 50	1 19	23 51	0 11	12 19	0 25	18 18	1 28	26 51	16 26	22 37	22 32	22 39			n.a.
F 25	11 8	22 33	1 6	20 30	2 30	2 55	1 44	1 21	0 59	10 48	1 19	23 50	0 11	12 18	0 25	18 18	1 28	26 51	16 25	22 37	22 33	22 40			n.a.
S 26	11 30	22 33	0n 9	20 39	2 27	2 25	1 45	1 4	0 59	10 45	1 19	23 50	0 11	12 17	0 25	18 19	1 28	26 51	16 25	22 37	22 33	22 40			n.a.
S 27	11 52	21 7	1 23	20 45	2 22	1 56	1 45	0 48	0 59	10 42	1 18	23 50	0 11	12 16	0 25	18 19	1 28	26 51	16 25	22 37	22 34	22 40			n.a.
M28	12 13	18 25	2 31	20 48	2 16	1 26	1 46	0 32	0 58	10 39	1 18	23 50	0 11	12 15	0 25	18 20	1 28	26 51	16 25	22 38	22 34	22 40			n.a.
T 29	12 34	14 41	3 29	20 49	2 8	0 57	1 46	0 15	0 58	10 37	1 18	23 50	0 11	12 14	0 25	18 20	1 28	26 51	16 24	22 38	22 35	22 40			n.a.
W30	12 55	10 12	4 15	20 46	2 0	0 27	1 46	0s 1	0 58	10 34	1 18	23 50	0 11	12 13	0 25	18 21	1 28	26 51	16 24	22 39	22 35	22 41			n.a.
T 31	13s16	5n16	4n46	20s39	1s50	0s 3	1n46	0s17	0n58	10n31	1s18	23s50	0s11	12n13	0s25	18s21	1n28	26s51	16s24	22n40	22n35	22s41			n.a.

Julian Day Number = 1663256.5, Delta T = 03h24m34s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°15'57, Lahiri = - 6°08'57 Julian Calendar 1 Oct. 160 BCE == Greg. Calendar 28 Sept. 160 BCE

The year -159 astronomical counting style corresponds to year 160 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 160 BCE
geocentric

NOVEMBER 160 BCE (-159) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 27 15	5♏48'36	11♎ 7	23°R36	5♎23	3♎34	0°R14	4♑15	2°R48	27♏20	29°R57	16°R29	17♋11	14♑ 3	n.a.	F 1
S 2	2 31 11	6°49'37	24°18	23♏28	6°38	4°14	0♉ 6	4°20	2♉45	27°22	29♒57	16♋17	17° 7	14° 9	n.a.	S 2
S 3	2 35 8	7°50'38	7♏15	23°10	7°52	4°54	29♈58	4°25	2°43	27°24	29°57	16° 4	17° 4	14°16	n.a.	S 3
M 4	2 39 5	8°51'41	19°58	22°40	9° 7	5°35	29°50	4°30	2°40	27°26	29°56	15°52	17° 1	14°23	n.a.	M 4
T 5	2 43 1	9°52'45	2♐25	21°59	10°21	6°15	29°42	4°35	2°38	27°28	29°56	15°42	16°58	14°29	n.a.	T 5
W 6	2 46 58	10°53'49	14°38	21° 7	11°36	6°55	29°34	4°40	2°35	27°30	29°56	15°35	16°55	14°36	n.a.	W 6
T 7	2 50 54	11°54'54	26°39	20° 5	12°50	7°35	29°26	4°45	2°33	27°33	29°55	15°30	16°51	14°43	n.a.	T 7
F 8	2 54 51	12°56'01	8♑31	18°55	14° 5	8°15	29°19	4°51	2°30	27°35	29°55	15°28	16°48	14°49	n.a.	F 8
S 9	2 58 47	13°57'07	20°18	17°37	15°20	8°56	29°11	4°56	2°28	27°37	29°55	15°D28	16°45	14°56	n.a.	S 9
S 10	3 2 44	14°58'15	2♒ 5	16°16	16°34	9°36	29° 3	5° 1	2°25	27°39	29°55	15°29	16°42	15° 3	n.a.	S 10
M11	3 6 41	15°59'23	13°58	14°53	17°49	10°16	28°56	5° 7	2°23	27°41	29°55	15°R30	16°39	15° 9	n.a.	M11
T 12	3 10 37	17° 0'31	26° 1	13°31	19° 4	10°56	28°48	5°12	2°20	27°44	29°54	15°29	16°36	15°16	n.a.	T 12
W13	3 14 34	18° 1'40	8♓20	12°14	20°19	11°37	28°41	5°18	2°18	27°46	29°54	15°27	16°32	15°22	n.a.	W13
T 14	3 18 30	19° 2'49	21° 0	11° 2	21°33	12°17	28°34	5°24	2°15	27°48	29°54	15°22	16°29	15°29	n.a.	T 14
F 15	3 22 27	20° 3'58	4♈ 4	9°59	22°48	12°57	28°27	5°29	2°13	27°50	29°54	15°15	16°26	15°36	n.a.	F 15
S 16	3 26 23	21° 5'08	17°34	9° 6	24° 3	13°38	28°20	5°35	2°11	27°53	29°54	15° 7	16°23	15°42	n.a.	S 16
S 17	3 30 20	22° 6'19	1♉30	8°24	25°18	14°18	28°13	5°41	2° 8	27°55	29°D54	14°58	16°20	15°49	n.a.	S 17
M18	3 34 16	23° 7'29	15°49	7°52	26°33	14°59	28° 6	5°47	2° 6	27°57	29°54	14°49	16°17	15°56	n.a.	M18
T 19	3 38 13	24° 8'41	0♊24	7°32	27°48	15°39	28° 0	5°53	2° 4	27°59	29°54	14°41	16°13	16° 2	n.a.	T 19
W20	3 42 10	25° 9'53	15° 9	7°D22	29° 3	16°19	27°53	5°59	2° 2	28° 2	29°54	14°36	16°10	16° 9	n.a.	W20
T 21	3 46 6	26°11'05	29°55	7°22	0♏18	17° 0	27°47	6° 5	1°59	28° 4	29°54	14°33	16° 7	16°16	n.a.	T 21
F 22	3 50 3	27°12'18	14♋36	7°32	1°33	17°40	27°41	6°11	1°57	28° 6	29°54	14°D32	16° 4	16°22	n.a.	F 22
S 23	3 53 59	28°13'32	29° 7	7°50	2°48	18°21	27°34	6°17	1°55	28° 9	29°55	14°32	16° 1	16°29	n.a.	S 23
S 24	3 57 56	29°14'46	13♌23	8°17	4° 3	19° 2	27°29	6°23	1°53	28°11	29°55	14°34	15°57	16°36	n.a.	S 24
M25	4 1 52	0♐16'01	27°24	8°50	5°18	19°42	27°23	6°29	1°51	28°13	29°55	14°R34	15°54	16°42	n.a.	M25
T 26	4 5 49	1°17'16	11♍ 8	9°29	6°33	20°23	27°17	6°36	1°48	28°15	29°55	14°34	15°51	16°49	n.a.	T 26
W27	4 9 45	2°18'32	24°38	10°15	7°48	21° 3	27°12	6°42	1°46	28°18	29°55	14°32	15°48	16°56	n.a.	W27
T 28	4 13 42	3°19'48	7♎52	11° 5	9° 3	21°44	27° 6	6°48	1°44	28°20	29°56	14°27	15°45	17° 2	n.a.	T 28
F 29	4 17 39	4°21'04	20°53	11°59	10°18	22°25	27° 1	6°55	1°42	28°22	29°56	14°21	15°42	17° 9	n.a.	F 29
S 30	4 21 35	5♐22'21	3♏41	12♏58	11♏33	23♎ 5	26♈56	7♑ 1	1♉40	28♏24	29♒56	14♋14	15♋38	17♑15	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13s37	0n 9	5n 1	20s28	1s38	0s33	1n46	0s34	0n57	10n28	1s18	23s50	0s11	12n12	0s25	18s22	1n28	26s50	16s23	22n41	22n36	22s41		n.a.
S 2	13 57	4s54	4 59	20 14	1 25	1 3	1 46	0 50	0 57	10 26	1 18	23 50	0 11	12 11	0 25	18 22	1 28	26 50	16 23	22 43	22 36	22 41		n.a.
S 3	14 17	9 39	4 42	19 55	1 11	1 33	1 46	1 6	0 57	10 23	1 18	23 50	0 11	12 10	0 25	18 23	1 28	26 50	16 23	22 44	22 37	22 41		n.a.
M 4	14 37	13 54	4 11	19 31	0 54	2 2	1 45	1 23	0 56	10 20	1 17	23 50	0 11	12 9	0 25	18 23	1 28	26 50	16 22	22 45	22 37	22 42		n.a.
T 5	14 57	17 29	3 28	19 4	0 37	2 32	1 45	1 39	0 56	10 18	1 17	23 50	0 12	12 8	0 25	18 24	1 28	26 50	16 22	22 47	22 37	22 42		n.a.
W 6	15 16	20 13	2 37	18 32	0 18	3 2	1 45	1 55	0 56	10 15	1 17	23 49	0 12	12 7	0 25	18 24	1 28	26 49	16 22	22 48	22 38	22 42		n.a.
T 7	15 35	22 1	1 39	17 56	0n 2	3 32	1 44	2 12	0 55	10 12	1 17	23 49	0 12	12 7	0 25	18 25	1 28	26 49	16 21	22 48	22 38	22 42		n.a.
F 8	15 54	22 49	0 37	17 17	0 22	4 2	1 43	2 28	0 55	10 10	1 17	23 49	0 12	12 6	0 25	18 25	1 28	26 49	16 21	22 48	22 39	22 42		n.a.
S 9	16 12	22 35	0s26	16 36	0 43	4 32	1 43	2 44	0 55	10 7	1 17	23 49	0 12	12 5	0 25	18 26	1 28	26 49	16 21	22 48	22 39	22 42		n.a.
S 10	16 31	21 21	1 28	15 53	1 3	5 1	1 42	3 1	0 54	10 5	1 16	23 49	0 12	12 4	0 25	18 26	1 28	26 49	16 20	22 48	22 39	22 42		n.a.
M11	16 49	19 10	2 27	15 11	1 22	5 31	1 41	3 17	0 54	10 2	1 16	23 49	0 12	12 3	0 25	18 27	1 28	26 48	16 20	22 48	22 40	22 42		n.a.
T 12	17 6	16 7	3 20	14 29	1 40	6 0	1 40	3 33	0 54	10 0	1 16	23 49	0 12	12 2	0 25	18 27	1 28	26 48	16 20	22 48	22 40	22 43		n.a.
W13	17 24	12 19	4 5	13 50	1 57	6 30	1 39	3 50	0 53	9 57	1 16	23 48	0 12	12 2	0 24	18 28	1 28	26 48	16 19	22 48	22 41	22 43		n.a.
T 14	17 41	7 53	4 39	13 14	2 11	6 59	1 38	4 6	0 53	9 55	1 15	23 48	0 12	12 1	0 24	18 28	1 28	26 47	16 19	22 49	22 41	22 43		n.a.
F 15	17 58	2 57	5 1	12 43	2 23	7 28	1 37	4 22	0 53	9 52	1 15	23 48	0 12	12 0	0 24	18 29	1 28	26 47	16 19	22 50	22 41	22 43		n.a.
S 16	18 14	2n16	5 6	12 16	2 33	7 57	1 36	4 38	0 52	9 50	1 15	23 48	0 12	11 59	0 24	18 29	1 28	26 47	16 18	22 51	22 42	22 43		n.a.
S 17	18 30	7 33	4 54	11 55	2 41	8 26	1 35	4 54	0 52	9 48	1 15	23 48	0 12	11 58	0 24	18 30	1 28	26 47	16 18	22 52	22 42	22 43		n.a.
M18	18 46	12 34	4 23	11 40	2 47	8 54	1 34	5 11	0 51	9 46	1 15	23 47	0 12	11 58	0 24	18 31	1 28	26 46	16 17	22 53	22 43	22 43		n.a.
T 19	19 1	16 58	3 35	11 30	2 50	9 23	1 32	5 27	0 51	9 43	1 14	23 47	0 12	11 57	0 24	18 31	1 28	26 46	16 17	22 54	22 43	22 43		n.a.
W20	19 16	20 22	2 32	11 25	2 52	9 51	1 31	5 43	0 51	9 41	1 14	23 47	0 12	11 56	0 24	18 32	1 28	26 46	16 17	22 54	22 43	22 43		n.a.
T 21	19 31	22 25	1 18	11 25	2 53	10 19	1 29	5 59	0 50	9 39	1 14	23 47	0 13	11 55	0 24	18 32	1 28	26 45	16 16	22 55	22 44	22 43		n.a.
F 22	19 46	22 55	0n 0	11 29	2 51	10 46	1 28	6 15	0 50	9 37	1 14	23 47	0 13	11 54	0 24	18 33	1 28	26 45	16 16	22 55	22 44	22 43		n.a.
S 23	20 0	21 51	1 18	11 37	2 49	11 14	1 26	6 31	0 49	9 35	1 13	23 46	0 13	11 54	0 24	18 33	1 28	26 44	16 16	22 55	22 44	22 44		n.a.
S 24	20 13	19 23	2 30	11 49	2 46	11 41	1 25	6 47	0 49	9 33	1 13	23 46	0 13	11 53	0 24	18 34	1 28	26 44	16 15	22 54	22 45	22 44		n.a.
M25	20 26	15 49	3 31	12 3	2 41	12 8	1 23	7 3	0 49	9 32	1 13	23 46	0 13	11 52	0 24	18 34	1 28	26 44	16 15	22 54	22 45	22 44		n.a.
T 26	20 39	11 27	4 19	12 21	2 36	12 35	1 21	7 18	0 48	9 30	1 13	23 46	0 13	11 52	0 24	18 35	1 28	26 43	16 15	22 54	22 46	22 44		n.a.
W27	20 52	6 37	4 52	12 40	2 31	13 1	1 19	7 34	0 48	9 28	1 12	23 45	0 13	11 51	0 24	18 35	1 28	26 43	16 14	22 55	22 46	22 44		n.a.
T 28	21 4	1 33	5 8	13 2	2 25	13 27	1 18	7 50	0 47	9 26	1 12	23 45	0 13	11 50	0 24	18 36	1 28	26 42	16 14	22 55	22 46	22 44		n.a.
F 29	21 15	3s29	5 8	13 25	2 18	13 53	1 16	8 6	0 47	9 25	1 12	23 45	0 13	11 49	0 24	18 36	1 28	26 42	16 14	22 56	22 47	22 44		n.a.
S 30	21s27	8s18	4n52	13s50	2n11	14s18	1n14	8s21	0n46	9n23	1s11	23s45	0s13	11n49	0s24	18s37	1n28	26s42	16s13	22n57	22n47	22s44		n.a.

Julian Day Number = 1663287.5, Delta T = 03h24m33s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°15'53, Lahiri = - 6°08'53 Julian Calendar 1 Nov. 160 BCE == Greg. Calendar 29 Oct. 160 BCE

The year -159 astronomical counting style corresponds to year 160 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 160 BCE
geocentric

DECEMBER 160 BCE (-159) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 25 32	6♐23'38	16♏17	14♏ 0	12♏48	23♎46	26°R52	7♑ 8	1°R38	28♏27	29♒56	14°R 7	15♋35	17♑22	n.a.	S 1
M 2	4 29 28	7°24'55	28°42	15° 5	14° 3	24°27	26♈47	7°14	1♉36	28°29	29°57	14♋ 0	15°32	17°29	n.a.	M 2
T 3	4 33 25	8°26'12	10♐55	16°13	15°18	25° 8	26°43	7°21	1°35	28°31	29°57	13°55	15°29	17°35	n.a.	T 3
W 4	4 37 21	9°27'29	22°59	17°23	16°33	25°49	26°38	7°27	1°33	28°33	29°58	13°51	15°26	17°42	n.a.	W 4
T 5	4 41 18	10°28'45	4♑54	18°35	17°48	26°29	26°34	7°34	1°31	28°36	29°58	13°49	15°23	17°49	n.a.	T 5
F 6	4 45 14	11°30'02	16°43	19°49	19° 3	27°10	26°31	7°41	1°29	28°38	29°58	13°D48	15°19	17°55	n.a.	F 6
S 7	4 49 11	12°31'18	28°29	21° 5	20°19	27°51	26°27	7°47	1°27	28°40	29°59	13°49	15°16	18° 2	n.a.	S 7
S 8	4 53 8	13°32'34	10♒16	22°23	21°34	28°32	26°24	7°54	1°26	28°42	29°59	13°51	15°13	18° 9	n.a.	S 8
M 9	4 57 4	14°33'49	22° 8	23°42	22°49	29°13	26°20	8° 1	1°24	28°45	29°59	13°53	15°10	18°15	n.a.	M 9
T 10	5 1 1	15°35'03	4♓ 9	25° 2	24° 4	29°54	26°17	8° 8	1°22	28°47	0♓ 0	13°54	15° 7	18°22	n.a.	T 10
W11	5 4 57	16°36'17	16°25	26°23	25°19	0♏35	26°14	8°15	1°21	28°49	0° 1	13°R55	15° 3	18°29	n.a.	W11
T 12	5 8 54	17°37'30	29° 0	27°46	26°34	1°16	26°12	8°21	1°19	28°51	0° 2	13°54	15° 0	18°35	n.a.	T 12
F 13	5 12 50	18°38'42	11♈59	29° 9	27°49	1°57	26° 9	8°28	1°18	28°53	0° 2	13°52	14°57	18°42	n.a.	F 13
S 14	5 16 47	19°39'54	25°24	0♐33	29° 4	2°38	26° 7	8°35	1°16	28°55	0° 3	13°50	14°54	18°48	n.a.	S 14
S 15	5 20 43	20°41'04	9♉18	1°58	0♐19	3°19	26° 5	8°42	1°15	28°58	0° 3	13°46	14°51	18°55	n.a.	S 15
M16	5 24 40	21°42'14	23°38	3°24	1°35	4° 0	26° 3	8°49	1°14	29° 0	0° 4	13°43	14°48	19° 2	n.a.	M16
T 17	5 28 37	22°43'24	8♊22	4°51	2°50	4°41	26° 2	8°56	1°12	29° 2	0° 5	13°40	14°44	19° 8	n.a.	T 17
W18	5 32 33	23°44'32	23°22	6°18	4° 5	5°22	26° 0	9° 3	1°11	29° 4	0° 5	13°38	14°41	19°15	n.a.	W18
T 19	5 36 30	24°45'40	8♋29	7°46	5°20	6° 3	25°59	9°10	1°10	29° 6	0° 6	13°D37	14°38	19°22	n.a.	T 19
F 20	5 40 26	25°46'48	23°34	9°15	6°35	6°44	25°58	9°17	1° 9	29° 8	0° 7	13°37	14°35	19°28	n.a.	F 20
S 21	5 44 23	26°47'54	8♌29	10°44	7°50	7°25	25°57	9°24	1° 7	29°10	0° 8	13°38	14°32	19°35	n.a.	S 21
S 22	5 48 19	27°49'00	23° 7	12°14	9° 5	8° 6	25°56	9°31	1° 6	29°12	0° 9	13°40	14°29	19°42	n.a.	S 22
M23	5 52 16	28°50'06	7♍23	13°44	10°20	8°47	25°56	9°38	1° 5	29°14	0° 9	13°41	14°25	19°48	n.a.	M23
T 24	5 56 13	29°51'11	21°17	15°16	11°35	9°29	25°D56	9°46	1° 4	29°16	0°10	13°41	14°22	19°55	n.a.	T 24
W25	6 0 9	0♑52'15	4♎47	16°47	12°50	10°10	25°56	9°53	1° 3	29°18	0°11	13°R42	14°19	20° 2	n.a.	W25
T 26	6 4 6	1°53'18	17°56	18°20	14° 6	10°51	25°56	10° 0	1° 2	29°20	0°12	13°41	14°16	20° 8	n.a.	T 26
F 27	6 8 2	2°54'21	0♏45	19°53	15°21	11°32	25°56	10° 7	1° 2	29°22	0°13	13°40	14°13	20°15	n.a.	F 27
S 28	6 11 59	3°55'23	13°18	21°27	16°36	12°14	25°57	10°14	1° 1	29°24	0°14	13°39	14° 9	20°22	n.a.	S 28
S 29	6 15 55	4°56'24	25°38	23° 1	17°51	12°55	25°58	10°21	1° 0	29°26	0°15	13°37	14° 6	20°28	n.a.	S 29
M30	6 19 52	5°57'25	7♐47	24°36	19° 6	13°36	25°59	10°28	0°59	29°28	0°16	13°36	14° 3	20°35	n.a.	M30
T 31	6 23 48	6♑58'24	19♐47	26♐12	20♐21	14♏18	26♈ 0	10♑36	0♉59	29♏30	0♓17	13♋35	14♋ 0	20♑41	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	21s37	12s42	4n23	14s15	2n 4	14s43	1n12	8s37	0n46	9n22	1s11	23s44	0s13	11n48	0s24	18s37	1n28	26s41	16s13	22n57	22n47	22s44			n.a.
M 2	21 48	16 30	3 41	14 42	1 56	15 8	1 10	8 53	0 46	9 20	1 11	23 44	0 13	11 47	0 24	18 38	1 28	26 41	16 13	22 58	22 48	22 44			n.a.
T 3	21 58	19 32	2 50	15 9	1 48	15 32	1 8	9 8	0 45	9 19	1 11	23 44	0 13	11 47	0 24	18 38	1 28	26 40	16 12	22 59	22 48	22 44			n.a.
W 4	22 7	21 40	1 51	15 37	1 40	15 56	1 6	9 24	0 45	9 18	1 10	23 43	0 13	11 46	0 24	18 39	1 28	26 40	16 12	22 59	22 49	22 44			n.a.
T 5	22 16	22 49	0 49	16 4	1 32	16 19	1 3	9 39	0 44	9 17	1 10	23 43	0 13	11 46	0 24	18 39	1 28	26 39	16 12	22 59	22 49	22 44			n.a.
F 6	22 25	22 55	0s16	16 33	1 24	16 42	1 1	9 54	0 44	9 16	1 10	23 43	0 14	11 45	0 24	18 40	1 28	26 39	16 11	22 59	22 49	22 44			n.a.
S 7	22 33	22 0	1 20	17 1	1 16	17 5	0 59	10 10	0 43	9 14	1 9	23 42	0 14	11 44	0 24	18 40	1 28	26 38	16 11	22 59	22 50	22 44			n.a.
S 8	22 41	20 7	2 20	17 29	1 8	17 27	0 57	10 25	0 43	9 13	1 9	23 42	0 14	11 44	0 24	18 41	1 28	26 38	16 10	22 59	22 50	22 44			n.a.
M 9	22 49	17 22	3 15	17 57	1 0	17 49	0 54	10 40	0 42	9 13	1 9	23 42	0 14	11 43	0 24	18 41	1 28	26 37	16 10	22 59	22 50	22 44			n.a.
T 10	22 55	13 51	4 2	18 24	0 52	18 10	0 52	10 55	0 42	9 12	1 9	23 41	0 14	11 43	0 24	18 42	1 28	26 37	16 10	22 59	22 51	22 44			n.a.
W11	23 2	9 42	4 40	18 51	0 44	18 30	0 50	11 10	0 41	9 11	1 8	23 41	0 14	11 42	0 24	18 42	1 28	26 36	16 9	22 59	22 51	22 44			n.a.
T 12	23 8	5 3	5 4	19 18	0 36	18 51	0 47	11 25	0 41	9 10	1 8	23 41	0 14	11 42	0 24	18 43	1 28	26 36	16 9	22 59	22 52	22 44			n.a.
F 13	23 13	0 2	5 15	19 44	0 28	19 10	0 45	11 40	0 40	9 10	1 8	23 40	0 14	11 41	0 24	18 43	1 28	26 35	16 9	22 59	22 52	22 44			n.a.
S 14	23 18	5n 9	5 9	20 10	0 20	19 29	0 43	11 54	0 40	9 9	1 7	23 40	0 14	11 41	0 24	18 43	1 28	26 35	16 8	22 59	22 52	22 43			n.a.
S 15	23 23	10 16	4 45	20 35	0 13	19 48	0 40	12 9	0 39	9 9	1 7	23 40	0 14	11 40	0 24	18 44	1 28	26 34	16 8	23 0	22 53	22 43			n.a.
M16	23 27	14 59	4 2	21 0	0 5	20 6	0 38	12 23	0 38	9 8	1 7	23 39	0 14	11 40	0 24	18 44	1 28	26 34	16 8	23 0	22 53	22 43			n.a.
T 17	23 31	18 57	3 3	21 23	0s 2	20 23	0 35	12 38	0 38	9 8	1 6	23 39	0 14	11 39	0 24	18 45	1 28	26 33	16 8	23 0	22 53	22 43			n.a.
W18	23 34	21 43	1 50	21 46	0 10	20 40	0 33	12 52	0 37	9 8	1 6	23 38	0 14	11 39	0 24	18 45	1 28	26 32	16 7	23 0	22 54	22 43			n.a.
T 19	23 37	22 58	0 28	22 8	0 17	20 56	0 30	13 7	0 37	9 8	1 6	23 38	0 14	11 38	0 24	18 46	1 28	26 32	16 7	23 0	22 54	22 43			n.a.
F 20	23 39	22 32	0n55	22 29	0 24	21 12	0 28	13 21	0 36	9 7	1 6	23 37	0 14	11 38	0 24	18 46	1 28	26 31	16 7	23 0	22 54	22 43			n.a.
S 21	23 40	20 30	2 13	22 49	0 31	21 27	0 25	13 35	0 36	9 7	1 5	23 37	0 15	11 38	0 24	18 47	1 28	26 31	16 6	23 0	22 55	22 43			n.a.
S 22	23 42	17 8	3 22	23 8	0 38	21 42	0 23	13 49	0 35	9 8	1 5	23 37	0 15	11 37	0 24	18 47	1 28	26 30	16 6	23 0	22 55	22 43			n.a.
M23	23 42	12 51	4 16	23 26	0 44	21 55	0 20	14 3	0 34	9 8	1 5	23 36	0 15	11 37	0 24	18 47	1 28	26 30	16 6	23 0	22 55	22 43			n.a.
T 24	23 43	7 59	4 53	23 43	0 50	22 9	0 18	14 17	0 34	9 8	1 4	23 36	0 15	11 37	0 24	18 48	1 28	26 29	16 5	23 0	22 56	22 43			n.a.
W25	23 43	2 52	5 13	23 59	0 57	22 21	0 15	14 31	0 33	9 8	1 4	23 35	0 15	11 36	0 24	18 48	1 28	26 28	16 5	23 0	22 56	22 42			n.a.
T 26	23 42	2s15	5 16	24 14	1 2	22 33	0 12	14 44	0 33	9 9	1 4	23 35	0 15	11 36	0 24	18 49	1 28	26 28	16 5	23 0	22 56	22 42			n.a.
F 27	23 41	7 8	5 3	24 27	1 8	22 44	0 10	14 58	0 32	9 9	1 3	23 34	0 15	11 36	0 24	18 49	1 28	26 27	16 4	23 0	22 57	22 42			n.a.
S 28	23 39	11 38	4 36	24 40	1 14	22 54	0 7	15 11	0 31	9 9	1 3	23 34	0 15	11 36	0 24	18 50	1 28	26 27	16 4	23 0	22 57	22 42			n.a.
S 29	23 37	15 34	3 56	24 50	1 19	23 4	0 5	15 24	0 31	9 10	1 3	23 33	0 15	11 35	0 23	18 50	1 28	26 26	16 4	23 0	22 57	22 42			n.a.
M30	23 35	18 48	3 6	25 0	1 24	23 13	0 2	15 38	0 30	9 11	1 2	23 33	0 15	11 35	0 23	18 50	1 28	26 25	16 4	23 1	22 58	22 42			n.a.
T 31	23s32	21s11	2n 8	25s 8	1s29	23s22	0s 0	15s51	0n29	9n11	1s 2	23s32	0s15	11n35	0s23	18s51	1n28	26s25	16s 3	23n 1	22n58	22s42			n.a.

Julian Day Number = 1663317.5, Delta T = 03h24m32s
Ecliptic obliquity = 23°42'49, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°15'49, Lahiri = - 6°08'49 Julian Calendar 1 Dec. 160 BCE == Greg. Calendar 28 Nov. 160 BCE

The year -159 astronomical counting style corresponds to year 160 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 159 BCE
geocentric

JANUARY 159 BCE (-158) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 27 45	7♑59'23	1♑41	27♐48	21♐36	14♏59	26♈ 2	10♑43	0°R58	29♏32	0♓18	13°R35	13♋57	20♑48	n.a.	W 1
T 2	6 31 42	9° 0'20	13°31	29°25	22°51	15°40	26° 3	10°50	0♉58	29°34	0°19	13°D35	13°54	20°55	n.a.	T 2
F 3	6 35 38	10° 1'16	25°18	1♑ 3	24° 6	16°22	26° 5	10°57	0°57	29°36	0°20	13♋35	13°50	21° 1	n.a.	F 3
S 4	6 39 35	11° 2'10	7♒ 6	2°41	25°21	17° 3	26° 7	11° 4	0°57	29°37	0°21	13°35	13°47	21° 8	n.a.	S 4
S 5	6 43 31	12° 3'03	18°55	4°21	26°36	17°45	26° 9	11°12	0°56	29°39	0°22	13°35	13°44	21°15	n.a.	S 5
M 6	6 47 28	13° 3'55	0♓50	6° 0	27°51	18°26	26°12	11°19	0°56	29°41	0°23	13°35	13°41	21°21	n.a.	M 6
T 7	6 51 24	14° 4'45	12°54	7°41	29° 6	19° 8	26°14	11°26	0°56	29°43	0°24	13°R35	13°38	21°28	n.a.	T 7
W 8	6 55 21	15° 5'34	25°10	9°23	0♑21	19°49	26°17	11°33	0°56	29°45	0°25	13°35	13°35	21°35	n.a.	W 8
T 9	6 59 17	16° 6'20	7♈42	11° 5	1°36	20°31	26°20	11°40	0°55	29°46	0°26	13°35	13°31	21°41	n.a.	T 9
F 10	7 3 14	17° 7'05	20°35	12°48	2°51	21°12	26°23	11°48	0°55	29°48	0°27	13°D35	13°28	21°48	n.a.	F 10
S 11	7 7 11	18° 7'49	3♉51	14°32	4° 6	21°54	26°27	11°55	0°55	29°50	0°28	13°35	13°25	21°55	n.a.	S 11
S 12	7 11 7	19° 8'30	17°33	16°16	5°21	22°35	26°30	12° 2	0°D55	29°51	0°30	13°36	13°22	22° 1	n.a.	S 12
M13	7 15 4	20° 9'10	1♊42	18° 2	6°36	23°17	26°34	12° 9	0°55	29°53	0°31	13°36	13°19	22° 8	n.a.	M13
T 14	7 19 0	21° 9'48	16°16	19°48	7°51	23°58	26°38	12°16	0°55	29°55	0°32	13°37	13°15	22°15	n.a.	T 14
W15	7 22 57	22°10'24	1♋12	21°35	9° 6	24°40	26°42	12°23	0°55	29°56	0°33	13°37	13°12	22°21	n.a.	W15
T 16	7 26 53	23°10'59	16°22	23°23	10°21	25°22	26°47	12°30	0°56	29°58	0°35	13°R38	13° 9	22°28	n.a.	T 16
F 17	7 30 50	24°11'32	1♌37	25°12	11°36	26° 3	26°51	12°38	0°56	29°59	0°36	13°37	13° 6	22°34	n.a.	F 17
S 18	7 34 47	25°12'03	16°47	27° 1	12°51	26°45	26°56	12°45	0°56	0♐ 1	0°37	13°36	13° 3	22°41	n.a.	S 18
S 19	7 38 43	26°12'33	1♍44	28°52	14° 6	27°27	27° 1	12°52	0°57	0° 2	0°38	13°35	13° 0	22°48	n.a.	S 19
M20	7 42 40	27°13'01	16°18	0♒43	15°20	28° 8	27° 6	12°59	0°57	0° 4	0°40	13°33	12°56	22°54	n.a.	M20
T 21	7 46 36	28°13'27	0♎27	2°34	16°35	28°50	27°11	13° 6	0°57	0° 5	0°41	13°31	12°53	23° 1	n.a.	T 21
W22	7 50 33	29°13'53	14° 7	4°26	17°50	29°32	27°16	13°13	0°58	0° 6	0°42	13°30	12°50	23° 8	n.a.	W22
T 23	7 54 29	0♒14'16	27°21	6°19	19° 5	0♐14	27°22	13°20	0°59	0° 8	0°44	13°D30	12°47	23°14	n.a.	T 23
F 24	7 58 26	1°14'38	10♏10	8°12	20°20	0°55	27°28	13°27	0°59	0° 9	0°45	13°30	12°44	23°21	n.a.	F 24
S 25	8 2 22	2°14'59	22°39	10° 5	21°35	1°37	27°34	13°34	1° 0	0°10	0°46	13°31	12°41	23°28	n.a.	S 25
S 26	8 6 19	3°15'18	4♐51	11°58	22°50	2°19	27°40	13°41	1° 1	0°12	0°48	13°32	12°37	23°34	n.a.	S 26
M27	8 10 16	4°15'35	16°51	13°51	24° 4	3° 1	27°46	13°48	1° 1	0°13	0°49	13°34	12°34	23°41	n.a.	M27
T 28	8 14 12	5°15'51	28°43	15°44	25°19	3°43	27°52	13°54	1° 2	0°14	0°50	13°35	12°31	23°48	n.a.	T 28
W29	8 18 9	6°16'05	10♑31	17°35	26°34	4°24	27°59	14° 1	1° 3	0°15	0°52	13°R36	12°28	23°54	n.a.	W29
T 30	8 22 5	7°16'18	22°17	19°26	27°49	5° 6	28° 5	14° 8	1° 4	0°16	0°53	13°36	12°25	24° 1	n.a.	T 30
F 31	8 26 2	8♒16'28	4♒ 5	21♒16	29♑ 4	5♐48	28♈12	14♑15	1♉ 5	0♐18	0♓54	13♋34	12♋21	24♑ 8	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	23s28	22s37	1n 6	25s15	1s33	23s29	0s 3	16s 4	0n29	9n12	1s 2	23s32	0s15	11n35	0s23	18s51	1n28	26s24	16s 3	23n 1	22n58	22s41			n.a.
T 2	23 24	23 1	0 0	25 20	1 37	23 36	0 5	16 16	0 28	9 13	1 2	23 31	0 15	11 35	0 23	18 51	1 28	26 24	16 3	23 1	22 59	22 41			n.a.
F 3	23 20	22 23	1s 5	25 24	1 41	23 43	0 8	16 29	0 27	9 14	1 1	23 31	0 15	11 34	0 23	18 52	1 28	26 23	16 3	23 1	22 59	22 41			n.a.
S 4	23 15	20 46	2 7	25 26	1 45	23 48	0 10	16 42	0 27	9 15	1 1	23 30	0 16	11 34	0 23	18 52	1 28	26 22	16 2	23 1	22 59	22 41			n.a.
S 5	23 10	18 14	3 4	25 27	1 48	23 53	0 13	16 54	0 26	9 16	1 1	23 30	0 16	11 34	0 23	18 53	1 28	26 22	16 2	23 1	23 0	22 41			n.a.
M 6	23 4	14 56	3 54	25 26	1 51	23 57	0 15	17 6	0 25	9 17	1 0	23 29	0 16	11 34	0 23	18 53	1 28	26 21	16 2	23 1	23 0	22 41			n.a.
T 7	22 58	11 0	4 34	25 23	1 54	24 0	0 18	17 19	0 25	9 19	1 0	23 29	0 16	11 34	0 23	18 53	1 28	26 20	16 1	23 1	23 0	22 40			n.a.
W 8	22 51	6 33	5 2	25 18	1 56	24 3	0 20	17 31	0 24	9 20	1 0	23 28	0 16	11 34	0 23	18 54	1 28	26 20	16 1	23 1	23 1	22 40			n.a.
T 9	22 44	1 45	5 16	25 12	1 58	24 5	0 22	17 43	0 23	9 21	0 59	23 28	0 16	11 34	0 23	18 54	1 28	26 19	16 1	23 1	23 1	22 40			n.a.
F 10	22 36	3n15	5 16	25 4	2 0	24 6	0 25	17 54	0 22	9 23	0 59	23 27	0 16	11 34	0 23	18 54	1 28	26 18	16 1	23 1	23 1	22 40			n.a.
S 11	22 28	8 16	4 59	24 55	2 1	24 6	0 27	18 6	0 22	9 24	0 59	23 26	0 16	11 34	0 23	18 55	1 28	26 18	16 1	23 1	23 2	22 40			n.a.
S 12	22 20	13 2	4 24	24 43	2 1	24 6	0 29	18 17	0 21	9 26	0 59	23 26	0 16	11 34	0 23	18 55	1 28	26 17	16 0	23 1	23 2	22 39			n.a.
M13	22 11	17 16	3 33	24 30	2 2	24 4	0 32	18 29	0 20	9 28	0 58	23 25	0 16	11 34	0 23	18 55	1 28	26 16	16 0	23 1	23 2	22 39			n.a.
T 14	22 2	20 34	2 26	24 14	2 2	24 2	0 34	18 40	0 19	9 29	0 58	23 25	0 16	11 34	0 23	18 56	1 28	26 16	16 0	23 1	23 3	22 39			n.a.
W15	21 52	22 34	1 9	23 57	2 1	24 0	0 36	18 51	0 19	9 31	0 58	23 24	0 16	11 34	0 23	18 56	1 28	26 15	16 0	23 0	23 3	22 39			n.a.
T 16	21 42	22 57	0n15	23 38	2 0	23 56	0 38	19 2	0 18	9 33	0 57	23 23	0 16	11 34	0 23	18 56	1 28	26 15	15 59	23 0	23 3	22 38			n.a.
F 17	21 31	21 37	1 38	23 17	1 58	23 52	0 40	19 13	0 17	9 35	0 57	23 23	0 17	11 34	0 23	18 57	1 28	26 14	15 59	23 0	23 4	22 38			n.a.
S 18	21 20	18 45	2 54	22 54	1 56	23 47	0 42	19 23	0 16	9 37	0 57	23 22	0 17	11 34	0 23	18 57	1 28	26 13	15 59	23 1	23 4	22 38			n.a.
S 19	21 9	14 39	3 57	22 29	1 54	23 42	0 44	19 34	0 15	9 39	0 57	23 22	0 17	11 35	0 23	18 57	1 28	26 13	15 59	23 1	23 4	22 38			n.a.
M20	20 57	9 47	4 42	22 1	1 50	23 35	0 47	19 44	0 15	9 41	0 56	23 21	0 17	11 35	0 23	18 57	1 28	26 12	15 59	23 1	23 5	22 37			n.a.
T 21	20 45	4 32	5 9	21 32	1 47	23 28	0 49	19 54	0 14	9 43	0 56	23 20	0 17	11 35	0 23	18 58	1 28	26 11	15 59	23 1	23 5	22 37			n.a.
W22	20 33	0s46	5 17	21 1	1 42	23 21	0 50	20 4	0 13	9 45	0 56	23 20	0 17	11 35	0 23	18 58	1 28	26 11	15 58	23 1	23 5	22 37			n.a.
T 23	20 20	5 52	5 8	20 29	1 37	23 12	0 52	20 14	0 12	9 48	0 55	23 19	0 17	11 35	0 23	18 58	1 28	26 10	15 58	23 1	23 6	22 37			n.a.
F 24	20 7	10 33	4 43	19 54	1 32	23 3	0 54	20 24	0 11	9 50	0 55	23 19	0 17	11 36	0 23	18 58	1 29	26 9	15 58	23 1	23 6	22 36			n.a.
S 25	19 53	14 41	4 6	19 17	1 25	22 53	0 56	20 33	0 10	9 52	0 55	23 18	0 17	11 36	0 23	18 59	1 29	26 9	15 58	23 1	23 6	22 36			n.a.
S 26	19 39	18 6	3 18	18 39	1 18	22 42	0 58	20 42	0 10	9 55	0 55	23 17	0 17	11 36	0 23	18 59	1 29	26 8	15 58	23 1	23 6	22 36			n.a.
M27	19 25	20 41	2 23	17 59	1 11	22 31	1 0	20 51	0 9	9 57	0 54	23 17	0 17	11 37	0 23	18 59	1 29	26 7	15 58	23 1	23 7	22 35			n.a.
T 28	19 10	22 21	1 21	17 18	1 2	22 19	1 1	21 0	0 8	10 0	0 54	23 16	0 17	11 37	0 23	18 59	1 29	26 7	15 57	23 1	23 7	22 35			n.a.
W29	18 55	23 1	0 17	16 35	0 53	22 7	1 3	21 9	0 7	10 2	0 54	23 15	0 18	11 37	0 23	19 0	1 29	26 6	15 57	23 1	23 7	22 35			n.a.
T 30	18 40	22 38	0s48	15 51	0 44	21 53	1 4	21 18	0 6	10 5	0 54	23 15	0 18	11 38	0 23	19 0	1 29	26 5	15 57	23 1	23 8	22 34			n.a.
F 31	18s24	21s15	1s51	15s 6	0s33	21s39	1s 6	21s26	0n 5	10n 8	0s53	23s14	0s18	11n38	0s23	19s 0	1n29	26s 5	15s57	23n 1	23n 8	22s34			n.a.

Julian Day Number = 1663348.5, Delta T = 03h24m31s
Ecliptic obliquity = 23°42'49, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°15'45, Lahiri = - 6°08'44 Julian Calendar 1 Jan. 159 BCE == Greg. Calendar 29 Dec. 160 BCE

The year -158 astronomical counting style corresponds to year 159 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 159 BCE
geocentric

FEBRUARY 159 BCE (-158) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 29 58	9♒16'36	15♒56	23♒ 3	0♒18	6♐30	28♈19	14♑22	1♉ 6	0♐19	0♓56	13°R31	12♋18	24♑14	n.a.	S 1
S 2	8 33 55	10°16'43	27°53	24°49	1°33	7°12	28°26	14°28	1° 7	0°20	0°57	13♋27	12°15	24°21	n.a.	S 2
M 3	8 37 51	11°16'47	9♓57	26°31	2°48	7°54	28°34	14°35	1° 8	0°21	0°59	13°23	12°12	24°28	n.a.	M 3
T 4	8 41 48	12°16'49	22°10	28°11	4° 3	8°36	28°41	14°42	1° 9	0°22	1° 0	13°17	12° 9	24°34	n.a.	T 4
W 5	8 45 44	13°16'49	4♈34	29°46	5°17	9°17	28°49	14°48	1°11	0°23	1° 2	13°13	12° 6	24°41	n.a.	W 5
T 6	8 49 41	14°16'47	17°11	1♓18	6°32	9°59	28°57	14°55	1°12	0°24	1° 3	13° 9	12° 2	24°47	n.a.	T 6
F 7	8 53 38	15°16'42	0♉ 4	2°44	7°47	10°41	29° 5	15° 2	1°13	0°25	1° 5	13° 6	11°59	24°54	n.a.	F 7
S 8	8 57 34	16°16'36	13°15	4° 6	9° 1	11°23	29°13	15° 8	1°15	0°26	1° 6	13°D 5	11°56	25° 1	n.a.	S 8
S 9	9 1 31	17°16'27	26°47	5°21	10°16	12° 5	29°21	15°15	1°16	0°26	1° 7	13° 5	11°53	25° 7	n.a.	S 9
M10	9 5 27	18°16'15	10♊42	6°30	11°31	12°47	29°29	15°21	1°18	0°27	1° 9	13° 7	11°50	25°14	n.a.	M10
T 11	9 9 24	19°16'01	24°59	7°32	12°45	13°29	29°37	15°28	1°19	0°28	1°10	13° 8	11°46	25°21	n.a.	T 11
W12	9 13 20	20°15'45	9♋37	8°26	14° 0	14°11	29°46	15°34	1°21	0°29	1°12	13°R 9	11°43	25°27	n.a.	W12
T 13	9 17 17	21°15'27	24°32	9°13	15°15	14°53	29°55	15°40	1°22	0°29	1°13	13° 9	11°40	25°34	n.a.	T 13
F 14	9 21 13	22°15'06	9♌38	9°52	16°29	15°35	0♉ 4	15°46	1°24	0°30	1°15	13° 6	11°37	25°41	n.a.	F 14
S 15	9 25 10	23°14'43	24°45	10°24	17°44	16°17	0°12	15°53	1°26	0°31	1°16	13° 2	11°34	25°47	n.a.	S 15
S 16	9 29 7	24°14'18	9♍44	10°46	18°58	16°59	0°22	15°59	1°27	0°31	1°18	12°57	11°31	25°54	n.a.	S 16
M17	9 33 3	25°13'51	24°27	11° 1	20°13	17°41	0°31	16° 5	1°29	0°32	1°19	12°50	11°27	26° 1	n.a.	M17
T 18	9 37 0	26°13'22	8♎45	11°R 7	21°27	18°23	0°40	16°11	1°31	0°33	1°21	12°43	11°24	26° 7	n.a.	T 18
W19	9 40 56	27°12'51	22°35	11° 5	22°42	19° 5	0°49	16°17	1°33	0°33	1°22	12°37	11°21	26°14	n.a.	W19
T 20	9 44 53	28°12'18	5♏57	10°55	23°56	19°47	0°59	16°23	1°35	0°34	1°24	12°33	11°18	26°21	n.a.	T 20
F 21	9 48 49	29°11'43	18°51	10°38	25°11	20°29	1° 9	16°29	1°37	0°34	1°25	12°31	11°15	26°27	n.a.	F 21
S 22	9 52 46	0♓11'06	1♐22	10°14	26°25	21°11	1°18	16°35	1°39	0°34	1°27	12°D30	11°12	26°34	n.a.	S 22
S 23	9 56 42	1°10'28	13°34	9°43	27°40	21°53	1°28	16°41	1°41	0°35	1°28	12°31	11° 8	26°41	n.a.	S 23
M24	10 0 39	2° 9'48	25°33	9° 7	28°54	22°35	1°38	16°47	1°43	0°35	1°30	12°32	11° 5	26°47	n.a.	M24
T 25	10 4 36	3° 9'05	7♑22	8°25	0♓ 9	23°17	1°48	16°52	1°45	0°36	1°31	12°R33	11° 2	26°54	n.a.	T 25
W26	10 8 32	4° 8'21	19° 8	7°40	1°23	23°59	1°59	16°58	1°47	0°36	1°33	12°33	10°59	27° 0	n.a.	W26
T 27	10 12 29	5° 7'35	0♒55	6°52	2°38	24°41	2° 9	17° 4	1°50	0°36	1°34	12°31	10°56	27° 7	n.a.	T 27
F 28	10 16 25	6♓ 6'47	12♒46	6♓ 3	3♓52	25♐23	2♉19	17♑ 9	1♉52	0♐36	1♓36	12♋27	10♋52	27♑14	n.a.	F 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s 8	18s55	2s49	14s20	0s22	21s25	1s 7	21s34	0n 4	10n11	0s53	23s13	0s18	11n38	0s23	19s 0	1n29	26s 4	15s57	23n 1	23n 8	22s34		n.a.
S 2	17 52	15 47	3 40	13 34	0 11	21 10	1 9	21 42	0 3	10 13	0 53	23 13	0 18	11 39	0 22	19 0	1 29	26 3	15 57	23 1	23 9	22 33		n.a.
M 3	17 35	11 57	4 22	12 48	0n 2	20 54	1 10	21 50	0 2	10 16	0 53	23 12	0 18	11 39	0 22	19 1	1 29	26 3	15 57	23 2	23 9	22 33		n.a.
T 4	17 19	7 36	4 52	12 1	0 14	20 37	1 12	21 58	0 1	10 19	0 52	23 12	0 18	11 40	0 22	19 1	1 29	26 2	15 57	23 2	23 9	22 33		n.a.
W 5	17 1	2 53	5 9	11 15	0 27	20 20	1 13	22 5	0 0	10 22	0 52	23 11	0 18	11 40	0 22	19 1	1 29	26 2	15 56	23 3	23 9	22 32		n.a.
T 6	16 44	2n 1	5 12	10 30	0 41	20 3	1 14	22 13	0s 1	10 25	0 52	23 10	0 18	11 41	0 22	19 1	1 29	26 1	15 56	23 3	23 10	22 32		n.a.
F 7	16 26	6 57	4 59	9 46	0 55	19 45	1 15	22 20	0 2	10 28	0 51	23 10	0 18	11 41	0 22	19 1	1 29	26 0	15 56	23 4	23 10	22 32		n.a.
S 8	16 8	11 42	4 31	9 3	1 9	19 26	1 16	22 27	0 3	10 31	0 51	23 9	0 18	11 42	0 22	19 1	1 29	26 0	15 56	23 4	23 10	22 31		n.a.
S 9	15 50	15 59	3 47	8 22	1 23	19 7	1 17	22 33	0 4	10 34	0 51	23 8	0 19	11 42	0 22	19 1	1 29	25 59	15 56	23 4	23 11	22 31		n.a.
M10	15 32	19 32	2 48	7 44	1 37	18 47	1 18	22 40	0 5	10 38	0 51	23 8	0 19	11 43	0 22	19 2	1 29	25 58	15 56	23 4	23 11	22 31		n.a.
T 11	15 13	21 59	1 38	7 7	1 51	18 26	1 19	22 46	0 6	10 41	0 51	23 7	0 19	11 43	0 22	19 2	1 29	25 58	15 56	23 3	23 11	22 30		n.a.
W12	14 54	23 2	0 19	6 34	2 5	18 5	1 20	22 52	0 7	10 44	0 50	23 6	0 19	11 44	0 22	19 2	1 29	25 57	15 56	23 3	23 11	22 30		n.a.
T 13	14 35	22 28	1n 2	6 4	2 19	17 44	1 21	22 58	0 8	10 47	0 50	23 6	0 19	11 44	0 22	19 2	1 29	25 57	15 56	23 3	23 12	22 29		n.a.
F 14	14 15	20 17	2 19	5 37	2 32	17 22	1 21	23 4	0 9	10 51	0 50	23 5	0 19	11 45	0 22	19 2	1 29	25 56	15 56	23 4	23 12	22 29		n.a.
S 15	13 55	16 40	3 27	5 14	2 44	17 0	1 22	23 10	0 10	10 54	0 50	23 4	0 19	11 46	0 22	19 2	1 29	25 55	15 56	23 4	23 12	22 29		n.a.
S 16	13 36	12 0	4 20	4 55	2 55	16 37	1 23	23 15	0 11	10 58	0 49	23 4	0 19	11 46	0 22	19 2	1 29	25 55	15 56	23 5	23 13	22 28		n.a.
M17	13 16	6 43	4 54	4 40	3 6	16 14	1 23	23 20	0 12	11 1	0 49	23 3	0 19	11 47	0 22	19 2	1 29	25 54	15 56	23 5	23 13	22 28		n.a.
T 18	12 55	1 13	5 9	4 29	3 15	15 50	1 24	23 25	0 13	11 4	0 49	23 2	0 19	11 48	0 22	19 2	1 30	25 54	15 56	23 6	23 13	22 27		n.a.
W19	12 35	4s10	5 5	4 22	3 23	15 26	1 24	23 30	0 14	11 8	0 49	23 2	0 19	11 48	0 22	19 2	1 30	25 53	15 56	23 6	23 13	22 27		n.a.
T 20	12 14	9 11	4 44	4 19	3 30	15 1	1 25	23 34	0 15	11 12	0 48	23 1	0 20	11 49	0 22	19 3	1 30	25 52	15 56	23 7	23 14	22 26		n.a.
F 21	11 53	13 38	4 10	4 21	3 35	14 36	1 25	23 38	0 16	11 15	0 48	23 1	0 20	11 50	0 22	19 3	1 30	25 52	15 56	23 7	23 14	22 26		n.a.
S 22	11 32	17 20	3 24	4 27	3 39	14 11	1 25	23 42	0 17	11 19	0 48	23 0	0 20	11 50	0 22	19 3	1 30	25 51	15 56	23 7	23 14	22 25		n.a.
S 23	11 11	20 12	2 30	4 37	3 41	13 45	1 25	23 46	0 19	11 22	0 48	22 59	0 20	11 51	0 22	19 3	1 30	25 51	15 56	23 7	23 14	22 25		n.a.
M24	10 49	22 8	1 31	4 50	3 41	13 19	1 25	23 50	0 20	11 26	0 48	22 59	0 20	11 52	0 22	19 3	1 30	25 50	15 56	23 7	23 15	22 25		n.a.
T 25	10 28	23 2	0 28	5 7	3 39	12 53	1 25	23 53	0 21	11 30	0 47	22 58	0 20	11 53	0 22	19 3	1 30	25 50	15 56	23 7	23 15	22 24		n.a.
W26	10 6	22 55	0s35	5 28	3 35	12 26	1 25	23 57	0 22	11 34	0 47	22 57	0 20	11 53	0 22	19 3	1 30	25 49	15 56	23 7	23 15	22 24		n.a.
T 27	9 44	21 46	1 37	5 50	3 30	11 59	1 25	24 0	0 23	11 37	0 47	22 57	0 20	11 54	0 22	19 3	1 30	25 48	15 56	23 7	23 16	22 23		n.a.
F 28	9s22	19s39	2s35	6s15	3n23	11s31	1s25	24s 2	0s24	11n41	0s47	22s56	0s20	11n55	0s22	19s 3	1n30	25s48	15s56	23n 7	23n16	22s23		n.a.

Julian Day Number = 1663379.5, Delta T = 03h24m30s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°15'41, Lahiri = - 6°08'40 Julian Calendar 1 Feb. 159 BCE == Greg. Calendar 29 Jan. 159 BCE

The year -158 astronomical counting style corresponds to year 159 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 159 BCE
geocentric

MARCH 159 BCE (-158) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 20 22	7♓ 5'57	24♒44	5°R12	5♓ 7	26♐ 6	2♉30	17♑15	1♉54	0♐37	1♓38	12°R20	10♋49	27♑20	n.a.	S 1
S 2	10 24 18	8° 5'05	6♓50	4♓21	6°21	26°48	2°41	17°20	1°57	0°37	1°39	12♋11	10°46	27°27	n.a.	S 2
M 3	10 28 15	9° 4'10	19° 7	3°32	7°35	27°30	2°51	17°25	1°59	0°37	1°41	12° 1	10°43	27°34	n.a.	M 3
T 4	10 32 11	10° 3'13	1♈35	2°45	8°50	28°12	3° 2	17°31	2° 1	0°37	1°42	11°50	10°40	27°40	n.a.	T 4
W 5	10 36 8	11° 2'15	14°14	2° 0	10° 4	28°54	3°13	17°36	2° 4	0°37	1°44	11°40	10°37	27°47	n.a.	W 5
T 6	10 40 4	12° 1'13	27° 6	1°19	11°18	29°36	3°24	17°41	2° 6	0°R37	1°45	11°31	10°33	27°54	n.a.	T 6
F 7	10 44 1	13° 0'10	10♉ 9	0°43	12°33	0♑18	3°35	17°46	2° 9	0°37	1°46	11°24	10°30	28° 0	n.a.	F 7
S 8	10 47 58	13°59'04	23°27	0°10	13°47	1° 0	3°46	17°51	2°11	0°37	1°48	11°20	10°27	28° 7	n.a.	S 8
S 9	10 51 54	14°57'56	6♊58	29♒43	15° 1	1°42	3°57	17°56	2°14	0°37	1°49	11°18	10°24	28°14	n.a.	S 9
M10	10 55 51	15°56'46	20°45	29°21	16°16	2°24	4° 9	18° 1	2°17	0°37	1°51	11°D18	10°21	28°20	n.a.	M10
T 11	10 59 47	16°55'33	4♋49	29° 4	17°30	3° 6	4°20	18° 6	2°19	0°37	1°52	11°R18	10°18	28°27	n.a.	T 11
W12	11 3 44	17°54'17	19° 8	28°52	18°44	3°48	4°32	18°11	2°22	0°36	1°54	11°18	10°14	28°34	n.a.	W12
T 13	11 7 40	18°53'00	3♌42	28°46	19°58	4°30	4°43	18°15	2°25	0°36	1°55	11°16	10°11	28°40	n.a.	T 13
F 14	11 11 37	19°51'40	18°26	28°D45	21°12	5°12	4°55	18°20	2°28	0°36	1°57	11°12	10° 8	28°47	n.a.	F 14
S 15	11 15 33	20°50'18	3♍14	28°50	22°27	5°54	5° 7	18°25	2°30	0°36	1°58	11° 5	10° 5	28°54	n.a.	S 15
S 16	11 19 30	21°48'53	17°58	29° 0	23°41	6°36	5°18	18°29	2°33	0°35	2° 0	10°56	10° 2	29° 0	n.a.	S 16
M17	11 23 27	22°47'27	2♎31	29°14	24°55	7°17	5°30	18°34	2°36	0°35	2° 1	10°45	9°58	29° 7	n.a.	M17
T 18	11 27 23	23°45'58	16°45	29°33	26° 9	7°59	5°42	18°38	2°39	0°35	2° 2	10°34	9°55	29°13	n.a.	T 18
W19	11 31 20	24°44'28	0♏36	29°57	27°23	8°41	5°54	18°42	2°42	0°34	2° 4	10°24	9°52	29°20	n.a.	W19
T 20	11 35 16	25°42'56	13°59	0♓26	28°37	9°23	6° 6	18°46	2°45	0°34	2° 5	10°16	9°49	29°27	n.a.	T 20
F 21	11 39 13	26°41'22	26°57	0°58	29°51	10° 5	6°19	18°50	2°48	0°33	2° 7	10°10	9°46	29°33	n.a.	F 21
S 22	11 43 9	27°39'46	9♐31	1°35	1♈ 5	10°47	6°31	18°54	2°51	0°33	2° 8	10° 7	9°43	29°40	n.a.	S 22
S 23	11 47 6	28°38'09	21°46	2°15	2°19	11°29	6°43	18°58	2°54	0°32	2° 9	10° 6	9°39	29°47	n.a.	S 23
M24	11 51 2	29°36'30	3♑46	3° 0	3°33	12°11	6°55	19° 2	2°57	0°32	2°11	10° 5	9°36	29°53	n.a.	M24
T 25	11 54 59	0♈34'50	15°37	3°47	4°48	12°52	7° 8	19° 6	3° 0	0°31	2°12	10° 5	9°33	0♒ 0	n.a.	T 25
W26	11 58 55	1°33'08	27°24	4°38	6° 2	13°34	7°20	19°10	3° 3	0°31	2°14	10° 4	9°30	0° 7	n.a.	W26
T 27	12 2 52	2°31'24	9♒13	5°33	7°16	14°16	7°33	19°13	3° 6	0°30	2°15	10° 1	9°27	0°13	n.a.	T 27
F 28	12 6 49	3°29'38	21° 8	6°30	8°30	14°58	7°45	19°17	3° 9	0°29	2°16	9°56	9°23	0°20	n.a.	F 28
S 29	12 10 45	4°27'51	3♓13	7°30	9°44	15°39	7°58	19°20	3°12	0°29	2°18	9°48	9°20	0°27	n.a.	S 29
S 30	12 14 42	5°26'02	15°30	8°33	10°57	16°21	8°11	19°24	3°15	0°28	2°19	9°37	9°17	0°33	n.a.	S 30
M31	12 18 38	6♈24'11	28♓ 1	9♓39	12♈11	17♑ 3	8♉23	19♑27	3♉19	0♐27	2♓20	9♋24	9♋14	0♒40	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9s 0	16s40	3s27	6s42	3n14	11s 4	1s25	24s 5	0s26	11n45	0s47	22s56	0s20	11n56	0s22	19s 3	1n30	25s47	15s56	23n 8	23n16	22s22		n.a.
S 2	8 38	12 57	4 9	7 10	3 4	10 36	1 25	24 7	0 27	11 49	0 46	22 55	0 21	11 57	0 22	19 3	1 30	25 47	15 56	23 9	23 16	22 22		n.a.
M 3	8 16	8 39	4 41	7 39	2 53	10 7	1 24	24 9	0 28	11 53	0 46	22 54	0 21	11 58	0 22	19 3	1 30	25 46	15 56	23 10	23 17	22 21		n.a.
T 4	7 53	3 56	5 0	8 8	2 40	9 39	1 24	24 11	0 29	11 57	0 46	22 54	0 21	11 58	0 22	19 3	1 30	25 46	15 56	23 11	23 17	22 21		n.a.
W 5	7 31	1n 1	5 4	8 36	2 26	9 10	1 23	24 13	0 31	12 1	0 46	22 53	0 21	11 59	0 22	19 3	1 30	25 45	15 56	23 12	23 17	22 20		n.a.
T 6	7 8	6 0	4 53	9 4	2 12	8 41	1 23	24 15	0 32	12 5	0 46	22 53	0 21	12 0	0 22	19 3	1 30	25 45	15 56	23 13	23 17	22 20		n.a.
F 7	6 45	10 48	4 27	9 32	1 57	8 12	1 22	24 16	0 33	12 9	0 45	22 52	0 21	12 1	0 22	19 3	1 30	25 44	15 56	23 13	23 18	22 19		n.a.
S 8	6 22	15 12	3 47	9 57	1 42	7 42	1 22	24 17	0 34	12 13	0 45	22 51	0 21	12 2	0 22	19 3	1 30	25 44	15 56	23 13	23 18	22 19		n.a.
S 9	5 59	18 53	2 52	10 22	1 26	7 13	1 21	24 18	0 36	12 17	0 45	22 51	0 21	12 3	0 22	19 2	1 30	25 43	15 56	23 14	23 18	22 18		n.a.
M10	5 36	21 36	1 47	10 44	1 10	6 43	1 20	24 18	0 37	12 21	0 45	22 50	0 21	12 4	0 22	19 2	1 30	25 43	15 56	23 14	23 18	22 17		n.a.
T 11	5 13	23 3	0 35	11 5	0 55	6 13	1 19	24 19	0 38	12 25	0 45	22 50	0 21	12 5	0 22	19 2	1 30	25 42	15 57	23 14	23 19	22 17		n.a.
W12	4 50	23 1	0n42	11 23	0 39	5 42	1 18	24 19	0 40	12 29	0 44	22 49	0 22	12 6	0 22	19 2	1 30	25 42	15 57	23 14	23 19	22 16		n.a.
T 13	4 27	21 26	1 56	11 40	0 24	5 12	1 18	24 19	0 41	12 33	0 44	22 49	0 22	12 7	0 22	19 2	1 31	25 42	15 57	23 14	23 19	22 16		n.a.
F 14	4 4	18 23	3 4	11 54	0 9	4 42	1 17	24 19	0 42	12 37	0 44	22 48	0 22	12 8	0 22	19 2	1 31	25 41	15 57	23 14	23 19	22 15		n.a.
S 15	3 40	14 9	3 59	12 6	0s 5	4 11	1 15	24 18	0 44	12 41	0 44	22 48	0 22	12 9	0 21	19 2	1 31	25 41	15 57	23 15	23 20	22 15		n.a.
S 16	3 17	9 4	4 39	12 15	0 19	3 40	1 14	24 18	0 45	12 45	0 44	22 47	0 22	12 10	0 21	19 2	1 31	25 40	15 57	23 16	23 20	22 14		n.a.
M17	2 54	3 33	4 59	12 23	0 32	3 10	1 13	24 17	0 46	12 49	0 44	22 47	0 22	12 11	0 21	19 2	1 31	25 40	15 57	23 16	23 20	22 13		n.a.
T 18	2 30	2s 2	5 0	12 28	0 45	2 39	1 12	24 16	0 48	12 54	0 43	22 46	0 22	12 12	0 21	19 2	1 31	25 39	15 57	23 17	23 20	22 13		n.a.
W19	2 7	7 23	4 44	12 31	0 57	2 8	1 11	24 14	0 49	12 58	0 43	22 46	0 22	12 13	0 21	19 2	1 31	25 39	15 57	23 18	23 21	22 12		n.a.
T 20	1 43	12 13	4 12	12 31	1 9	1 37	1 9	24 13	0 50	13 2	0 43	22 45	0 22	12 14	0 21	19 1	1 31	25 39	15 58	23 19	23 21	22 12		n.a.
F 21	1 20	16 20	3 28	12 30	1 20	1 6	1 8	24 11	0 52	13 6	0 43	22 45	0 23	12 15	0 21	19 1	1 31	25 38	15 58	23 19	23 21	22 11		n.a.
S 22	0 56	19 35	2 35	12 26	1 30	0 35	1 7	24 9	0 53	13 10	0 43	22 44	0 23	12 16	0 21	19 1	1 31	25 38	15 58	23 19	23 21	22 10		n.a.
S 23	0 33	21 52	1 36	12 20	1 40	0 3	1 5	24 7	0 55	13 15	0 43	22 44	0 23	12 17	0 21	19 1	1 31	25 37	15 58	23 20	23 21	22 10		n.a.
M24	0 9	23 6	0 34	12 12	1 49	0n28	1 3	24 5	0 56	13 19	0 42	22 43	0 23	12 18	0 21	19 1	1 31	25 37	15 58	23 20	23 22	22 9		n.a.
T 25	0n14	23 16	0s29	12 3	1 57	0 59	1 2	24 2	0 58	13 23	0 42	22 43	0 23	12 19	0 21	19 1	1 31	25 37	15 58	23 20	23 22	22 9		n.a.
W26	0 37	22 24	1 30	11 51	2 4	1 30	1 0	24 0	0 59	13 27	0 42	22 43	0 23	12 20	0 21	19 1	1 31	25 36	15 59	23 20	23 22	22 8		n.a.
T 27	1 1	20 32	2 28	11 37	2 11	2 1	0 59	23 57	1 1	13 32	0 42	22 42	0 23	12 21	0 21	19 0	1 31	25 36	15 59	23 20	23 22	22 7		n.a.
F 28	1 24	17 45	3 19	11 21	2 18	2 32	0 57	23 53	1 2	13 36	0 42	22 42	0 23	12 22	0 21	19 0	1 31	25 36	15 59	23 20	23 23	22 7		n.a.
S 29	1 48	14 12	4 2	11 4	2 23	3 3	0 55	23 50	1 4	13 40	0 42	22 41	0 24	12 23	0 21	19 0	1 31	25 35	15 59	23 21	23 23	22 6		n.a.
S 30	2 11	9 59	4 34	10 45	2 28	3 34	0 53	23 47	1 5	13 44	0 41	22 41	0 24	12 25	0 21	19 0	1 31	25 35	15 59	23 22	23 23	22 5		n.a.
M31	2n34	5s17	4s54	10s23	2s33	4n 5	0s51	23s43	1s 7	13n49	0s41	22s41	0s24	12n26	0s21	19s 0	1n31	25s35	16s 0	23n23	23n23	22s 5		n.a.

Julian Day Number = 1663407.5, Delta T = 03h24m29s
Ecliptic obliquity = 23°42'51, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°15'37, Lahiri = - 6°08'36 Julian Calendar 1 March 159 BCE == Greg. Calendar 26 Feb. 159 BCE

The year -158 astronomical counting style corresponds to year 159 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 159 BCE
geocentric

APRIL 159 BCE (-158) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 22 35	7♈22'19	10♈46	10♓48	13♈25	17♑44	8♉36	19♑30	3♉22	0°R26	2♓21	9°R11	9♋11	0♒47	n.a.	T 1
W 2	12 26 31	8°20'25	23°46	11°59	14°39	18°26	8°49	19°33	3°25	0♐26	2°23	8♋58	9° 8	0°53	n.a.	W 2
T 3	12 30 28	9°18'29	6♉58	13°12	15°53	19° 7	9° 2	19°36	3°28	0°25	2°24	8°47	9° 4	1° 0	n.a.	T 3
F 4	12 34 24	10°16'31	20°21	14°28	17° 7	19°49	9°15	19°39	3°32	0°24	2°25	8°38	9° 1	1° 7	n.a.	F 4
S 5	12 38 21	11°14'31	3♊55	15°46	18°21	20°30	9°28	19°42	3°35	0°23	2°26	8°33	8°58	1°13	n.a.	S 5
S 6	12 42 18	12°12'29	17°38	17° 7	19°35	21°12	9°41	19°45	3°38	0°22	2°28	8°30	8°55	1°20	n.a.	S 6
M 7	12 46 14	13°10'26	1♋29	18°29	20°49	21°53	9°54	19°47	3°42	0°21	2°29	8°29	8°52	1°27	n.a.	M 7
T 8	12 50 11	14° 8'20	15°30	19°54	22° 2	22°35	10° 7	19°50	3°45	0°20	2°30	8°29	8°49	1°33	n.a.	T 8
W 9	12 54 7	15° 6'13	29°39	21°21	23°16	23°16	10°20	19°53	3°48	0°19	2°31	8°28	8°45	1°40	n.a.	W 9
T 10	12 58 4	16° 4'03	13♌55	22°50	24°30	23°57	10°34	19°55	3°52	0°18	2°32	8°26	8°42	1°47	n.a.	T 10
F 11	13 2 0	17° 1'52	28°16	24°22	25°44	24°38	10°47	19°57	3°55	0°17	2°34	8°22	8°39	1°53	n.a.	F 11
S 12	13 5 57	17°59'39	12♍39	25°55	26°58	25°19	11° 0	19°59	3°58	0°16	2°35	8°14	8°36	2° 0	n.a.	S 12
S 13	13 9 53	18°57'24	26°59	27°31	28°11	26° 1	11°13	20° 2	4° 2	0°15	2°36	8° 5	8°33	2° 7	n.a.	S 13
M14	13 13 50	19°55'07	11♎ 9	29° 8	29°25	26°42	11°27	20° 4	4° 5	0°14	2°37	7°54	8°29	2°13	n.a.	M14
T 15	13 17 47	20°52'49	25° 5	0♈48	0♉39	27°23	11°40	20° 5	4° 9	0°13	2°38	7°42	8°26	2°20	n.a.	T 15
W16	13 21 43	21°50'29	8♏43	2°29	1°52	28° 4	11°53	20° 7	4°12	0°12	2°39	7°32	8°23	2°26	n.a.	W16
T 17	13 25 40	22°48'09	21°58	4°13	3° 6	28°44	12° 7	20° 9	4°15	0°10	2°40	7°23	8°20	2°33	n.a.	T 17
F 18	13 29 36	23°45'46	4♐52	5°59	4°20	29°25	12°20	20°11	4°19	0° 9	2°41	7°16	8°17	2°40	n.a.	F 18
S 19	13 33 33	24°43'23	17°25	7°47	5°33	0♒ 6	12°34	20°12	4°22	0° 8	2°42	7°12	8°14	2°46	n.a.	S 19
S 20	13 37 29	25°40'59	29°40	9°37	6°47	0°47	12°47	20°14	4°26	0° 7	2°43	7°11	8°10	2°53	n.a.	S 20
M21	13 41 26	26°38'33	11♑41	11°29	8° 1	1°28	13° 1	20°15	4°29	0° 5	2°44	7°D11	8° 7	3° 0	n.a.	M21
T 22	13 45 22	27°36'07	23°33	13°23	9°14	2° 8	13°14	20°16	4°33	0° 4	2°45	7°R11	8° 4	3° 6	n.a.	T 22
W23	13 49 19	28°33'39	5♒22	15°19	10°28	2°49	13°28	20°17	4°36	0° 3	2°46	7°11	8° 1	3°13	n.a.	W23
T 24	13 53 16	29°31'11	17°13	17°17	11°41	3°29	13°42	20°18	4°40	0° 2	2°47	7° 9	7°58	3°20	n.a.	T 24
F 25	13 57 12	0♉28'41	29°12	19°17	12°55	4°10	13°55	20°19	4°43	0° 0	2°48	7° 6	7°55	3°26	n.a.	F 25
S 26	14 1 9	1°26'11	11♓21	21°19	14° 8	4°50	14° 9	20°20	4°47	29♏59	2°49	7° 0	7°51	3°33	n.a.	S 26
S 27	14 5 5	2°23'39	23°46	23°22	15°22	5°30	14°23	20°21	4°50	29°57	2°50	6°51	7°48	3°40	n.a.	S 27
M28	14 9 2	3°21'07	6♈29	25°28	16°35	6°10	14°36	20°22	4°54	29°56	2°51	6°41	7°45	3°46	n.a.	M28
T 29	14 12 58	4°18'33	19°29	27°34	17°49	6°50	14°50	20°22	4°57	29°55	2°51	6°31	7°42	3°53	n.a.	T 29
W30	14 16 55	5♉15'59	2♉48	29♈43	19♉ 2	7♒30	15♉ 4	20♑23	5♉ 1	29♏53	2♓52	6♋21	7♋39	4♒ 0	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	2n57	0s17	5s 0	10s 1	2s36	4n36	0s49	23s39	1s 8	13n53	0s41	22s40	0s24	12n27	0s21	18s59	1n31	25s34	16s 0	23n24	23n24	22s 4		n.a.
W 2	3 21	4n50	4 50	9 36	2 39	5 7	0 48	23 35	1 10	13 57	0 41	22 40	0 24	12 28	0 21	18 59	1 31	25 34	16 0	23 24	23 24	22 3		n.a.
T 3	3 44	9 49	4 25	9 10	2 42	5 37	0 46	23 30	1 11	14 2	0 41	22 40	0 24	12 29	0 21	18 59	1 31	25 34	16 0	23 25	23 24	22 3		n.a.
F 4	4 7	14 25	3 45	8 42	2 44	6 8	0 44	23 26	1 13	14 6	0 41	22 39	0 24	12 30	0 21	18 59	1 31	25 34	16 0	23 26	23 24	22 2		n.a.
S 5	4 30	18 22	2 52	8 12	2 45	6 38	0 41	23 21	1 14	14 10	0 41	22 39	0 24	12 31	0 21	18 59	1 31	25 33	16 1	23 26	23 24	22 1		n.a.
S 6	4 53	21 20	1 48	7 41	2 46	7 8	0 39	23 16	1 16	14 15	0 40	22 39	0 24	12 32	0 21	18 58	1 31	25 33	16 1	23 26	23 25	22 1		n.a.
M 7	5 16	23 5	0 37	7 8	2 46	7 38	0 37	23 11	1 17	14 19	0 40	22 38	0 25	12 34	0 21	18 58	1 31	25 33	16 1	23 26	23 25	22 0		n.a.
T 8	5 38	23 25	0n37	6 34	2 45	8 8	0 35	23 6	1 19	14 23	0 40	22 38	0 25	12 35	0 21	18 58	1 31	25 33	16 1	23 26	23 25	21 59		n.a.
W 9	6 1	22 15	1 50	5 58	2 44	8 38	0 33	23 0	1 21	14 27	0 40	22 38	0 25	12 36	0 21	18 58	1 31	25 32	16 2	23 26	23 25	21 58		n.a.
T 10	6 23	19 38	2 56	5 21	2 42	9 7	0 31	22 55	1 22	14 32	0 40	22 38	0 25	12 37	0 21	18 57	1 32	25 32	16 2	23 27	23 25	21 58		n.a.
F 11	6 46	15 49	3 51	4 42	2 40	9 37	0 29	22 49	1 24	14 36	0 40	22 38	0 25	12 38	0 21	18 57	1 32	25 32	16 2	23 27	23 26	21 57		n.a.
S 12	7 8	11 4	4 32	4 2	2 37	10 6	0 26	22 43	1 25	14 40	0 40	22 37	0 25	12 39	0 21	18 57	1 32	25 32	16 2	23 27	23 26	21 56		n.a.
S 13	7 30	5 43	4 55	3 20	2 33	10 35	0 24	22 37	1 27	14 45	0 39	22 37	0 25	12 41	0 21	18 57	1 32	25 32	16 3	23 28	23 26	21 55		n.a.
M14	7 53	0 8	5 1	2 37	2 29	11 3	0 22	22 31	1 29	14 49	0 39	22 37	0 25	12 42	0 21	18 56	1 32	25 31	16 3	23 29	23 26	21 55		n.a.
T 15	8 14	5s22	4 48	1 53	2 24	11 32	0 19	22 24	1 30	14 53	0 39	22 37	0 26	12 43	0 21	18 56	1 32	25 31	16 3	23 29	23 27	21 54		n.a.
W16	8 36	10 30	4 18	1 8	2 19	12 0	0 17	22 17	1 32	14 58	0 39	22 37	0 26	12 44	0 21	18 56	1 32	25 31	16 4	23 30	23 27	21 53		n.a.
T 17	8 58	15 0	3 35	0 21	2 14	12 28	0 15	22 11	1 34	15 2	0 39	22 36	0 26	12 45	0 21	18 56	1 32	25 31	16 4	23 30	23 27	21 52		n.a.
F 18	9 20	18 41	2 43	0n27	2 7	12 55	0 12	22 4	1 35	15 6	0 39	22 36	0 26	12 47	0 21	18 55	1 32	25 31	16 4	23 31	23 27	21 52		n.a.
S 19	9 41	21 24	1 43	1 17	2 1	13 22	0 10	21 56	1 37	15 10	0 39	22 36	0 26	12 48	0 21	18 55	1 32	25 31	16 4	23 31	23 27	21 51		n.a.
S 20	10 2	23 3	0 40	2 7	1 53	13 49	0 7	21 49	1 39	15 15	0 39	22 36	0 26	12 49	0 21	18 55	1 32	25 31	16 5	23 31	23 28	21 50		n.a.
M21	10 23	23 36	0s24	2 58	1 46	14 16	0 5	21 42	1 41	15 19	0 38	22 36	0 26	12 50	0 21	18 54	1 32	25 31	16 5	23 31	23 28	21 49		n.a.
T 22	10 44	23 3	1 26	3 51	1 38	14 42	0 3	21 34	1 42	15 23	0 38	22 36	0 26	12 51	0 21	18 54	1 32	25 30	16 5	23 31	23 28	21 49		n.a.
W23	11 5	21 28	2 24	4 44	1 29	15 8	0 0	21 26	1 44	15 27	0 38	22 36	0 27	12 52	0 21	18 54	1 32	25 30	16 6	23 31	23 28	21 48		n.a.
T 24	11 26	18 58	3 16	5 38	1 20	15 33	0n 2	21 19	1 46	15 32	0 38	22 36	0 27	12 54	0 21	18 54	1 32	25 30	16 6	23 31	23 28	21 47		n.a.
F 25	11 46	15 38	4 0	6 33	1 11	15 58	0 5	21 11	1 48	15 36	0 38	22 36	0 27	12 55	0 21	18 53	1 32	25 30	16 6	23 31	23 29	21 46		n.a.
S 26	12 6	11 36	4 34	7 28	1 1	16 23	0 7	21 3	1 49	15 40	0 38	22 36	0 27	12 56	0 21	18 53	1 32	25 30	16 6	23 32	23 29	21 45		n.a.
S 27	12 27	7 1	4 56	8 24	0 51	16 47	0 10	20 54	1 51	15 44	0 38	22 36	0 27	12 57	0 21	18 53	1 32	25 30	16 7	23 32	23 29	21 44		n.a.
M28	12 46	2 2	5 4	9 20	0 41	17 11	0 12	20 46	1 53	15 48	0 38	22 36	0 27	12 58	0 21	18 52	1 32	25 30	16 7	23 33	23 29	21 44		n.a.
T 29	13 6	3n 9	4 56	10 16	0 30	17 34	0 15	20 37	1 55	15 53	0 38	22 36	0 27	13 0	0 21	18 52	1 32	25 30	16 7	23 33	23 29	21 43		n.a.
W30	13n26	8n19	4s32	11n11	0s20	17n57	0n17	20s29	1s56	15n57	0s37	22s36	0s28	13n 1	0s21	18s52	1n32	25s30	16s 8	23n34	23n29	21s42		n.a.

Julian Day Number = 1663438.5, Delta T = 03h24m28s
Ecliptic obliquity = 23°42'51, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°15'33, Lahiri = - 6°08'32 Julian Calendar 1 Apr. 159 BCE == Greg. Calendar 29 March 159 BCE

The year -158 astronomical counting style corresponds to year 159 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 159 BCE
geocentric

MAY 159 BCE (-158) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 20 51	6♉13'23	16♉22	1♉52	20♉16	8♒10	15♉18	20♑23	5♉ 4	29°R52	2♓53	6°R12	7♋35	4♒ 6	n.a.	T 1
F 2	14 24 48	7°10'47	0♊10	4° 2	21°29	8°50	15°31	20°23	5° 8	29♏50	2°54	6♋ 5	7°32	4°13	n.a.	F 2
S 3	14 28 44	8° 8'09	14° 7	6°13	22°43	9°30	15°45	20°24	5°11	29°49	2°55	6° 0	7°29	4°20	n.a.	S 3
S 4	14 32 41	9° 5'31	28°11	8°25	23°56	10° 9	15°59	20°R24	5°15	29°47	2°55	5°59	7°26	4°26	n.a.	S 4
M 5	14 36 38	10° 2'51	12♋19	10°37	25°10	10°49	16°13	20°24	5°18	29°46	2°56	5°D58	7°23	4°33	n.a.	M 5
T 6	14 40 34	11° 0'10	26°29	12°49	26°23	11°28	16°26	20°24	5°22	29°44	2°57	5°59	7°20	4°40	n.a.	T 6
W 7	14 44 31	11°57'28	10♌39	15° 0	27°37	12° 8	16°40	20°23	5°25	29°43	2°57	6°R 0	7°16	4°46	n.a.	W 7
T 8	14 48 27	12°54'45	24°47	17°11	28°50	12°47	16°54	20°23	5°29	29°41	2°58	5°59	7°13	4°53	n.a.	T 8
F 9	14 52 24	13°52'00	8♍53	19°21	0♊ 3	13°26	17° 8	20°23	5°32	29°40	2°59	5°57	7°10	5° 0	n.a.	F 9
S 10	14 56 20	14°49'14	22°54	21°30	1°17	14° 5	17°22	20°22	5°36	29°38	2°59	5°52	7° 7	5° 6	n.a.	S 10
S 11	15 0 17	15°46'28	6♎48	23°37	2°30	14°44	17°35	20°21	5°39	29°37	3° 0	5°46	7° 4	5°13	n.a.	S 11
M12	15 4 14	16°43'40	20°32	25°44	3°43	15°22	17°49	20°21	5°43	29°35	3° 0	5°38	7° 0	5°20	n.a.	M12
T 13	15 8 10	17°40'52	4♏ 3	27°48	4°56	16° 1	18° 3	20°20	5°46	29°34	3° 1	5°30	6°57	5°26	n.a.	T 13
W14	15 12 7	18°38'03	17°19	29°51	6°10	16°39	18°17	20°19	5°50	29°32	3° 2	5°23	6°54	5°33	n.a.	W14
T 15	15 16 3	19°35'14	0♐18	1♊52	7°23	17°18	18°31	20°18	5°53	29°30	3° 2	5°17	6°51	5°40	n.a.	T 15
F 16	15 20 0	20°32'24	12°59	3°50	8°36	17°56	18°44	20°17	5°56	29°29	3° 3	5°12	6°48	5°46	n.a.	F 16
S 17	15 23 56	21°29'33	25°25	5°47	9°49	18°34	18°58	20°16	6° 0	29°27	3° 3	5°10	6°45	5°53	n.a.	S 17
S 18	15 27 53	22°26'43	7♑36	7°41	11° 3	19°12	19°12	20°15	6° 3	29°26	3° 4	5°D10	6°41	6° 0	n.a.	S 18
M19	15 31 49	23°23'52	19°35	9°33	12°16	19°50	19°26	20°13	6° 7	29°24	3° 4	5°11	6°38	6° 6	n.a.	M19
T 20	15 35 46	24°21'00	1♒28	11°23	13°29	20°28	19°39	20°12	6°10	29°22	3° 4	5°12	6°35	6°13	n.a.	T 20
W21	15 39 43	25°18'09	13°17	13°11	14°42	21° 5	19°53	20°10	6°13	29°21	3° 5	5°14	6°32	6°20	n.a.	W21
T 22	15 43 39	26°15'17	25° 9	14°56	15°55	21°42	20° 7	20° 9	6°17	29°19	3° 5	5°R14	6°29	6°26	n.a.	T 22
F 23	15 47 36	27°12'26	7♓ 9	16°40	17° 9	22°20	20°21	20° 7	6°20	29°18	3° 5	5°14	6°26	6°33	n.a.	F 23
S 24	15 51 32	28° 9'34	19°20	18°20	18°22	22°57	20°34	20° 5	6°23	29°16	3° 6	5°12	6°22	6°40	n.a.	S 24
S 25	15 55 29	29° 6'42	1♈48	19°59	19°35	23°33	20°48	20° 3	6°27	29°14	3° 6	5° 8	6°19	6°46	n.a.	S 25
M26	15 59 25	0♊ 3'50	14°35	21°35	20°48	24°10	21° 2	20° 1	6°30	29°13	3° 6	5° 3	6°16	6°53	n.a.	M26
T 27	16 3 22	1° 0'58	27°45	23° 8	22° 1	24°47	21°16	19°59	6°33	29°11	3° 7	4°58	6°13	7° 0	n.a.	T 27
W28	16 7 18	1°58'06	11♉16	24°40	23°14	25°23	21°29	19°57	6°36	29°10	3° 7	4°53	6°10	7° 6	n.a.	W28
T 29	16 11 15	2°55'14	25° 8	26° 9	24°27	25°59	21°43	19°55	6°40	29° 8	3° 7	4°48	6° 6	7°13	n.a.	T 29
F 30	16 15 12	3°52'22	9♊18	27°35	25°40	26°35	21°56	19°52	6°43	29° 6	3° 7	4°45	6° 3	7°20	n.a.	F 30
S 31	16 19 8	4♊49'31	23♊40	28♊59	26♊53	27♒11	22♉10	19♑50	6♉46	29♏ 5	3♓ 7	4♋43	6♋ 0	7♒26	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	13n45	13n12	3s53	12n 7	0s 9	18n20	0n20	20s20	1s58	16n 1	0s37	22s36	0s28	13n 2	0s21	18s51	1n32	25s30	16s 8	23n34	23n30	21s41			n.a.
F 2	14 4	17 30	2 59	13 2	0n 2	18 42	0 22	20 11	2 0	16 5	0 37	22 36	0 28	13 3	0 21	18 51	1 32	25 30	16 8	23 34	23 30	21 40			n.a.
S 3	14 23	20 52	1 54	13 56	0 12	19 3	0 24	20 2	2 2	16 9	0 37	22 36	0 28	13 4	0 21	18 51	1 32	25 30	16 9	23 35	23 30	21 39			n.a.
S 4	14 41	23 0	0 42	14 50	0 23	19 24	0 27	19 53	2 4	16 13	0 37	22 36	0 28	13 6	0 21	18 50	1 32	25 30	16 9	23 35	23 30	21 39			n.a.
M 5	15 0	23 42	0n34	15 42	0 33	19 45	0 29	19 44	2 6	16 17	0 37	22 37	0 28	13 7	0 21	18 50	1 32	25 30	16 9	23 35	23 30	21 38			n.a.
T 6	15 18	22 52	1 48	16 32	0 43	20 5	0 32	19 35	2 7	16 21	0 37	22 37	0 28	13 8	0 21	18 50	1 32	25 30	16 10	23 35	23 31	21 37			n.a.
W 7	15 36	20 34	2 55	17 21	0 52	20 24	0 34	19 25	2 9	16 25	0 37	22 37	0 28	13 9	0 21	18 49	1 32	25 30	16 10	23 35	23 31	21 36			n.a.
T 8	15 54	17 2	3 51	18 8	1 2	20 43	0 36	19 16	2 11	16 30	0 37	22 37	0 29	13 10	0 21	18 49	1 32	25 30	16 10	23 35	23 31	21 35			n.a.
F 9	16 11	12 33	4 34	18 53	1 10	21 2	0 39	19 6	2 13	16 34	0 37	22 37	0 29	13 12	0 21	18 49	1 32	25 30	16 11	23 35	23 31	21 34			n.a.
S 10	16 28	7 25	4 59	19 36	1 18	21 19	0 41	18 56	2 15	16 38	0 36	22 37	0 29	13 13	0 21	18 48	1 32	25 30	16 11	23 35	23 31	21 33			n.a.
S 11	16 45	1 58	5 7	20 17	1 26	21 37	0 43	18 47	2 17	16 42	0 36	22 38	0 29	13 14	0 21	18 48	1 32	25 31	16 12	23 35	23 31	21 32			n.a.
M12	17 2	3s32	4 57	20 55	1 33	21 53	0 46	18 37	2 19	16 46	0 36	22 38	0 29	13 15	0 21	18 48	1 32	25 31	16 12	23 36	23 32	21 31			n.a.
T 13	17 18	8 47	4 30	21 31	1 39	22 9	0 48	18 27	2 20	16 50	0 36	22 38	0 29	13 16	0 21	18 47	1 32	25 31	16 12	23 36	23 32	21 31			n.a.
W14	17 34	13 32	3 49	22 4	1 45	22 25	0 50	18 17	2 22	16 54	0 36	22 38	0 29	13 17	0 21	18 47	1 32	25 31	16 13	23 36	23 32	21 30			n.a.
T 15	17 50	17 34	2 57	22 34	1 50	22 39	0 52	18 7	2 24	16 57	0 36	22 39	0 29	13 18	0 21	18 47	1 32	25 31	16 13	23 36	23 32	21 29			n.a.
F 16	18 5	20 41	1 57	23 2	1 54	22 53	0 55	17 57	2 26	17 1	0 36	22 39	0 30	13 20	0 21	18 46	1 32	25 31	16 13	23 37	23 32	21 28			n.a.
S 17	18 21	22 45	0 53	23 27	1 58	23 7	0 57	17 47	2 28	17 5	0 36	22 39	0 30	13 21	0 21	18 46	1 32	25 31	16 14	23 37	23 32	21 27			n.a.
S 18	18 36	23 43	0s13	23 50	2 1	23 20	0 59	17 36	2 30	17 9	0 36	22 40	0 30	13 22	0 21	18 46	1 32	25 32	16 14	23 37	23 33	21 26			n.a.
M19	18 50	23 33	1 18	24 10	2 3	23 32	1 1	17 26	2 32	17 13	0 36	22 40	0 30	13 23	0 21	18 45	1 32	25 32	16 14	23 37	23 33	21 25			n.a.
T 20	19 4	22 18	2 18	24 27	2 4	23 43	1 3	17 16	2 34	17 17	0 35	22 40	0 30	13 24	0 21	18 45	1 32	25 32	16 15	23 37	23 33	21 24			n.a.
W21	19 18	20 5	3 12	24 43	2 5	23 54	1 5	17 5	2 36	17 21	0 35	22 41	0 30	13 25	0 21	18 45	1 32	25 32	16 15	23 37	23 33	21 23			n.a.
T 22	19 32	17 1	3 59	24 55	2 5	24 4	1 7	16 55	2 38	17 24	0 35	22 41	0 30	13 26	0 21	18 44	1 32	25 32	16 16	23 37	23 33	21 22			n.a.
F 23	19 46	13 14	4 35	25 6	2 4	24 14	1 9	16 45	2 40	17 28	0 35	22 41	0 31	13 28	0 21	18 44	1 32	25 33	16 16	23 37	23 33	21 21			n.a.
S 24	19 59	8 51	5 0	25 14	2 3	24 22	1 11	16 34	2 42	17 32	0 35	22 42	0 31	13 29	0 21	18 44	1 32	25 33	16 16	23 37	23 34	21 20			n.a.
S 25	20 11	4 1	5 11	25 20	2 1	24 30	1 13	16 24	2 44	17 36	0 35	22 42	0 31	13 30	0 21	18 43	1 32	25 33	16 17	23 37	23 34	21 19			n.a.
M26	20 24	1n 6	5 7	25 25	1 58	24 38	1 14	16 13	2 46	17 40	0 35	22 43	0 31	13 31	0 21	18 43	1 32	25 33	16 17	23 37	23 34	21 18			n.a.
T 27	20 36	6 19	4 47	25 27	1 55	24 44	1 16	16 3	2 48	17 43	0 35	22 43	0 31	13 32	0 21	18 43	1 32	25 33	16 17	23 37	23 34	21 17			n.a.
W28	20 48	11 24	4 11	25 27	1 51	24 50	1 18	15 52	2 50	17 47	0 35	22 44	0 31	13 33	0 21	18 42	1 32	25 34	16 18	23 37	23 34	21 16			n.a.
T 29	20 59	16 2	3 20	25 26	1 46	24 55	1 19	15 41	2 52	17 51	0 35	22 44	0 31	13 34	0 21	18 42	1 32	25 34	16 18	23 38	23 34	21 15			n.a.
F 30	21 10	19 53	2 15	25 23	1 41	24 59	1 21	15 31	2 54	17 54	0 35	22 45	0 31	13 35	0 21	18 42	1 32	25 34	16 19	23 38	23 34	21 14			n.a.
S 31	21n21	22n33	1s 0	25n18	1n35	25n 3	1n22	15s20	2s56	17n58	0s35	22s45	0s32	13n36	0s21	18s41	1n32	25s35	16s19	23n38	23n35	21s13			n.a.

Julian Day Number = 1663468.5, Delta T = 03h24m27s
Ecliptic obliquity = 23°42'51, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°15'29, Lahiri = - 6°08'28 Julian Calendar 1 May 159 BCE == Greg. Calendar 28 Apr. 159 BCE

The year -158 astronomical counting style corresponds to year 159 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 159 BCE
geocentric

JUNE 159 BCE (-158) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 23 5	5♊46'39	8♋10	0♋21	28♊ 6	27♒46	22♉24	19°R47	6♉49	29°R 3	3♓ 7	4°D43	5♋57	7♒33	n.a.	S 1
M 2	16 27 1	6°43'46	22°41	1°40	29°19	28°21	22°37	19♏45	6°52	29♏ 1	3° 8	4♋44	5°54	7°40	n.a.	M 2
T 3	16 30 58	7°40'54	7♌10	2°56	0♋32	28°56	22°51	19°42	6°56	29° 0	3° 8	4°45	5°51	7°46	n.a.	T 3
W 4	16 34 54	8°38'01	21°31	4°10	1°45	29°31	23° 4	19°39	6°59	28°58	3° 8	4°46	5°47	7°53	n.a.	W 4
T 5	16 38 51	9°35'08	5♍44	5°21	2°58	0♓ 6	23°18	19°36	7° 2	28°57	3° 8	4°R47	5°44	8° 0	n.a.	T 5
F 6	16 42 48	10°32'15	19°44	6°30	4°11	0°40	23°31	19°34	7° 5	28°55	3° 8	4°47	5°41	8° 6	n.a.	F 6
S 7	16 46 44	11°29'22	3♎32	7°35	5°24	1°14	23°45	19°31	7° 8	28°54	3°R 8	4°46	5°38	8°13	n.a.	S 7
S 8	16 50 41	12°26'28	17° 7	8°38	6°37	1°48	23°58	19°27	7°11	28°52	3° 8	4°43	5°35	8°20	n.a.	S 8
M 9	16 54 37	13°23'35	0♏27	9°37	7°50	2°22	24°12	19°24	7°14	28°50	3° 8	4°41	5°32	8°26	n.a.	M 9
T 10	16 58 34	14°20'41	13°34	10°34	9° 2	2°55	24°25	19°21	7°17	28°49	3° 8	4°38	5°28	8°33	n.a.	T 10
W11	17 2 30	15°17'48	26°27	11°27	10°15	3°28	24°38	19°18	7°20	28°47	3° 8	4°35	5°25	8°40	n.a.	W11
T 12	17 6 27	16°14'55	9♐ 6	12°17	11°28	4° 1	24°51	19°15	7°23	28°46	3° 8	4°33	5°22	8°46	n.a.	T 12
F 13	17 10 23	17°12'03	21°32	13° 4	12°41	4°34	25° 5	19°11	7°26	28°44	3° 7	4°31	5°19	8°53	n.a.	F 13
S 14	17 14 20	18° 9'11	3♑45	13°47	13°54	5° 6	25°18	19° 8	7°28	28°43	3° 7	4°D31	5°16	9° 0	n.a.	S 14
S 15	17 18 17	19° 6'19	15°49	14°26	15° 6	5°38	25°31	19° 4	7°31	28°41	3° 7	4°31	5°12	9° 6	n.a.	S 15
M16	17 22 13	20° 3'28	27°45	15° 1	16°19	6°10	25°44	19° 1	7°34	28°40	3° 7	4°32	5° 9	9°13	n.a.	M16
T 17	17 26 10	21° 0'37	9♒36	15°33	17°32	6°41	25°57	18°57	7°37	28°38	3° 7	4°33	5° 6	9°20	n.a.	T 17
W18	17 30 6	21°57'48	21°25	16° 0	18°44	7°12	26°10	18°53	7°40	28°37	3° 6	4°34	5° 3	9°26	n.a.	W18
T 19	17 34 3	22°54'59	3♓17	16°23	19°57	7°43	26°23	18°49	7°42	28°35	3° 6	4°35	5° 0	9°33	n.a.	T 19
F 20	17 37 59	23°52'11	15°16	16°41	21°10	8°13	26°36	18°46	7°45	28°34	3° 6	4°36	4°57	9°40	n.a.	F 20
S 21	17 41 56	24°49'23	27°27	16°55	22°22	8°43	26°49	18°42	7°48	28°33	3° 6	4°R36	4°53	9°46	n.a.	S 21
S 22	17 45 52	25°46'37	9♈53	17° 3	23°35	9°13	27° 2	18°38	7°50	28°31	3° 5	4°36	4°50	9°53	n.a.	S 22
M23	17 49 49	26°43'51	22°40	17°R 8	24°47	9°43	27°15	18°34	7°53	28°30	3° 5	4°35	4°47	10° 0	n.a.	M23
T 24	17 53 46	27°41'07	5♉50	17° 7	26° 0	10°12	27°28	18°30	7°55	28°28	3° 5	4°34	4°44	10° 6	n.a.	T 24
W25	17 57 42	28°38'23	19°25	17° 1	27°12	10°40	27°40	18°26	7°58	28°27	3° 4	4°34	4°41	10°13	n.a.	W25
T 26	18 1 39	29°35'41	3♊24	16°50	28°25	11° 9	27°53	18°22	8° 0	28°26	3° 4	4°33	4°38	10°20	n.a.	T 26
F 27	18 5 35	0♋33'00	17°47	16°34	29°37	11°36	28° 6	18°18	8° 3	28°24	3° 3	4°33	4°34	10°26	n.a.	F 27
S 28	18 9 32	1°30'19	2♋27	16°13	0♌50	12° 4	28°18	18°13	8° 5	28°23	3° 3	4°D33	4°31	10°33	n.a.	S 28
S 29	18 13 28	2°27'40	17°19	15°48	2° 2	12°31	28°31	18° 9	8° 8	28°22	3° 2	4°33	4°28	10°40	n.a.	S 29
M30	18 17 25	3♋25'01	2♌15	15♋18	3♌14	12♓57	28♉43	18♑ 5	8♉10	28♏21	3♓ 2	4♋33	4♋25	10♒46	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n31	23n46	0n19	25n12	1n29	25n 6	1n24	15s10	2s58	18n 1	0s35	22s46	0s32	13n37	0s21	18s41	1n32	25s35	16s19	23n38	23n35	21s12		n.a.
M 2	21 41	23 23	1 37	25 4	1 22	25 8	1 25	14 59	3 0	18 5	0 34	22 46	0 32	13 38	0 21	18 41	1 32	25 35	16 20	23 38	23 35	21 11		n.a.
T 3	21 51	21 25	2 49	24 55	1 14	25 10	1 27	14 49	3 2	18 8	0 34	22 47	0 32	13 39	0 21	18 40	1 32	25 35	16 20	23 38	23 35	21 10		n.a.
W 4	22 0	18 6	3 49	24 45	1 6	25 10	1 28	14 38	3 4	18 12	0 34	22 47	0 32	13 40	0 21	18 40	1 32	25 36	16 20	23 38	23 35	21 9		n.a.
T 5	22 9	13 46	4 35	24 34	0 58	25 10	1 29	14 28	3 6	18 16	0 34	22 48	0 32	13 41	0 21	18 40	1 32	25 36	16 21	23 38	23 35	21 8		n.a.
F 6	22 17	8 45	5 4	24 22	0 49	25 9	1 31	14 17	3 8	18 19	0 34	22 48	0 32	13 42	0 21	18 39	1 32	25 36	16 21	23 38	23 35	21 7		n.a.
S 7	22 25	3 23	5 14	24 8	0 39	25 8	1 32	14 7	3 10	18 22	0 34	22 49	0 32	13 43	0 21	18 39	1 32	25 37	16 22	23 38	23 36	21 6		n.a.
S 8	22 33	2s 4	5 7	23 54	0 29	25 5	1 33	13 56	3 12	18 26	0 34	22 49	0 33	13 44	0 21	18 39	1 32	25 37	16 22	23 38	23 36	21 5		n.a.
M 9	22 40	7 20	4 43	23 40	0 18	25 2	1 34	13 46	3 14	18 29	0 34	22 50	0 33	13 45	0 21	18 38	1 32	25 37	16 22	23 38	23 36	21 4		n.a.
T 10	22 47	12 12	4 5	23 24	0 7	24 58	1 35	13 36	3 16	18 33	0 34	22 50	0 33	13 46	0 21	18 38	1 32	25 38	16 23	23 38	23 36	21 3		n.a.
W11	22 54	16 25	3 15	23 8	0s 5	24 54	1 35	13 25	3 18	18 36	0 34	22 51	0 33	13 47	0 21	18 38	1 32	25 38	16 23	23 38	23 36	21 2		n.a.
T 12	23 0	19 50	2 16	22 52	0 17	24 49	1 36	13 15	3 20	18 39	0 34	22 52	0 33	13 48	0 21	18 37	1 32	25 39	16 23	23 38	23 36	21 0		n.a.
F 13	23 5	22 15	1 11	22 35	0 29	24 43	1 37	13 5	3 22	18 43	0 34	22 52	0 33	13 49	0 21	18 37	1 32	25 39	16 24	23 38	23 36	20 59		n.a.
S 14	23 11	23 35	0 4	22 18	0 42	24 36	1 38	12 55	3 25	18 46	0 34	22 53	0 33	13 50	0 21	18 37	1 32	25 39	16 24	23 38	23 36	20 58		n.a.
S 15	23 16	23 48	1s 2	22 1	0 55	24 28	1 38	12 45	3 27	18 49	0 34	22 54	0 33	13 51	0 21	18 36	1 32	25 40	16 25	23 38	23 37	20 57		n.a.
M16	23 20	22 54	2 5	21 44	1 8	24 20	1 39	12 35	3 29	18 52	0 34	22 54	0 34	13 52	0 21	18 36	1 32	25 40	16 25	23 38	23 37	20 56		n.a.
T 17	23 24	20 59	3 2	21 26	1 22	24 11	1 39	12 25	3 31	18 55	0 33	22 55	0 34	13 53	0 21	18 36	1 32	25 41	16 25	23 38	23 37	20 55		n.a.
W18	23 28	18 10	3 52	21 9	1 36	24 2	1 40	12 15	3 33	18 59	0 33	22 55	0 34	13 54	0 21	18 35	1 32	25 41	16 26	23 38	23 37	20 54		n.a.
T 19	23 31	14 37	4 31	20 53	1 50	23 51	1 40	12 5	3 35	19 2	0 33	22 56	0 34	13 55	0 21	18 35	1 32	25 41	16 26	23 38	23 37	20 53		n.a.
F 20	23 34	10 27	4 59	20 36	2 4	23 40	1 40	11 56	3 37	19 5	0 33	22 57	0 34	13 56	0 21	18 35	1 32	25 42	16 26	23 38	23 37	20 52		n.a.
S 21	23 37	5 50	5 15	20 21	2 18	23 29	1 40	11 46	3 39	19 8	0 33	22 57	0 34	13 56	0 21	18 35	1 31	25 42	16 27	23 38	23 37	20 50		n.a.
S 22	23 39	0 52	5 16	20 5	2 32	23 17	1 40	11 37	3 41	19 11	0 33	22 58	0 34	13 57	0 21	18 34	1 31	25 43	16 27	23 38	23 37	20 49		n.a.
M23	23 40	4n15	5 2	19 51	2 47	23 4	1 40	11 27	3 43	19 14	0 33	22 59	0 34	13 58	0 21	18 34	1 31	25 43	16 27	23 38	23 38	20 48		n.a.
T 24	23 42	9 21	4 31	19 37	3 0	22 50	1 40	11 18	3 45	19 17	0 33	22 59	0 35	13 59	0 21	18 34	1 31	25 44	16 28	23 38	23 38	20 47		n.a.
W25	23 42	14 10	3 45	19 25	3 14	22 36	1 40	11 9	3 48	19 20	0 33	23 0	0 35	14 0	0 21	18 34	1 31	25 44	16 28	23 38	23 38	20 46		n.a.
T 26	23 43	18 23	2 44	19 13	3 27	22 21	1 40	11 0	3 50	19 23	0 33	23 1	0 35	14 1	0 21	18 33	1 31	25 45	16 28	23 38	23 38	20 45		n.a.
F 27	23 43	21 37	1 32	19 2	3 40	22 5	1 39	10 51	3 52	19 26	0 33	23 1	0 35	14 1	0 21	18 33	1 31	25 45	16 29	23 38	23 38	20 44		n.a.
S 28	23 42	23 30	0 12	18 53	3 51	21 49	1 39	10 42	3 54	19 29	0 33	23 2	0 35	14 2	0 21	18 33	1 31	25 46	16 29	23 38	23 38	20 42		n.a.
S 29	23 41	23 44	1n10	18 45	4 2	21 32	1 39	10 34	3 56	19 31	0 33	23 3	0 35	14 3	0 21	18 33	1 31	25 46	16 29	23 38	23 38	20 41		n.a.
M30	23n40	22n17	2n28	18n39	4s12	21n15	1n38	10s25	3s58	19n34	0s33	23s 3	0s35	14n 4	0s21	18s32	1n31	25s47	16s30	23n38	23n38	20s40		n.a.

Julian Day Number = 1663499.5, Delta T = 03h24m26s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°15'24, Lahiri = - 6°08'24 Julian Calendar 1 June 159 BCE == Greg. Calendar 29 May 159 BCE

The year -158 astronomical counting style corresponds to year 159 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 159 BCE
geocentric

JULY 159 BCE (-158) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 21 21	4♋22'23	17♌ 6	14°R44	4♌27	13♓24	28♉56	18°R 1	8♉12	28°R19	3°R 1	4°R33	4♋22	10♒53	n.a.	T 1
W 2	18 25 18	5°19'46	1♍47	14♋ 7	5°39	13°49	29° 8	17♊56	8°15	28♏18	3♓ 1	4♋33	4°18	11° 0	n.a.	W 2
T 3	18 29 15	6°17'09	16°12	13°26	6°51	14°15	29°20	17°52	8°17	28°17	3° 0	4°33	4°15	11° 6	n.a.	T 3
F 4	18 33 11	7°14'33	0♎17	12°43	8° 4	14°39	29°33	17°48	8°19	28°16	3° 0	4°33	4°12	11°13	n.a.	F 4
S 5	18 37 8	8°11'58	14° 2	11°57	9°16	15° 4	29°45	17°43	8°21	28°15	2°59	4°D33	4° 9	11°20	n.a.	S 5
S 6	18 41 4	9° 9'24	27°26	11°11	10°28	15°27	29°57	17°39	8°23	28°13	2°58	4°33	4° 6	11°26	n.a.	S 6
M 7	18 45 1	10° 6'50	10♏32	10°25	11°40	15°51	0♊ 9	17°34	8°25	28°12	2°58	4°33	4° 3	11°33	n.a.	M 7
T 8	18 48 57	11° 4'17	23°20	9°38	12°52	16°14	0°21	17°30	8°27	28°11	2°57	4°34	3°59	11°40	n.a.	T 8
W 9	18 52 54	12° 1'46	5♐54	8°54	14° 4	16°36	0°33	17°25	8°29	28°10	2°57	4°35	3°56	11°46	n.a.	W 9
T 10	18 56 50	12°59'15	18°15	8°12	15°16	16°58	0°44	17°21	8°31	28° 9	2°56	4°35	3°53	11°53	n.a.	T 10
F 11	19 0 47	13°56'46	0♑26	7°33	16°28	17°19	0°56	17°16	8°33	28° 8	2°55	4°R36	3°50	12° 0	n.a.	F 11
S 12	19 4 44	14°54'18	12°28	6°57	17°40	17°40	1° 8	17°12	8°35	28° 7	2°54	4°35	3°47	12° 7	n.a.	S 12
S 13	19 8 40	15°51'51	24°24	6°27	18°52	18° 0	1°19	17° 7	8°37	28° 6	2°54	4°35	3°44	12°13	n.a.	S 13
M14	19 12 37	16°49'26	6♒16	6° 2	20° 4	18°19	1°31	17° 3	8°39	28° 5	2°53	4°34	3°40	12°20	n.a.	M14
T 15	19 16 33	17°47'01	18° 6	5°43	21°16	18°38	1°42	16°58	8°40	28° 4	2°52	4°32	3°37	12°27	n.a.	T 15
W16	19 20 30	18°44'39	29°56	5°30	22°28	18°57	1°54	16°54	8°42	28° 3	2°51	4°30	3°34	12°33	n.a.	W16
T 17	19 24 26	19°42'18	11♓49	5°D24	23°40	19°14	2° 5	16°49	8°44	28° 3	2°51	4°28	3°31	12°40	n.a.	T 17
F 18	19 28 23	20°39'58	23°49	5°25	24°51	19°31	2°16	16°45	8°45	28° 2	2°50	4°26	3°28	12°47	n.a.	F 18
S 19	19 32 20	21°37'40	5♈58	5°34	26° 3	19°48	2°27	16°40	8°47	28° 1	2°49	4°24	3°24	12°53	n.a.	S 19
S 20	19 36 16	22°35'24	18°23	5°50	27°15	20° 4	2°38	16°36	8°48	28° 0	2°48	4°D24	3°21	13° 0	n.a.	S 20
M21	19 40 13	23°33'10	1♉ 5	6°13	28°26	20°19	2°49	16°31	8°50	27°59	2°47	4°24	3°18	13° 7	n.a.	M21
T 22	19 44 9	24°30'57	14°10	6°44	29°38	20°33	3° 0	16°27	8°51	27°59	2°46	4°24	3°15	13°13	n.a.	T 22
W23	19 48 6	25°28'46	27°39	7°23	0♍50	20°47	3°11	16°23	8°52	27°58	2°45	4°26	3°12	13°20	n.a.	W23
T 24	19 52 2	26°26'38	11♊35	8° 8	2° 1	21° 0	3°22	16°18	8°54	27°57	2°44	4°27	3° 9	13°27	n.a.	T 24
F 25	19 55 59	27°24'31	25°58	9° 1	3°13	21°12	3°32	16°14	8°55	27°57	2°44	4°28	3° 5	13°33	n.a.	F 25
S 26	19 59 55	28°22'26	10♋43	10° 1	4°24	21°24	3°43	16° 9	8°56	27°56	2°43	4°R28	3° 2	13°40	n.a.	S 26
S 27	20 3 52	29°20'22	25°46	11° 7	5°35	21°34	3°53	16° 5	8°57	27°56	2°42	4°27	2°59	13°47	n.a.	S 27
M28	20 7 49	0♌18'21	10♌58	12°20	6°47	21°44	4° 3	16° 1	8°59	27°55	2°41	4°25	2°56	13°53	n.a.	M28
T 29	20 11 45	1°16'21	26° 8	13°38	7°58	21°53	4°13	15°57	9° 0	27°55	2°40	4°22	2°53	14° 0	n.a.	T 29
W30	20 15 42	2°14'22	11♍ 8	15° 3	9° 9	22° 2	4°24	15°52	9° 1	27°54	2°39	4°18	2°50	14° 7	n.a.	W30
T 31	20 19 38	3♌12'25	25♍49	16♋32	10♍20	22♓ 9	4♊34	15♊48	9♉ 2	27♏54	2♓38	4♋14	2♋46	14♒13	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	23n38	19n18	3n35	18n33	4s21	20n57	1n37	10s17	4s 0	19n37	0s33	23s 4	0s35	14n 4	0s21	18s32	1n31	25s47	16s30	23n38	23n38	20s39			n.a.
W 2	23 36	15 7	4 27	18 30	4 29	20 38	1 37	10 9	4 2	19 40	0 33	23 5	0 35	14 5	0 21	18 32	1 31	25 48	16 30	23 38	23 39	20 38			n.a.
T 3	23 34	10 7	5 1	18 28	4 35	20 19	1 36	10 1	4 4	19 43	0 33	23 6	0 36	14 6	0 21	18 32	1 31	25 48	16 31	23 38	23 39	20 36			n.a.
F 4	23 31	4 43	5 17	18 27	4 40	19 59	1 35	9 53	4 6	19 45	0 33	23 6	0 36	14 7	0 21	18 31	1 31	25 49	16 31	23 38	23 39	20 35			n.a.
S 5	23 27	0s47	5 13	18 28	4 43	19 39	1 34	9 46	4 8	19 48	0 33	23 7	0 36	14 7	0 21	18 31	1 31	25 49	16 31	23 38	23 39	20 34			n.a.
S 6	23 24	6 8	4 53	18 31	4 44	19 18	1 33	9 38	4 10	19 51	0 32	23 8	0 36	14 8	0 21	18 31	1 31	25 50	16 32	23 38	23 39	20 33			n.a.
M 7	23 19	11 5	4 17	18 35	4 44	18 57	1 32	9 31	4 13	19 53	0 32	23 8	0 36	14 9	0 21	18 31	1 31	25 50	16 32	23 38	23 39	20 32			n.a.
T 8	23 15	15 26	3 30	18 41	4 41	18 35	1 31	9 24	4 15	19 56	0 32	23 9	0 36	14 9	0 21	18 31	1 31	25 51	16 32	23 38	23 39	20 30			n.a.
W 9	23 10	19 2	2 33	18 48	4 37	18 13	1 29	9 17	4 17	19 58	0 32	23 10	0 36	14 10	0 21	18 30	1 31	25 51	16 33	23 38	23 39	20 29			n.a.
T 10	23 4	21 42	1 29	18 57	4 31	17 50	1 28	9 10	4 19	20 1	0 32	23 10	0 36	14 11	0 21	18 30	1 31	25 52	16 33	23 38	23 39	20 28			n.a.
F 11	22 58	23 20	0 23	19 7	4 24	17 27	1 27	9 3	4 21	20 3	0 32	23 11	0 36	14 11	0 21	18 30	1 31	25 52	16 33	23 38	23 39	20 27			n.a.
S 12	22 52	23 51	0s44	19 18	4 14	17 4	1 25	8 57	4 23	20 6	0 32	23 12	0 36	14 12	0 21	18 30	1 31	25 53	16 34	23 38	23 40	20 25			n.a.
S 13	22 46	23 15	1 48	19 30	4 4	16 40	1 24	8 51	4 25	20 8	0 32	23 12	0 36	14 12	0 21	18 30	1 31	25 53	16 34	23 38	23 40	20 24			n.a.
M14	22 38	21 36	2 47	19 43	3 52	16 15	1 22	8 45	4 27	20 11	0 32	23 13	0 37	14 13	0 21	18 29	1 31	25 54	16 34	23 38	23 40	20 23			n.a.
T 15	22 31	19 2	3 38	19 57	3 39	15 50	1 20	8 39	4 29	20 13	0 32	23 14	0 37	14 13	0 21	18 29	1 31	25 55	16 34	23 38	23 40	20 22			n.a.
W16	22 23	15 41	4 20	20 12	3 24	15 25	1 18	8 34	4 31	20 15	0 32	23 14	0 37	14 14	0 21	18 29	1 30	25 55	16 35	23 38	23 40	20 20			n.a.
T 17	22 15	11 41	4 52	20 27	3 9	14 59	1 16	8 29	4 33	20 18	0 32	23 15	0 37	14 15	0 21	18 29	1 30	25 56	16 35	23 38	23 40	20 19			n.a.
F 18	22 6	7 13	5 10	20 43	2 54	14 33	1 14	8 23	4 35	20 20	0 32	23 16	0 37	14 15	0 21	18 29	1 30	25 56	16 35	23 38	23 40	20 18			n.a.
S 19	21 57	2 25	5 16	20 58	2 37	14 7	1 12	8 19	4 36	20 22	0 32	23 16	0 37	14 16	0 21	18 29	1 30	25 57	16 35	23 38	23 40	20 16			n.a.
S 20	21 48	2n34	5 6	21 14	2 21	13 40	1 10	8 14	4 38	20 24	0 32	23 17	0 37	14 16	0 21	18 29	1 30	25 57	16 36	23 38	23 40	20 15			n.a.
M21	21 38	7 35	4 42	21 30	2 4	13 13	1 8	8 10	4 40	20 27	0 32	23 18	0 37	14 16	0 21	18 28	1 30	25 58	16 36	23 38	23 40	20 14			n.a.
T 22	21 28	12 24	4 3	21 45	1 47	12 45	1 6	8 6	4 42	20 29	0 32	23 18	0 37	14 17	0 21	18 28	1 30	25 58	16 36	23 38	23 40	20 13			n.a.
W23	21 17	16 47	3 9	22 0	1 30	12 17	1 3	8 2	4 44	20 31	0 32	23 19	0 37	14 17	0 21	18 28	1 30	25 59	16 36	23 38	23 41	20 11			n.a.
T 24	21 6	20 24	2 3	22 14	1 14	11 49	1 1	7 58	4 46	20 33	0 32	23 19	0 37	14 18	0 21	18 28	1 30	26 0	16 37	23 38	23 41	20 10			n.a.
F 25	20 55	22 52	0 47	22 27	0 57	11 21	0 58	7 55	4 47	20 35	0 32	23 20	0 37	14 18	0 21	18 28	1 30	26 0	16 37	23 38	23 41	20 9			n.a.
S 26	20 43	23 51	0n34	22 38	0 42	10 52	0 56	7 52	4 49	20 37	0 32	23 21	0 38	14 19	0 21	18 28	1 30	26 1	16 37	23 38	23 41	20 7			n.a.
S 27	20 31	23 6	1 55	22 48	0 26	10 23	0 53	7 49	4 51	20 39	0 32	23 21	0 38	14 19	0 21	18 28	1 30	26 1	16 37	23 38	23 41	20 6			n.a.
M28	20 19	20 41	3 7	22 57	0 12	9 54	0 50	7 47	4 53	20 41	0 32	23 22	0 38	14 19	0 21	18 28	1 30	26 2	16 38	23 38	23 41	20 5			n.a.
T 29	20 6	16 48	4 7	23 3	0n 3	9 25	0 48	7 45	4 54	20 43	0 32	23 23	0 38	14 20	0 21	18 28	1 30	26 2	16 38	23 38	23 41	20 3			n.a.
W30	19 53	11 54	4 48	23 7	0 16	8 55	0 45	7 43	4 56	20 45	0 32	23 23	0 38	14 20	0 21	18 28	1 30	26 3	16 38	23 39	23 41	20 2			n.a.
T 31	19n40	6n25	5n10	23n 9	0n28	8n25	0n42	7s41	4s57	20n47	0s32	23s24	0s38	14n20	0s21	18s28	1n30	26s 4	16s38	23n39	23n41	20s 1			n.a.

Julian Day Number = 1663529.5, Delta T = 03h24m25s
Ecliptic obliquity = 23°42'51, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°15'20, Lahiri = - 6°08'20 Julian Calendar 1 July 159 BCE == Greg. Calendar 28 June 159 BCE

The year -158 astronomical counting style corresponds to year 159 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 159 BCE
geocentric

AUGUST 159 BCE (-158) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 23 35	4♌10'29	10♎ 6	18♋ 6	11♍32	22♓16	4♊43	15°R44	9♉ 3	27°R53	2°R37	4°R11	2♋43	14♒20	n.a.	F 1
S 2	20 27 31	5° 8'35	23°56	19°44	12°43	22°22	4°53	15♉40	9° 3	27♏53	2♓36	4♋ 9	2°40	14°27	n.a.	S 2
S 3	20 31 28	6° 6'42	7♏19	21°25	13°54	22°27	5° 3	15°36	9° 4	27°52	2°35	4°D 9	2°37	14°33	n.a.	S 3
M 4	20 35 24	7° 4'51	20°19	23°10	15° 5	22°31	5°12	15°32	9° 5	27°52	2°34	4° 9	2°34	14°40	n.a.	M 4
T 5	20 39 21	8° 3'02	2♐58	24°57	16°16	22°35	5°22	15°28	9° 6	27°52	2°32	4°11	2°30	14°47	n.a.	T 5
W 6	20 43 17	9° 1'14	15°20	26°47	17°26	22°37	5°31	15°24	9° 6	27°52	2°31	4°13	2°27	14°53	n.a.	W 6
T 7	20 47 14	9°59'27	27°29	28°39	18°37	22°39	5°40	15°20	9° 7	27°51	2°30	4°14	2°24	15° 0	n.a.	T 7
F 8	20 51 11	10°57'43	9♑29	0♌31	19°48	22°R40	5°49	15°16	9° 8	27°51	2°29	4°R14	2°21	15° 7	n.a.	F 8
S 9	20 55 7	11°56'00	21°23	2°25	20°59	22°40	5°58	15°12	9° 8	27°51	2°28	4°12	2°18	15°14	n.a.	S 9
S 10	20 59 4	12°54'19	3♒14	4°20	22° 9	22°39	6° 7	15° 8	9° 9	27°51	2°27	4° 9	2°15	15°20	n.a.	S 10
M11	21 3 0	13°52'40	15° 4	6°15	23°20	22°37	6°16	15° 5	9° 9	27°51	2°26	4° 4	2°11	15°27	n.a.	M11
T 12	21 6 57	14°51'03	26°54	8°10	24°30	22°34	6°25	15° 1	9°10	27°51	2°25	3°57	2° 8	15°34	n.a.	T 12
W13	21 10 53	15°49'28	8♓48	10° 5	25°41	22°31	6°33	14°58	9°10	27°51	2°24	3°49	2° 5	15°40	n.a.	W13
T 14	21 14 50	16°47'54	20°46	12° 0	26°51	22°26	6°41	14°54	9°10	27°D51	2°22	3°41	2° 2	15°47	n.a.	T 14
F 15	21 18 46	17°46'23	2♈50	13°54	28° 1	22°21	6°50	14°51	9°10	27°51	2°21	3°34	1°59	15°54	n.a.	F 15
S 16	21 22 43	18°44'54	15° 3	15°48	29°11	22°15	6°58	14°47	9°10	27°51	2°20	3°27	1°55	16° 0	n.a.	S 16
S 17	21 26 40	19°43'28	27°29	17°41	0♎22	22° 8	7° 6	14°44	9°11	27°51	2°19	3°23	1°52	16° 7	n.a.	S 17
M18	21 30 36	20°42'03	10♉ 9	19°33	1°32	22° 0	7°14	14°41	9°11	27°51	2°18	3°21	1°49	16°14	n.a.	M18
T 19	21 34 33	21°40'42	23° 8	21°24	2°42	21°52	7°21	14°38	9°R11	27°51	2°17	3°D20	1°46	16°20	n.a.	T 19
W20	21 38 29	22°39'22	6♊29	23°15	3°51	21°42	7°29	14°35	9°11	27°51	2°15	3°21	1°43	16°27	n.a.	W20
T 21	21 42 26	23°38'05	20°15	25° 4	5° 1	21°32	7°36	14°32	9°11	27°51	2°14	3°22	1°40	16°34	n.a.	T 21
F 22	21 46 22	24°36'50	4♋27	26°53	6°11	21°21	7°43	14°29	9°10	27°52	2°13	3°R22	1°36	16°40	n.a.	F 22
S 23	21 50 19	25°35'38	19° 3	28°41	7°21	21° 9	7°51	14°26	9°10	27°52	2°12	3°21	1°33	16°47	n.a.	S 23
S 24	21 54 15	26°34'27	4♌ 1	0♍28	8°30	20°56	7°58	14°23	9°10	27°52	2°11	3°18	1°30	16°54	n.a.	S 24
M25	21 58 12	27°33'19	19°13	2°14	9°40	20°43	8° 4	14°21	9°10	27°53	2°10	3°12	1°27	17° 0	n.a.	M25
T 26	22 2 9	28°32'13	4♍29	3°58	10°49	20°28	8°11	14°18	9° 9	27°53	2° 8	3° 5	1°24	17° 7	n.a.	T 26
W27	22 6 5	29°31'09	19°38	5°42	11°59	20°14	8°18	14°15	9° 9	27°53	2° 7	2°56	1°21	17°14	n.a.	W27
T 28	22 10 2	0♍30'08	4♎31	7°25	13° 8	19°58	8°24	14°13	9° 9	27°54	2° 6	2°48	1°17	17°21	n.a.	T 28
F 29	22 13 58	1°29'08	18°59	9° 7	14°17	19°42	8°30	14°11	9° 8	27°54	2° 5	2°40	1°14	17°27	n.a.	F 29
S 30	22 17 55	2°28'09	2♏58	10°48	15°26	19°26	8°36	14° 8	9° 7	27°55	2° 4	2°34	1°11	17°34	n.a.	S 30
S 31	22 21 51	3♍27'13	16♏27	12♍28	16♎35	19♓ 9	8♊42	14♉ 6	9♉ 7	27♏55	2♓ 2	2♋31	1♋ 8	17♒41	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	19n26	0n44	5n12	23n 8	0n40	7n55	0n39	7s40	4s59	20n49	0s32	23s24	0s38	14n21	0s21	18s28	1n30	26s 4	16s38	23n39	23n41	19s59		n.a.
S 2	19 12	4s49	4 55	23 5	0 51	7 25	0 36	7 39	5 0	20 50	0 31	23 25	0 38	14 21	0 21	18 28	1 30	26 5	16 39	23 39	23 41	19 58		n.a.
S 3	18 58	9 59	4 22	22 59	1 0	6 55	0 33	7 38	5 2	20 52	0 31	23 25	0 38	14 21	0 21	18 28	1 30	26 5	16 39	23 39	23 41	19 56		n.a.
M 4	18 43	14 32	3 37	22 50	1 9	6 24	0 30	7 38	5 3	20 54	0 31	23 26	0 38	14 21	0 21	18 28	1 29	26 6	16 39	23 39	23 41	19 55		n.a.
T 5	18 28	18 20	2 43	22 39	1 17	5 53	0 26	7 37	5 4	20 56	0 31	23 26	0 38	14 22	0 21	18 28	1 29	26 6	16 39	23 39	23 41	19 54		n.a.
W 6	18 12	21 13	1 41	22 25	1 24	5 22	0 23	7 37	5 5	20 57	0 31	23 27	0 38	14 22	0 21	18 28	1 29	26 7	16 39	23 39	23 41	19 52		n.a.
T 7	17 57	23 5	0 37	22 8	1 30	4 51	0 20	7 38	5 6	20 59	0 31	23 27	0 38	14 22	0 21	18 28	1 29	26 8	16 40	23 39	23 42	19 51		n.a.
F 8	17 41	23 51	0s29	21 49	1 35	4 20	0 16	7 38	5 8	21 1	0 31	23 28	0 38	14 22	0 21	18 28	1 29	26 8	16 40	23 39	23 42	19 50		n.a.
S 9	17 25	23 30	1 32	21 28	1 39	3 49	0 13	7 39	5 9	21 2	0 31	23 28	0 39	14 22	0 21	18 28	1 29	26 9	16 40	23 39	23 42	19 48		n.a.
S 10	17 8	22 6	2 31	21 4	1 43	3 17	0 9	7 41	5 9	21 4	0 31	23 29	0 39	14 22	0 21	18 28	1 29	26 9	16 40	23 39	23 42	19 47		n.a.
M11	16 51	19 44	3 23	20 38	1 45	2 46	0 6	7 42	5 10	21 5	0 31	23 29	0 39	14 23	0 21	18 28	1 29	26 10	16 40	23 39	23 42	19 45		n.a.
T 12	16 34	16 33	4 7	20 9	1 47	2 14	0 2	7 44	5 11	21 7	0 31	23 30	0 39	14 23	0 21	18 28	1 29	26 10	16 40	23 39	23 42	19 44		n.a.
W13	16 17	12 41	4 40	19 39	1 48	1 43	0s 1	7 46	5 12	21 8	0 31	23 30	0 39	14 23	0 21	18 28	1 29	26 11	16 40	23 40	23 42	19 42		n.a.
T 14	15 59	8 18	5 1	19 8	1 49	1 11	0 5	7 48	5 12	21 10	0 31	23 31	0 39	14 23	0 21	18 28	1 29	26 11	16 40	23 40	23 42	19 41		n.a.
F 15	15 41	3 34	5 8	18 34	1 48	0 40	0 9	7 51	5 13	21 11	0 31	23 31	0 39	14 23	0 21	18 28	1 29	26 12	16 41	23 40	23 42	19 40		n.a.
S 16	15 23	1n22	5 2	17 59	1 47	0 8	0 13	7 53	5 13	21 13	0 31	23 32	0 39	14 23	0 21	18 28	1 29	26 12	16 41	23 40	23 42	19 38		n.a.
S 17	15 4	6 19	4 42	17 23	1 46	0s24	0 17	7 56	5 13	21 14	0 31	23 32	0 39	14 23	0 21	18 28	1 29	26 13	16 41	23 40	23 42	19 37		n.a.
M18	14 45	11 7	4 7	16 46	1 44	0 55	0 20	8 0	5 14	21 15	0 31	23 32	0 39	14 23	0 21	18 28	1 29	26 14	16 41	23 40	23 42	19 35		n.a.
T 19	14 26	15 33	3 20	16 8	1 41	1 27	0 24	8 3	5 14	21 17	0 31	23 33	0 39	14 23	0 21	18 28	1 29	26 14	16 41	23 40	23 42	19 34		n.a.
W20	14 7	19 21	2 20	15 28	1 38	1 59	0 28	8 7	5 14	21 18	0 31	23 33	0 39	14 23	0 21	18 28	1 29	26 15	16 41	23 40	23 42	19 32		n.a.
T 21	13 48	22 11	1 10	14 48	1 35	2 31	0 32	8 11	5 13	21 19	0 31	23 34	0 39	14 23	0 21	18 28	1 29	26 15	16 41	23 40	23 42	19 31		n.a.
F 22	13 28	23 44	0n 6	14 7	1 31	3 2	0 36	8 15	5 13	21 20	0 31	23 34	0 39	14 23	0 21	18 28	1 28	26 16	16 41	23 40	23 42	19 29		n.a.
S 23	13 8	23 43	1 23	13 25	1 27	3 34	0 40	8 20	5 13	21 22	0 31	23 34	0 39	14 23	0 21	18 29	1 28	26 16	16 41	23 40	23 42	19 28		n.a.
S 24	12 48	22 1	2 37	12 43	1 22	4 5	0 44	8 24	5 12	21 23	0 31	23 35	0 39	14 23	0 21	18 29	1 28	26 17	16 41	23 40	23 42	19 26		n.a.
M25	12 28	18 43	3 40	12 0	1 18	4 37	0 48	8 29	5 11	21 24	0 31	23 35	0 39	14 23	0 21	18 29	1 28	26 17	16 41	23 40	23 42	19 25		n.a.
T 26	12 7	14 8	4 28	11 17	1 13	5 8	0 52	8 34	5 10	21 25	0 31	23 35	0 39	14 22	0 21	18 29	1 28	26 18	16 41	23 41	23 42	19 23		n.a.
W27	11 46	8 41	4 57	10 34	1 7	5 39	0 56	8 39	5 10	21 26	0 31	23 36	0 39	14 22	0 21	18 29	1 28	26 18	16 41	23 41	23 42	19 22		n.a.
T 28	11 25	2 51	5 5	9 50	1 2	6 10	1 1	8 44	5 8	21 27	0 31	23 36	0 39	14 22	0 21	18 29	1 28	26 19	16 41	23 41	23 42	19 20		n.a.
F 29	11 4	3s 0	4 53	9 6	0 56	6 41	1 5	8 49	5 7	21 28	0 31	23 36	0 39	14 22	0 21	18 29	1 28	26 19	16 41	23 41	23 43	19 19		n.a.
S 30	10 43	8 31	4 24	8 22	0 50	7 12	1 9	8 54	5 6	21 29	0 31	23 36	0 39	14 22	0 21	18 30	1 28	26 20	16 41	23 41	23 43	19 17		n.a.
S 31	10n21	13s26	3n40	7n38	0n44	7s43	1s13	9s 0	5s 4	21n30	0s31	23s37	0s39	14n22	0s21	18s30	1n28	26s20	16s41	23n41	23n43	19s16		n.a.

Julian Day Number = 1663560.5, Delta T = 03h24m24s
Ecliptic obliquity = 23°42'51, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°15'16, Lahiri = - 6°08'16 Julian Calendar 1 Aug. 159 BCE == Greg. Calendar 29 July 159 BCE

The year -158 astronomical counting style corresponds to year 159 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 159 BCE
geocentric

SEPTEMBER 159 BCE (-158) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 25 48	4♍26'19	29♏29	14♍ 8	17♎44	18°R51	8♊48	14°R 4	9°R 6	27♏56	2°R 1	2°D29	1♋ 5	17♒47	n.a.	M 1
T 2	22 29 44	5°25'27	12♐ 6	15°46	18°53	18♓33	8°53	14♑ 2	9♉ 6	27°57	2♓ 0	2♋29	1° 1	17°54	n.a.	T 2
W 3	22 33 41	6°24'36	24°24	17°24	20° 2	18°15	8°59	14° 0	9° 5	27°57	1°59	2°30	0°58	18° 1	n.a.	W 3
T 4	22 37 37	7°23'47	6♑28	19° 0	21°10	17°57	9° 4	13°59	9° 4	27°58	1°58	2°R30	0°55	18° 7	n.a.	T 4
F 5	22 41 34	8°23'01	18°23	20°36	22°19	17°38	9° 9	13°57	9° 3	27°59	1°56	2°29	0°52	18°14	n.a.	F 5
S 6	22 45 31	9°22'16	0♒13	22°11	23°27	17°19	9°14	13°55	9° 2	27°59	1°55	2°25	0°49	18°21	n.a.	S 6
S 7	22 49 27	10°21'33	12° 2	23°46	24°35	16°59	9°19	13°54	9° 1	28° 0	1°54	2°19	0°46	18°27	n.a.	S 7
M 8	22 53 24	11°20'52	23°52	25°19	25°43	16°40	9°23	13°52	9° 0	28° 1	1°53	2°10	0°42	18°34	n.a.	M 8
T 9	22 57 20	12°20'13	5♓47	26°52	26°51	16°21	9°28	13°51	8°59	28° 2	1°52	1°58	0°39	18°41	n.a.	T 9
W10	23 1 17	13°19'37	17°47	28°24	27°59	16° 1	9°32	13°50	8°58	28° 3	1°50	1°45	0°36	18°47	n.a.	W10
T 11	23 5 13	14°19'02	29°54	29°55	29° 7	15°41	9°36	13°49	8°57	28° 4	1°49	1°32	0°33	18°54	n.a.	T 11
F 12	23 9 10	15°18'30	12♈ 9	1♎26	0♏14	15°22	9°40	13°48	8°56	28° 5	1°48	1°19	0°30	19° 1	n.a.	F 12
S 13	23 13 6	16°17'59	24°33	2°56	1°21	15° 3	9°43	13°47	8°55	28° 6	1°47	1° 8	0°27	19° 8	n.a.	S 13
S 14	23 17 3	17°17'32	7♉ 6	4°25	2°29	14°43	9°47	13°46	8°53	28° 7	1°46	1° 0	0°23	19°14	n.a.	S 14
M15	23 21 0	18°17'06	19°52	5°53	3°36	14°24	9°50	13°45	8°52	28° 8	1°45	0°54	0°20	19°21	n.a.	M15
T 16	23 24 56	19°16'43	2♊53	7°20	4°43	14° 6	9°53	13°45	8°51	28° 9	1°44	0°51	0°17	19°28	n.a.	T 16
W17	23 28 53	20°16'23	16°10	8°47	5°50	13°47	9°56	13°44	8°49	28°10	1°42	0°D50	0°14	19°34	n.a.	W17
T 18	23 32 49	21°16'04	29°47	10°13	6°56	13°29	9°59	13°44	8°48	28°11	1°41	0°R50	0°11	19°41	n.a.	T 18
F 19	23 36 46	22°15'49	13♋45	11°38	8° 3	13°11	10° 2	13°43	8°46	28°12	1°40	0°50	0° 7	19°48	n.a.	F 19
S 20	23 40 42	23°15'35	28° 6	13° 2	9° 9	12°54	10° 4	13°43	8°45	28°13	1°39	0°48	0° 4	19°54	n.a.	S 20
S 21	23 44 39	24°15'24	12♌46	14°26	10°15	12°37	10° 6	13°43	8°43	28°14	1°38	0°44	0° 1	20° 1	n.a.	S 21
M22	23 48 35	25°15'16	27°42	15°48	11°21	12°21	10° 8	13°D43	8°42	28°16	1°37	0°36	29♊58	20° 8	n.a.	M22
T 23	23 52 32	26°15'09	12♍46	17°10	12°27	12° 5	10°10	13°43	8°40	28°17	1°36	0°26	29°55	20°14	n.a.	T 23
W24	23 56 29	27°15'04	27°48	18°30	13°33	11°50	10°12	13°43	8°38	28°18	1°35	0°15	29°52	20°21	n.a.	W24
T 25	0 0 25	28°15'02	12♎38	19°50	14°38	11°35	10°13	13°44	8°37	28°20	1°34	0° 3	29°48	20°28	n.a.	T 25
F 26	0 4 22	29°15'01	27° 8	21° 8	15°43	11°21	10°14	13°44	8°35	28°21	1°33	29♊52	29°45	20°35	n.a.	F 26
S 27	0 8 18	0♎15'03	11♏12	22°25	16°48	11° 8	10°15	13°44	8°33	28°22	1°32	29°43	29°42	20°41	n.a.	S 27
S 28	0 12 15	1°15'06	24°46	23°40	17°53	10°56	10°16	13°45	8°31	28°24	1°31	29°37	29°39	20°48	n.a.	S 28
M29	0 16 11	2°15'11	7♐53	24°54	18°58	10°44	10°17	13°46	8°29	28°25	1°30	29°34	29°36	20°55	n.a.	M29
T 30	0 20 8	3♎15'18	20♐34	26♎ 7	20♏ 2	10♓33	10♊17	13♑47	8♉28	28♏27	1♓29	29♊33	29♊32	21♒ 1	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	10n 0	17s33	2n47	6n53	0n37	8s13	1s17	9s 5	5s 3	21n31	0s31	23s37	0s40	14n21	0s21	18s30	1n28	26s20	16s41	23n41	23n43	19s14		n.a.
T 2	9 38	20 44	1 47	6 9	0 31	8 44	1 21	9 11	5 1	21 32	0 31	23 37	0 40	14 21	0 21	18 30	1 28	26 21	16 41	23 41	23 43	19 13		n.a.
W 3	9 16	22 53	0 43	5 24	0 24	9 14	1 26	9 16	4 59	21 33	0 31	23 37	0 40	14 21	0 21	18 30	1 28	26 21	16 41	23 41	23 43	19 11		n.a.
T 4	8 54	23 54	0s21	4 40	0 18	9 44	1 30	9 21	4 57	21 34	0 31	23 38	0 40	14 21	0 21	18 31	1 28	26 22	16 41	23 41	23 43	19 10		n.a.
F 5	8 31	23 49	1 24	3 56	0 11	10 14	1 34	9 27	4 54	21 34	0 31	23 38	0 40	14 20	0 21	18 31	1 28	26 22	16 41	23 41	23 43	19 8		n.a.
S 6	8 9	22 39	2 22	3 12	0 4	10 43	1 38	9 32	4 52	21 35	0 31	23 38	0 40	14 20	0 21	18 31	1 28	26 23	16 41	23 42	23 43	19 7		n.a.
S 7	7 46	20 29	3 14	2 28	0s 3	11 13	1 42	9 38	4 49	21 36	0 31	23 38	0 40	14 20	0 21	18 31	1 28	26 23	16 41	23 42	23 43	19 5		n.a.
M 8	7 23	17 26	3 57	1 44	0 10	11 42	1 46	9 43	4 47	21 37	0 31	23 38	0 40	14 19	0 21	18 32	1 27	26 23	16 41	23 42	23 43	19 4		n.a.
T 9	7 1	13 41	4 31	1 0	0 17	12 11	1 50	9 48	4 44	21 37	0 31	23 39	0 40	14 19	0 21	18 32	1 27	26 24	16 41	23 42	23 43	19 2		n.a.
W10	6 38	9 21	4 52	0 17	0 24	12 39	1 55	9 53	4 41	21 38	0 30	23 39	0 40	14 19	0 21	18 32	1 27	26 24	16 41	23 42	23 43	19 0		n.a.
T 11	6 14	4 38	5 1	0s27	0 31	13 8	1 59	9 58	4 38	21 39	0 30	23 39	0 40	14 18	0 21	18 32	1 27	26 25	16 41	23 42	23 43	18 59		n.a.
F 12	5 51	0n20	4 56	1 9	0 38	13 36	2 3	10 3	4 35	21 39	0 30	23 39	0 40	14 18	0 21	18 33	1 27	26 25	16 41	23 42	23 43	18 57		n.a.
S 13	5 28	5 20	4 37	1 52	0 45	14 3	2 7	10 7	4 32	21 40	0 30	23 39	0 40	14 18	0 22	18 33	1 27	26 25	16 41	23 43	23 43	18 56		n.a.
S 14	5 5	10 12	4 4	2 34	0 52	14 31	2 11	10 12	4 28	21 40	0 30	23 39	0 40	14 17	0 22	18 33	1 27	26 26	16 41	23 43	23 43	18 54		n.a.
M15	4 41	14 43	3 19	3 16	0 59	14 58	2 15	10 16	4 25	21 41	0 30	23 39	0 40	14 17	0 22	18 33	1 27	26 26	16 41	23 43	23 43	18 52		n.a.
T 16	4 17	18 39	2 22	3 57	1 6	15 25	2 19	10 20	4 21	21 41	0 30	23 39	0 40	14 16	0 22	18 34	1 27	26 26	16 41	23 43	23 43	18 51		n.a.
W17	3 54	21 43	1 17	4 38	1 13	15 51	2 23	10 24	4 17	21 42	0 30	23 40	0 40	14 16	0 22	18 34	1 27	26 27	16 41	23 43	23 43	18 49		n.a.
T 18	3 30	23 37	0 6	5 19	1 20	16 17	2 27	10 27	4 14	21 42	0 30	23 40	0 40	14 15	0 22	18 34	1 27	26 27	16 40	23 43	23 43	18 48		n.a.
F 19	3 6	24 7	1n 8	5 59	1 27	16 43	2 30	10 31	4 10	21 43	0 30	23 40	0 40	14 15	0 22	18 35	1 27	26 27	16 40	23 43	23 43	18 46		n.a.
S 20	2 42	23 3	2 19	6 38	1 33	17 8	2 34	10 34	4 6	21 43	0 30	23 40	0 40	14 14	0 22	18 35	1 27	26 28	16 40	23 43	23 43	18 44		n.a.
S 21	2 18	20 24	3 22	7 17	1 40	17 33	2 38	10 37	4 2	21 43	0 30	23 40	0 40	14 14	0 22	18 35	1 27	26 28	16 40	23 43	23 43	18 43		n.a.
M22	1 54	16 21	4 13	7 55	1 46	17 58	2 42	10 39	3 58	21 44	0 30	23 40	0 40	14 13	0 22	18 36	1 27	26 28	16 40	23 43	23 43	18 41		n.a.
T 23	1 30	11 14	4 46	8 33	1 52	18 22	2 45	10 42	3 54	21 44	0 30	23 40	0 40	14 13	0 22	18 36	1 27	26 29	16 40	23 43	23 43	18 39		n.a.
W24	1 6	5 28	5 0	9 9	1 59	18 46	2 49	10 44	3 49	21 44	0 30	23 40	0 40	14 12	0 22	18 36	1 27	26 29	16 40	23 43	23 43	18 38		n.a.
T 25	0 42	0s33	4 53	9 45	2 4	19 9	2 52	10 46	3 45	21 45	0 30	23 40	0 40	14 12	0 22	18 37	1 27	26 29	16 39	23 43	23 43	18 36		n.a.
F 26	0 18	6 25	4 27	10 20	2 10	19 32	2 56	10 47	3 41	21 45	0 30	23 40	0 40	14 11	0 22	18 37	1 27	26 29	16 39	23 43	23 43	18 34		n.a.
S 27	0s 6	11 47	3 46	10 55	2 16	19 54	2 59	10 48	3 37	21 45	0 30	23 40	0 40	14 11	0 22	18 37	1 26	26 30	16 39	23 43	23 43	18 33		n.a.
S 28	0 30	16 23	2 53	11 28	2 21	20 16	3 2	10 49	3 32	21 45	0 30	23 40	0 40	14 10	0 22	18 38	1 26	26 30	16 39	23 43	23 43	18 31		n.a.
M29	0 54	20 2	1 52	12 0	2 26	20 38	3 6	10 50	3 28	21 45	0 30	23 40	0 40	14 9	0 22	18 38	1 26	26 30	16 39	23 43	23 43	18 29		n.a.
T 30	1s19	22s35	0n47	12s31	2s30	20s59	3s 9	10s50	3s24	21n45	0s30	23s39	0s40	14n 9	0s22	18s38	1n26	26s30	16s39	23n43	23n43	18s28		n.a.

Julian Day Number = 1663591.5, Delta T = 03h24m23s
Ecliptic obliquity = 23°42'52, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°15'12, Lahiri = - 6°08'11 Julian Calendar 1 Sept. 159 BCE == Greg. Calendar 29 Aug. 159 BCE

The year -158 astronomical counting style corresponds to year 159 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 159 BCE
geocentric

OCTOBER 159 BCE (-158) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 24 4	4♎15'26	2♉54	27♎18	21♏ 6	10°R22	10♊17	13♉47	8°R26	28♏28	1°R28	29°R33	29♊29	21♒ 8	n.a.	W 1
T 2	0 28 1	5°15'36	14°58	28°26	22°10	10♓13	10°R17	13°48	8♉24	28°30	1♓27	29♊32	29°26	21°15	n.a.	T 2
F 3	0 31 57	6°15'48	26°53	29°33	23°13	10° 4	10°17	13°50	8°22	28°31	1°26	29°31	29°23	21°21	n.a.	F 3
S 4	0 35 54	7°16'01	8♒42	0♏36	24°17	9°56	10°17	13°51	8°20	28°33	1°25	29°27	29°20	21°28	n.a.	S 4
S 5	0 39 51	8°16'16	20°31	1°38	25°20	9°49	10°16	13°52	8°17	28°34	1°24	29°21	29°17	21°35	n.a.	S 5
M 6	0 43 47	9°16'32	2♓25	2°36	26°22	9°43	10°15	13°54	8°15	28°36	1°23	29°12	29°13	21°41	n.a.	M 6
T 7	0 47 44	10°16'51	14°24	3°30	27°25	9°37	10°14	13°55	8°13	28°38	1°22	29° 0	29°10	21°48	n.a.	T 7
W 8	0 51 40	11°17'11	26°33	4°21	28°27	9°32	10°13	13°57	8°11	28°39	1°21	28°47	29° 7	21°55	n.a.	W 8
T 9	0 55 37	12°17'32	8♈52	5° 8	29°28	9°28	10°12	13°58	8° 9	28°41	1°20	28°33	29° 4	22° 2	n.a.	T 9
F 10	0 59 33	13°17'56	21°22	5°49	0♐30	9°25	10°10	14° 0	8° 7	28°43	1°19	28°19	29° 1	22° 8	n.a.	F 10
S 11	1 3 30	14°18'21	4♉ 2	6°26	1°31	9°23	10° 8	14° 2	8° 4	28°44	1°18	28° 8	28°58	22°15	n.a.	S 11
S 12	1 7 26	15°18'48	16°53	6°56	2°32	9°21	10° 6	14° 4	8° 2	28°46	1°18	27°59	28°54	22°22	n.a.	S 12
M13	1 11 23	16°19'17	29°55	7°20	3°32	9°D21	10° 4	14° 6	8° 0	28°48	1°17	27°53	28°51	22°28	n.a.	M13
T 14	1 15 20	17°19'48	13♊ 8	7°36	4°32	9°21	10° 2	14° 9	7°58	28°50	1°16	27°50	28°48	22°35	n.a.	T 14
W15	1 19 16	18°20'21	26°32	7°R44	5°31	9°22	9°59	14°11	7°55	28°51	1°15	27°D49	28°45	22°42	n.a.	W15
T 16	1 23 13	19°20'56	10♋10	7°44	6°30	9°23	9°56	14°13	7°53	28°53	1°15	27°49	28°42	22°48	n.a.	T 16
F 17	1 27 9	20°21'32	24° 2	7°33	7°29	9°26	9°53	14°16	7°51	28°55	1°14	27°R49	28°38	22°55	n.a.	F 17
S 18	1 31 6	21°22'11	8♌10	7°13	8°27	9°29	9°50	14°19	7°48	28°57	1°13	27°48	28°35	23° 2	n.a.	S 18
S 19	1 35 2	22°22'52	22°31	6°43	9°25	9°33	9°47	14°21	7°46	28°59	1°12	27°45	28°32	23° 9	n.a.	S 19
M20	1 38 59	23°23'34	7♍ 3	6° 2	10°22	9°38	9°43	14°24	7°43	29° 1	1°12	27°39	28°29	23°15	n.a.	M20
T 21	1 42 55	24°24'18	21°42	5°11	11°19	9°43	9°39	14°27	7°41	29° 3	1°11	27°31	28°26	23°22	n.a.	T 21
W22	1 46 52	25°25'03	6♎21	4°11	12°16	9°49	9°36	14°30	7°38	29° 5	1°11	27°21	28°23	23°29	n.a.	W22
T 23	1 50 49	26°25'51	20°52	3° 2	13°11	9°56	9°31	14°33	7°36	29° 7	1°10	27°10	28°19	23°35	n.a.	T 23
F 24	1 54 45	27°26'39	5♏ 8	1°46	14° 7	10° 4	9°27	14°36	7°34	29° 9	1° 9	27° 1	28°16	23°42	n.a.	F 24
S 25	1 58 42	28°27'29	19° 4	0°26	15° 1	10°12	9°23	14°39	7°31	29°11	1° 9	26°53	28°13	23°49	n.a.	S 25
S 26	2 2 38	29°28'21	2♐36	29♎ 4	15°55	10°21	9°18	14°43	7°29	29°13	1° 8	26°48	28°10	23°55	n.a.	S 26
M27	2 6 35	0♏29'13	15°43	27°43	16°49	10°31	9°13	14°46	7°26	29°15	1° 8	26°45	28° 7	24° 2	n.a.	M27
T 28	2 10 31	1°30'07	28°27	26°26	17°41	10°41	9° 8	14°50	7°24	29°17	1° 7	26°D45	28° 4	24° 9	n.a.	T 28
W29	2 14 28	2°31'02	10♉50	25°14	18°33	10°52	9° 3	14°53	7°21	29°19	1° 7	26°45	28° 0	24°15	n.a.	W29
T 30	2 18 24	3°31'57	22°57	24°11	19°25	11° 4	8°58	14°57	7°18	29°21	1° 6	26°46	27°57	24°22	n.a.	T 30
F 31	2 22 21	4♏32'54	4♒54	23♎17	20♐15	11♓16	8♊52	15♉ 1	7♉16	29♏23	1♓ 6	26°R47	27♊54	24♒29	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	1s43	23s59	0s18	13s 1	2s34	21s19	3s12	10s50	3s19	21n45	0s30	23s39	0s40	14n 8	0s22	18s39	1n26	26s30	16s38	23n43	23n43	18s26			n.a.
T 2	2 7	24 12	1 21	13 30	2 38	21 39	3 15	10 50	3 15	21 45	0 30	23 39	0 40	14 7	0 22	18 39	1 26	26 31	16 38	23 43	23 43	18 24			n.a.
F 3	2 31	23 18	2 19	13 57	2 42	21 59	3 18	10 49	3 11	21 45	0 30	23 39	0 40	14 7	0 22	18 39	1 26	26 31	16 38	23 43	23 43	18 23			n.a.
S 4	2 55	21 22	3 11	14 23	2 45	22 17	3 20	10 48	3 6	21 45	0 30	23 39	0 40	14 6	0 22	18 40	1 26	26 31	16 38	23 43	23 43	18 21			n.a.
S 5	3 19	18 31	3 55	14 47	2 47	22 36	3 23	10 47	3 2	21 45	0 30	23 39	0 40	14 5	0 22	18 40	1 26	26 31	16 38	23 43	23 43	18 19			n.a.
M 6	3 43	14 54	4 29	15 9	2 49	22 54	3 26	10 45	2 58	21 45	0 30	23 39	0 40	14 5	0 22	18 41	1 26	26 31	16 37	23 43	23 43	18 18			n.a.
T 7	4 7	10 40	4 51	15 29	2 50	23 11	3 28	10 43	2 53	21 45	0 30	23 39	0 40	14 4	0 22	18 41	1 26	26 31	16 37	23 43	23 43	18 16			n.a.
W 8	4 31	5 58	5 0	15 48	2 51	23 28	3 31	10 41	2 49	21 45	0 30	23 39	0 40	14 3	0 22	18 41	1 26	26 31	16 37	23 43	23 43	18 14			n.a.
T 9	4 55	0 58	4 55	16 3	2 51	23 44	3 33	10 39	2 45	21 45	0 29	23 38	0 40	14 3	0 22	18 42	1 26	26 32	16 37	23 42	23 43	18 12			n.a.
F 10	5 19	4n 9	4 37	16 16	2 50	23 59	3 35	10 36	2 41	21 45	0 29	23 38	0 40	14 2	0 22	18 42	1 26	26 32	16 36	23 42	23 43	18 11			n.a.
S 11	5 42	9 11	4 4	16 27	2 48	24 14	3 37	10 33	2 37	21 45	0 29	23 38	0 40	14 1	0 22	18 43	1 26	26 32	16 36	23 42	23 43	18 9			n.a.
S 12	6 6	13 54	3 19	16 34	2 44	24 29	3 39	10 30	2 32	21 44	0 29	23 38	0 40	14 0	0 22	18 43	1 26	26 32	16 36	23 42	23 43	18 7			n.a.
M13	6 29	18 3	2 22	16 38	2 40	24 43	3 41	10 26	2 28	21 44	0 29	23 38	0 40	14 0	0 22	18 44	1 26	26 32	16 36	23 42	23 43	18 6			n.a.
T 14	6 53	21 22	1 17	16 38	2 35	24 56	3 42	10 23	2 24	21 44	0 29	23 37	0 40	13 59	0 22	18 44	1 26	26 32	16 35	23 42	23 43	18 4			n.a.
W15	7 16	23 33	0 7	16 35	2 28	25 9	3 44	10 19	2 20	21 43	0 29	23 37	0 40	13 58	0 22	18 44	1 26	26 32	16 35	23 42	23 43	18 2			n.a.
T 16	7 39	24 24	1n 5	16 27	2 20	25 21	3 45	10 14	2 16	21 43	0 29	23 37	0 40	13 57	0 22	18 45	1 26	26 32	16 35	23 42	23 42	18 0			n.a.
F 17	8 3	23 45	2 15	16 14	2 10	25 32	3 47	10 10	2 12	21 43	0 29	23 37	0 40	13 57	0 22	18 45	1 26	26 32	16 35	23 42	23 42	17 59			n.a.
S 18	8 26	21 36	3 17	15 56	1 58	25 43	3 48	10 5	2 9	21 42	0 29	23 36	0 40	13 56	0 22	18 46	1 26	26 32	16 34	23 42	23 42	17 57			n.a.
S 19	8 49	18 4	4 8	15 34	1 45	25 53	3 49	10 0	2 5	21 42	0 29	23 36	0 40	13 55	0 22	18 46	1 26	26 32	16 34	23 42	23 42	17 55			n.a.
M20	9 11	13 24	4 44	15 6	1 30	26 2	3 49	9 55	2 1	21 41	0 29	23 36	0 40	13 54	0 22	18 47	1 26	26 32	16 34	23 42	23 42	17 53			n.a.
T 21	9 34	7 56	5 2	14 33	1 14	26 11	3 50	9 49	1 57	21 41	0 29	23 35	0 40	13 54	0 22	18 47	1 25	26 32	16 34	23 41	23 42	17 51			n.a.
W22	9 56	2 2	5 0	13 56	0 56	26 20	3 50	9 43	1 54	21 40	0 29	23 35	0 40	13 53	0 22	18 48	1 25	26 32	16 33	23 41	23 42	17 50			n.a.
T 23	10 19	3s57	4 38	13 14	0 36	26 27	3 51	9 37	1 50	21 40	0 29	23 35	0 40	13 52	0 22	18 48	1 25	26 32	16 33	23 41	23 42	17 48			n.a.
F 24	10 41	9 37	3 59	12 29	0 16	26 34	3 51	9 31	1 46	21 39	0 29	23 34	0 40	13 51	0 22	18 49	1 25	26 32	16 33	23 41	23 42	17 46			n.a.
S 25	11 3	14 41	3 7	11 41	0n 4	26 41	3 51	9 25	1 43	21 39	0 28	23 34	0 40	13 50	0 22	18 49	1 25	26 32	16 32	23 41	23 42	17 44			n.a.
S 26	11 25	18 52	2 6	10 53	0 25	26 47	3 50	9 18	1 39	21 38	0 28	23 34	0 40	13 49	0 22	18 49	1 25	26 32	16 32	23 41	23 42	17 42			n.a.
M27	11 46	21 58	0 59	10 5	0 45	26 52	3 50	9 11	1 36	21 37	0 28	23 33	0 40	13 49	0 22	18 50	1 25	26 32	16 32	23 40	23 42	17 41			n.a.
T 28	12 8	23 51	0s 9	9 19	1 4	26 56	3 49	9 4	1 33	21 37	0 28	23 33	0 41	13 48	0 22	18 50	1 25	26 32	16 31	23 40	23 42	17 39			n.a.
W29	12 29	24 31	1 15	8 36	1 22	27 0	3 48	8 57	1 29	21 36	0 28	23 33	0 41	13 47	0 22	18 51	1 25	26 32	16 31	23 40	23 42	17 37			n.a.
T 30	12 50	23 58	2 16	7 57	1 38	27 3	3 47	8 50	1 26	21 35	0 28	23 32	0 41	13 46	0 22	18 51	1 25	26 31	16 31	23 40	23 42	17 35			n.a.
F 31	13s11	22s20	3s10	7s24	1n53	27s 6	3s46	8s42	1s23	21n34	0s28	23s32	0s41	13n45	0s22	18s52	1n25	26s31	16s30	23n40	23n42	17s33			n.a.

Julian Day Number = 1663621.5, Delta T = 03h24m22s
Ecliptic obliquity = 23°42'52, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°15'08, Lahiri = - 6°08'07 Julian Calendar 1 Oct. 159 BCE == Greg. Calendar 28 Sept. 159 BCE

The year -158 astronomical counting style corresponds to year 159 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 159 BCE
geocentric

NOVEMBER 159 BCE (-158) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 26 18	5♏33'51	16♒45	22°R34	21♐ 5	11♓29	8°R47	15♑ 5	7°R13	29♏25	1°R 5	26°R46	27♊51	24♒36	n.a.	S 1
S 2	2 30 14	6°34'50	28°35	22♎ 3	21°54	11°43	8♊41	15° 9	7♉11	29°27	1♓ 5	26♊43	27°48	24°42	n.a.	S 2
M 3	2 34 11	7°35'49	10♓30	21°43	22°42	11°57	8°35	15°13	7° 8	29°29	1° 5	26°38	27°44	24°49	n.a.	M 3
T 4	2 38 7	8°36'49	22°34	21°D35	23°29	12°11	8°29	15°17	7° 6	29°32	1° 4	26°31	27°41	24°56	n.a.	T 4
W 5	2 42 4	9°37'49	4♈50	21°37	24°15	12°27	8°23	15°21	7° 3	29°34	1° 4	26°23	27°38	25° 2	n.a.	W 5
T 6	2 46 0	10°38'51	17°19	21°49	25° 1	12°42	8°16	15°26	7° 1	29°36	1° 4	26°14	27°35	25° 9	n.a.	T 6
F 7	2 49 57	11°39'53	0♉ 3	22°10	25°45	12°59	8°10	15°30	6°58	29°38	1° 3	26° 6	27°32	25°16	n.a.	F 7
S 8	2 53 53	12°40'57	13° 2	22°40	26°28	13°15	8° 3	15°34	6°56	29°40	1° 3	25°58	27°29	25°23	n.a.	S 8
S 9	2 57 50	13°42'01	26°15	23°17	27°10	13°33	7°56	15°39	6°53	29°42	1° 3	25°53	27°25	25°29	n.a.	S 9
M10	3 1 47	14°43'06	9♊41	24° 1	27°52	13°50	7°49	15°44	6°51	29°45	1° 3	25°49	27°22	25°36	n.a.	M10
T 11	3 5 43	15°44'13	23°17	24°51	28°31	14° 9	7°42	15°48	6°48	29°47	1° 2	25°D48	27°19	25°43	n.a.	T 11
W12	3 9 40	16°45'20	7♋ 3	25°46	29°10	14°27	7°35	15°53	6°46	29°49	1° 2	25°49	27°16	25°49	n.a.	W12
T 13	3 13 36	17°46'28	20°56	26°46	29°47	14°47	7°28	15°58	6°43	29°51	1° 2	25°50	27°13	25°56	n.a.	T 13
F 14	3 17 33	18°47'38	4♌56	27°49	0♑23	15° 6	7°21	16° 3	6°41	29°53	1° 2	25°51	27° 9	26° 3	n.a.	F 14
S 15	3 21 29	19°48'48	19° 2	28°56	0°58	15°26	7°13	16° 8	6°38	29°56	1° 2	25°R52	27° 6	26° 9	n.a.	S 15
S 16	3 25 26	20°49'59	3♍12	0♏ 6	1°31	15°47	7° 6	16°13	6°36	29°58	1° 2	25°51	27° 3	26°16	n.a.	S 16
M17	3 29 22	21°51'11	17°25	1°19	2° 3	16° 8	6°58	16°18	6°33	0♐ 0	1° 2	25°49	27° 0	26°23	n.a.	M17
T 18	3 33 19	22°52'23	1♎38	2°33	2°33	16°29	6°51	16°23	6°31	0° 2	1° 2	25°45	26°57	26°30	n.a.	T 18
W19	3 37 16	23°53'37	15°47	3°50	3° 2	16°51	6°43	16°28	6°29	0° 5	1°D 2	25°41	26°54	26°36	n.a.	W19
T 20	3 41 12	24°54'51	29°49	5° 9	3°29	17°13	6°35	16°34	6°26	0° 7	1° 2	25°35	26°50	26°43	n.a.	T 20
F 21	3 45 9	25°56'06	13♏40	6°29	3°54	17°35	6°27	16°39	6°24	0° 9	1° 2	25°31	26°47	26°50	n.a.	F 21
S 22	3 49 5	26°57'21	27°15	7°51	4°17	17°58	6°19	16°45	6°22	0°12	1° 2	25°27	26°44	26°56	n.a.	S 22
S 23	3 53 2	27°58'37	10♐32	9°13	4°39	18°21	6°11	16°50	6°19	0°14	1° 2	25°25	26°41	27° 3	n.a.	S 23
M24	3 56 58	28°59'53	23°30	10°37	4°58	18°45	6° 3	16°56	6°17	0°16	1° 2	25°D24	26°38	27°10	n.a.	M24
T 25	4 0 55	0♑ 1'09	6♑10	12° 2	5°16	19° 9	5°55	17° 1	6°15	0°18	1° 2	25°24	26°35	27°16	n.a.	T 25
W26	4 4 52	1° 2'25	18°32	13°27	5°31	19°33	5°47	17° 7	6°13	0°21	1° 2	25°25	26°31	27°23	n.a.	W26
T 27	4 8 48	2° 3'41	0♒41	14°54	5°45	19°58	5°39	17°13	6°10	0°23	1° 3	25°27	26°28	27°30	n.a.	T 27
F 28	4 12 45	3° 4'57	12°39	16°20	5°56	20°23	5°31	17°19	6° 8	0°25	1° 3	25°29	26°25	27°37	n.a.	F 28
S 29	4 16 41	4° 6'13	24°31	17°48	6° 5	20°48	5°23	17°25	6° 6	0°27	1° 3	25°30	26°22	27°43	n.a.	S 29
S 30	4 20 38	5♐ 7'29	6♓23	19♏16	6♑11	21♓13	5♊15	17♑31	6♉ 4	0♐30	1♓ 3	25°R30	26♊19	27♒50	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s32	19s44	3s56	6s57	2n 5	27s 8	3s44	8s34	1s20	21n34	0s28	23s31	0s41	13n45	0s21	18s52	1n25	26s31	16s30	23n40	23n42	17s31		n.a.
S 2	13 52	16 20	4 31	6 36	2 15	27 10	3 42	8 26	1 17	21 33	0 28	23 31	0 41	13 44	0 21	18 53	1 25	26 31	16 30	23 40	23 42	17 30		n.a.
M 3	14 12	12 15	4 55	6 21	2 23	27 11	3 40	8 18	1 14	21 32	0 28	23 30	0 41	13 43	0 21	18 53	1 25	26 31	16 30	23 40	23 42	17 28		n.a.
T 4	14 32	7 40	5 7	6 12	2 29	27 11	3 38	8 9	1 11	21 31	0 28	23 30	0 41	13 42	0 21	18 54	1 25	26 31	16 29	23 40	23 42	17 26		n.a.
W 5	14 52	2 42	5 4	6 9	2 33	27 11	3 35	8 1	1 8	21 30	0 28	23 30	0 41	13 41	0 21	18 54	1 25	26 30	16 29	23 40	23 42	17 24		n.a.
T 6	15 11	2n28	4 47	6 11	2 36	27 10	3 33	7 52	1 5	21 29	0 27	23 29	0 41	13 40	0 21	18 55	1 25	26 30	16 29	23 40	23 42	17 22		n.a.
F 7	15 30	7 38	4 16	6 18	2 37	27 8	3 30	7 43	1 2	21 28	0 27	23 29	0 41	13 40	0 21	18 55	1 25	26 30	16 28	23 39	23 41	17 20		n.a.
S 8	15 49	12 35	3 30	6 29	2 37	27 6	3 26	7 34	1 0	21 27	0 27	23 28	0 41	13 39	0 21	18 56	1 25	26 30	16 28	23 39	23 41	17 18		n.a.
S 9	16 8	17 3	2 33	6 44	2 36	27 4	3 23	7 25	0 57	21 26	0 27	23 28	0 41	13 38	0 21	18 56	1 25	26 30	16 27	23 39	23 41	17 17		n.a.
M10	16 26	20 44	1 26	7 3	2 34	27 1	3 19	7 16	0 54	21 25	0 27	23 27	0 41	13 37	0 21	18 57	1 25	26 29	16 27	23 39	23 41	17 15		n.a.
T 11	16 44	23 19	0 14	7 24	2 31	26 57	3 15	7 6	0 52	21 24	0 27	23 26	0 41	13 36	0 21	18 57	1 25	26 29	16 27	23 39	23 41	17 13		n.a.
W12	17 2	24 32	1n 1	7 47	2 27	26 53	3 10	6 56	0 49	21 23	0 27	23 26	0 41	13 36	0 21	18 58	1 25	26 29	16 26	23 39	23 41	17 11		n.a.
T 13	17 20	24 15	2 12	8 13	2 22	26 48	3 5	6 47	0 47	21 22	0 27	23 25	0 41	13 35	0 21	18 58	1 25	26 29	16 26	23 39	23 41	17 9		n.a.
F 14	17 37	22 26	3 17	8 41	2 17	26 43	3 0	6 37	0 44	21 21	0 27	23 25	0 41	13 34	0 21	18 59	1 25	26 28	16 26	23 39	23 41	17 7		n.a.
S 15	17 54	19 14	4 10	9 10	2 12	26 37	2 54	6 27	0 42	21 20	0 26	23 24	0 41	13 33	0 21	18 59	1 25	26 28	16 25	23 39	23 41	17 5		n.a.
S 16	18 10	14 54	4 48	9 40	2 6	26 31	2 49	6 16	0 39	21 19	0 26	23 24	0 41	13 32	0 21	19 0	1 25	26 28	16 25	23 39	23 41	17 3		n.a.
M17	18 26	9 45	5 8	10 12	2 0	26 24	2 42	6 6	0 37	21 18	0 26	23 23	0 41	13 32	0 21	19 0	1 25	26 28	16 25	23 39	23 41	17 1		n.a.
T 18	18 42	4 4	5 10	10 44	1 53	26 17	2 36	5 56	0 35	21 16	0 26	23 22	0 41	13 31	0 21	19 1	1 25	26 27	16 24	23 39	23 41	16 59		n.a.
W19	18 58	1s47	4 53	11 16	1 46	26 10	2 29	5 45	0 32	21 15	0 26	23 22	0 41	13 30	0 21	19 1	1 25	26 27	16 24	23 39	23 41	16 57		n.a.
T 20	19 13	7 31	4 18	11 50	1 40	26 2	2 22	5 34	0 30	21 14	0 26	23 21	0 41	13 29	0 21	19 2	1 25	26 27	16 24	23 38	23 41	16 56		n.a.
F 21	19 28	12 48	3 29	12 23	1 32	25 53	2 14	5 23	0 28	21 13	0 26	23 20	0 41	13 28	0 21	19 2	1 25	26 26	16 23	23 38	23 40	16 54		n.a.
S 22	19 42	17 22	2 28	12 57	1 25	25 44	2 6	5 12	0 26	21 12	0 26	23 20	0 41	13 28	0 21	19 3	1 25	26 26	16 23	23 38	23 40	16 52		n.a.
S 23	19 56	20 57	1 21	13 30	1 18	25 35	1 57	5 1	0 24	21 10	0 25	23 19	0 41	13 27	0 21	19 3	1 25	26 25	16 23	23 38	23 40	16 50		n.a.
M24	20 10	23 23	0 10	14 4	1 10	25 26	1 48	4 50	0 22	21 9	0 25	23 18	0 41	13 26	0 21	19 4	1 25	26 25	16 22	23 38	23 40	16 48		n.a.
T 25	20 23	24 33	0s59	14 37	1 3	25 16	1 39	4 39	0 20	21 8	0 25	23 18	0 41	13 25	0 21	19 4	1 25	26 25	16 22	23 38	23 40	16 46		n.a.
W26	20 36	24 28	2 4	15 11	0 55	25 5	1 29	4 27	0 18	21 6	0 25	23 17	0 41	13 25	0 21	19 5	1 25	26 24	16 22	23 38	23 40	16 44		n.a.
T 27	20 49	23 12	3 2	15 44	0 48	24 54	1 19	4 16	0 16	21 5	0 25	23 16	0 41	13 24	0 21	19 5	1 25	26 24	16 21	23 38	23 40	16 42		n.a.
F 28	21 1	20 54	3 52	16 16	0 40	24 43	1 9	4 4	0 14	21 4	0 25	23 16	0 41	13 23	0 21	19 6	1 25	26 24	16 21	23 38	23 40	16 40		n.a.
S 29	21 13	17 44	4 31	16 48	0 33	24 32	0 58	3 53	0 12	21 3	0 25	23 15	0 41	13 23	0 21	19 6	1 25	26 23	16 20	23 38	23 40	16 38		n.a.
S 30	21s24	13s53	4s58	17s20	0n26	24s20	0s46	3s41	0s11	21n 1	0s24	23s14	0s41	13n22	0s21	19s 7	1n25	26s23	16s20	23n38	23n40	16s36		n.a.

Julian Day Number = 1663652.5, Delta T = 03h24m21s
Ecliptic obliquity = 23°42'52, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°15'03, Lahiri = - 6°08'03 Julian Calendar 1 Nov. 159 BCE == Greg. Calendar 29 Oct. 159 BCE

The year -158 astronomical counting style corresponds to year 159 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 159 BCE
geocentric

DECEMBER 159 BCE (-158) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 24 34	6♐ 8'44	18♓18	20♏45	6♑16	21♓39	5°R 6	17♑37	6°R 2	0♐32	1♓ 4	25°R30	26♊15	27♒57	n.a.	M 1
T 2	4 28 31	7° 9'59	0♈22	22°14	6°R17	22° 5	4♊58	17°43	6♉ 0	0°34	1° 4	25♊28	26°12	28° 3	n.a.	T 2
W 3	4 32 27	8°11'14	12°39	23°43	6°17	22°32	4°50	17°49	5°58	0°36	1° 4	25°26	26° 9	28°10	n.a.	W 3
T 4	4 36 24	9°12'29	25°12	25°13	6°13	22°58	4°42	17°55	5°56	0°39	1° 5	25°24	26° 6	28°17	n.a.	T 4
F 5	4 40 21	10°13'43	8♉ 4	26°44	6° 8	23°25	4°34	18° 1	5°54	0°41	1° 5	25°21	26° 3	28°24	n.a.	F 5
S 6	4 44 17	11°14'57	21°17	28°15	5°59	23°52	4°26	18° 7	5°52	0°43	1° 5	25°19	26° 0	28°30	n.a.	S 6
S 7	4 48 14	12°16'10	4♊49	29°46	5°48	24°20	4°18	18°14	5°50	0°45	1° 6	25°18	25°56	28°37	n.a.	S 7
M 8	4 52 10	13°17'24	18°38	1♐18	5°35	24°47	4°10	18°20	5°48	0°48	1° 6	25°D17	25°53	28°44	n.a.	M 8
T 9	4 56 7	14°18'37	2♋43	2°50	5°19	25°15	4° 2	18°26	5°46	0°50	1° 7	25°17	25°50	28°50	n.a.	T 9
W10	5 0 3	15°19'50	16°57	4°22	5° 1	25°43	3°54	18°33	5°44	0°52	1° 7	25°18	25°47	28°57	n.a.	W10
T 11	5 4 0	16°21'03	1♌18	5°55	4°40	26°12	3°47	18°39	5°43	0°54	1° 8	25°19	25°44	29° 4	n.a.	T 11
F 12	5 7 56	17°22'15	15°41	7°29	4°17	26°40	3°39	18°46	5°41	0°57	1° 8	25°19	25°41	29°11	n.a.	F 12
S 13	5 11 53	18°23'28	0♍ 0	9° 2	3°52	27° 9	3°31	18°53	5°39	0°59	1° 9	25°20	25°37	29°17	n.a.	S 13
S 14	5 15 50	19°24'40	14°15	10°37	3°25	27°38	3°24	18°59	5°37	1° 1	1° 9	25°R20	25°34	29°24	n.a.	S 14
M15	5 19 46	20°25'52	28°21	12°11	2°56	28° 7	3°16	19° 6	5°36	1° 3	1°10	25°20	25°31	29°31	n.a.	M15
T 16	5 23 43	21°27'03	12♎18	13°47	2°25	28°36	3° 9	19°12	5°34	1° 5	1°11	25°20	25°28	29°37	n.a.	T 16
W17	5 27 39	22°28'15	26° 4	15°22	1°53	29° 6	3° 1	19°19	5°33	1° 7	1°11	25°20	25°25	29°44	n.a.	W17
T 18	5 31 36	23°29'26	9♏38	16°58	1°19	29°36	2°54	19°26	5°31	1°10	1°12	25°19	25°21	29°51	n.a.	T 18
F 19	5 35 32	24°30'36	23° 0	18°35	0°44	0♈ 6	2°47	19°33	5°30	1°12	1°13	25°19	25°18	29°57	n.a.	F 19
S 20	5 39 29	25°31'46	6♐ 8	20°12	0° 9	0°36	2°40	19°40	5°28	1°14	1°13	25°D19	25°15	0♓ 4	n.a.	S 20
S 21	5 43 25	26°32'56	19° 3	21°50	29♐32	1° 6	2°33	19°46	5°27	1°16	1°14	25°R19	25°12	0°11	n.a.	S 21
M22	5 47 22	27°34'04	1♑45	23°29	28°55	1°36	2°26	19°53	5°26	1°18	1°15	25°19	25° 9	0°18	n.a.	M22
T 23	5 51 19	28°35'12	14°13	25° 7	28°18	2° 7	2°20	20° 0	5°25	1°20	1°16	25°19	25° 6	0°24	n.a.	T 23
W24	5 55 15	29°36'19	26°29	26°47	27°42	2°38	2°13	20° 7	5°23	1°22	1°17	25°19	25° 2	0°31	n.a.	W24
T 25	5 59 12	0♑37'25	8♒34	28°27	27° 5	3° 9	2° 7	20°14	5°22	1°24	1°17	25°18	24°59	0°38	n.a.	T 25
F 26	6 3 8	1°38'29	20°32	0♑ 8	26°29	3°40	2° 1	20°21	5°21	1°26	1°18	25°17	24°56	0°44	n.a.	F 26
S 27	6 7 5	2°39'33	2♓24	1°49	25°54	4°11	1°55	20°28	5°20	1°28	1°19	25°16	24°53	0°51	n.a.	S 27
S 28	6 11 1	3°40'35	14°15	3°31	25°20	4°42	1°49	20°35	5°19	1°30	1°20	25°15	24°50	0°58	n.a.	S 28
M29	6 14 58	4°41'36	26° 9	5°14	24°47	5°14	1°43	20°42	5°18	1°32	1°21	25°15	24°47	1° 5	n.a.	M29
T 30	6 18 55	5°42'36	8♈11	6°57	24°16	5°46	1°37	20°49	5°17	1°34	1°22	25°D15	24°43	1°11	n.a.	T 30
W31	6 22 51	6♑43'34	20♈25	8♑41	23♐46	6♈17	1♊32	20♑57	5♉16	1♐36	1♓23	25♊15	24♊40	1♓18	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
M 1	21s35	9s28	5s13	17s51	0n18	24s 8	0s34	3s29	0s 9	21n 0	0s24	23s13	0s41	13n21	0s21	19s 7	1n25	26s22	16s20	23n38	23n40	16s34			n.a.
T 2	21 45	4 39	5 14	18 22	0 11	23 56	0 22	3 17	0 7	20 59	0 24	23 13	0 41	13 20	0 21	19 7	1 25	26 22	16 19	23 38	23 40	16 32			n.a.
W 3	21 55	0n26	5 1	18 51	0 4	23 43	0 9	3 5	0 5	20 57	0 24	23 12	0 41	13 20	0 21	19 8	1 25	26 21	16 19	23 38	23 39	16 30			n.a.
T 4	22 5	5 37	4 34	19 20	0s 3	23 30	0n 4	2 53	0 4	20 56	0 24	23 11	0 41	13 19	0 21	19 8	1 25	26 21	16 19	23 38	23 39	16 28			n.a.
F 5	22 14	10 42	3 52	19 49	0 10	23 17	0 17	2 40	0 2	20 55	0 24	23 10	0 41	13 18	0 21	19 9	1 25	26 20	16 18	23 38	23 39	16 26			n.a.
S 6	22 23	15 26	2 57	20 16	0 17	23 4	0 31	2 28	0 0	20 53	0 23	23 9	0 41	13 18	0 21	19 9	1 25	26 20	16 18	23 38	23 39	16 24			n.a.
S 7	22 31	19 31	1 51	20 43	0 24	22 50	0 45	2 16	0n 1	20 52	0 23	23 8	0 41	13 17	0 21	19 10	1 25	26 19	16 18	23 38	23 39	16 22			n.a.
M 8	22 39	22 37	0 37	21 9	0 30	22 36	1 0	2 3	0 3	20 51	0 23	23 8	0 41	13 17	0 21	19 10	1 25	26 19	16 17	23 38	23 39	16 20			n.a.
T 9	22 47	24 22	0n41	21 34	0 37	22 22	1 14	1 50	0 4	20 49	0 23	23 7	0 42	13 16	0 21	19 11	1 25	26 18	16 17	23 38	23 39	16 18			n.a.
W10	22 54	24 34	1 57	21 58	0 43	22 8	1 29	1 38	0 6	20 48	0 23	23 6	0 42	13 15	0 21	19 11	1 25	26 18	16 17	23 38	23 39	16 16			n.a.
T 11	23 0	23 8	3 7	22 21	0 49	21 53	1 45	1 25	0 7	20 47	0 23	23 5	0 42	13 15	0 21	19 12	1 25	26 17	16 16	23 38	23 39	16 14			n.a.
F 12	23 6	20 12	4 4	22 43	0 55	21 39	2 0	1 12	0 9	20 45	0 22	23 4	0 42	13 14	0 21	19 12	1 25	26 17	16 16	23 38	23 39	16 12			n.a.
S 13	23 12	16 4	4 47	23 4	1 1	21 24	2 15	1 0	0 10	20 44	0 22	23 3	0 42	13 14	0 21	19 13	1 25	26 16	16 16	23 38	23 38	16 10			n.a.
S 14	23 17	11 3	5 11	23 24	1 7	21 9	2 31	0 47	0 12	20 43	0 22	23 2	0 42	13 13	0 21	19 13	1 25	26 16	16 15	23 38	23 38	16 8			n.a.
M15	23 22	5 30	5 17	23 42	1 12	20 54	2 46	0 34	0 13	20 41	0 22	23 2	0 42	13 13	0 21	19 13	1 25	26 15	16 15	23 38	23 38	16 6			n.a.
T 16	23 26	0s16	5 3	24 0	1 17	20 40	3 2	0 21	0 14	20 40	0 22	23 1	0 42	13 12	0 21	19 14	1 25	26 15	16 15	23 38	23 38	16 4			n.a.
W17	23 30	5 57	4 33	24 16	1 22	20 25	3 17	0 8	0 16	20 39	0 22	23 0	0 42	13 12	0 21	19 14	1 25	26 14	16 14	23 38	23 38	16 2			n.a.
T 18	23 33	11 16	3 47	24 31	1 27	20 10	3 32	0n 6	0 17	20 38	0 21	22 59	0 42	13 11	0 21	19 15	1 25	26 14	16 14	23 38	23 38	16 0			n.a.
F 19	23 36	16 0	2 50	24 44	1 32	19 56	3 47	0 19	0 18	20 37	0 21	22 58	0 42	13 11	0 21	19 15	1 25	26 13	16 14	23 38	23 38	15 58			n.a.
S 20	23 38	19 52	1 44	24 56	1 36	19 41	4 2	0 32	0 19	20 35	0 21	22 57	0 42	13 10	0 21	19 16	1 25	26 13	16 13	23 38	23 38	15 55			n.a.
S 21	23 40	22 41	0 35	25 7	1 40	19 27	4 16	0 45	0 21	20 34	0 21	22 56	0 42	13 10	0 21	19 16	1 25	26 12	16 13	23 38	23 38	15 53			n.a.
M22	23 41	24 18	0s36	25 16	1 44	19 13	4 29	0 59	0 22	20 33	0 21	22 55	0 42	13 10	0 21	19 16	1 25	26 11	16 13	23 38	23 37	15 51			n.a.
T 23	23 42	24 39	1 43	25 24	1 47	19 0	4 43	1 12	0 23	20 32	0 21	22 54	0 42	13 9	0 21	19 17	1 25	26 11	16 12	23 38	23 37	15 49			n.a.
W24	23 43	23 47	2 44	25 30	1 50	18 46	4 55	1 25	0 24	20 31	0 20	22 53	0 42	13 9	0 21	19 17	1 25	26 10	16 12	23 38	23 37	15 47			n.a.
T 25	23 43	21 49	3 38	25 35	1 53	18 34	5 7	1 39	0 25	20 30	0 20	22 52	0 42	13 8	0 21	19 18	1 25	26 10	16 12	23 38	23 37	15 45			n.a.
F 26	23 42	18 55	4 21	25 38	1 55	18 22	5 18	1 52	0 26	20 29	0 20	22 51	0 42	13 8	0 21	19 18	1 25	26 9	16 11	23 38	23 37	15 43			n.a.
S 27	23 41	15 16	4 52	25 39	1 57	18 10	5 29	2 6	0 27	20 28	0 20	22 50	0 42	13 8	0 21	19 18	1 25	26 9	16 11	23 38	23 37	15 41			n.a.
S 28	23 40	11 2	5 11	25 39	1 59	17 59	5 39	2 19	0 28	20 26	0 20	22 49	0 42	13 7	0 20	19 19	1 25	26 8	16 11	23 38	23 37	15 39			n.a.
M29	23 38	6 23	5 17	25 37	2 0	17 49	5 48	2 33	0 29	20 26	0 19	22 48	0 42	13 7	0 20	19 19	1 25	26 7	16 11	23 38	23 37	15 37			n.a.
T 30	23 35	1 26	5 9	25 33	2 1	17 39	5 56	2 47	0 30	20 25	0 19	22 47	0 42	13 7	0 20	19 20	1 25	26 7	16 10	23 38	23 36	15 34			n.a.
W31	23s32	3n38	4s47	25s27	2s 2	17s30	6n 4	3n 0	0n31	20n24	0s19	22s46	0s43	13n 7	0s20	19s20	1n25	26s 6	16s10	23n38	23n36	15s32			n.a.

Julian Day Number = 1663682.5, Delta T = 03h24m21s
Ecliptic obliquity = 23°42'52, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'59, Lahiri = - 6°07'59 Julian Calendar 1 Dec. 159 BCE == Greg. Calendar 28 Nov. 159 BCE

The year -158 astronomical counting style corresponds to year 159 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 158 BCE
geocentric

JANUARY 158 BCE (-157) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 26 48	7♑44'30	2♉55	10♑26	23°R19	6♈49	1°R27	21♑ 4	5°R16	1♐38	1♓24	25♊16	24♊37	1♓25	n.a.	T 1
F 2	6 30 44	8°45'26	15°46	12°11	22♐53	7°21	1♊22	21°11	5♉15	1°40	1°25	25°17	24°34	1°31	n.a.	F 2
S 3	6 34 41	9°46'20	29° 1	13°56	22°29	7°54	1°17	21°18	5°14	1°42	1°26	25°18	24°31	1°38	n.a.	S 3
S 4	6 38 37	10°47'12	12♊41	15°43	22° 8	8°26	1°12	21°25	5°13	1°44	1°27	25°19	24°27	1°45	n.a.	S 4
M 5	6 42 34	11°48'03	26°45	17°29	21°49	8°58	1° 7	21°32	5°13	1°46	1°28	25°R20	24°24	1°52	n.a.	M 5
T 6	6 46 30	12°48'53	11♋10	19°17	21°32	9°31	1° 3	21°40	5°12	1°47	1°29	25°19	24°21	1°58	n.a.	T 6
W 7	6 50 27	13°49'42	25°52	21° 4	21°18	10° 4	0°58	21°47	5°12	1°49	1°30	25°18	24°18	2° 5	n.a.	W 7
T 8	6 54 24	14°50'29	10♌42	22°52	21° 6	10°36	0°54	21°54	5°11	1°51	1°31	25°15	24°15	2°12	n.a.	T 8
F 9	6 58 20	15°51'15	25°34	24°40	20°57	11° 9	0°50	22° 1	5°11	1°53	1°32	25°12	24°12	2°18	n.a.	F 9
S 10	7 2 17	16°51'59	10♍18	26°28	20°50	11°42	0°47	22° 8	5°11	1°55	1°33	25°10	24° 8	2°25	n.a.	S 10
S 11	7 6 13	17°52'42	24°50	28°16	20°46	12°15	0°43	22°16	5°10	1°56	1°34	25° 7	24° 5	2°32	n.a.	S 11
M12	7 10 10	18°53'25	9♎ 4	0♒ 4	20°D45	12°48	0°40	22°23	5°10	1°58	1°35	25° 6	24° 2	2°39	n.a.	M12
T 13	7 14 6	19°54'05	23° 0	1°51	20°45	13°21	0°37	22°30	5°10	2° 0	1°37	25°D 6	23°59	2°45	n.a.	T 13
W14	7 18 3	20°54'45	6♏35	3°37	20°48	13°55	0°34	22°37	5°10	2° 1	1°38	25° 6	23°56	2°52	n.a.	W14
T 15	7 21 59	21°55'24	19°52	5°22	20°54	14°28	0°31	22°45	5°10	2° 3	1°39	25° 8	23°53	2°59	n.a.	T 15
F 16	7 25 56	22°56'01	2♐53	7° 5	21° 2	15° 2	0°28	22°52	5°D 9	2° 5	1°40	25°10	23°49	3° 5	n.a.	F 16
S 17	7 29 53	23°56'37	15°39	8°47	21°12	15°35	0°26	22°59	5°10	2° 6	1°41	25°11	23°46	3°12	n.a.	S 17
S 18	7 33 49	24°57'11	28°13	10°26	21°24	16° 9	0°24	23° 7	5°10	2° 8	1°43	25°R11	23°43	3°19	n.a.	S 18
M19	7 37 46	25°57'44	10♑36	12° 2	21°39	16°43	0°22	23°14	5°10	2° 9	1°44	25°10	23°40	3°26	n.a.	M19
T 20	7 41 42	26°58'15	22°49	13°35	21°55	17°17	0°20	23°21	5°10	2°11	1°45	25° 7	23°37	3°32	n.a.	T 20
W21	7 45 39	27°58'44	4♒55	15° 4	22°14	17°51	0°18	23°28	5°10	2°12	1°47	25° 3	23°33	3°39	n.a.	W21
T 22	7 49 35	28°59'12	16°55	16°28	22°34	18°25	0°17	23°36	5°10	2°14	1°48	24°57	23°30	3°46	n.a.	T 22
F 23	7 53 32	29°59'38	28°50	17°47	22°56	18°59	0°16	23°43	5°11	2°15	1°49	24°50	23°27	3°52	n.a.	F 23
S 24	7 57 28	1♒ 0'01	10♓41	19° 0	23°20	19°33	0°15	23°50	5°11	2°17	1°50	24°43	23°24	3°59	n.a.	S 24
S 25	8 1 25	2° 0'23	22°32	20° 6	23°46	20° 7	0°14	23°57	5°12	2°18	1°52	24°37	23°21	4° 6	n.a.	S 25
M26	8 5 22	3° 0'43	4♈26	21° 5	24°13	20°41	0°13	24° 5	5°12	2°19	1°53	24°32	23°18	4°13	n.a.	M26
T 27	8 9 18	4° 1'01	16°26	21°56	24°42	21°16	0°13	24°12	5°13	2°21	1°54	24°28	23°14	4°19	n.a.	T 27
W28	8 13 15	5° 1'16	28°36	22°39	25°13	21°50	0°D13	24°19	5°13	2°22	1°56	24°26	23°11	4°26	n.a.	W28
T 29	8 17 11	6° 1'30	11♉ 1	23°12	25°45	22°25	0°13	24°26	5°14	2°23	1°57	24°D26	23° 8	4°33	n.a.	T 29
F 30	8 21 8	7° 1'41	23°46	23°37	26°18	22°59	0°13	24°33	5°15	2°24	1°59	24°27	23° 5	4°39	n.a.	F 30
S 31	8 25 4	8♒ 1'50	6♊54	23♒52	26♐53	23♈34	0♊13	24♑40	5♉15	2♐26	2♓ 0	24♊29	23♊ 2	4♓46	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	23 s29	8n42	4 s11	25 s20	2 s 2	17 s22	6n11	3n14	0n32	20n23	0 s19	22 s45	0 s43	13n 6	0 s20	19 s20	1n25	26 s 5	16 s10	23n38	23n36	15 s30			n.a.
F 2	23 25	13 32	3 22	25 10	2 2	17 15	6 17	3 28	0 33	20 22	0 19	22 44	0 43	13 6	0 20	19 21	1 25	26 5	16 9	23 38	23 36	15 28			n.a.
S 3	23 21	17 53	2 20	24 59	2 1	17 8	6 22	3 41	0 34	20 21	0 19	22 43	0 43	13 6	0 20	19 21	1 25	26 4	16 9	23 38	23 36	15 26			n.a.
S 4	23 16	21 26	1 9	24 45	1 59	17 3	6 27	3 55	0 35	20 20	0 18	22 41	0 43	13 6	0 20	19 21	1 25	26 4	16 9	23 38	23 36	15 24			n.a.
M 5	23 11	23 48	0n 8	24 30	1 58	16 58	6 31	4 9	0 36	20 19	0 18	22 40	0 43	13 5	0 20	19 22	1 25	26 3	16 9	23 38	23 36	15 22			n.a.
T 6	23 5	24 40	1 26	24 13	1 55	16 53	6 34	4 23	0 37	20 19	0 18	22 39	0 43	13 5	0 20	19 22	1 25	26 2	16 8	23 38	23 36	15 20			n.a.
W 7	22 59	23 51	2 41	23 53	1 52	16 50	6 36	4 37	0 38	20 18	0 18	22 38	0 43	13 5	0 20	19 23	1 25	26 2	16 8	23 38	23 35	15 17			n.a.
T 8	22 53	21 21	3 45	23 32	1 48	16 48	6 38	4 50	0 39	20 17	0 18	22 37	0 43	13 5	0 20	19 23	1 25	26 1	16 8	23 38	23 35	15 15			n.a.
F 9	22 46	17 26	4 34	23 9	1 44	16 46	6 39	5 4	0 40	20 17	0 17	22 36	0 43	13 5	0 20	19 23	1 25	26 0	16 8	23 38	23 35	15 13			n.a.
S 10	22 38	12 28	5 4	22 43	1 39	16 45	6 40	5 18	0 40	20 16	0 17	22 35	0 43	13 5	0 20	19 24	1 25	26 0	16 7	23 37	23 35	15 11			n.a.
S 11	22 30	6 53	5 15	22 16	1 34	16 44	6 40	5 32	0 41	20 16	0 17	22 34	0 43	13 5	0 20	19 24	1 25	25 59	16 7	23 37	23 35	15 9			n.a.
M12	22 22	1 2	5 5	21 47	1 27	16 45	6 39	5 46	0 42	20 15	0 17	22 33	0 43	13 5	0 20	19 24	1 25	25 58	16 7	23 37	23 35	15 7			n.a.
T 13	22 13	4 s44	4 38	21 17	1 20	16 46	6 38	5 59	0 43	20 15	0 17	22 31	0 43	13 5	0 20	19 24	1 25	25 58	16 7	23 37	23 35	15 4			n.a.
W14	22 4	10 9	3 56	20 45	1 12	16 48	6 37	6 13	0 44	20 14	0 16	22 30	0 43	13 5	0 20	19 25	1 25	25 57	16 6	23 37	23 34	15 2			n.a.
T 15	21 54	14 59	3 2	20 11	1 4	16 50	6 35	6 27	0 44	20 14	0 16	22 29	0 43	13 5	0 20	19 25	1 25	25 56	16 6	23 37	23 34	15 0			n.a.
F 16	21 44	19 1	1 59	19 36	0 55	16 53	6 33	6 41	0 45	20 13	0 16	22 28	0 44	13 5	0 20	19 25	1 25	25 56	16 6	23 37	23 34	14 58			n.a.
S 17	21 34	22 4	0 52	18 59	0 45	16 56	6 30	6 55	0 46	20 13	0 16	22 27	0 44	13 5	0 20	19 26	1 25	25 55	16 6	23 38	23 34	14 56			n.a.
S 18	21 23	23 59	0 s17	18 22	0 34	17 0	6 27	7 8	0 47	20 13	0 16	22 26	0 44	13 5	0 20	19 26	1 25	25 54	16 6	23 38	23 34	14 53			n.a.
M19	21 12	24 40	1 23	17 44	0 22	17 4	6 24	7 22	0 47	20 12	0 16	22 24	0 44	13 5	0 20	19 26	1 25	25 54	16 5	23 38	23 34	14 51			n.a.
T 20	21 0	24 9	2 25	17 6	0 10	17 9	6 20	7 36	0 48	20 12	0 15	22 23	0 44	13 5	0 20	19 26	1 25	25 53	16 5	23 37	23 33	14 49			n.a.
W21	20 48	22 29	3 20	16 27	0n 3	17 14	6 16	7 50	0 49	20 12	0 15	22 22	0 44	13 5	0 20	19 27	1 25	25 53	16 5	23 37	23 33	14 47			n.a.
T 22	20 36	19 50	4 5	15 49	0 17	17 19	6 12	8 3	0 49	20 12	0 15	22 21	0 44	13 5	0 20	19 27	1 25	25 52	16 5	23 37	23 33	14 45			n.a.
F 23	20 23	16 22	4 39	15 11	0 31	17 25	6 7	8 17	0 50	20 12	0 15	22 20	0 44	13 5	0 20	19 27	1 26	25 51	16 5	23 37	23 33	14 42			n.a.
S 24	20 10	12 16	5 1	14 34	0 46	17 31	6 2	8 31	0 51	20 12	0 15	22 19	0 44	13 5	0 20	19 27	1 26	25 51	16 5	23 36	23 33	14 40			n.a.
S 25	19 56	7 44	5 10	13 59	1 1	17 37	5 58	8 44	0 51	20 12	0 14	22 17	0 44	13 6	0 20	19 28	1 26	25 50	16 4	23 36	23 33	14 38			n.a.
M26	19 43	2 53	5 6	13 26	1 16	17 43	5 52	8 58	0 52	20 12	0 14	22 16	0 44	13 6	0 20	19 28	1 26	25 49	16 4	23 36	23 33	14 36			n.a.
T 27	19 28	2n 6	4 48	12 54	1 32	17 50	5 47	9 12	0 52	20 12	0 14	22 15	0 44	13 6	0 20	19 28	1 26	25 49	16 4	23 36	23 32	14 33			n.a.
W28	19 14	7 6	4 17	12 26	1 48	17 56	5 42	9 25	0 53	20 12	0 14	22 14	0 45	13 6	0 20	19 28	1 26	25 48	16 4	23 36	23 32	14 31			n.a.
T 29	18 59	11 55	3 34	12 0	2 3	18 3	5 36	9 39	0 54	20 12	0 14	22 13	0 45	13 6	0 20	19 29	1 26	25 47	16 4	23 36	23 32	14 29			n.a.
F 30	18 44	16 22	2 39	11 38	2 18	18 9	5 30	9 52	0 54	20 13	0 14	22 11	0 45	13 7	0 20	19 29	1 26	25 47	16 4	23 36	23 32	14 27			n.a.
S 31	18 s28	20n10	1 s34	11 s19	2n33	18 s16	5n25	10n 6	0n55	20n13	0 s13	22 s10	0 s45	13n 7	0 s20	19 s29	1n26	25 s46	16 s 3	23n36	23n32	14 s24			n.a.

Julian Day Number = 1663713.5, Delta T = 03h24m20s
Ecliptic obliquity = 23°42'52, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'55, Lahiri = - 6°07'55 Julian Calendar 1 Jan. 158 BCE == Greg. Calendar 29 Dec. 159 BCE

The year -157 astronomical counting style corresponds to year 158 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 158 BCE
geocentric

FEBRUARY 158 BCE (-157) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 29 1	9♒ 1'57	20♊30	23°R58	27♐29	24♈ 8	0♊14	24♑48	5♉16	2♐27	2♓ 1	24°R30	22♊59	4♓53	n.a.	S 1
M 2	8 32 57	10° 2'02	4♋34	23♒54	28° 7	24°43	0°15	24°55	5°17	2°28	2° 3	24♊29	22°55	5° 0	n.a.	M 2
T 3	8 36 54	11° 2'04	19° 6	23°41	28°45	25°18	0°16	25° 2	5°18	2°29	2° 4	24°27	22°52	5° 6	n.a.	T 3
W 4	8 40 51	12° 2'05	4♌ 0	23°20	29°25	25°53	0°17	25° 9	5°19	2°30	2° 6	24°23	22°49	5°13	n.a.	W 4
T 5	8 44 47	13° 2'03	19° 9	22°50	0♑ 6	26°28	0°18	25°16	5°20	2°31	2° 7	24°16	22°46	5°20	n.a.	T 5
F 6	8 48 44	14° 2'00	4♍24	22°12	0°48	27° 3	0°20	25°23	5°21	2°32	2° 8	24° 9	22°43	5°27	n.a.	F 6
S 7	8 52 40	15° 1'54	19°32	21°28	1°31	27°37	0°22	25°30	5°22	2°33	2°10	24° 1	22°39	5°33	n.a.	S 7
S 8	8 56 37	16° 1'47	4♎26	20°39	2°15	28°13	0°24	25°37	5°23	2°34	2°11	23°54	22°36	5°40	n.a.	S 8
M 9	9 0 33	17° 1'37	18°57	19°45	3° 0	28°48	0°26	25°44	5°25	2°35	2°13	23°49	22°33	5°47	n.a.	M 9
T 10	9 4 30	18° 1'26	3♏ 2	18°48	3°46	29°23	0°28	25°51	5°26	2°36	2°14	23°45	22°30	5°53	n.a.	T 10
W11	9 8 26	19° 1'14	16°40	17°50	4°33	29°58	0°31	25°58	5°27	2°37	2°16	23°D44	22°27	6° 0	n.a.	W11
T 12	9 12 23	20° 0'59	29°53	16°52	5°20	0♉33	0°33	26° 5	5°28	2°38	2°17	23°45	22°24	6° 7	n.a.	T 12
F 13	9 16 20	21° 0'43	12♐45	15°54	6° 9	1° 8	0°36	26°11	5°30	2°38	2°19	23°46	22°20	6°14	n.a.	F 13
S 14	9 20 16	22° 0'25	25°19	14°59	6°58	1°44	0°39	26°18	5°31	2°39	2°20	23°R46	22°17	6°20	n.a.	S 14
S 15	9 24 13	23° 0'05	7♑39	14° 7	7°48	2°19	0°43	26°25	5°33	2°40	2°22	23°45	22°14	6°27	n.a.	S 15
M16	9 28 9	23°59'43	19°48	13°19	8°39	2°54	0°46	26°32	5°34	2°41	2°23	23°42	22°11	6°34	n.a.	M16
T 17	9 32 6	24°59'19	1♒50	12°35	9°30	3°30	0°50	26°39	5°36	2°41	2°25	23°36	22° 8	6°40	n.a.	T 17
W18	9 36 2	25°58'53	13°47	11°58	10°22	4° 5	0°54	26°45	5°38	2°42	2°26	23°27	22° 5	6°47	n.a.	W18
T 19	9 39 59	26°58'25	25°41	11°25	11°15	4°41	0°57	26°52	5°39	2°43	2°28	23°16	22° 1	6°54	n.a.	T 19
F 20	9 43 55	27°57'55	7♓33	10°59	12° 8	5°16	1° 2	26°58	5°41	2°43	2°29	23° 3	21°58	7° 1	n.a.	F 20
S 21	9 47 52	28°57'23	19°25	10°39	13° 2	5°52	1° 6	27° 5	5°43	2°44	2°31	22°50	21°55	7° 7	n.a.	S 21
S 22	9 51 49	29°56'48	1♈18	10°24	13°57	6°27	1°10	27°12	5°45	2°44	2°32	22°38	21°52	7°14	n.a.	S 22
M23	9 55 45	0♓56'11	13°14	10°16	14°52	7° 3	1°15	27°18	5°47	2°45	2°34	22°28	21°49	7°21	n.a.	M23
T 24	9 59 42	1°55'32	25°16	10°D14	15°47	7°39	1°20	27°25	5°48	2°45	2°35	22°19	21°45	7°27	n.a.	T 24
W25	10 3 38	2°54'50	7♉26	10°18	16°43	8°14	1°25	27°31	5°50	2°45	2°37	22°14	21°42	7°34	n.a.	W25
T 26	10 7 35	3°54'06	19°50	10°27	17°40	8°50	1°30	27°37	5°52	2°46	2°38	22°11	21°39	7°41	n.a.	T 26
F 27	10 11 31	4°53'20	2♊30	10°41	18°37	9°26	1°36	27°44	5°55	2°46	2°40	22°D10	21°36	7°48	n.a.	F 27
S 28	10 15 28	5♓52'32	15♊31	11♒ 0	19♑34	10♉ 2	1♊41	27♑50	5♉57	2♐46	2♓41	22°R10	21♊33	7♓54	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	
S 1	18s12	23n 1	0s22	11s 4	2n47	18s23	5n19	10n19	0n55	20n13	0s13	22s 9	0s45	13n 7	0s20	19s29	1n26	25s45	16s 3	23n36	23n32	14s22			n.a.	S 1
M 2	17 56	24 32	0n54	10 53	3 0	18 29	5 13	10 33	0 56	20 13	0 13	22 8	0 45	13 8	0 20	19 29	1 26	25 45	16 3	23 36	23 31	14 20			n.a.	M 2
T 3	17 40	24 28	2 9	10 46	3 12	18 36	5 7	10 46	0 56	20 14	0 13	22 7	0 45	13 8	0 20	19 30	1 26	25 44	16 3	23 36	23 31	14 18			n.a.	T 3
W 4	17 23	22 39	3 16	10 43	3 23	18 42	5 0	11 0	0 57	20 14	0 13	22 5	0 45	13 8	0 20	19 30	1 26	25 43	16 3	23 36	23 31	14 15			n.a.	W 4
T 5	17 6	19 13	4 11	10 44	3 32	18 49	4 54	11 13	0 57	20 15	0 12	22 4	0 45	13 9	0 19	19 30	1 26	25 43	16 3	23 35	23 31	14 13			n.a.	T 5
F 6	16 48	14 29	4 49	10 49	3 39	18 55	4 48	11 26	0 58	20 15	0 12	22 3	0 45	13 9	0 19	19 30	1 26	25 42	16 3	23 35	23 31	14 11			n.a.	F 6
S 7	16 31	8 52	5 6	10 58	3 44	19 1	4 41	11 39	0 58	20 16	0 12	22 2	0 45	13 9	0 19	19 30	1 26	25 41	16 3	23 35	23 31	14 9			n.a.	S 7
S 8	16 13	2 49	5 1	11 11	3 48	19 7	4 35	11 52	0 59	20 16	0 12	22 0	0 46	13 10	0 19	19 30	1 26	25 41	16 3	23 34	23 30	14 6			n.a.	S 8
M 9	15 55	3s13	4 38	11 26	3 49	19 13	4 28	12 6	0 59	20 17	0 12	21 59	0 46	13 10	0 19	19 31	1 26	25 40	16 2	23 34	23 30	14 4			n.a.	M 9
T 10	15 36	8 56	3 58	11 44	3 49	19 18	4 22	12 19	1 0	20 18	0 12	21 58	0 46	13 11	0 19	19 31	1 26	25 40	16 2	23 34	23 30	14 2			n.a.	T 10
W11	15 18	14 3	3 5	12 5	3 46	19 23	4 15	12 32	1 0	20 18	0 11	21 57	0 46	13 11	0 19	19 31	1 26	25 39	16 2	23 34	23 30	13 59			n.a.	W11
T 12	14 59	18 20	2 4	12 27	3 42	19 28	4 8	12 45	1 1	20 19	0 11	21 56	0 46	13 12	0 19	19 31	1 26	25 38	16 2	23 34	23 30	13 57			n.a.	T 12
F 13	14 39	21 37	0 59	12 50	3 35	19 33	4 2	12 57	1 1	20 20	0 11	21 54	0 46	13 12	0 19	19 31	1 26	25 38	16 2	23 34	23 29	13 55			n.a.	F 13
S 14	14 20	23 46	0s 8	13 14	3 27	19 37	3 55	13 10	1 2	20 21	0 11	21 53	0 46	13 13	0 19	19 31	1 26	25 37	16 2	23 34	23 29	13 52			n.a.	S 14
S 15	14 0	24 43	1 14	13 38	3 17	19 41	3 49	13 23	1 2	20 21	0 11	21 52	0 46	13 13	0 19	19 31	1 26	25 36	16 2	23 34	23 29	13 50			n.a.	S 15
M16	13 41	24 27	2 14	14 2	3 6	19 44	3 42	13 36	1 2	20 22	0 11	21 51	0 46	13 14	0 19	19 31	1 26	25 36	16 2	23 34	23 29	13 48			n.a.	M16
T 17	13 20	23 2	3 8	14 26	2 54	19 47	3 35	13 48	1 3	20 23	0 11	21 50	0 46	13 14	0 19	19 32	1 26	25 35	16 2	23 33	23 29	13 45			n.a.	T 17
W18	13 0	20 36	3 54	14 49	2 41	19 50	3 29	14 1	1 3	20 24	0 10	21 48	0 47	13 15	0 19	19 32	1 26	25 35	16 2	23 33	23 28	13 43			n.a.	W18
T 19	12 40	17 18	4 28	15 11	2 28	19 53	3 22	14 13	1 4	20 25	0 10	21 47	0 47	13 15	0 19	19 32	1 27	25 34	16 2	23 32	23 28	13 41			n.a.	T 19
F 20	12 19	13 19	4 51	15 32	2 14	19 55	3 15	14 26	1 4	20 26	0 10	21 46	0 47	13 16	0 19	19 32	1 27	25 33	16 2	23 32	23 28	13 38			n.a.	F 20
S 21	11 58	8 51	5 1	15 51	1 59	19 56	3 9	14 38	1 4	20 27	0 10	21 45	0 47	13 17	0 19	19 32	1 27	25 33	16 2	23 31	23 28	13 36			n.a.	S 21
S 22	11 37	4 2	4 58	16 9	1 45	19 57	3 2	14 50	1 5	20 28	0 10	21 44	0 47	13 17	0 19	19 32	1 27	25 32	16 2	23 30	23 28	13 34			n.a.	S 22
M23	11 16	0n57	4 43	16 26	1 30	19 58	2 56	15 3	1 5	20 29	0 10	21 43	0 47	13 18	0 19	19 32	1 27	25 32	16 2	23 30	23 28	13 31			n.a.	M23
T 24	10 55	5 57	4 14	16 40	1 15	19 58	2 49	15 15	1 5	20 31	0 9	21 41	0 47	13 19	0 19	19 32	1 27	25 31	16 2	23 29	23 27	13 29			n.a.	T 24
W25	10 33	10 47	3 34	16 53	1 1	19 58	2 43	15 27	1 6	20 32	0 9	21 40	0 47	13 19	0 19	19 32	1 27	25 31	16 2	23 29	23 27	13 27			n.a.	W25
T 26	10 11	15 17	2 43	17 4	0 47	19 57	2 36	15 39	1 6	20 33	0 9	21 39	0 47	13 20	0 19	19 32	1 27	25 30	16 2	23 29	23 27	13 24			n.a.	T 26
F 27	9 50	19 14	1 42	17 14	0 33	19 56	2 30	15 51	1 6	20 34	0 9	21 38	0 48	13 21	0 19	19 32	1 27	25 29	16 2	23 29	23 27	13 22			n.a.	F 27
S 28	9s28	22n20	0s35	17s21	0n20	19s54	2n23	16n 3	1n 7	20n36	0s 9	21s37	0s48	13n21	0s19	19s32	1n27	25s29	16s 2	23n29	23n26	13s20			n.a.	S 28

Julian Day Number = 1663744.5, Delta T = 03h24m19s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'51, Lahiri = - 6°07'50 Julian Calendar 1 Feb. 158 BCE == Greg. Calendar 29 Jan. 158 BCE

The year -157 astronomical counting style corresponds to year 158 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 158 BCE
geocentric

MARCH 158 BCE (-157) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 19 24	6♓51'40	28♊58	11♒25	20♑32	10♉37	1♊47	27♑56	5♉59	2♐47	2♓43	22°R10	21♊30	8♓ 1	n.a.	S 1
M 2	10 23 21	7°50'47	12♋53	11°53	21°30	11°13	1°53	28° 2	6° 1	2°47	2°44	22♊ 9	21°26	8° 8	n.a.	M 2
T 3	10 27 17	8°49'51	27°17	12°27	22°29	11°49	1°58	28° 8	6° 3	2°47	2°46	22° 5	21°23	8°14	n.a.	T 3
W 4	10 31 14	9°48'53	12♌ 7	13° 4	23°28	12°25	2° 5	28°14	6° 5	2°47	2°47	21°59	21°20	8°21	n.a.	W 4
T 5	10 35 11	10°47'52	27°17	13°45	24°27	13° 1	2°11	28°20	6° 8	2°48	2°49	21°50	21°17	8°28	n.a.	T 5
F 6	10 39 7	11°46'49	12♍37	14°30	25°27	13°37	2°17	28°26	6°10	2°48	2°50	21°40	21°14	8°35	n.a.	F 6
S 7	10 43 4	12°45'44	27°57	15°18	26°27	14°13	2°24	28°32	6°12	2°48	2°52	21°29	21°10	8°41	n.a.	S 7
S 8	10 47 0	13°44'37	13♎ 4	16°10	27°28	14°49	2°31	28°38	6°15	2°48	2°53	21°19	21° 7	8°48	n.a.	S 8
M 9	10 50 57	14°43'28	27°49	17° 4	28°29	15°25	2°38	28°44	6°17	2°R48	2°55	21°10	21° 4	8°55	n.a.	M 9
T 10	10 54 53	15°42'17	12♏ 6	18° 2	29°30	16° 1	2°45	28°50	6°20	2°48	2°56	21° 5	21° 1	9° 2	n.a.	T 10
W11	10 58 50	16°41'05	25°54	19° 2	0♒31	16°37	2°52	28°55	6°22	2°48	2°57	21° 2	20°58	9° 8	n.a.	W11
T 12	11 2 46	17°39'50	9♐13	20° 6	1°33	17°13	2°59	29° 1	6°25	2°48	2°59	21° 1	20°55	9°15	n.a.	T 12
F 13	11 6 43	18°38'34	22° 5	21°11	2°35	17°49	3° 6	29° 7	6°27	2°47	3° 0	21° 1	20°51	9°22	n.a.	F 13
S 14	11 10 40	19°37'16	4♑37	22°20	3°37	18°25	3°14	29°12	6°30	2°47	3° 2	21° 0	20°48	9°28	n.a.	S 14
S 15	11 14 36	20°35'57	16°52	23°30	4°40	19° 1	3°22	29°18	6°33	2°47	3° 3	20°58	20°45	9°35	n.a.	S 15
M16	11 18 33	21°34'35	28°56	24°43	5°43	19°37	3°30	29°23	6°35	2°47	3° 5	20°54	20°42	9°42	n.a.	M16
T 17	11 22 29	22°33'12	10♒52	25°58	6°46	20°13	3°37	29°28	6°38	2°47	3° 6	20°48	20°39	9°49	n.a.	T 17
W18	11 26 26	23°31'46	22°44	27°16	7°49	20°50	3°46	29°34	6°41	2°46	3° 8	20°38	20°36	9°55	n.a.	W18
T 19	11 30 22	24°30'19	4♓35	28°35	8°53	21°26	3°54	29°39	6°44	2°46	3° 9	20°26	20°32	10° 2	n.a.	T 19
F 20	11 34 19	25°28'50	16°27	29°56	9°57	22° 2	4° 2	29°44	6°46	2°46	3°10	20°12	20°29	10° 9	n.a.	F 20
S 21	11 38 15	26°27'19	28°21	1♈20	11° 1	22°38	4°11	29°49	6°49	2°45	3°12	19°57	20°26	10°15	n.a.	S 21
S 22	11 42 12	27°25'46	10♈19	2°45	12° 5	23°15	4°19	29°54	6°52	2°45	3°13	19°44	20°23	10°22	n.a.	S 22
M23	11 46 8	28°24'11	22°21	4°12	13° 9	23°51	4°28	29°59	6°55	2°44	3°15	19°32	20°20	10°29	n.a.	M23
T 24	11 50 5	29°22'34	4♉31	5°41	14°14	24°27	4°37	0♒ 4	6°58	2°44	3°16	19°22	20°16	10°36	n.a.	T 24
W25	11 54 2	0♈20'55	16°49	7°12	15°19	25° 4	4°46	0° 9	7° 1	2°43	3°17	19°16	20°13	10°42	n.a.	W25
T 26	11 57 58	1°19'13	29°18	8°44	16°24	25°40	4°55	0°13	7° 4	2°43	3°19	19°12	20°10	10°49	n.a.	T 26
F 27	12 1 55	2°17'30	12♊ 1	10°19	17°29	26°16	5° 4	0°18	7° 7	2°42	3°20	19°11	20° 7	10°56	n.a.	F 27
S 28	12 5 51	3°15'45	25° 1	11°55	18°34	26°53	5°13	0°22	7°10	2°42	3°21	19°D11	20° 4	11° 3	n.a.	S 28
S 29	12 9 48	4°13'57	8♋23	13°33	19°40	27°29	5°23	0°27	7°13	2°41	3°23	19°R11	20° 1	11° 9	n.a.	S 29
M30	12 13 44	5°12'07	22° 9	15°13	20°46	28° 6	5°32	0°31	7°16	2°40	3°24	19°10	19°57	11°16	n.a.	M30
T 31	12 17 41	6♈10'16	6♌20	16♓54	21♒51	28♉42	5♊42	0♒36	7♉19	2♐40	3♓25	19♊ 7	19♊54	11♓23	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	9s 6	24n19	0n36	17s27	0n 7	19s52	2n17	16n14	1n 7	20n37	0s 9	21s36	0s48	13n22	0s19	19s32	1n27	25s28	16s 2	23n29	23n26	13s17			n.a.
M 2	8 43	24 52	1 47	17 31	0s 6	19 50	2 10	16 26	1 7	20 38	0 8	21 34	0 48	13 23	0 19	19 32	1 27	25 28	16 2	23 29	23 26	13 15			n.a.
T 3	8 21	23 47	2 54	17 33	0 18	19 46	2 4	16 38	1 8	20 40	0 8	21 33	0 48	13 24	0 19	19 32	1 27	25 27	16 2	23 29	23 26	13 13			n.a.
W 4	7 59	21 3	3 51	17 34	0 30	19 43	1 58	16 49	1 8	20 41	0 8	21 32	0 48	13 24	0 19	19 32	1 27	25 27	16 2	23 28	23 26	13 10			n.a.
T 5	7 36	16 50	4 34	17 33	0 41	19 39	1 52	17 0	1 8	20 42	0 8	21 31	0 48	13 25	0 19	19 32	1 27	25 26	16 2	23 28	23 25	13 8			n.a.
F 6	7 13	11 27	4 57	17 30	0 52	19 34	1 46	17 12	1 8	20 44	0 8	21 30	0 48	13 26	0 19	19 32	1 27	25 26	16 2	23 27	23 25	13 5			n.a.
S 7	6 51	5 23	4 59	17 25	1 2	19 29	1 40	17 23	1 9	20 45	0 8	21 29	0 49	13 27	0 19	19 32	1 27	25 25	16 2	23 26	23 25	13 3			n.a.
S 8	6 28	0s56	4 39	17 19	1 12	19 23	1 33	17 34	1 9	20 47	0 8	21 28	0 49	13 28	0 19	19 32	1 27	25 25	16 2	23 26	23 25	13 1			n.a.
M 9	6 5	7 3	4 2	17 11	1 21	19 16	1 28	17 45	1 9	20 48	0 7	21 27	0 49	13 29	0 19	19 32	1 27	25 24	16 2	23 25	23 25	12 58			n.a.
T 10	5 42	12 38	3 10	17 1	1 29	19 10	1 22	17 56	1 10	20 50	0 7	21 26	0 49	13 29	0 19	19 32	1 27	25 24	16 3	23 25	23 24	12 56			n.a.
W11	5 19	17 22	2 9	16 49	1 37	19 2	1 16	18 6	1 10	20 51	0 7	21 25	0 49	13 30	0 19	19 32	1 27	25 23	16 3	23 24	23 24	12 53			n.a.
T 12	4 56	21 4	1 2	16 36	1 45	18 54	1 10	18 17	1 10	20 53	0 7	21 24	0 49	13 31	0 19	19 32	1 27	25 23	16 3	23 24	23 24	12 51			n.a.
F 13	4 33	23 34	0s 6	16 21	1 51	18 46	1 4	18 28	1 10	20 54	0 7	21 23	0 49	13 32	0 19	19 32	1 27	25 22	16 3	23 24	23 24	12 48			n.a.
S 14	4 9	24 49	1 11	16 5	1 58	18 37	0 59	18 38	1 10	20 56	0 7	21 22	0 49	13 33	0 19	19 32	1 27	25 22	16 3	23 24	23 24	12 46			n.a.
S 15	3 46	24 49	2 12	15 47	2 4	18 28	0 53	18 48	1 11	20 58	0 7	21 20	0 50	13 34	0 19	19 32	1 27	25 21	16 3	23 24	23 23	12 44			n.a.
M16	3 23	23 38	3 6	15 27	2 9	18 18	0 48	18 59	1 11	20 59	0 7	21 19	0 50	13 35	0 19	19 32	1 28	25 21	16 3	23 24	23 23	12 41			n.a.
T 17	2 59	21 24	3 51	15 6	2 14	18 7	0 42	19 9	1 11	21 1	0 6	21 18	0 50	13 36	0 19	19 31	1 28	25 21	16 3	23 23	23 23	12 39			n.a.
W18	2 36	18 16	4 25	14 43	2 18	17 56	0 37	19 19	1 11	21 3	0 6	21 18	0 50	13 37	0 19	19 31	1 28	25 20	16 3	23 23	23 23	12 36			n.a.
T 19	2 12	14 24	4 48	14 18	2 21	17 44	0 31	19 29	1 12	21 4	0 6	21 17	0 50	13 37	0 19	19 31	1 28	25 20	16 4	23 22	23 22	12 34			n.a.
F 20	1 49	9 59	4 59	13 52	2 25	17 32	0 26	19 38	1 12	21 6	0 6	21 16	0 50	13 38	0 19	19 31	1 28	25 19	16 4	23 21	23 22	12 31			n.a.
S 21	1 25	5 11	4 56	13 25	2 27	17 20	0 21	19 48	1 12	21 8	0 6	21 15	0 50	13 39	0 19	19 31	1 28	25 19	16 4	23 20	23 22	12 29			n.a.
S 22	1 2	0 10	4 41	12 56	2 29	17 7	0 16	19 58	1 12	21 9	0 6	21 14	0 51	13 40	0 18	19 31	1 28	25 19	16 4	23 19	23 22	12 27			n.a.
M23	0 39	4n54	4 12	12 25	2 31	16 53	0 11	20 7	1 12	21 11	0 6	21 13	0 51	13 41	0 18	19 31	1 28	25 18	16 4	23 18	23 21	12 24			n.a.
T 24	0 15	9 50	3 33	11 53	2 32	16 39	0 6	20 16	1 13	21 13	0 5	21 12	0 51	13 42	0 18	19 31	1 28	25 18	16 4	23 17	23 21	12 22			n.a.
W25	0n 8	14 28	2 42	11 19	2 32	16 24	0 1	20 26	1 13	21 15	0 5	21 11	0 51	13 43	0 18	19 31	1 28	25 17	16 4	23 17	23 21	12 19			n.a.
T 26	0 32	18 33	1 43	10 44	2 32	16 9	0s 3	20 35	1 13	21 17	0 5	21 10	0 51	13 44	0 18	19 30	1 28	25 17	16 5	23 16	23 21	12 17			n.a.
F 27	0 55	21 52	0 38	10 7	2 31	15 54	0 8	20 43	1 13	21 18	0 5	21 9	0 51	13 45	0 18	19 30	1 28	25 17	16 5	23 16	23 21	12 14			n.a.
S 28	1 19	24 8	0n31	9 28	2 30	15 38	0 12	20 52	1 13	21 20	0 5	21 8	0 51	13 46	0 18	19 30	1 28	25 16	16 5	23 16	23 20	12 12			n.a.
S 29	1 42	25 6	1 40	8 49	2 28	15 21	0 17	21 1	1 13	21 22	0 5	21 8	0 52	13 47	0 18	19 30	1 28	25 16	16 5	23 16	23 20	12 9			n.a.
M30	2 5	24 35	2 45	8 8	2 26	15 4	0 21	21 9	1 14	21 24	0 5	21 7	0 52	13 48	0 18	19 30	1 28	25 16	16 5	23 16	23 20	12 7			n.a.
T 31	2n29	22n29	3n42	7s25	2s23	14s47	0s25	21n18	1n14	21n26	0s 5	21s 6	0s52	13n49	0s18	19s30	1n28	25s15	16s 6	23n16	23n20	12s 4			n.a.

Julian Day Number = 1663772.5, Delta T = 03h24m18s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'47, Lahiri = - 6°07'47 Julian Calendar 1 March 158 BCE == Greg. Calendar 26 Feb. 158 BCE

The year -157 astronomical counting style corresponds to year 158 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 158 BCE
geocentric

APRIL 158 BCE (-157) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 21 37	7♈ 8'22	20♌56	18♓38	22♒57	29♉18	5♊51	0♒40	7♉22	2°R39	3♓27	19°R 1	19♊51	11♓29	n.a.	W 1
T 2	12 25 34	8° 6'26	5♍52	20°23	24° 4	29°55	6° 1	0°44	7°25	2♐38	3°28	18♊54	19°48	11°36	n.a.	T 2
F 3	12 29 31	9° 4'28	21° 1	22°10	25°10	0♊31	6°11	0°48	7°29	2°38	3°29	18°44	19°45	11°43	n.a.	F 3
S 4	12 33 27	10° 2'28	6♎13	23°59	26°16	1° 8	6°21	0°52	7°32	2°37	3°30	18°34	19°42	11°50	n.a.	S 4
S 5	12 37 24	11° 0'26	21°17	25°49	27°23	1°44	6°31	0°56	7°35	2°36	3°32	18°25	19°38	11°56	n.a.	S 5
M 6	12 41 20	11°58'23	6♏ 4	27°42	28°30	2°21	6°42	1° 0	7°38	2°35	3°33	18°17	19°35	12° 3	n.a.	M 6
T 7	12 45 17	12°56'18	20°26	29°36	29°36	2°57	6°52	1° 4	7°41	2°34	3°34	18°12	19°32	12°10	n.a.	T 7
W 8	12 49 13	13°54'12	4♐20	1♈32	0♓43	3°34	7° 2	1° 8	7°45	2°33	3°35	18° 9	19°29	12°16	n.a.	W 8
T 9	12 53 10	14°52'04	17°45	3°30	1°51	4°10	7°13	1°11	7°48	2°32	3°37	18°D 8	19°26	12°23	n.a.	T 9
F 10	12 57 6	15°49'56	0♑44	5°29	2°58	4°47	7°23	1°15	7°51	2°31	3°38	18° 9	19°22	12°30	n.a.	F 10
S 11	13 1 3	16°47'45	13°19	7°30	4° 5	5°23	7°34	1°18	7°55	2°30	3°39	18°R 9	19°19	12°37	n.a.	S 11
S 12	13 5 0	17°45'34	25°36	9°33	5°13	6° 0	7°45	1°22	7°58	2°29	3°40	18° 9	19°16	12°43	n.a.	S 12
M13	13 8 56	18°43'21	7♒40	11°38	6°20	6°37	7°55	1°25	8° 1	2°28	3°41	18° 7	19°13	12°50	n.a.	M13
T 14	13 12 53	19°41'07	19°36	13°44	7°28	7°13	8° 6	1°28	8° 5	2°27	3°42	18° 3	19°10	12°57	n.a.	T 14
W15	13 16 49	20°38'52	1♓27	15°51	8°36	7°50	8°17	1°31	8° 8	2°26	3°43	17°57	19° 7	13° 4	n.a.	W15
T 16	13 20 46	21°36'35	13°18	17°59	9°44	8°27	8°28	1°34	8°11	2°25	3°45	17°48	19° 3	13°10	n.a.	T 16
F 17	13 24 42	22°34'17	25°12	20° 9	10°52	9° 3	8°40	1°37	8°15	2°24	3°46	17°38	19° 0	13°17	n.a.	F 17
S 18	13 28 39	23°31'58	7♈10	22°19	12° 0	9°40	8°51	1°40	8°18	2°23	3°47	17°28	18°57	13°24	n.a.	S 18
S 19	13 32 35	24°29'37	19°16	24°30	13° 8	10°17	9° 2	1°43	8°22	2°22	3°48	17°18	18°54	13°30	n.a.	S 19
M20	13 36 32	25°27'15	1♉29	26°41	14°17	10°53	9°14	1°46	8°25	2°21	3°49	17° 9	18°51	13°37	n.a.	M20
T 21	13 40 28	26°24'52	13°51	28°52	15°25	11°30	9°25	1°48	8°29	2°19	3°50	17° 3	18°47	13°44	n.a.	T 21
W22	13 44 25	27°22'27	26°22	1♉ 3	16°34	12° 7	9°36	1°51	8°32	2°18	3°51	16°59	18°44	13°51	n.a.	W22
T 23	13 48 22	28°20'01	9♊ 5	3°14	17°42	12°43	9°48	1°53	8°36	2°17	3°52	16°56	18°41	13°57	n.a.	T 23
F 24	13 52 18	29°17'34	22° 1	5°24	18°51	13°20	10° 0	1°55	8°39	2°16	3°53	16°D56	18°38	14° 4	n.a.	F 24
S 25	13 56 15	0♉15'05	5♋11	7°32	20° 0	13°57	10°11	1°58	8°42	2°14	3°54	16°57	18°35	14°11	n.a.	S 25
S 26	14 0 11	1°12'35	18°37	9°40	21° 8	14°34	10°23	2° 0	8°46	2°13	3°54	16°58	18°32	14°17	n.a.	S 26
M27	14 4 8	2°10'03	2♌22	11°46	22°17	15°11	10°35	2° 2	8°49	2°12	3°55	16°R59	18°28	14°24	n.a.	M27
T 28	14 8 4	3° 7'30	16°25	13°50	23°26	15°47	10°47	2° 4	8°53	2°10	3°56	16°58	18°25	14°31	n.a.	T 28
W29	14 12 1	4° 4'55	0♍46	15°53	24°35	16°24	10°59	2° 5	8°56	2° 9	3°57	16°56	18°22	14°38	n.a.	W29
T 30	14 15 58	5♉ 2'19	15♍23	17♉53	25♓45	17♊ 1	11♊11	2♒ 7	9♉ 0	2♐ 8	3♓58	16♊52	18♊19	14♓44	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	2n52	18n53	4n27	6s41	2s19	14s29	0s30	21n26	1n14	21n28	0s 4	21s 5	0s52	13n50	0s18	19s29	1n28	25s15	16s 6	23n15	23n19	12s 2		n.a.
T 2	3 15	14 1	4 54	5 55	2 15	14 11	0 34	21 34	1 14	21 29	0 4	21 4	0 52	13 52	0 18	19 29	1 28	25 15	16 6	23 15	23 19	11 59		n.a.
F 3	3 38	8 13	5 2	5 9	2 11	13 52	0 38	21 42	1 14	21 31	0 4	21 4	0 52	13 53	0 18	19 29	1 28	25 14	16 6	23 14	23 19	11 57		n.a.
S 4	4 1	1 54	4 48	4 20	2 6	13 33	0 42	21 50	1 14	21 33	0 4	21 3	0 53	13 54	0 18	19 29	1 28	25 14	16 6	23 13	23 19	11 54		n.a.
S 5	4 24	4s28	4 14	3 31	2 0	13 14	0 45	21 58	1 14	21 35	0 4	21 2	0 53	13 55	0 18	19 29	1 28	25 14	16 7	23 12	23 18	11 52		n.a.
M 6	4 47	10 29	3 24	2 40	1 54	12 54	0 49	22 5	1 14	21 37	0 4	21 1	0 53	13 56	0 18	19 29	1 28	25 14	16 7	23 12	23 18	11 49		n.a.
T 7	5 10	15 47	2 22	1 48	1 48	12 34	0 53	22 13	1 15	21 39	0 4	21 1	0 53	13 57	0 18	19 28	1 28	25 13	16 7	23 11	23 18	11 47		n.a.
W 8	5 33	20 4	1 13	0 55	1 41	12 13	0 56	22 20	1 15	21 41	0 4	21 0	0 53	13 58	0 18	19 28	1 28	25 13	16 7	23 11	23 18	11 44		n.a.
T 9	5 55	23 7	0 2	0 1	1 33	11 52	1 0	22 27	1 15	21 42	0 3	20 59	0 53	13 59	0 18	19 28	1 28	25 13	16 8	23 11	23 17	11 42		n.a.
F 10	6 18	24 49	1s 7	0n54	1 25	11 31	1 3	22 34	1 15	21 44	0 3	20 59	0 53	14 0	0 18	19 28	1 28	25 13	16 8	23 11	23 17	11 39		n.a.
S 11	6 40	25 12	2 10	1 51	1 16	11 9	1 6	22 41	1 15	21 46	0 3	20 58	0 54	14 1	0 18	19 27	1 28	25 12	16 8	23 11	23 17	11 37		n.a.
S 12	7 3	24 19	3 6	2 48	1 8	10 47	1 9	22 47	1 15	21 48	0 3	20 58	0 54	14 2	0 18	19 27	1 28	25 12	16 8	23 11	23 17	11 34		n.a.
M13	7 25	22 18	3 52	3 45	0 58	10 24	1 12	22 54	1 15	21 50	0 3	20 57	0 54	14 3	0 18	19 27	1 28	25 12	16 9	23 11	23 16	11 32		n.a.
T 14	7 47	19 21	4 28	4 44	0 49	10 2	1 15	23 0	1 15	21 52	0 3	20 56	0 54	14 5	0 18	19 27	1 28	25 12	16 9	23 10	23 16	11 29		n.a.
W15	8 9	15 37	4 52	5 43	0 39	9 39	1 18	23 6	1 15	21 54	0 3	20 56	0 54	14 6	0 18	19 27	1 29	25 12	16 9	23 10	23 16	11 27		n.a.
T 16	8 31	11 18	5 4	6 42	0 29	9 15	1 21	23 12	1 15	21 56	0 3	20 55	0 54	14 7	0 18	19 26	1 29	25 12	16 9	23 9	23 15	11 24		n.a.
F 17	8 53	6 32	5 2	7 41	0 18	8 52	1 24	23 18	1 16	21 58	0 3	20 55	0 55	14 8	0 18	19 26	1 29	25 11	16 10	23 8	23 15	11 21		n.a.
S 18	9 14	1 30	4 47	8 40	0 8	8 28	1 26	23 24	1 16	21 59	0 2	20 54	0 55	14 9	0 18	19 26	1 29	25 11	16 10	23 7	23 15	11 19		n.a.
S 19	9 36	3n38	4 19	9 39	0n 3	8 4	1 29	23 30	1 16	22 1	0 2	20 54	0 55	14 10	0 18	19 26	1 29	25 11	16 10	23 6	23 15	11 16		n.a.
M20	9 57	8 42	3 39	10 37	0 13	7 39	1 31	23 35	1 16	22 3	0 2	20 54	0 55	14 11	0 18	19 25	1 29	25 11	16 10	23 5	23 14	11 14		n.a.
T 21	10 18	13 30	2 48	11 34	0 24	7 14	1 33	23 40	1 16	22 5	0 2	20 53	0 55	14 12	0 18	19 25	1 29	25 11	16 11	23 5	23 14	11 11		n.a.
W22	10 39	17 49	1 48	12 31	0 34	6 49	1 35	23 45	1 16	22 7	0 2	20 53	0 55	14 14	0 18	19 25	1 29	25 11	16 11	23 4	23 14	11 9		n.a.
T 23	11 0	21 22	0 42	13 26	0 44	6 24	1 37	23 50	1 16	22 9	0 2	20 52	0 56	14 15	0 18	19 24	1 29	25 11	16 11	23 4	23 14	11 6		n.a.
F 24	11 21	23 56	0n27	14 19	0 54	5 59	1 39	23 55	1 16	22 11	0 2	20 52	0 56	14 16	0 18	19 24	1 29	25 11	16 12	23 4	23 13	11 4		n.a.
S 25	11 41	25 14	1 37	15 11	1 4	5 33	1 41	24 0	1 16	22 12	0 2	20 52	0 56	14 17	0 18	19 24	1 29	25 10	16 12	23 4	23 13	11 1		n.a.
S 26	12 2	25 5	2 43	16 2	1 13	5 7	1 43	24 4	1 16	22 14	0 2	20 51	0 56	14 18	0 18	19 24	1 29	25 10	16 12	23 4	23 13	10 58		n.a.
M27	12 22	23 26	3 40	16 50	1 22	4 41	1 44	24 8	1 16	22 16	0 1	20 51	0 56	14 19	0 18	19 23	1 29	25 10	16 13	23 4	23 12	10 56		n.a.
T 28	12 42	20 20	4 26	17 36	1 30	4 15	1 46	24 13	1 16	22 18	0 1	20 51	0 57	14 20	0 18	19 23	1 29	25 10	16 13	23 4	23 12	10 53		n.a.
W29	13 2	15 57	4 57	18 20	1 37	3 49	1 47	24 16	1 16	22 20	0 1	20 51	0 57	14 22	0 18	19 23	1 29	25 10	16 13	23 4	23 12	10 51		n.a.
T 30	13n21	10n34	5n 9	19n 1	1n44	3s22	1s49	24n20	1n16	22n22	0s 1	20s50	0s57	14n23	0s18	19s22	1n29	25s10	16s14	23n 3	23n12	10s48		n.a.

Julian Day Number = 1663803.5, Delta T = 03h24m17s
Ecliptic obliquity = 23°42'54, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'43, Lahiri = - 6°07'42 Julian Calendar 1 Apr. 158 BCE == Greg. Calendar 29 March 158 BCE

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ASTRODIENST EPHEMERIS for the year 158 BCE
geocentric

MAY 158 BCE (-157) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 19 54	5♉59'41	0♎ 9	19♉51	26♓54	17♊38	11♊23	2♒ 9	9♉ 3	2°R 6	3♓59	16°R46	18♊16	14♓51	n.a.	F 1
S 2	14 23 51	6°57'03	15° 0	21°47	28° 3	18°15	11°35	2°10	9° 7	2♐ 5	4° 0	16♊40	18°13	14°58	n.a.	S 2
S 3	14 27 47	7°54'23	29°45	23°40	29°12	18°52	11°47	2°12	9°11	2° 3	4° 0	16°35	18° 9	15° 5	n.a.	S 3
M 4	14 31 44	8°51'42	14♏18	25°31	0♈22	19°28	12° 0	2°13	9°14	2° 2	4° 1	16°30	18° 6	15°11	n.a.	M 4
T 5	14 35 40	9°49'00	28°32	27°20	1°31	20° 5	12°12	2°14	9°18	2° 0	4° 2	16°27	18° 3	15°18	n.a.	T 5
W 6	14 39 37	10°46'18	12♐23	29° 5	2°41	20°42	12°24	2°15	9°21	1°59	4° 3	16°D26	18° 0	15°25	n.a.	W 6
T 7	14 43 33	11°43'35	25°48	0♊48	3°51	21°19	12°37	2°17	9°25	1°57	4° 3	16°26	17°57	15°31	n.a.	T 7
F 8	14 47 30	12°40'51	8♑50	2°29	5° 0	21°56	12°49	2°17	9°28	1°56	4° 4	16°28	17°53	15°38	n.a.	F 8
S 9	14 51 27	13°38'07	21°29	4° 6	6°10	22°33	13° 2	2°18	9°32	1°54	4° 5	16°29	17°50	15°45	n.a.	S 9
S 10	14 55 23	14°35'22	3♒50	5°41	7°20	23°10	13°14	2°19	9°35	1°53	4° 5	16°30	17°47	15°52	n.a.	S 10
M11	14 59 20	15°32'37	15°56	7°13	8°30	23°47	13°27	2°20	9°39	1°51	4° 6	16°R31	17°44	15°58	n.a.	M11
T 12	15 3 16	16°29'51	27°54	8°43	9°40	24°24	13°39	2°20	9°42	1°50	4° 7	16°30	17°41	16° 5	n.a.	T 12
W13	15 7 13	17°27'05	9♓47	10° 9	10°50	25° 1	13°52	2°21	9°46	1°48	4° 7	16°28	17°38	16°12	n.a.	W13
T 14	15 11 9	18°24'18	21°40	11°33	12° 0	25°38	14° 5	2°21	9°49	1°47	4° 8	16°25	17°34	16°19	n.a.	T 14
F 15	15 15 6	19°21'31	3♈36	12°54	13°10	26°15	14°18	2°21	9°53	1°45	4° 8	16°21	17°31	16°25	n.a.	F 15
S 16	15 19 2	20°18'44	15°40	14°12	14°21	26°52	14°30	2°22	9°56	1°44	4° 9	16°17	17°28	16°32	n.a.	S 16
S 17	15 22 59	21°15'56	27°53	15°27	15°31	27°29	14°43	2°R22	10° 0	1°42	4° 9	16°13	17°25	16°39	n.a.	S 17
M18	15 26 56	22°13'07	10♉17	16°39	16°41	28° 6	14°56	2°22	10° 3	1°40	4°10	16° 9	17°22	16°45	n.a.	M18
T 19	15 30 52	23°10'19	22°54	17°48	17°52	28°43	15° 9	2°21	10° 6	1°39	4°10	16° 7	17°19	16°52	n.a.	T 19
W20	15 34 49	24° 7'30	5♊44	18°53	19° 2	29°20	15°22	2°21	10°10	1°37	4°11	16° 5	17°15	16°59	n.a.	W20
T 21	15 38 45	25° 4'40	18°47	19°56	20°13	29°57	15°35	2°21	10°13	1°36	4°11	16°D 5	17°12	17° 6	n.a.	T 21
F 22	15 42 42	26° 1'50	2♋ 4	20°55	21°23	0♋34	15°48	2°20	10°17	1°34	4°11	16° 6	17° 9	17°12	n.a.	F 22
S 23	15 46 38	26°59'00	15°33	21°51	22°34	1°11	16° 1	2°20	10°20	1°32	4°12	16° 7	17° 6	17°19	n.a.	S 23
S 24	15 50 35	27°56'09	29°15	22°44	23°45	1°49	16°14	2°19	10°24	1°31	4°12	16° 8	17° 3	17°26	n.a.	S 24
M25	15 54 31	28°53'17	13♌ 8	23°33	24°55	2°26	16°27	2°19	10°27	1°29	4°12	16° 9	16°59	17°33	n.a.	M25
T 26	15 58 28	29°50'25	27°13	24°18	26° 6	3° 3	16°40	2°18	10°30	1°28	4°13	16°R10	16°56	17°39	n.a.	T 26
W27	16 2 25	0♊47'32	11♍27	24°59	27°17	3°40	16°53	2°17	10°34	1°26	4°13	16° 9	16°53	17°46	n.a.	W27
T 28	16 6 21	1°44'38	25°47	25°37	28°28	4°17	17° 7	2°16	10°37	1°24	4°13	16° 9	16°50	17°53	n.a.	T 28
F 29	16 10 18	2°41'45	10♎12	26°10	29°39	4°54	17°20	2°15	10°40	1°23	4°14	16° 7	16°47	17°59	n.a.	F 29
S 30	16 14 14	3°38'50	24°35	26°40	0♉50	5°32	17°33	2°14	10°44	1°21	4°14	16° 6	16°44	18° 6	n.a.	S 30
S 31	16 18 11	4♊35'56	8♏54	27♊ 5	2♉ 1	6♋ 9	17♊46	2♒12	10♉47	1♐19	4♓14	16♊ 4	16♊40	18♓13	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13n40	4n32	5n 1	19n40	1n50	2s56	1s50	24n24	1n16	22n23	0s 1	20s50	0s57	14n24	0s18	19s22	1n29	25s10	16s14	23n 3	23n11	10s45		n.a.
S 2	13 59	1s47	4 32	20 17	1 56	2 29	1 51	24 27	1 16	22 25	0 1	20 50	0 57	14 25	0 18	19 22	1 29	25 10	16 14	23 2	23 11	10 43		n.a.
S 3	14 18	7 59	3 46	20 51	2 1	2 2	1 52	24 30	1 16	22 27	0 1	20 50	0 57	14 26	0 18	19 22	1 29	25 10	16 15	23 2	23 11	10 40		n.a.
M 4	14 37	13 41	2 46	21 23	2 5	1 35	1 53	24 34	1 16	22 29	0 1	20 50	0 58	14 27	0 18	19 21	1 29	25 10	16 15	23 1	23 11	10 38		n.a.
T 5	14 55	18 30	1 36	21 52	2 8	1 8	1 54	24 36	1 16	22 30	0 1	20 50	0 58	14 28	0 18	19 21	1 29	25 10	16 15	23 1	23 10	10 35		n.a.
W 6	15 14	22 10	0 22	22 19	2 11	0 41	1 55	24 39	1 16	22 32	0 0	20 49	0 58	14 30	0 18	19 21	1 29	25 10	16 16	23 1	23 10	10 32		n.a.
T 7	15 32	24 30	0s51	22 43	2 13	0 13	1 56	24 42	1 16	22 34	0 0	20 49	0 58	14 31	0 18	19 20	1 29	25 10	16 16	23 1	23 10	10 30		n.a.
F 8	15 49	25 24	1 59	23 5	2 14	0n14	1 56	24 44	1 16	22 36	0 0	20 49	0 58	14 32	0 18	19 20	1 29	25 10	16 16	23 1	23 9	10 27		n.a.
S 9	16 7	24 56	3 0	23 24	2 14	0 42	1 57	24 46	1 16	22 37	0 0	20 49	0 58	14 33	0 18	19 20	1 29	25 10	16 17	23 1	23 9	10 25		n.a.
S 10	16 24	23 14	3 50	23 42	2 14	1 9	1 57	24 48	1 16	22 39	0 0	20 49	0 59	14 34	0 18	19 19	1 29	25 11	16 17	23 1	23 9	10 22		n.a.
M11	16 41	20 31	4 29	23 57	2 13	1 37	1 57	24 50	1 16	22 41	0n 0	20 49	0 59	14 35	0 18	19 19	1 29	25 11	16 17	23 1	23 8	10 19		n.a.
T 12	16 58	16 58	4 56	24 10	2 11	2 4	1 58	24 52	1 16	22 42	0 0	20 49	0 59	14 36	0 18	19 19	1 29	25 11	16 18	23 1	23 8	10 17		n.a.
W13	17 14	12 46	5 10	24 21	2 8	2 32	1 58	24 53	1 16	22 44	0 0	20 49	0 59	14 37	0 18	19 19	1 29	25 11	16 18	23 1	23 8	10 14		n.a.
T 14	17 30	8 6	5 11	24 29	2 5	3 0	1 58	24 55	1 16	22 46	0 0	20 50	0 59	14 39	0 18	19 18	1 29	25 11	16 18	23 1	23 8	10 11		n.a.
F 15	17 46	3 7	4 59	24 36	2 1	3 27	1 58	24 56	1 16	22 47	0 0	20 50	1 0	14 40	0 18	19 18	1 29	25 11	16 19	23 0	23 7	10 9		n.a.
S 16	18 2	2n 3	4 33	24 41	1 56	3 55	1 58	24 57	1 16	22 49	0 1	20 50	1 0	14 41	0 18	19 18	1 29	25 11	16 19	23 0	23 7	10 6		n.a.
S 17	18 17	7 12	3 54	24 45	1 51	4 22	1 58	24 58	1 16	22 50	0 1	20 50	1 0	14 42	0 18	19 17	1 29	25 11	16 19	23 0	23 7	10 3		n.a.
M18	18 32	12 10	3 4	24 46	1 45	4 50	1 57	24 58	1 16	22 52	0 1	20 50	1 0	14 43	0 18	19 17	1 29	25 11	16 20	22 59	23 6	10 1		n.a.
T 19	18 47	16 43	2 4	24 46	1 38	5 17	1 57	24 59	1 16	22 54	0 1	20 50	1 0	14 44	0 18	19 17	1 29	25 12	16 20	22 59	23 6	9 58		n.a.
W20	19 1	20 35	0 57	24 44	1 30	5 45	1 56	24 59	1 16	22 55	0 1	20 51	1 0	14 45	0 18	19 16	1 29	25 12	16 20	22 59	23 6	9 55		n.a.
T 21	19 15	23 29	0n15	24 41	1 22	6 12	1 56	24 59	1 16	22 57	0 1	20 51	1 1	14 46	0 18	19 16	1 29	25 12	16 21	22 59	23 5	9 53		n.a.
F 22	19 29	25 9	1 27	24 37	1 13	6 39	1 55	24 59	1 16	22 58	0 1	20 51	1 1	14 47	0 18	19 16	1 29	25 12	16 21	22 59	23 5	9 50		n.a.
S 23	19 43	25 22	2 35	24 31	1 3	7 7	1 55	24 59	1 16	23 0	0 1	20 51	1 1	14 48	0 18	19 15	1 29	25 12	16 22	22 59	23 5	9 47		n.a.
S 24	19 56	24 4	3 36	24 24	0 53	7 34	1 54	24 58	1 16	23 1	0 1	20 52	1 1	14 50	0 18	19 15	1 29	25 13	16 22	22 59	23 5	9 45		n.a.
M25	20 8	21 17	4 25	24 16	0 42	8 1	1 53	24 57	1 16	23 2	0 2	20 52	1 1	14 51	0 18	19 15	1 29	25 13	16 22	22 59	23 4	9 42		n.a.
T 26	20 21	17 14	4 59	24 6	0 31	8 27	1 52	24 57	1 16	23 4	0 2	20 52	1 2	14 52	0 18	19 14	1 29	25 13	16 23	22 59	23 4	9 39		n.a.
W27	20 33	12 11	5 15	23 56	0 19	8 54	1 51	24 56	1 16	23 5	0 2	20 53	1 2	14 53	0 18	19 14	1 29	25 13	16 23	22 59	23 4	9 37		n.a.
T 28	20 45	6 26	5 11	23 45	0 6	9 20	1 50	24 54	1 16	23 7	0 2	20 53	1 2	14 54	0 18	19 14	1 29	25 13	16 23	22 59	23 3	9 34		n.a.
F 29	20 56	0 20	4 48	23 33	0s 7	9 47	1 49	24 53	1 16	23 8	0 2	20 54	1 2	14 55	0 18	19 13	1 29	25 14	16 24	22 59	23 3	9 31		n.a.
S 30	21 7	5s48	4 7	23 20	0 21	10 13	1 48	24 51	1 16	23 9	0 2	20 54	1 2	14 56	0 18	19 13	1 29	25 14	16 24	22 59	23 3	9 29		n.a.
S 31	21n18	11s37	3n11	23n 6	0s35	10n39	1s46	24n50	1n16	23n11	0n 2	20s55	1s 2	14n57	0s18	19s13	1n29	25s14	16s25	22n59	23n 2	9s26		n.a.

Julian Day Number = 1663833.5, Delta T = 03h24m16s
Ecliptic obliquity = 23°42'54, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'39, Lahiri = - 6°07'38 Julian Calendar 1 May 158 BCE == Greg. Calendar 28 Apr. 158 BCE

The year -157 astronomical counting style corresponds to year 158 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 158 BCE
geocentric

JUNE 158 BCE (-157) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 22 7	5♊33'01	23♏ 2	27♊25	3♉12	6♋46	17♊59	2°R11	10♉50	1°R18	4♓14	16°R 3	16♊37	18♓20	n.a.	M 1
T 2	16 26 4	6°30'07	6♐56	27°42	4°23	7°23	18°13	2♒ 9	10°53	1♐16	4°14	16♊ 3	16°34	18°26	n.a.	T 2
W 3	16 30 0	7°27'12	20°32	27°53	5°34	8° 1	18°26	2° 8	10°57	1°15	4°14	16°D 3	16°31	18°33	n.a.	W 3
T 4	16 33 57	8°24'18	3♑49	28° 0	6°45	8°38	18°39	2° 6	11° 0	1°13	4°14	16° 3	16°28	18°40	n.a.	T 4
F 5	16 37 54	9°21'24	16°46	28°R 3	7°57	9°15	18°53	2° 4	11° 3	1°11	4°15	16° 3	16°25	18°46	n.a.	F 5
S 6	16 41 50	10°18'30	29°24	28° 0	9° 8	9°53	19° 6	2° 2	11° 6	1°10	4°15	16° 4	16°21	18°53	n.a.	S 6
S 7	16 45 47	11°15'36	11♒46	27°53	10°19	10°30	19°19	2° 1	11° 9	1° 8	4°15	16° 5	16°18	19° 0	n.a.	S 7
M 8	16 49 43	12°12'43	23°54	27°42	11°31	11° 7	19°33	1°58	11°13	1° 7	4°R15	16° 5	16°15	19° 7	n.a.	M 8
T 9	16 53 40	13° 9'50	5♓54	27°26	12°42	11°45	19°46	1°56	11°16	1° 5	4°15	16° 5	16°12	19°13	n.a.	T 9
W10	16 57 36	14° 6'58	17°48	27° 5	13°54	12°22	19°59	1°54	11°19	1° 4	4°15	16°R 5	16° 9	19°20	n.a.	W10
T 11	17 1 33	15° 4'06	29°42	26°41	15° 5	13° 0	20°13	1°52	11°22	1° 2	4°15	16° 5	16° 5	19°27	n.a.	T 11
F 12	17 5 30	16° 1'15	11♈40	26°13	16°17	13°37	20°26	1°49	11°25	1° 0	4°14	16°D 5	16° 2	19°34	n.a.	F 12
S 13	17 9 26	16°58'24	23°46	25°42	17°29	14°14	20°39	1°47	11°28	0°59	4°14	16° 5	15°59	19°40	n.a.	S 13
S 14	17 13 23	17°55'34	6♉ 4	25° 7	18°40	14°52	20°53	1°44	11°31	0°57	4°14	16° 5	15°56	19°47	n.a.	S 14
M15	17 17 19	18°52'44	18°38	24°31	19°52	15°29	21° 6	1°42	11°34	0°56	4°14	16° 6	15°53	19°54	n.a.	M15
T 16	17 21 16	19°49'56	1♊28	23°52	21° 4	16° 7	21°20	1°39	11°37	0°54	4°14	16° 6	15°50	20° 0	n.a.	T 16
W17	17 25 12	20°47'07	14°36	23°13	22°16	16°45	21°33	1°36	11°40	0°53	4°14	16°R 6	15°46	20° 7	n.a.	W17
T 18	17 29 9	21°44'20	28° 2	22°32	23°28	17°22	21°46	1°33	11°43	0°51	4°14	16° 6	15°43	20°14	n.a.	T 18
F 19	17 33 5	22°41'33	11♋44	21°52	24°40	18° 0	22° 0	1°30	11°46	0°50	4°13	16° 5	15°40	20°21	n.a.	F 19
S 20	17 37 2	23°38'46	25°40	21°13	25°52	18°37	22°13	1°27	11°48	0°48	4°13	16° 5	15°37	20°27	n.a.	S 20
S 21	17 40 59	24°36'00	9♌46	20°35	27° 4	19°15	22°27	1°24	11°51	0°47	4°13	16° 4	15°34	20°34	n.a.	S 21
M22	17 44 55	25°33'14	23°58	20° 0	28°16	19°53	22°40	1°21	11°54	0°45	4°13	16° 3	15°31	20°41	n.a.	M22
T 23	17 48 52	26°30'29	8♍15	19°28	29°28	20°30	22°53	1°18	11°57	0°44	4°12	16° 2	15°27	20°48	n.a.	T 23
W24	17 52 48	27°27'44	22°31	18°59	0♊40	21° 8	23° 7	1°15	11°59	0°43	4°12	16°D 2	15°24	20°54	n.a.	W24
T 25	17 56 45	28°24'59	6♎44	18°34	1°52	21°46	23°20	1°11	12° 2	0°41	4°11	16° 2	15°21	21° 1	n.a.	T 25
F 26	18 0 41	29°22'15	20°53	18°13	3° 5	22°23	23°34	1° 8	12° 5	0°40	4°11	16° 2	15°18	21° 8	n.a.	F 26
S 27	18 4 38	0♋19'32	4♏54	17°58	4°17	23° 1	23°47	1° 4	12° 7	0°38	4°11	16° 3	15°15	21°14	n.a.	S 27
S 28	18 8 34	1°16'49	18°45	17°48	5°29	23°39	24° 0	1° 1	12°10	0°37	4°10	16° 4	15°11	21°21	n.a.	S 28
M29	18 12 31	2°14'06	2♐26	17°D44	6°42	24°16	24°14	0°57	12°12	0°36	4°10	16° 5	15° 8	21°28	n.a.	M29
T 30	18 16 28	3♋11'25	15♐55	17♊46	7♊54	24♋54	24♊27	0♒53	12♉15	0♐35	4♓ 9	16°R 6	15♊ 5	21♓35	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21n29	16s45	2n 4	22n52	0s49	11n 5	1s45	24n48	1n16	23n12	0n 2	20s55	1s 3	14n58	0s18	19s12	1n29	25s15	16s25	22n58	23n 2	9s23		n.a.
T 2	21 39	20 54	0 50	22 38	1 4	11 30	1 43	24 46	1 15	23 13	0 2	20 56	1 3	14 59	0 18	19 12	1 29	25 15	16 25	22 58	23 2	9 21		n.a.
W 3	21 48	23 47	0s25	22 23	1 19	11 56	1 42	24 43	1 15	23 15	0 2	20 56	1 3	15 0	0 18	19 12	1 29	25 15	16 26	22 58	23 1	9 18		n.a.
T 4	21 58	25 16	1 37	22 7	1 35	12 21	1 40	24 41	1 15	23 16	0 3	20 57	1 3	15 1	0 18	19 11	1 29	25 15	16 26	22 58	23 1	9 15		n.a.
F 5	22 6	25 20	2 42	21 52	1 50	12 46	1 39	24 38	1 15	23 17	0 3	20 57	1 3	15 2	0 18	19 11	1 29	25 16	16 26	22 59	23 1	9 12		n.a.
S 6	22 15	24 3	3 38	21 36	2 6	13 10	1 37	24 35	1 15	23 18	0 3	20 58	1 4	15 3	0 18	19 11	1 29	25 16	16 27	22 59	23 0	9 10		n.a.
S 7	22 23	21 38	4 22	21 20	2 21	13 34	1 35	24 32	1 15	23 20	0 3	20 58	1 4	15 4	0 18	19 11	1 29	25 16	16 27	22 59	23 0	9 7		n.a.
M 8	22 31	18 18	4 53	21 5	2 37	13 59	1 34	24 29	1 15	23 21	0 3	20 59	1 4	15 5	0 18	19 10	1 29	25 17	16 28	22 59	23 0	9 4		n.a.
T 9	22 38	14 16	5 12	20 49	2 52	14 22	1 32	24 26	1 15	23 22	0 3	21 0	1 4	15 6	0 18	19 10	1 29	25 17	16 28	22 59	22 59	9 2		n.a.
W10	22 45	9 43	5 17	20 34	3 7	14 46	1 30	24 22	1 15	23 23	0 3	21 0	1 4	15 7	0 18	19 10	1 29	25 17	16 28	22 59	22 59	8 59		n.a.
T 11	22 52	4 49	5 8	20 20	3 21	15 9	1 28	24 19	1 15	23 24	0 3	21 1	1 4	15 8	0 18	19 9	1 29	25 18	16 29	22 59	22 59	8 56		n.a.
F 12	22 58	0n17	4 46	20 6	3 34	15 32	1 26	24 15	1 15	23 25	0 3	21 2	1 5	15 9	0 18	19 9	1 29	25 18	16 29	22 59	22 58	8 53		n.a.
S 13	23 4	5 27	4 11	19 52	3 47	15 54	1 24	24 11	1 14	23 26	0 3	21 3	1 5	15 10	0 18	19 9	1 29	25 19	16 29	22 59	22 58	8 51		n.a.
S 14	23 10	10 30	3 24	19 39	3 58	16 16	1 22	24 6	1 14	23 27	0 4	21 3	1 5	15 11	0 18	19 8	1 29	25 19	16 30	22 59	22 58	8 48		n.a.
M15	23 15	15 13	2 26	19 28	4 9	16 38	1 20	24 2	1 14	23 28	0 4	21 4	1 5	15 12	0 18	19 8	1 29	25 19	16 30	22 59	22 57	8 45		n.a.
T 16	23 19	19 23	1 20	19 17	4 18	16 59	1 18	23 57	1 14	23 29	0 4	21 5	1 5	15 13	0 18	19 8	1 29	25 20	16 31	22 59	22 57	8 42		n.a.
W17	23 23	22 41	0 8	19 7	4 25	17 20	1 15	23 53	1 14	23 30	0 4	21 6	1 5	15 14	0 18	19 8	1 29	25 20	16 31	22 59	22 57	8 40		n.a.
T 18	23 27	24 48	1n 6	18 59	4 32	17 40	1 13	23 48	1 14	23 31	0 4	21 6	1 6	15 14	0 18	19 7	1 29	25 21	16 31	22 59	22 56	8 37		n.a.
F 19	23 31	25 28	2 17	18 52	4 36	18 0	1 11	23 43	1 14	23 32	0 4	21 7	1 6	15 15	0 18	19 7	1 29	25 21	16 32	22 59	22 56	8 34		n.a.
S 20	23 34	24 34	3 22	18 46	4 39	18 20	1 9	23 37	1 14	23 33	0 4	21 8	1 6	15 16	0 18	19 7	1 28	25 21	16 32	22 59	22 56	8 31		n.a.
S 21	23 36	22 6	4 15	18 43	4 41	18 39	1 6	23 32	1 14	23 34	0 4	21 9	1 6	15 17	0 18	19 6	1 28	25 22	16 32	22 59	22 55	8 29		n.a.
M22	23 38	18 17	4 53	18 40	4 40	18 58	1 4	23 26	1 13	23 35	0 4	21 10	1 6	15 18	0 18	19 6	1 28	25 22	16 33	22 58	22 55	8 26		n.a.
T 23	23 40	13 24	5 13	18 40	4 38	19 16	1 1	23 20	1 13	23 36	0 4	21 11	1 6	15 19	0 18	19 6	1 28	25 23	16 33	22 58	22 55	8 23		n.a.
W24	23 41	7 48	5 14	18 41	4 35	19 34	0 59	23 14	1 13	23 37	0 5	21 12	1 7	15 20	0 18	19 6	1 28	25 23	16 33	22 58	22 54	8 20		n.a.
T 25	23 42	1 49	4 56	18 44	4 30	19 51	0 56	23 8	1 13	23 37	0 5	21 12	1 7	15 20	0 18	19 5	1 28	25 24	16 34	22 58	22 54	8 18		n.a.
F 26	23 43	4s14	4 20	18 49	4 23	20 8	0 54	23 2	1 13	23 38	0 5	21 13	1 7	15 21	0 18	19 5	1 28	25 24	16 34	22 58	22 54	8 15		n.a.
S 27	23 43	10 2	3 28	18 56	4 15	20 24	0 51	22 55	1 13	23 39	0 5	21 14	1 7	15 22	0 18	19 5	1 28	25 25	16 35	22 58	22 53	8 12		n.a.
S 28	23 43	15 16	2 25	19 4	4 6	20 40	0 49	22 49	1 13	23 40	0 5	21 15	1 7	15 23	0 18	19 5	1 28	25 25	16 35	22 59	22 53	8 9		n.a.
M29	23 42	19 40	1 15	19 14	3 56	20 55	0 46	22 42	1 13	23 40	0 5	21 16	1 7	15 24	0 18	19 4	1 28	25 26	16 35	22 59	22 53	8 7		n.a.
T 30	23n41	22s57	0n 1	19n25	3s45	21n10	0s44	22n35	1n12	23n41	0n 5	21s17	1s 7	15n24	0s18	19s 4	1n28	25s26	16s36	22n59	22n52	8s 4		n.a.

Julian Day Number = 1663864.5, Delta T = 03h24m15s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'35, Lahiri = - 6°07'34 Julian Calendar 1 June 158 BCE == Greg. Calendar 29 May 158 BCE

The year -157 astronomical counting style corresponds to year 158 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 158 BCE
geocentric

JULY 158 BCE (-157) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 20 24	4♋ 8'44	29♐10	17♊53	9♊ 7	25♋32	24♊40	0°R50	12♉17	0°R33	4°R 9	16°R 5	15♊ 2	21♓41	n.a.	W 1
T 2	18 24 21	5° 6'05	12♑10	18° 7	10°19	26°10	24°53	0♒46	12°20	0♐32	4♓ 8	16♊ 4	14°59	21°48	n.a.	T 2
F 3	18 28 17	6° 3'26	24°56	18°28	11°32	26°48	25° 7	0°42	12°22	0°31	4° 8	16° 2	14°56	21°55	n.a.	F 3
S 4	18 32 14	7° 0'48	7♒27	18°54	12°44	27°26	25°20	0°38	12°25	0°29	4° 7	15°59	14°52	22° 2	n.a.	S 4
S 5	18 36 10	7°58'12	19°45	19°28	13°57	28° 3	25°33	0°34	12°27	0°28	4° 7	15°55	14°49	22° 8	n.a.	S 5
M 6	18 40 7	8°55'37	1♓52	20° 7	15°10	28°41	25°46	0°30	12°29	0°27	4° 6	15°52	14°46	22°15	n.a.	M 6
T 7	18 44 4	9°53'03	13°51	20°53	16°23	29°19	26° 0	0°26	12°32	0°26	4° 6	15°49	14°43	22°22	n.a.	T 7
W 8	18 48 0	10°50'30	25°44	21°45	17°35	29°57	26°13	0°22	12°34	0°25	4° 5	15°47	14°40	22°28	n.a.	W 8
T 9	18 51 57	11°47'59	7♈38	22°43	18°48	0♎35	26°26	0°18	12°36	0°24	4° 4	15°D46	14°36	22°35	n.a.	T 9
F 10	18 55 53	12°45'29	19°35	23°47	20° 1	1°13	26°39	0°13	12°38	0°23	4° 4	15°46	14°33	22°42	n.a.	F 10
S 11	18 59 50	13°43'01	1♉41	24°56	21°14	1°51	26°52	0° 9	12°40	0°22	4° 3	15°47	14°30	22°49	n.a.	S 11
S 12	19 3 46	14°40'34	14° 0	26°12	22°27	2°29	27° 5	0° 5	12°42	0°20	4° 2	15°49	14°27	22°55	n.a.	S 12
M13	19 7 43	15°38'09	26°37	27°33	23°40	3° 7	27°18	0° 0	12°44	0°19	4° 2	15°50	14°24	23° 2	n.a.	M13
T 14	19 11 39	16°35'45	9♊35	28°58	24°53	3°46	27°31	29♑56	12°46	0°18	4° 1	15°R51	14°21	23° 9	n.a.	T 14
W15	19 15 36	17°33'23	22°55	0♋29	26° 7	4°24	27°44	29°52	12°48	0°17	4° 0	15°51	14°17	23°15	n.a.	W15
T 16	19 19 33	18°31'03	6♋39	2° 4	27°20	5° 2	27°57	29°47	12°50	0°17	3°59	15°50	14°14	23°22	n.a.	T 16
F 17	19 23 29	19°28'44	20°44	3°44	28°33	5°40	28°10	29°43	12°52	0°16	3°59	15°47	14°11	23°29	n.a.	F 17
S 18	19 27 26	20°26'26	5♌ 7	5°27	29°46	6°18	28°23	29°38	12°54	0°15	3°58	15°42	14° 8	23°36	n.a.	S 18
S 19	19 31 22	21°24'10	19°41	7°14	1♋ 0	6°56	28°36	29°34	12°56	0°14	3°57	15°37	14° 5	23°42	n.a.	S 19
M20	19 35 19	22°21'55	4♍20	9° 3	2°13	7°35	28°49	29°29	12°57	0°13	3°56	15°32	14° 2	23°49	n.a.	M20
T 21	19 39 15	23°19'41	18°56	10°55	3°26	8°13	29° 1	29°25	12°59	0°12	3°55	15°27	13°58	23°56	n.a.	T 21
W22	19 43 12	24°17'28	3♎25	12°50	4°40	8°51	29°14	29°20	13° 1	0°11	3°54	15°24	13°55	24° 3	n.a.	W22
T 23	19 47 8	25°15'17	17°42	14°46	5°53	9°30	29°27	29°16	13° 2	0°11	3°53	15°22	13°52	24° 9	n.a.	T 23
F 24	19 51 5	26°13'07	1♏45	16°43	7° 7	10° 8	29°39	29°11	13° 4	0°10	3°53	15°D22	13°49	24°16	n.a.	F 24
S 25	19 55 2	27°10'58	15°32	18°42	8°21	10°46	29°52	29° 7	13° 5	0° 9	3°52	15°23	13°46	24°23	n.a.	S 25
S 26	19 58 58	28° 8'50	29° 4	20°41	9°34	11°25	0♋ 5	29° 2	13° 7	0° 8	3°51	15°25	13°42	24°29	n.a.	S 26
M27	20 2 55	29° 6'44	12♐22	22°40	10°48	12° 3	0°17	28°58	13° 8	0° 8	3°50	15°R25	13°39	24°36	n.a.	M27
T 28	20 6 51	0♌ 4'40	25°27	24°40	12° 2	12°42	0°30	28°53	13° 9	0° 7	3°49	15°25	13°36	24°43	n.a.	T 28
W29	20 10 48	1° 2'37	8♑20	26°39	13°15	13°20	0°42	28°49	13°11	0° 7	3°48	15°23	13°33	24°50	n.a.	W29
T 30	20 14 44	2° 0'35	21° 2	28°38	14°29	13°59	0°54	28°44	13°12	0° 6	3°47	15°18	13°30	24°56	n.a.	T 30
F 31	20 18 41	2♌58'35	3♒33	0♎37	15♋43	14♎37	1♋ 7	28♑39	13♉13	0♐ 6	3♓46	15♊12	13♊27	25♓ 3	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	23n39	24s54	1s11	19n38	3s32	21n24	0s41	22n28	1n12	23n42	0n 5	21s18	1s 8	15n25	0s18	19s 4	1n28	25s26	16s36	22n59	22n52	8s 1			n.a.
T 2	23 37	25 27	2 19	19 52	3 19	21 37	0 38	22 20	1 12	23 42	0 5	21 19	1 8	15 26	0 18	19 4	1 28	25 27	16 36	22 59	22 51	7 58			n.a.
F 3	23 34	24 38	3 18	20 7	3 6	21 50	0 36	22 13	1 12	23 43	0 6	21 20	1 8	15 27	0 18	19 3	1 28	25 27	16 37	22 58	22 51	7 55			n.a.
S 4	23 32	22 34	4 6	20 24	2 52	22 2	0 33	22 5	1 12	23 43	0 6	21 21	1 8	15 27	0 18	19 3	1 28	25 28	16 37	22 58	22 51	7 53			n.a.
S 5	23 28	19 30	4 42	20 41	2 37	22 14	0 30	21 57	1 12	23 44	0 6	21 22	1 8	15 28	0 18	19 3	1 28	25 29	16 37	22 58	22 50	7 50			n.a.
M 6	23 25	15 39	5 4	20 59	2 22	22 25	0 28	21 49	1 11	23 45	0 6	21 23	1 8	15 29	0 18	19 3	1 28	25 29	16 37	22 57	22 50	7 47			n.a.
T 7	23 20	11 14	5 13	21 17	2 7	22 36	0 25	21 41	1 11	23 45	0 6	21 24	1 8	15 30	0 18	19 3	1 28	25 30	16 38	22 57	22 50	7 44			n.a.
W 8	23 16	6 26	5 9	21 36	1 52	22 45	0 22	21 33	1 11	23 46	0 6	21 25	1 9	15 30	0 18	19 2	1 28	25 30	16 38	22 57	22 49	7 41			n.a.
T 9	23 11	1 24	4 51	21 54	1 36	22 55	0 20	21 25	1 11	23 46	0 6	21 26	1 9	15 31	0 18	19 2	1 28	25 31	16 38	22 57	22 49	7 39			n.a.
F 10	23 6	3n43	4 21	22 13	1 21	23 3	0 17	21 16	1 11	23 47	0 6	21 27	1 9	15 32	0 18	19 2	1 28	25 31	16 39	22 57	22 49	7 36			n.a.
S 11	23 0	8 47	3 39	22 31	1 6	23 11	0 14	21 7	1 11	23 47	0 6	21 28	1 9	15 32	0 18	19 2	1 28	25 32	16 39	22 57	22 48	7 33			n.a.
S 12	22 54	13 35	2 46	22 48	0 51	23 18	0 12	20 58	1 10	23 47	0 6	21 29	1 9	15 33	0 18	19 2	1 28	25 32	16 39	22 57	22 48	7 30			n.a.
M13	22 47	17 57	1 43	23 5	0 37	23 25	0 9	20 49	1 10	23 48	0 7	21 30	1 9	15 33	0 18	19 1	1 28	25 33	16 40	22 57	22 47	7 27			n.a.
T 14	22 40	21 35	0 34	23 20	0 23	23 30	0 6	20 40	1 10	23 48	0 7	21 31	1 9	15 34	0 18	19 1	1 28	25 33	16 40	22 57	22 47	7 25			n.a.
W15	22 33	24 10	0n39	23 34	0 9	23 36	0 4	20 31	1 10	23 48	0 7	21 33	1 9	15 35	0 18	19 1	1 28	25 34	16 40	22 57	22 47	7 22			n.a.
T 16	22 25	25 24	1 51	23 46	0n 4	23 40	0 1	20 21	1 10	23 49	0 7	21 34	1 9	15 35	0 18	19 1	1 28	25 34	16 40	22 57	22 46	7 19			n.a.
F 17	22 17	25 2	2 59	23 56	0 16	23 44	0n 1	20 12	1 10	23 49	0 7	21 35	1 10	15 36	0 18	19 1	1 27	25 35	16 41	22 57	22 46	7 16			n.a.
S 18	22 8	23 1	3 56	24 4	0 28	23 47	0 4	20 2	1 9	23 49	0 7	21 36	1 10	15 36	0 18	19 1	1 27	25 36	16 41	22 56	22 46	7 13			n.a.
S 19	21 59	19 29	4 39	24 10	0 39	23 49	0 7	19 52	1 9	23 50	0 7	21 37	1 10	15 37	0 18	19 1	1 27	25 36	16 41	22 56	22 45	7 10			n.a.
M20	21 50	14 45	5 4	24 13	0 49	23 51	0 9	19 42	1 9	23 50	0 7	21 38	1 10	15 37	0 18	19 0	1 27	25 37	16 42	22 55	22 45	7 8			n.a.
T 21	21 40	9 10	5 10	24 14	0 59	23 52	0 12	19 32	1 9	23 50	0 7	21 39	1 10	15 38	0 18	19 0	1 27	25 37	16 42	22 55	22 44	7 5			n.a.
W22	21 30	3 8	4 55	24 12	1 7	23 52	0 14	19 21	1 9	23 50	0 8	21 40	1 10	15 38	0 18	19 0	1 27	25 38	16 42	22 54	22 44	7 2			n.a.
T 23	21 20	2s59	4 22	24 8	1 15	23 52	0 17	19 11	1 8	23 50	0 8	21 41	1 10	15 39	0 18	19 0	1 27	25 38	16 42	22 54	22 44	6 59			n.a.
F 24	21 9	8 52	3 34	24 1	1 22	23 51	0 19	19 0	1 8	23 51	0 8	21 42	1 10	15 39	0 18	19 0	1 27	25 39	16 43	22 54	22 43	6 56			n.a.
S 25	20 58	14 13	2 35	23 51	1 28	23 49	0 22	18 49	1 8	23 51	0 8	21 43	1 10	15 40	0 18	19 0	1 27	25 39	16 43	22 54	22 43	6 53			n.a.
S 26	20 46	18 46	1 27	23 38	1 33	23 46	0 24	18 38	1 8	23 51	0 8	21 44	1 10	15 40	0 18	19 0	1 27	25 40	16 43	22 54	22 42	6 51			n.a.
M27	20 34	22 16	0 17	23 23	1 37	23 43	0 27	18 27	1 8	23 51	0 8	21 45	1 11	15 41	0 18	19 0	1 27	25 41	16 43	22 54	22 42	6 48			n.a.
T 28	20 22	24 32	0s54	23 5	1 41	23 39	0 29	18 16	1 7	23 51	0 8	21 46	1 11	15 41	0 18	19 0	1 27	25 41	16 44	22 54	22 42	6 45			n.a.
W29	20 9	25 27	2 0	22 46	1 44	23 34	0 31	18 5	1 7	23 51	0 8	21 47	1 11	15 41	0 18	19 0	1 27	25 42	16 44	22 54	22 41	6 42			n.a.
T 30	19 56	25 1	3 0	22 23	1 45	23 29	0 34	17 53	1 7	23 51	0 8	21 48	1 11	15 42	0 18	18 59	1 27	25 42	16 44	22 54	22 41	6 39			n.a.
F 31	19n43	23s18	3s50	21n59	1n47	23n22	0n36	17n42	1n 7	23n51	0n 9	21s49	1s11	15n42	0s18	18s59	1n27	25s43	16s44	22n53	22n41	6s36			n.a.

Julian Day Number = 1663894.5, Delta T = 03h24m14s
Ecliptic obliquity = 23°42'53, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'30, Lahiri = - 6°07'30 Julian Calendar 1 July 158 BCE == Greg. Calendar 28 June 158 BCE

The year -157 astronomical counting style corresponds to year 158 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 158 BCE
geocentric

AUGUST 158 BCE (-157) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 22 37	3♌56'37	15♒53	2♌35	16♋57	15♌16	1♋19	28°R35	13♉14	0°R 5	3°R45	15°R 3	13♊23	25♓10	n.a.	S 1
S 2	20 26 34	4°54'41	28° 4	4°32	18°11	15°54	1°31	28♏30	13°15	0♐ 5	3♓44	14♊54	13°20	25°16	n.a.	S 2
M 3	20 30 31	5°52'46	10♓ 6	6°28	19°25	16°33	1°43	28°26	13°16	0° 4	3°43	14°45	13°17	25°23	n.a.	M 3
T 4	20 34 27	6°50'54	22° 2	8°23	20°39	17°12	1°55	28°21	13°18	0° 4	3°42	14°36	13°14	25°30	n.a.	T 4
W 5	20 38 24	7°49'03	3♈54	10°17	21°53	17°50	2° 7	28°17	13°18	0° 3	3°41	14°29	13°11	25°37	n.a.	W 5
T 6	20 42 20	8°47'15	15°45	12°10	23° 7	18°29	2°19	28°13	13°19	0° 3	3°40	14°24	13° 8	25°43	n.a.	T 6
F 7	20 46 17	9°45'28	27°40	14° 2	24°21	19° 8	2°31	28° 8	13°20	0° 3	3°39	14°21	13° 4	25°50	n.a.	F 7
S 8	20 50 13	10°43'44	9♉43	15°53	25°35	19°47	2°43	28° 4	13°21	0° 2	3°38	14°D20	13° 1	25°57	n.a.	S 8
S 9	20 54 10	11°42'02	21°59	17°42	26°49	20°25	2°55	27°59	13°22	0° 2	3°37	14°21	12°58	26° 4	n.a.	S 9
M10	20 58 6	12°40'22	4♊34	19°31	28° 3	21° 4	3° 6	27°55	13°23	0° 2	3°35	14°22	12°55	26°10	n.a.	M10
T 11	21 2 3	13°38'44	17°31	21°18	29°18	21°43	3°18	27°51	13°23	0° 2	3°34	14°R22	12°52	26°17	n.a.	T 11
W12	21 6 0	14°37'09	0♋55	23° 4	0♌32	22°22	3°30	27°46	13°24	0° 2	3°33	14°21	12°48	26°24	n.a.	W12
T 13	21 9 56	15°35'36	14°47	24°49	1°46	23° 1	3°41	27°42	13°24	0° 1	3°32	14°17	12°45	26°30	n.a.	T 13
F 14	21 13 53	16°34'04	29° 6	26°33	3° 1	23°40	3°53	27°38	13°25	0° 1	3°31	14°11	12°42	26°37	n.a.	F 14
S 15	21 17 49	17°32'35	13♌47	28°16	4°15	24°19	4° 4	27°34	13°25	0° 1	3°30	14° 3	12°39	26°44	n.a.	S 15
S 16	21 21 46	18°31'08	28°45	29°58	5°30	24°58	4°15	27°30	13°26	0°D 1	3°29	13°54	12°36	26°51	n.a.	S 16
M17	21 25 42	19°29'43	13♍48	1♍38	6°44	25°37	4°27	27°26	13°26	0° 1	3°28	13°44	12°33	26°57	n.a.	M17
T 18	21 29 39	20°28'20	28°49	3°18	7°59	26°16	4°38	27°22	13°26	0° 1	3°26	13°35	12°29	27° 4	n.a.	T 18
W19	21 33 35	21°26'58	13♎37	4°57	9°13	26°55	4°49	27°18	13°27	0° 1	3°25	13°28	12°26	27°11	n.a.	W19
T 20	21 37 32	22°25'38	28° 7	6°34	10°28	27°34	5° 0	27°14	13°27	0° 2	3°24	13°23	12°23	27°17	n.a.	T 20
F 21	21 41 28	23°24'20	12♏14	8°11	11°42	28°13	5°11	27°10	13°27	0° 2	3°23	13°21	12°20	27°24	n.a.	F 21
S 22	21 45 25	24°23'04	25°59	9°46	12°57	28°53	5°21	27° 6	13°27	0° 2	3°22	13°D21	12°17	27°31	n.a.	S 22
S 23	21 49 22	25°21'49	9♐23	11°20	14°12	29°32	5°32	27° 2	13°R27	0° 2	3°20	13°R21	12°14	27°38	n.a.	S 23
M24	21 53 18	26°20'37	22°27	12°54	15°26	0♍11	5°43	26°59	13°27	0° 2	3°19	13°21	12°10	27°44	n.a.	M24
T 25	21 57 15	27°19'26	5♑16	14°26	16°41	0°50	5°53	26°55	13°27	0° 3	3°18	13°19	12° 7	27°51	n.a.	T 25
W26	22 1 11	28°18'17	17°52	15°58	17°56	1°30	6° 4	26°52	13°27	0° 3	3°17	13°15	12° 4	27°58	n.a.	W26
T 27	22 5 8	29°17'10	0♒17	17°29	19°11	2° 9	6°14	26°48	13°27	0° 3	3°16	13° 7	12° 1	28° 4	n.a.	T 27
F 28	22 9 4	0♍16'05	12°33	18°58	20°25	2°49	6°24	26°45	13°27	0° 4	3°15	12°57	11°58	28°11	n.a.	F 28
S 29	22 13 1	1°15'02	24°42	20°27	21°40	3°28	6°34	26°41	13°26	0° 4	3°13	12°45	11°54	28°18	n.a.	S 29
S 30	22 16 57	2°14'01	6♓45	21°54	22°55	4° 7	6°44	26°38	13°26	0° 4	3°12	12°31	11°51	28°25	n.a.	S 30
M31	22 20 54	3♍13'03	18♓42	23♍21	24♌10	4♍47	6♋54	26♏35	13♉26	0♐ 5	3♓11	12♊17	11♊48	28♓31	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	19n29	20s30	4s28	21n33	1n47	23n16	0n38	17n30	1n 6	23n51	0n 9	21s50	1s11	15n42	0s18	18s59	1n27	25s43	16s44	22n52	22n40	6s33		n.a.
S 2	19 15	16 51	4 53	21 5	1 47	23 8	0 40	17 18	1 6	23 51	0 9	21 51	1 11	15 43	0 18	18 59	1 27	25 44	16 45	22 51	22 40	6 31		n.a.
M 3	19 1	12 33	5 5	20 35	1 47	23 0	0 43	17 6	1 6	23 51	0 9	21 52	1 11	15 43	0 18	18 59	1 27	25 45	16 45	22 50	22 39	6 28		n.a.
T 4	18 46	7 50	5 3	20 4	1 45	22 51	0 45	16 54	1 6	23 51	0 9	21 53	1 11	15 43	0 18	18 59	1 27	25 45	16 45	22 49	22 39	6 25		n.a.
W 5	18 31	2 50	4 49	19 32	1 43	22 41	0 47	16 42	1 5	23 51	0 9	21 54	1 11	15 44	0 18	18 59	1 26	25 46	16 45	22 48	22 39	6 22		n.a.
T 6	18 16	2n15	4 22	18 58	1 41	22 31	0 49	16 30	1 5	23 51	0 9	21 55	1 11	15 44	0 18	18 59	1 26	25 46	16 45	22 47	22 38	6 19		n.a.
F 7	18 1	7 18	3 43	18 22	1 38	22 20	0 51	16 17	1 5	23 51	0 9	21 56	1 11	15 44	0 18	18 59	1 26	25 47	16 45	22 47	22 38	6 16		n.a.
S 8	17 45	12 8	2 54	17 46	1 35	22 8	0 53	16 5	1 5	23 51	0 10	21 57	1 11	15 44	0 18	18 59	1 26	25 47	16 46	22 47	22 37	6 13		n.a.
S 9	17 28	16 36	1 57	17 9	1 31	21 56	0 55	15 52	1 4	23 51	0 10	21 58	1 11	15 45	0 18	18 59	1 26	25 48	16 46	22 47	22 37	6 10		n.a.
M10	17 12	20 27	0 52	16 31	1 27	21 43	0 57	15 39	1 4	23 50	0 10	21 59	1 12	15 45	0 18	18 59	1 26	25 49	16 46	22 47	22 37	6 7		n.a.
T 11	16 55	23 24	0n17	15 52	1 23	21 29	0 58	15 26	1 4	23 50	0 10	22 0	1 12	15 45	0 18	18 59	1 26	25 49	16 46	22 47	22 36	6 5		n.a.
W12	16 38	25 10	1 27	15 13	1 18	21 15	1 0	15 13	1 4	23 50	0 10	22 1	1 12	15 45	0 18	18 59	1 26	25 50	16 46	22 47	22 36	6 2		n.a.
T 13	16 21	25 27	2 35	14 33	1 13	21 0	1 2	15 0	1 3	23 50	0 10	22 2	1 12	15 45	0 18	18 59	1 26	25 50	16 46	22 47	22 35	5 59		n.a.
F 14	16 3	24 4	3 35	13 52	1 8	20 44	1 4	14 47	1 3	23 50	0 10	22 3	1 12	15 46	0 18	18 59	1 26	25 51	16 46	22 46	22 35	5 56		n.a.
S 15	15 45	21 3	4 22	13 11	1 2	20 28	1 5	14 33	1 3	23 49	0 10	22 4	1 12	15 46	0 18	18 59	1 26	25 51	16 47	22 45	22 34	5 53		n.a.
S 16	15 27	16 36	4 52	12 30	0 57	20 11	1 7	14 20	1 3	23 49	0 11	22 4	1 12	15 46	0 18	18 59	1 26	25 52	16 47	22 44	22 34	5 50		n.a.
M17	15 9	11 5	5 3	11 48	0 50	19 54	1 8	14 6	1 2	23 49	0 11	22 5	1 12	15 46	0 18	18 59	1 26	25 52	16 47	22 43	22 34	5 47		n.a.
T 18	14 50	4 56	4 52	11 6	0 44	19 36	1 10	13 53	1 2	23 49	0 11	22 6	1 12	15 46	0 18	19 0	1 26	25 53	16 47	22 42	22 33	5 44		n.a.
W19	14 31	1s25	4 22	10 24	0 38	19 18	1 11	13 39	1 2	23 48	0 11	22 7	1 12	15 46	0 18	19 0	1 26	25 53	16 47	22 41	22 33	5 41		n.a.
T 20	14 12	7 34	3 36	9 41	0 31	18 59	1 12	13 25	1 2	23 48	0 11	22 8	1 12	15 46	0 18	19 0	1 26	25 54	16 47	22 40	22 32	5 39		n.a.
F 21	13 52	13 12	2 37	8 58	0 24	18 39	1 14	13 11	1 1	23 48	0 11	22 9	1 12	15 46	0 18	19 0	1 26	25 55	16 47	22 40	22 32	5 36		n.a.
S 22	13 33	18 0	1 31	8 16	0 17	18 19	1 15	12 57	1 1	23 48	0 11	22 9	1 12	15 46	0 18	19 0	1 26	25 55	16 47	22 40	22 32	5 33		n.a.
S 23	13 13	21 46	0 21	7 33	0 10	17 58	1 16	12 43	1 1	23 47	0 11	22 10	1 12	15 46	0 18	19 0	1 25	25 56	16 47	22 40	22 31	5 30		n.a.
M24	12 53	24 18	0s48	6 51	0 3	17 37	1 17	12 29	1 0	23 47	0 12	22 11	1 12	15 46	0 18	19 0	1 25	25 56	16 47	22 40	22 31	5 27		n.a.
T 25	12 32	25 30	1 53	6 8	0s 4	17 15	1 18	12 14	1 0	23 47	0 12	22 12	1 12	15 46	0 18	19 0	1 25	25 57	16 47	22 40	22 30	5 24		n.a.
W26	12 12	25 21	2 52	5 25	0 11	16 53	1 19	12 0	1 0	23 46	0 12	22 12	1 12	15 46	0 18	19 0	1 25	25 57	16 47	22 39	22 30	5 21		n.a.
T 27	11 51	23 55	3 41	4 43	0 19	16 30	1 20	11 45	1 0	23 46	0 12	22 13	1 12	15 46	0 18	19 0	1 25	25 58	16 48	22 38	22 29	5 18		n.a.
F 28	11 30	21 22	4 19	4 1	0 26	16 7	1 21	11 31	0 59	23 46	0 12	22 14	1 12	15 46	0 18	19 1	1 25	25 58	16 48	22 37	22 29	5 15		n.a.
S 29	11 9	17 54	4 45	3 19	0 34	15 44	1 21	11 16	0 59	23 45	0 12	22 14	1 12	15 46	0 18	19 1	1 25	25 59	16 48	22 35	22 29	5 12		n.a.
S 30	10 48	13 44	4 58	2 37	0 41	15 20	1 22	11 1	0 59	23 45	0 12	22 15	1 12	15 46	0 18	19 1	1 25	25 59	16 48	22 33	22 28	5 9		n.a.
M31	10n26	9s 5	4s58	1n56	0s49	14n55	1n23	10n46	0n58	23n44	0n12	22s16	1s12	15n46	0s18	19s 1	1n25	25s59	16s48	22n32	22n28	5s 6		n.a.

Julian Day Number = 1663925.5, Delta T = 03h24m13s
Ecliptic obliquity = 23°42'54, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'26, Lahiri = - 6°07'26 Julian Calendar 1 Aug. 158 BCE == Greg. Calendar 29 July 158 BCE

The year -157 astronomical counting style corresponds to year 158 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 158 BCE
geocentric

SEPTEMBER 158 BCE (-157) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 24 51	4♍12'06	0♈35	24♍47	25♌25	5♍26	7♋ 4	26°R32	13°R25	0♐ 5	3°R10	12°R 4	11♊45	28♓38	n.a.	T 1
W 2	22 28 47	5°11'11	12°25	26°11	26°40	6° 6	7°14	26♉29	13♉25	0° 6	3♓ 9	11♊53	11°42	28°45	n.a.	W 2
T 3	22 32 44	6°10'19	24°16	27°35	27°55	6°46	7°24	26°26	13°24	0° 7	3° 7	11°44	11°39	28°52	n.a.	T 3
F 4	22 36 40	7° 9'29	6♉10	28°57	29°10	7°25	7°33	26°23	13°24	0° 7	3° 6	11°38	11°35	28°58	n.a.	F 4
S 5	22 40 37	8° 8'42	18°12	0♎19	0♍25	8° 5	7°43	26°20	13°23	0° 8	3° 5	11°35	11°32	29° 5	n.a.	S 5
S 6	22 44 33	9° 7'57	0♊25	1°39	1°40	8°45	7°52	26°17	13°22	0° 8	3° 4	11°34	11°29	29°12	n.a.	S 6
M 7	22 48 30	10° 7'15	12°55	2°58	2°55	9°24	8° 1	26°15	13°22	0° 9	3° 3	11°34	11°26	29°18	n.a.	M 7
T 8	22 52 26	11° 6'35	25°47	4°16	4°10	10° 4	8°10	26°12	13°21	0°10	3° 1	11°33	11°23	29°25	n.a.	T 8
W 9	22 56 23	12° 5'57	9♋ 6	5°32	5°25	10°44	8°19	26° 9	13°20	0°11	3° 0	11°32	11°20	29°32	n.a.	W 9
T 10	23 0 20	13° 5'22	22°54	6°47	6°40	11°24	8°28	26° 7	13°19	0°11	2°59	11°28	11°16	29°39	n.a.	T 10
F 11	23 4 16	14° 4'49	7♌12	8° 1	7°55	12° 4	8°37	26° 5	13°18	0°12	2°58	11°21	11°13	29°45	n.a.	F 11
S 12	23 8 13	15° 4'19	21°57	9°13	9°10	12°44	8°46	26° 3	13°17	0°13	2°57	11°12	11°10	29°52	n.a.	S 12
S 13	23 12 9	16° 3'50	7♍ 4	10°23	10°26	13°24	8°54	26° 0	13°16	0°14	2°56	11° 1	11° 7	29°59	n.a.	S 13
M14	23 16 6	17° 3'24	22°22	11°31	11°41	14° 4	9° 3	25°58	13°15	0°15	2°54	10°49	11° 4	0♈ 5	n.a.	M14
T 15	23 20 2	18° 3'00	7♎39	12°37	12°56	14°44	9°11	25°57	13°14	0°16	2°53	10°39	11° 0	0°12	n.a.	T 15
W16	23 23 59	19° 2'38	22°45	13°41	14°11	15°24	9°19	25°55	13°13	0°17	2°52	10°30	10°57	0°19	n.a.	W16
T 17	23 27 55	20° 2'18	7♏31	14°43	15°26	16° 4	9°27	25°53	13°12	0°18	2°51	10°25	10°54	0°26	n.a.	T 17
F 18	23 31 52	21° 2'00	21°52	15°42	16°42	16°44	9°35	25°51	13°11	0°19	2°50	10°21	10°51	0°32	n.a.	F 18
S 19	23 35 48	22° 1'43	5♐44	16°38	17°57	17°24	9°43	25°50	13° 9	0°20	2°49	10°D20	10°48	0°39	n.a.	S 19
S 20	23 39 45	23° 1'29	19°11	17°30	19°12	18° 4	9°50	25°48	13° 8	0°21	2°48	10°R20	10°45	0°46	n.a.	S 20
M21	23 43 42	24° 1'16	2♑13	18°19	20°28	18°44	9°58	25°47	13° 7	0°22	2°46	10°20	10°41	0°52	n.a.	M21
T 22	23 47 38	25° 1'05	14°56	19° 5	21°43	19°25	10° 5	25°46	13° 5	0°24	2°45	10°19	10°38	0°59	n.a.	T 22
W23	23 51 35	26° 0'56	27°22	19°46	22°58	20° 5	10°12	25°45	13° 4	0°25	2°44	10°15	10°35	1° 6	n.a.	W23
T 24	23 55 31	27° 0'49	9♒37	20°22	24°14	20°45	10°19	25°43	13° 2	0°26	2°43	10° 8	10°32	1°13	n.a.	T 24
F 25	23 59 28	28° 0'43	21°43	20°52	25°29	21°26	10°26	25°43	13° 1	0°27	2°42	9°58	10°29	1°19	n.a.	F 25
S 26	0 3 24	29° 0'39	3♓43	21°17	26°44	22° 6	10°33	25°42	12°59	0°28	2°41	9°47	10°25	1°26	n.a.	S 26
S 27	0 7 21	0♎ 0'37	15°39	21°36	28° 0	22°47	10°39	25°41	12°57	0°30	2°40	9°34	10°22	1°33	n.a.	S 27
M28	0 11 17	1° 0'37	27°32	21°47	29°15	23°27	10°46	25°40	12°56	0°31	2°39	9°20	10°19	1°39	n.a.	M28
T 29	0 15 14	2° 0'39	9♈24	21°R51	0♎30	24° 8	10°52	25°40	12°54	0°32	2°38	9° 8	10°16	1°46	n.a.	T 29
W30	0 19 11	3♎ 0'43	21♈16	21♎47	1♎46	24♍48	10♋58	25♑39	12♉52	0♐34	2♓37	8♊57	10♊13	1♈53	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	10n 5	4s 6	4s44	1n14	0s56	14n30	1n23	10n31	0n58	23n44	0n13	22s16	1s12	15n46	0s18	19s 1	1n25	26s 0	16s48	22n30	22n27	5s 3		n.a.
W 2	9 43	1n 0	4 19	0 34	1 4	14 5	1 24	10 16	0 58	23 44	0 13	22 17	1 12	15 45	0 18	19 1	1 25	26 0	16 48	22 28	22 27	5 0		n.a.
T 3	9 21	6 5	3 42	0s 7	1 11	13 39	1 24	10 1	0 57	23 43	0 13	22 17	1 12	15 45	0 18	19 2	1 25	26 1	16 48	22 27	22 26	4 58		n.a.
F 4	8 59	10 59	2 55	0 47	1 19	13 13	1 25	9 46	0 57	23 43	0 13	22 18	1 12	15 45	0 18	19 2	1 25	26 1	16 48	22 26	22 26	4 55		n.a.
S 5	8 37	15 31	2 0	1 26	1 26	12 47	1 25	9 31	0 57	23 42	0 13	22 18	1 12	15 45	0 18	19 2	1 25	26 2	16 48	22 26	22 26	4 52		n.a.
S 6	8 14	19 31	0 59	2 5	1 33	12 20	1 25	9 15	0 56	23 42	0 13	22 19	1 12	15 45	0 18	19 2	1 25	26 2	16 48	22 26	22 25	4 49		n.a.
M 7	7 52	22 44	0n 7	2 44	1 41	11 53	1 25	9 0	0 56	23 42	0 13	22 19	1 12	15 44	0 18	19 2	1 25	26 3	16 48	22 26	22 25	4 46		n.a.
T 8	7 29	24 53	1 14	3 22	1 48	11 25	1 26	8 44	0 56	23 41	0 14	22 20	1 12	15 44	0 18	19 2	1 25	26 3	16 47	22 26	22 24	4 43		n.a.
W 9	7 6	25 44	2 20	3 59	1 55	10 57	1 26	8 29	0 55	23 41	0 14	22 20	1 12	15 44	0 18	19 3	1 25	26 3	16 47	22 25	22 24	4 40		n.a.
T 10	6 43	25 2	3 20	4 35	2 2	10 29	1 26	8 13	0 55	23 40	0 14	22 21	1 12	15 44	0 18	19 3	1 24	26 4	16 47	22 25	22 23	4 37		n.a.
F 11	6 20	22 42	4 9	5 11	2 8	10 1	1 25	7 57	0 55	23 40	0 14	22 21	1 12	15 43	0 18	19 3	1 24	26 4	16 47	22 24	22 23	4 34		n.a.
S 12	5 57	18 49	4 44	5 45	2 15	9 32	1 25	7 42	0 54	23 39	0 14	22 22	1 12	15 43	0 18	19 3	1 24	26 5	16 47	22 23	22 22	4 31		n.a.
S 13	5 34	13 38	4 59	6 19	2 21	9 3	1 25	7 26	0 54	23 39	0 14	22 22	1 12	15 43	0 18	19 4	1 24	26 5	16 47	22 21	22 22	4 28		n.a.
M14	5 10	7 33	4 54	6 52	2 27	8 34	1 25	7 10	0 54	23 39	0 15	22 22	1 12	15 43	0 18	19 4	1 24	26 5	16 47	22 20	22 22	4 25		n.a.
T 15	4 47	1 1	4 28	7 23	2 33	8 5	1 24	6 54	0 53	23 38	0 15	22 23	1 12	15 42	0 18	19 4	1 24	26 6	16 47	22 18	22 21	4 22		n.a.
W16	4 23	5s30	3 43	7 54	2 39	7 35	1 24	6 38	0 53	23 38	0 15	22 23	1 12	15 42	0 18	19 4	1 24	26 6	16 47	22 17	22 21	4 19		n.a.
T 17	3 59	11 36	2 44	8 23	2 44	7 5	1 24	6 22	0 53	23 37	0 15	22 23	1 12	15 41	0 18	19 5	1 24	26 6	16 47	22 16	22 20	4 16		n.a.
F 18	3 36	16 54	1 36	8 50	2 49	6 35	1 23	6 6	0 52	23 37	0 15	22 24	1 12	15 41	0 18	19 5	1 24	26 7	16 47	22 16	22 20	4 13		n.a.
S 19	3 12	21 7	0 24	9 16	2 53	6 5	1 22	5 50	0 52	23 37	0 15	22 24	1 12	15 41	0 18	19 5	1 24	26 7	16 47	22 15	22 19	4 10		n.a.
S 20	2 48	24 3	0s47	9 40	2 57	5 34	1 22	5 33	0 51	23 36	0 15	22 24	1 12	15 40	0 18	19 5	1 24	26 7	16 46	22 15	22 19	4 7		n.a.
M21	2 24	25 35	1 53	10 3	3 1	5 4	1 21	5 17	0 51	23 36	0 16	22 24	1 12	15 40	0 18	19 6	1 24	26 8	16 46	22 15	22 18	4 4		n.a.
T 22	2 0	25 43	2 52	10 23	3 4	4 33	1 20	5 1	0 51	23 35	0 16	22 25	1 12	15 39	0 18	19 6	1 24	26 8	16 46	22 15	22 18	4 1		n.a.
W23	1 36	24 33	3 42	10 41	3 6	4 2	1 19	4 45	0 50	23 35	0 16	22 25	1 12	15 39	0 18	19 6	1 24	26 8	16 46	22 15	22 17	3 58		n.a.
T 24	1 12	22 13	4 20	10 56	3 8	3 31	1 19	4 28	0 50	23 35	0 16	22 25	1 12	15 38	0 18	19 7	1 24	26 9	16 46	22 14	22 17	3 55		n.a.
F 25	0 48	18 56	4 46	11 8	3 8	3 0	1 18	4 12	0 50	23 34	0 16	22 25	1 12	15 38	0 18	19 7	1 24	26 9	16 46	22 12	22 17	3 52		n.a.
S 26	0 24	14 54	4 59	11 18	3 8	2 29	1 17	3 55	0 49	23 34	0 16	22 25	1 12	15 38	0 18	19 7	1 24	26 9	16 46	22 10	22 16	3 49		n.a.
S 27	0s 0	10 19	4 59	11 23	3 7	1 57	1 15	3 39	0 49	23 33	0 17	22 25	1 12	15 37	0 18	19 8	1 24	26 9	16 45	22 8	22 16	3 46		n.a.
M28	0 24	5 22	4 46	11 26	3 4	1 26	1 14	3 22	0 48	23 33	0 17	22 25	1 12	15 36	0 18	19 8	1 24	26 10	16 45	22 6	22 15	3 43		n.a.
T 29	0 49	0 14	4 21	11 24	3 1	0 55	1 13	3 5	0 48	23 33	0 17	22 25	1 11	15 36	0 18	19 8	1 24	26 10	16 45	22 4	22 15	3 40		n.a.
W30	1s13	4n56	3s44	11s17	2s55	0n23	1n12	2n49	0n48	23n32	0n17	22s26	1s11	15n35	0s18	19s 9	1n23	26s10	16s45	22n 3	22n14	3s37		n.a.

Julian Day Number = 1663956.5, Delta T = 03h24m12s
Ecliptic obliquity = 23°42'55, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'22, Lahiri = - 6°07'22 Julian Calendar 1 Sept. 158 BCE == Greg. Calendar 29 Aug. 158 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 158 BCE
geocentric

OCTOBER 158 BCE (-157) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 23 7	4♎ 0'49	3♉10	21°R34	3♎ 1	25♍29	11♋ 4	25°R39	12°R51	0♐35	2°R36	8°R48	10♊10	2♈ 0	n.a.	T 1
F 2	0 27 4	5° 0'57	15° 8	21♎11	4°17	26°10	11°10	25♑39	12♉49	0°37	2♓35	8♊43	10° 6	2° 6	n.a.	F 2
S 3	0 31 0	6° 1'08	27°13	20°40	5°32	26°50	11°16	25°39	12°47	0°38	2°34	8°40	10° 3	2°13	n.a.	S 3
S 4	0 34 57	7° 1'20	9♊28	19°59	6°47	27°31	11°21	25°D39	12°45	0°40	2°33	8°D39	10° 0	2°20	n.a.	S 4
M 5	0 38 53	8° 1'35	21°58	19° 8	8° 3	28°12	11°27	25°39	12°43	0°41	2°32	8°40	9°57	2°26	n.a.	M 5
T 6	0 42 50	9° 1'51	4♋47	18° 9	9°18	28°53	11°32	25°39	12°41	0°43	2°31	8°R41	9°54	2°33	n.a.	T 6
W 7	0 46 46	10° 2'10	17°58	17° 2	10°34	29°33	11°37	25°39	12°39	0°44	2°30	8°40	9°51	2°40	n.a.	W 7
T 8	0 50 43	11° 2'31	1♌37	15°49	11°49	0♎14	11°42	25°40	12°37	0°46	2°29	8°38	9°47	2°47	n.a.	T 8
F 9	0 54 40	12° 2'54	15°43	14°32	13° 5	0°55	11°46	25°40	12°35	0°48	2°28	8°34	9°44	2°53	n.a.	F 9
S 10	0 58 36	13° 3'20	0♍18	13°12	14°20	1°36	11°51	25°41	12°33	0°49	2°28	8°28	9°41	3° 0	n.a.	S 10
S 11	1 2 33	14° 3'47	15°15	11°53	15°35	2°17	11°55	25°41	12°31	0°51	2°27	8°20	9°38	3° 7	n.a.	S 11
M12	1 6 29	15° 4'16	0♎28	10°38	16°51	2°58	11°59	25°42	12°29	0°53	2°26	8°11	9°35	3°13	n.a.	M12
T 13	1 10 26	16° 4'46	15°46	9°27	18° 6	3°39	12° 3	25°43	12°26	0°54	2°25	8° 3	9°31	3°20	n.a.	T 13
W14	1 14 22	17° 5'19	0♏58	8°25	19°22	4°20	12° 7	25°44	12°24	0°56	2°24	7°57	9°28	3°27	n.a.	W14
T 15	1 18 19	18° 5'53	15°54	7°31	20°37	5° 2	12°11	25°45	12°22	0°58	2°23	7°52	9°25	3°34	n.a.	T 15
F 16	1 22 15	19° 6'28	0♐26	6°49	21°53	5°43	12°14	25°46	12°20	1° 0	2°23	7°50	9°22	3°40	n.a.	F 16
S 17	1 26 12	20° 7'06	14°30	6°18	23° 8	6°24	12°18	25°48	12°17	1° 1	2°22	7°D50	9°19	3°47	n.a.	S 17
S 18	1 30 8	21° 7'44	28° 6	5°58	24°24	7° 5	12°21	25°49	12°15	1° 3	2°21	7°51	9°16	3°54	n.a.	S 18
M19	1 34 5	22° 8'24	11♑15	5°D50	25°39	7°47	12°23	25°51	12°13	1° 5	2°20	7°53	9°12	4° 0	n.a.	M19
T 20	1 38 2	23° 9'05	24° 0	5°54	26°55	8°28	12°26	25°52	12°10	1° 7	2°20	7°R53	9° 9	4° 7	n.a.	T 20
W21	1 41 58	24° 9'47	6♒27	6° 7	28°10	9° 9	12°29	25°54	12° 8	1° 9	2°19	7°52	9° 6	4°14	n.a.	W21
T 22	1 45 55	25°10'31	18°38	6°31	29°26	9°51	12°31	25°56	12° 6	1°11	2°18	7°49	9° 3	4°20	n.a.	T 22
F 23	1 49 51	26°11'15	0♓40	7° 4	0♏41	10°32	12°33	25°58	12° 3	1°13	2°18	7°45	9° 0	4°27	n.a.	F 23
S 24	1 53 48	27°12'01	12°35	7°44	1°57	11°14	12°35	26° 0	12° 1	1°15	2°17	7°38	8°57	4°34	n.a.	S 24
S 25	1 57 44	28°12'48	24°27	8°32	3°12	11°55	12°37	26° 2	11°58	1°17	2°17	7°31	8°53	4°41	n.a.	S 25
M26	2 1 41	29°13'36	6♈19	9°25	4°28	12°37	12°38	26° 5	11°56	1°19	2°16	7°23	8°50	4°47	n.a.	M26
T 27	2 5 37	0♏14'25	18°12	10°25	5°43	13°18	12°40	26° 7	11°54	1°21	2°15	7°16	8°47	4°54	n.a.	T 27
W28	2 9 34	1°15'16	0♉ 8	11°29	6°58	14° 0	12°41	26° 9	11°51	1°23	2°15	7°10	8°44	5° 1	n.a.	W28
T 29	2 13 31	2°16'08	12°10	12°37	8°14	14°42	12°42	26°12	11°49	1°25	2°14	7° 5	8°41	5° 7	n.a.	T 29
F 30	2 17 27	3°17'01	24°18	13°49	9°29	15°24	12°43	26°15	11°46	1°27	2°14	7° 3	8°37	5°14	n.a.	F 30
S 31	2 21 24	4♏17'56	6♊34	15♎ 4	10♏45	16♎ 5	12♋43	26♑17	11♉44	1♐29	2♓13	7°D 2	8♊34	5♈21	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	1s37	9n56	2s57	11s 6	2s49	0s 8	1n11	2n32	0n47	23n32	0n17	22s26	1s11	15n35	0s18	19s 9	1n23	26s10	16s45	22n 1	22n14	3s34			n.a.
F 2	2 1	14 37	2 2	10 50	2 41	0 40	1 9	2 16	0 47	23 32	0 17	22 26	1 11	15 34	0 18	19 9	1 23	26 10	16 45	22 1	22 13	3 31			n.a.
S 3	2 25	18 47	1 1	10 29	2 31	1 11	1 8	1 59	0 46	23 31	0 18	22 26	1 11	15 34	0 18	19 10	1 23	26 11	16 44	22 0	22 13	3 28			n.a.
S 4	2 49	22 12	0n 4	10 2	2 19	1 43	1 6	1 42	0 46	23 31	0 18	22 26	1 11	15 33	0 18	19 10	1 23	26 11	16 44	22 0	22 12	3 25			n.a.
M 5	3 13	24 39	1 11	9 30	2 5	2 14	1 5	1 25	0 46	23 31	0 18	22 25	1 11	15 33	0 18	19 10	1 23	26 11	16 44	22 0	22 12	3 22			n.a.
T 6	3 37	25 53	2 15	8 53	1 50	2 46	1 3	1 8	0 45	23 31	0 18	22 25	1 11	15 32	0 18	19 11	1 23	26 11	16 44	22 0	22 11	3 19			n.a.
W 7	4 1	25 42	3 14	8 12	1 33	3 17	1 2	0 52	0 45	23 30	0 18	22 25	1 11	15 31	0 18	19 11	1 23	26 11	16 44	22 0	22 11	3 16			n.a.
T 8	4 25	24 0	4 5	7 26	1 14	3 48	1 0	0 35	0 44	23 30	0 18	22 25	1 11	15 31	0 18	19 12	1 23	26 11	16 43	22 0	22 10	3 13			n.a.
F 9	4 49	20 47	4 42	6 38	0 55	4 20	0 58	0 18	0 44	23 30	0 19	22 25	1 11	15 30	0 18	19 12	1 23	26 12	16 43	21 59	22 10	3 10			n.a.
S 10	5 13	16 12	5 3	5 48	0 34	4 51	0 57	0 1	0 43	23 30	0 19	22 25	1 11	15 29	0 18	19 12	1 23	26 12	16 43	21 58	22 10	3 7			n.a.
S 11	5 36	10 32	5 3	4 58	0 14	5 22	0 55	0s16	0 43	23 29	0 19	22 25	1 11	15 29	0 18	19 13	1 23	26 12	16 43	21 57	22 9	3 4			n.a.
M12	6 0	4 8	4 43	4 9	0n 7	5 53	0 53	0 33	0 43	23 29	0 19	22 25	1 11	15 28	0 18	19 13	1 23	26 12	16 42	21 56	22 9	3 1			n.a.
T 13	6 24	2s33	4 2	3 23	0 27	6 24	0 51	0 50	0 42	23 29	0 19	22 24	1 11	15 27	0 18	19 13	1 23	26 12	16 42	21 54	22 8	2 58			n.a.
W14	6 47	9 3	3 5	2 40	0 46	6 54	0 49	1 6	0 42	23 29	0 20	22 24	1 11	15 27	0 18	19 14	1 23	26 12	16 42	21 53	22 8	2 55			n.a.
T 15	7 11	14 57	1 55	2 3	1 3	7 25	0 47	1 23	0 41	23 29	0 20	22 24	1 11	15 26	0 18	19 14	1 23	26 12	16 42	21 52	22 7	2 52			n.a.
F 16	7 34	19 50	0 40	1 31	1 19	7 55	0 45	1 40	0 41	23 28	0 20	22 24	1 11	15 25	0 18	19 15	1 23	26 12	16 41	21 52	22 7	2 49			n.a.
S 17	7 57	23 24	0s36	1 6	1 34	8 26	0 43	1 57	0 40	23 28	0 20	22 23	1 11	15 25	0 18	19 15	1 23	26 12	16 41	21 52	22 6	2 46			n.a.
S 18	8 20	25 29	1 47	0 47	1 46	8 56	0 41	2 14	0 40	23 28	0 20	22 23	1 11	15 24	0 18	19 16	1 23	26 12	16 41	21 52	22 6	2 43			n.a.
M19	8 43	26 4	2 50	0 34	1 56	9 25	0 39	2 31	0 39	23 28	0 20	22 23	1 11	15 23	0 18	19 16	1 23	26 12	16 41	21 53	22 5	2 40			n.a.
T 20	9 6	25 13	3 43	0 27	2 5	9 55	0 37	2 48	0 39	23 28	0 21	22 22	1 11	15 23	0 18	19 16	1 23	26 12	16 40	21 53	22 5	2 37			n.a.
W21	9 29	23 8	4 24	0 27	2 12	10 24	0 35	3 5	0 38	23 28	0 21	22 22	1 11	15 22	0 18	19 17	1 23	26 12	16 40	21 52	22 4	2 34			n.a.
T 22	9 51	20 2	4 52	0 31	2 17	10 53	0 33	3 22	0 38	23 28	0 21	22 21	1 10	15 21	0 18	19 17	1 23	26 12	16 40	21 52	22 4	2 31			n.a.
F 23	10 13	16 8	5 7	0 41	2 21	11 22	0 30	3 39	0 37	23 28	0 21	22 21	1 10	15 20	0 18	19 18	1 23	26 12	16 39	21 51	22 3	2 28			n.a.
S 24	10 36	11 39	5 8	0 55	2 23	11 51	0 28	3 56	0 37	23 28	0 21	22 21	1 10	15 20	0 18	19 18	1 22	26 12	16 39	21 50	22 3	2 25			n.a.
S 25	10 58	6 45	4 56	1 13	2 24	12 19	0 26	4 12	0 36	23 28	0 22	22 20	1 10	15 19	0 18	19 18	1 22	26 12	16 39	21 49	22 2	2 22			n.a.
M26	11 20	1 36	4 31	1 34	2 24	12 47	0 24	4 29	0 36	23 28	0 22	22 20	1 10	15 18	0 18	19 19	1 22	26 12	16 39	21 48	22 2	2 19			n.a.
T 27	11 41	3n36	3 54	1 59	2 23	13 15	0 21	4 46	0 36	23 28	0 22	22 19	1 10	15 17	0 18	19 19	1 22	26 12	16 38	21 46	22 1	2 16			n.a.
W28	12 3	8 44	3 7	2 26	2 21	13 42	0 19	5 3	0 35	23 28	0 22	22 19	1 10	15 17	0 18	19 20	1 22	26 12	16 38	21 45	22 1	2 13			n.a.
T 29	12 24	13 35	2 11	2 55	2 19	14 9	0 17	5 20	0 35	23 28	0 22	22 18	1 10	15 16	0 18	19 20	1 22	26 12	16 38	21 45	22 0	2 10			n.a.
F 30	12 45	17 57	1 9	3 26	2 15	14 36	0 14	5 36	0 34	23 28	0 23	22 18	1 10	15 15	0 18	19 21	1 22	26 12	16 37	21 44	22 0	2 7			n.a.
S 31	13s 6	21n37	0s 3	3s59	2n11	15s 2	0n12	5s53	0n34	23n29	0n23	22s17	1s10	15n14	0s18	19s21	1n22	26s12	16s37	21n44	21n59	2s 4			n.a.

Julian Day Number = 1663986.5, Delta T = 03h24m11s
Ecliptic obliquity = 23°42'55, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'18, Lahiri = - 6°07'17 Julian Calendar 1 Oct. 158 BCE == Greg. Calendar 28 Sept. 158 BCE

The year -157 astronomical counting style corresponds to year 158 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 158 BCE
geocentric

NOVEMBER 158 BCE (-157) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 25 20	5♏18'52	19♊ 0	16♎21	12♏ 0	16♎47	12♋44	26♑20	11°R41	1♐31	2°R13	7♊ 2	8♊31	5♈28	n.a.	S 1
M 2	2 29 17	6°19'49	1♋39	17°41	13°16	17°29	12°44	26°23	11♉39	1°33	2♓13	7° 4	8°28	5°34	n.a.	M 2
T 3	2 33 13	7°20'48	14°33	19° 2	14°31	18°11	12°R44	26°26	11°36	1°35	2°12	7° 6	8°25	5°41	n.a.	T 3
W 4	2 37 10	8°21'48	27°46	20°26	15°47	18°53	12°44	26°29	11°33	1°37	2°12	7° 7	8°22	5°48	n.a.	W 4
T 5	2 41 6	9°22'50	11♌18	21°50	17° 2	19°35	12°43	26°32	11°31	1°39	2°11	7°R 7	8°18	5°54	n.a.	T 5
F 6	2 45 3	10°23'53	25°13	23°16	18°17	20°17	12°43	26°36	11°28	1°41	2°11	7° 7	8°15	6° 1	n.a.	F 6
S 7	2 49 0	11°24'56	9♍30	24°43	19°33	20°59	12°42	26°39	11°26	1°44	2°11	7° 4	8°12	6° 8	n.a.	S 7
S 8	2 52 56	12°26'02	24° 7	26°11	20°48	21°41	12°41	26°43	11°23	1°46	2°10	7° 1	8° 9	6°15	n.a.	S 8
M 9	2 56 53	13°27'08	8♎58	27°39	22° 4	22°23	12°40	26°46	11°21	1°48	2°10	6°58	8° 6	6°21	n.a.	M 9
T 10	3 0 49	14°28'15	23°57	29° 8	23°19	23° 5	12°38	26°50	11°18	1°50	2°10	6°55	8° 2	6°28	n.a.	T 10
W11	3 4 46	15°29'24	8♏56	0♏38	24°34	23°48	12°37	26°54	11°16	1°52	2°10	6°52	7°59	6°35	n.a.	W11
T 12	3 8 42	16°30'33	23°45	2° 8	25°50	24°30	12°35	26°58	11°13	1°54	2°10	6°51	7°56	6°41	n.a.	T 12
F 13	3 12 39	17°31'43	8♐17	3°38	27° 5	25°12	12°33	27° 2	11°11	1°57	2° 9	6°D50	7°53	6°48	n.a.	F 13
S 14	3 16 36	18°32'54	22°26	5° 9	28°21	25°55	12°31	27° 6	11° 8	1°59	2° 9	6°51	7°50	6°55	n.a.	S 14
S 15	3 20 32	19°34'05	6♑ 9	6°40	29°36	26°37	12°28	27°10	11° 6	2° 1	2° 9	6°52	7°47	7° 1	n.a.	S 15
M16	3 24 29	20°35'16	19°26	8°12	0♐51	27°19	12°26	27°14	11° 3	2° 3	2° 9	6°53	7°43	7° 8	n.a.	M16
T 17	3 28 25	21°36'28	2♒19	9°43	2° 7	28° 2	12°23	27°18	11° 1	2° 6	2° 9	6°55	7°40	7°15	n.a.	T 17
W18	3 32 22	22°37'40	14°51	11°15	3°22	28°44	12°20	27°23	10°58	2° 8	2° 9	6°55	7°37	7°22	n.a.	W18
T 19	3 36 18	23°38'53	27° 5	12°47	4°38	29°27	12°17	27°27	10°56	2°10	2° 9	6°R56	7°34	7°28	n.a.	T 19
F 20	3 40 15	24°40'05	9♓ 7	14°19	5°53	0♏ 9	12°14	27°31	10°53	2°12	2°D 9	6°55	7°31	7°35	n.a.	F 20
S 21	3 44 11	25°41'18	21° 2	15°52	7° 8	0°52	12°10	27°36	10°51	2°15	2° 9	6°54	7°28	7°42	n.a.	S 21
S 22	3 48 8	26°42'31	2♈53	17°24	8°24	1°35	12° 7	27°41	10°48	2°17	2° 9	6°53	7°24	7°48	n.a.	S 22
M23	3 52 5	27°43'44	14°44	18°57	9°39	2°17	12° 3	27°46	10°46	2°19	2° 9	6°51	7°21	7°55	n.a.	M23
T 24	3 56 1	28°44'57	26°40	20°30	10°54	3° 0	11°59	27°50	10°44	2°21	2° 9	6°50	7°18	8° 2	n.a.	T 24
W25	3 59 58	29°46'11	8♉42	22° 3	12° 9	3°43	11°54	27°55	10°41	2°24	2° 9	6°49	7°15	8° 9	n.a.	W25
T 26	4 3 54	0♐47'24	20°53	23°37	13°25	4°26	11°50	28° 0	10°39	2°26	2° 9	6°48	7°12	8°15	n.a.	T 26
F 27	4 7 51	1°48'38	3♊15	25°11	14°40	5° 9	11°45	28° 5	10°37	2°28	2° 9	6°D48	7° 8	8°22	n.a.	F 27
S 28	4 11 47	2°49'52	15°48	26°45	15°55	5°51	11°41	28°10	10°34	2°30	2°10	6°48	7° 5	8°29	n.a.	S 28
S 29	4 15 44	3°51'06	28°34	28°19	17°11	6°34	11°36	28°16	10°32	2°33	2°10	6°48	7° 2	8°35	n.a.	S 29
M30	4 19 40	4♐52'21	11♋33	29♏53	18♐26	7♏17	11♋31	28♑21	10♉30	2♐35	2♓10	6♊48	6♊59	8♈42	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s27	24n20	1n 5	4s33	2n 7	15s28	0n10	6s10	0n33	23n29	0n23	22s16	1s10	15n14	0s18	19s22	1n22	26s12	16s37	21n44	21n59	2s 1		n.a.
M 2	13 47	25 53	2 11	5 8	2 2	15 53	0 7	6 26	0 32	23 29	0 23	22 16	1 10	15 13	0 18	19 22	1 22	26 11	16 36	21 44	21 58	1 58		n.a.
T 3	14 7	26 5	3 11	5 45	1 57	16 18	0 5	6 43	0 32	23 29	0 23	22 15	1 10	15 12	0 18	19 22	1 22	26 11	16 36	21 45	21 58	1 55		n.a.
W 4	14 27	24 49	4 3	6 21	1 51	16 43	0 2	7 0	0 31	23 29	0 24	22 14	1 10	15 11	0 18	19 23	1 22	26 11	16 36	21 45	21 57	1 52		n.a.
T 5	14 47	22 6	4 43	6 59	1 45	17 7	0 0	7 16	0 31	23 30	0 24	22 14	1 10	15 10	0 18	19 23	1 22	26 11	16 35	21 45	21 57	1 49		n.a.
F 6	15 7	18 4	5 7	7 37	1 39	17 31	0s 2	7 33	0 30	23 30	0 24	22 13	1 10	15 10	0 18	19 24	1 22	26 11	16 35	21 45	21 56	1 45		n.a.
S 7	15 26	12 56	5 14	8 15	1 33	17 54	0 5	7 49	0 30	23 30	0 24	22 12	1 10	15 9	0 18	19 24	1 22	26 11	16 35	21 45	21 56	1 42		n.a.
S 8	15 45	6 57	5 0	8 53	1 26	18 17	0 7	8 6	0 29	23 30	0 24	22 12	1 10	15 8	0 18	19 25	1 22	26 10	16 34	21 44	21 55	1 39		n.a.
M 9	16 3	0 29	4 27	9 31	1 19	18 39	0 10	8 22	0 29	23 31	0 25	22 11	1 10	15 7	0 18	19 25	1 22	26 10	16 34	21 43	21 55	1 36		n.a.
T 10	16 22	6s 5	3 35	10 10	1 13	19 1	0 12	8 38	0 28	23 31	0 25	22 10	1 10	15 6	0 18	19 26	1 22	26 10	16 34	21 43	21 54	1 33		n.a.
W11	16 40	12 18	2 28	10 48	1 6	19 22	0 14	8 55	0 28	23 31	0 25	22 9	1 10	15 6	0 18	19 26	1 22	26 10	16 33	21 42	21 54	1 30		n.a.
T 12	16 58	17 46	1 12	11 26	0 59	19 43	0 17	9 11	0 27	23 32	0 25	22 9	1 10	15 5	0 18	19 27	1 22	26 9	16 33	21 42	21 53	1 27		n.a.
F 13	17 15	22 4	0s 8	12 4	0 52	20 3	0 19	9 27	0 27	23 32	0 25	22 8	1 10	15 4	0 18	19 27	1 22	26 9	16 33	21 42	21 53	1 24		n.a.
S 14	17 33	24 55	1 25	12 41	0 45	20 22	0 22	9 43	0 26	23 33	0 26	22 7	1 10	15 3	0 18	19 28	1 22	26 9	16 32	21 42	21 52	1 21		n.a.
S 15	17 50	26 9	2 35	13 18	0 38	20 41	0 24	9 59	0 25	23 33	0 26	22 6	1 9	15 3	0 18	19 28	1 22	26 9	16 32	21 42	21 52	1 18		n.a.
M16	18 6	25 49	3 34	13 55	0 31	21 0	0 26	10 15	0 25	23 33	0 26	22 5	1 9	15 2	0 18	19 28	1 22	26 8	16 32	21 43	21 51	1 15		n.a.
T 17	18 22	24 6	4 21	14 31	0 24	21 17	0 29	10 31	0 24	23 34	0 26	22 4	1 9	15 1	0 18	19 29	1 22	26 8	16 31	21 43	21 50	1 12		n.a.
W18	18 38	21 14	4 53	15 7	0 17	21 35	0 31	10 47	0 24	23 34	0 26	22 4	1 9	15 0	0 18	19 29	1 22	26 8	16 31	21 43	21 50	1 9		n.a.
T 19	18 54	17 29	5 12	15 42	0 10	21 51	0 33	11 3	0 23	23 35	0 27	22 3	1 9	14 59	0 18	19 30	1 22	26 7	16 31	21 43	21 49	1 6		n.a.
F 20	19 9	13 7	5 16	16 16	0 3	22 7	0 36	11 18	0 23	23 35	0 27	22 2	1 9	14 59	0 18	19 30	1 22	26 7	16 30	21 43	21 49	1 3		n.a.
S 21	19 24	8 17	5 7	16 50	0s 4	22 22	0 38	11 34	0 22	23 36	0 27	22 1	1 9	14 58	0 18	19 31	1 22	26 7	16 30	21 43	21 48	1 0		n.a.
S 22	19 39	3 11	4 45	17 24	0 11	22 37	0 40	11 50	0 21	23 36	0 27	22 0	1 9	14 57	0 18	19 31	1 22	26 6	16 29	21 42	21 48	0 56		n.a.
M23	19 53	2n 2	4 10	17 56	0 17	22 51	0 42	12 5	0 21	23 37	0 27	21 59	1 9	14 56	0 18	19 32	1 22	26 6	16 29	21 42	21 47	0 53		n.a.
T 24	20 7	7 13	3 25	18 28	0 24	23 4	0 44	12 20	0 20	23 38	0 28	21 58	1 9	14 56	0 18	19 32	1 22	26 6	16 29	21 42	21 47	0 50		n.a.
W25	20 20	12 12	2 30	18 59	0 30	23 17	0 47	12 36	0 20	23 38	0 28	21 57	1 9	14 55	0 18	19 33	1 22	26 5	16 28	21 42	21 46	0 47		n.a.
T 26	20 33	16 47	1 27	19 29	0 37	23 29	0 49	12 51	0 19	23 39	0 28	21 56	1 9	14 54	0 18	19 33	1 22	26 5	16 28	21 42	21 46	0 44		n.a.
F 27	20 46	20 43	0 20	19 58	0 43	23 40	0 51	13 6	0 18	23 39	0 28	21 55	1 9	14 54	0 18	19 34	1 22	26 5	16 28	21 42	21 45	0 41		n.a.
S 28	20 58	23 46	0n50	20 27	0 49	23 50	0 53	13 21	0 18	23 40	0 28	21 54	1 9	14 53	0 18	19 34	1 22	26 4	16 27	21 42	21 45	0 38		n.a.
S 29	21 10	25 40	1 58	20 54	0 55	24 0	0 55	13 36	0 17	23 41	0 29	21 52	1 9	14 52	0 18	19 34	1 22	26 4	16 27	21 42	21 44	0 35		n.a.
M30	21s21	26n13	3n 1	21s21	1s 1	24s 9	0s57	13s51	0n16	23n41	0n29	21s51	1s 9	14n51	0s18	19s35	1n22	26s 3	16s27	21n42	21n44	0s32		n.a.

Julian Day Number = 1664017.5, Delta T = 03h24m10s
Ecliptic obliquity = 23°42'55, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'14, Lahiri = - 6°07'13 Julian Calendar 1 Nov. 158 BCE == Greg. Calendar 29 Oct. 158 BCE

The year -157 astronomical counting style corresponds to year 158 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 158 BCE
geocentric

DECEMBER 158 BCE (-157) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 23 37	5♐53'35	24♋45	1♐28	19♐41	8♏ 0	11°R25	28♑26	10°R27	2♐37	2♓10	6♊49	6♊56	8♈49	n.a.	T 1
W 2	4 27 34	6°54'50	8♌10	3° 3	20°56	8°43	11♋20	28°32	10♉25	2°40	2°11	6°R49	6°53	8°55	n.a.	W 2
T 3	4 31 30	7°56'05	21°50	4°39	22°11	9°26	11°14	28°37	10°23	2°42	2°11	6°49	6°49	9° 2	n.a.	T 3
F 4	4 35 27	8°57'21	5♍42	6°14	23°27	10°10	11° 9	28°43	10°21	2°44	2°11	6°D49	6°46	9° 9	n.a.	F 4
S 5	4 39 23	9°58'36	19°48	7°50	24°42	10°53	11° 3	28°48	10°19	2°46	2°12	6°49	6°43	9°16	n.a.	S 5
S 6	4 43 20	10°59'51	4♎ 5	9°27	25°57	11°36	10°57	28°54	10°17	2°49	2°12	6°49	6°40	9°22	n.a.	S 6
M 7	4 47 16	12° 1'07	18°31	11° 4	27°12	12°19	10°51	29° 0	10°15	2°51	2°12	6°49	6°37	9°29	n.a.	M 7
T 8	4 51 13	13° 2'23	3♏ 2	12°41	28°27	13° 2	10°45	29° 6	10°13	2°53	2°13	6°50	6°34	9°36	n.a.	T 8
W 9	4 55 9	14° 3'39	17°33	14°18	29°43	13°46	10°38	29°11	10°11	2°55	2°13	6°50	6°30	9°42	n.a.	W 9
T 10	4 59 6	15° 4'54	1♐58	15°56	0♑58	14°29	10°32	29°17	10° 9	2°58	2°14	6°R51	6°27	9°49	n.a.	T 10
F 11	5 3 3	16° 6'10	16°13	17°35	2°13	15°12	10°25	29°23	10° 7	3° 0	2°14	6°51	6°24	9°56	n.a.	F 11
S 12	5 6 59	17° 7'25	0♑12	19°14	3°28	15°56	10°18	29°29	10° 5	3° 2	2°15	6°50	6°21	10° 2	n.a.	S 12
S 13	5 10 56	18° 8'39	13°52	20°53	4°43	16°39	10°11	29°35	10° 3	3° 4	2°15	6°49	6°18	10° 9	n.a.	S 13
M14	5 14 52	19° 9'53	27°10	22°33	5°58	17°23	10° 4	29°42	10° 1	3° 6	2°16	6°47	6°14	10°16	n.a.	M14
T 15	5 18 49	20°11'06	10♒ 6	24°13	7°13	18° 6	9°57	29°48	9°59	3° 9	2°16	6°45	6°11	10°23	n.a.	T 15
W16	5 22 45	21°12'19	22°42	25°54	8°28	18°50	9°50	29°54	9°58	3°11	2°17	6°43	6° 8	10°29	n.a.	W16
T 17	5 26 42	22°13'30	5♓ 1	27°35	9°43	19°34	9°43	0♒ 0	9°56	3°13	2°18	6°42	6° 5	10°36	n.a.	T 17
F 18	5 30 39	23°14'41	17° 5	29°16	10°58	20°17	9°35	0° 7	9°54	3°15	2°18	6°41	6° 2	10°43	n.a.	F 18
S 19	5 34 35	24°15'51	29° 1	0♑58	12°13	21° 1	9°28	0°13	9°53	3°17	2°19	6°D41	5°59	10°49	n.a.	S 19
S 20	5 38 32	25°16'59	10♈52	2°40	13°28	21°45	9°20	0°19	9°51	3°19	2°20	6°42	5°55	10°56	n.a.	S 20
M21	5 42 28	26°18'07	22°44	4°22	14°43	22°28	9°13	0°26	9°49	3°22	2°20	6°43	5°52	11° 3	n.a.	M21
T 22	5 46 25	27°19'14	4♉40	6° 5	15°58	23°12	9° 5	0°32	9°48	3°24	2°21	6°45	5°49	11° 9	n.a.	T 22
W23	5 50 21	28°20'19	16°46	7°48	17°13	23°56	8°57	0°39	9°47	3°26	2°22	6°46	5°46	11°16	n.a.	W23
T 24	5 54 18	29°21'24	29° 5	9°31	18°28	24°40	8°50	0°46	9°45	3°28	2°23	6°48	5°43	11°23	n.a.	T 24
F 25	5 58 14	0♑22'28	11♊39	11°14	19°43	25°24	8°42	0°52	9°44	3°30	2°23	6°R48	5°40	11°30	n.a.	F 25
S 26	6 2 11	1°23'31	24°30	12°56	20°58	26° 7	8°34	0°59	9°42	3°32	2°24	6°47	5°36	11°36	n.a.	S 26
S 27	6 6 8	2°24'32	7♋39	14°39	22°13	26°51	8°26	1° 6	9°41	3°34	2°25	6°44	5°33	11°43	n.a.	S 27
M28	6 10 4	3°25'33	21° 3	16°21	23°27	27°35	8°18	1°12	9°40	3°36	2°26	6°41	5°30	11°50	n.a.	M28
T 29	6 14 1	4°26'33	4♌42	18° 2	24°42	28°19	8°10	1°19	9°39	3°38	2°27	6°36	5°27	11°56	n.a.	T 29
W30	6 17 57	5°27'32	18°33	19°42	25°57	29° 3	8° 2	1°26	9°38	3°40	2°28	6°32	5°24	12° 3	n.a.	W30
T 31	6 21 54	6♑28'30	2♍33	21♑20	27♑12	29♏48	7♋54	1♒33	9♉37	3♐42	2♓29	6♊28	5♊20	12♈10	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	21s32	25n17	3n56	21s46	1s 6	24s17	0s59	14s 5	0n16	23n42	0n29	21s50	1s 9	14n51	0s18	19s35	1n22	26s 3	16s26	21n42	21n43	0s29			n.a.
W 2	21 43	22 55	4 39	22 11	1 12	24 25	1 1	14 20	0 15	23 43	0 29	21 49	1 9	14 50	0 18	19 36	1 22	26 3	16 26	21 42	21 42	0 26			n.a.
T 3	21 53	19 13	5 7	22 34	1 17	24 32	1 3	14 34	0 15	23 43	0 29	21 48	1 9	14 49	0 18	19 36	1 22	26 2	16 26	21 42	21 42	0 23			n.a.
F 4	22 3	14 26	5 17	22 56	1 22	24 38	1 5	14 49	0 14	23 44	0 30	21 47	1 9	14 49	0 18	19 37	1 22	26 2	16 25	21 42	21 41	0 19			n.a.
S 5	22 12	8 49	5 9	23 18	1 27	24 43	1 6	15 3	0 13	23 45	0 30	21 46	1 9	14 48	0 18	19 37	1 22	26 1	16 25	21 42	21 41	0 16			n.a.
S 6	22 21	2 40	4 42	23 37	1 31	24 47	1 8	15 17	0 13	23 45	0 30	21 44	1 9	14 47	0 18	19 38	1 22	26 1	16 24	21 42	21 40	0 13			n.a.
M 7	22 29	3s41	3 57	23 56	1 36	24 51	1 10	15 31	0 12	23 46	0 30	21 43	1 9	14 47	0 18	19 38	1 22	26 0	16 24	21 42	21 40	0 10			n.a.
T 8	22 37	9 54	2 57	24 14	1 40	24 54	1 11	15 45	0 11	23 47	0 30	21 42	1 9	14 46	0 18	19 38	1 22	26 0	16 24	21 42	21 39	0 7			n.a.
W 9	22 45	15 35	1 45	24 30	1 43	24 56	1 13	15 59	0 11	23 47	0 30	21 41	1 9	14 46	0 18	19 39	1 22	25 59	16 23	21 42	21 39	0 4			n.a.
T 10	22 52	20 21	0 27	24 44	1 47	24 57	1 15	16 13	0 10	23 48	0 31	21 39	1 9	14 45	0 18	19 39	1 22	25 59	16 23	21 42	21 38	0 1			n.a.
F 11	22 59	23 51	0s52	24 57	1 50	24 58	1 16	16 26	0 9	23 49	0 31	21 38	1 9	14 44	0 18	19 40	1 22	25 58	16 23	21 42	21 38	0n 2			n.a.
S 12	23 5	25 49	2 6	25 9	1 53	24 58	1 18	16 40	0 9	23 50	0 31	21 37	1 9	14 44	0 18	19 40	1 22	25 58	16 22	21 42	21 37	0 5			n.a.
S 13	23 11	26 9	3 11	25 19	1 56	24 57	1 19	16 53	0 8	23 50	0 31	21 36	1 9	14 43	0 18	19 41	1 22	25 57	16 22	21 42	21 36	0 8			n.a.
M14	23 16	24 57	4 4	25 28	1 58	24 55	1 20	17 6	0 7	23 51	0 31	21 34	1 9	14 43	0 18	19 41	1 22	25 57	16 22	21 42	21 36	0 11			n.a.
T 15	23 21	22 27	4 43	25 35	2 0	24 53	1 22	17 19	0 7	23 52	0 32	21 33	1 9	14 42	0 18	19 41	1 22	25 56	16 21	21 41	21 35	0 15			n.a.
W16	23 25	18 55	5 7	25 41	2 2	24 49	1 23	17 32	0 6	23 52	0 32	21 32	1 9	14 42	0 18	19 42	1 22	25 56	16 21	21 41	21 35	0 18			n.a.
T 17	23 29	14 40	5 16	25 44	2 3	24 45	1 24	17 44	0 5	23 53	0 32	21 30	1 9	14 41	0 18	19 42	1 22	25 55	16 21	21 41	21 34	0 21			n.a.
F 18	23 32	9 55	5 11	25 46	2 4	24 40	1 25	17 57	0 5	23 54	0 32	21 29	1 9	14 40	0 18	19 43	1 22	25 55	16 20	21 41	21 34	0 24			n.a.
S 19	23 35	4 51	4 52	25 47	2 4	24 35	1 26	18 9	0 4	23 55	0 32	21 27	1 9	14 40	0 18	19 43	1 22	25 54	16 20	21 41	21 33	0 27			n.a.
S 20	23 38	0n21	4 22	25 45	2 4	24 28	1 27	18 22	0 3	23 55	0 32	21 26	1 9	14 40	0 17	19 44	1 22	25 53	16 20	21 41	21 33	0 30			n.a.
M21	23 40	5 32	3 40	25 42	2 3	24 21	1 28	18 34	0 2	23 56	0 33	21 25	1 9	14 39	0 17	19 44	1 22	25 53	16 19	21 41	21 32	0 33			n.a.
T 22	23 41	10 35	2 48	25 36	2 2	24 13	1 29	18 46	0 2	23 57	0 33	21 23	1 9	14 39	0 17	19 44	1 22	25 52	16 19	21 41	21 31	0 36			n.a.
W23	23 42	15 19	1 48	25 29	2 0	24 5	1 30	18 57	0 1	23 57	0 33	21 22	1 9	14 38	0 17	19 45	1 22	25 52	16 19	21 41	21 31	0 39			n.a.
T 24	23 43	19 30	0 42	25 20	1 58	23 55	1 31	19 9	0 0	23 58	0 33	21 20	1 9	14 38	0 17	19 45	1 22	25 51	16 18	21 42	21 30	0 42			n.a.
F 25	23 43	22 53	0n27	25 9	1 55	23 45	1 32	19 20	0s 0	23 59	0 33	21 19	1 9	14 37	0 17	19 45	1 22	25 51	16 18	21 42	21 30	0 46			n.a.
S 26	23 42	25 12	1 36	24 56	1 52	23 35	1 32	19 32	0 1	23 59	0 33	21 17	1 9	14 37	0 17	19 46	1 22	25 50	16 18	21 41	21 29	0 49			n.a.
S 27	23 42	26 11	2 41	24 41	1 47	23 23	1 33	19 43	0 2	24 0	0 34	21 16	1 9	14 36	0 17	19 46	1 22	25 49	16 18	21 41	21 29	0 52			n.a.
M28	23 40	25 39	3 39	24 24	1 42	23 11	1 33	19 53	0 3	24 1	0 34	21 14	1 9	14 36	0 17	19 47	1 22	25 49	16 17	21 40	21 28	0 55			n.a.
T 29	23 38	23 36	4 26	24 5	1 37	22 58	1 34	20 4	0 3	24 1	0 34	21 13	1 9	14 36	0 17	19 47	1 22	25 48	16 17	21 40	21 27	0 58			n.a.
W30	23 36	20 8	4 57	23 44	1 30	22 44	1 34	20 15	0 4	24 2	0 34	21 11	1 9	14 35	0 17	19 47	1 22	25 48	16 17	21 39	21 27	1 1			n.a.
T 31	23s33	15n31	5n12	23s22	1s23	22s30	1s34	20s25	0s 5	24n 3	0n34	21s10	1s 9	14n35	0s17	19s48	1n22	25s47	16s16	21n38	21n26	1n 4			n.a.

Julian Day Number = 1664047.5, Delta T = 03h24m09s
Ecliptic obliquity = 23°42'54, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'10, Lahiri = - 6°07'09 Julian Calendar 1 Dec. 158 BCE == Greg. Calendar 28 Nov. 158 BCE

The year -157 astronomical counting style corresponds to year 158 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 157 BCE
geocentric

JANUARY 157 BCE (-156) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 25 50	7♑29'27	16♍38	22♑57	28♑26	0♐32	7°R46	1♒40	9°R36	3♐44	2♓29	6°R25	5♊17	12♈16	n.a.	F 1
S 2	6 29 47	8°30'23	0♎47	24°32	29°41	1°16	7♋38	1°47	9♉35	3°46	2°30	6♊23	5°14	12°23	n.a.	S 2
S 3	6 33 44	9°31'18	14°56	26° 5	0♒56	2° 0	7°30	1°54	9°34	3°48	2°31	6°D23	5°11	12°30	n.a.	S 3
M 4	6 37 40	10°32'13	29° 5	27°34	2°11	2°44	7°22	2° 1	9°33	3°50	2°32	6°24	5° 8	12°37	n.a.	M 4
T 5	6 41 37	11°33'06	13♏11	28°59	3°25	3°28	7°14	2° 8	9°32	3°52	2°33	6°25	5° 5	12°43	n.a.	T 5
W 6	6 45 33	12°33'59	27°13	0♒20	4°40	4°13	7° 6	2°15	9°31	3°54	2°34	6°27	5° 1	12°50	n.a.	W 6
T 7	6 49 30	13°34'50	11♐ 9	1°36	5°54	4°57	6°58	2°22	9°30	3°56	2°35	6°R27	4°58	12°57	n.a.	T 7
F 8	6 53 26	14°35'40	24°57	2°47	7° 9	5°41	6°50	2°29	9°30	3°58	2°36	6°25	4°55	13° 3	n.a.	F 8
S 9	6 57 23	15°36'29	8♑34	3°50	8°23	6°26	6°42	2°36	9°29	3°59	2°38	6°22	4°52	13°10	n.a.	S 9
S 10	7 1 19	16°37'17	21°57	4°47	9°38	7°10	6°35	2°43	9°28	4° 1	2°39	6°16	4°49	13°17	n.a.	S 10
M11	7 5 16	17°38'03	5♒ 4	5°35	10°52	7°55	6°27	2°51	9°28	4° 3	2°40	6° 9	4°46	13°23	n.a.	M11
T 12	7 9 13	18°38'48	17°55	6°15	12° 7	8°39	6°19	2°58	9°27	4° 5	2°41	6° 1	4°42	13°30	n.a.	T 12
W13	7 13 9	19°39'30	0♓29	6°45	13°21	9°24	6°11	3° 5	9°27	4° 6	2°42	5°54	4°39	13°37	n.a.	W13
T 14	7 17 6	20°40'11	12°47	7° 6	14°36	10° 8	6° 4	3°12	9°27	4° 8	2°43	5°46	4°36	13°43	n.a.	T 14
F 15	7 21 2	21°40'51	24°52	7°R16	15°50	10°53	5°56	3°19	9°26	4°10	2°44	5°41	4°33	13°50	n.a.	F 15
S 16	7 24 59	22°41'28	6♈48	7°15	17° 4	11°37	5°49	3°27	9°26	4°12	2°46	5°37	4°30	13°57	n.a.	S 16
S 17	7 28 55	23°42'04	18°39	7° 4	18°19	12°22	5°42	3°34	9°26	4°13	2°47	5°D36	4°26	14° 4	n.a.	S 17
M18	7 32 52	24°42'37	0♉29	6°42	19°33	13° 6	5°34	3°41	9°26	4°15	2°48	5°36	4°23	14°10	n.a.	M18
T 19	7 36 48	25°43'09	12°25	6°11	20°47	13°51	5°27	3°49	9°26	4°16	2°49	5°37	4°20	14°17	n.a.	T 19
W20	7 40 45	26°43'39	24°31	5°31	22° 1	14°36	5°20	3°56	9°25	4°18	2°50	5°38	4°17	14°24	n.a.	W20
T 21	7 44 42	27°44'07	6♊53	4°43	23°15	15°21	5°13	4° 3	9°D25	4°19	2°52	5°R38	4°14	14°30	n.a.	T 21
F 22	7 48 38	28°44'33	19°33	3°48	24°29	16° 5	5° 6	4°11	9°26	4°21	2°53	5°37	4°11	14°37	n.a.	F 22
S 23	7 52 35	29°44'57	2♋36	2°48	25°43	16°50	5° 0	4°18	9°26	4°22	2°54	5°34	4° 7	14°44	n.a.	S 23
S 24	7 56 31	0♒45'19	16° 2	1°44	26°57	17°35	4°53	4°25	9°26	4°24	2°56	5°29	4° 4	14°50	n.a.	S 24
M25	8 0 28	1°45'39	29°50	0°39	28°11	18°20	4°47	4°33	9°26	4°25	2°57	5°21	4° 1	14°57	n.a.	M25
T 26	8 4 24	2°45'58	13♌56	29♑33	29°25	19° 4	4°40	4°40	9°26	4°27	2°58	5°11	3°58	15° 4	n.a.	T 26
W27	8 8 21	3°46'14	28°17	28°29	0♓39	19°49	4°34	4°47	9°27	4°28	2°59	5° 2	3°55	15°10	n.a.	W27
T 28	8 12 17	4°46'29	12♍45	27°27	1°53	20°34	4°28	4°55	9°27	4°30	3° 1	4°53	3°52	15°17	n.a.	T 28
F 29	8 16 14	5°46'42	27°14	26°29	3° 7	21°19	4°22	5° 2	9°27	4°31	3° 2	4°45	3°48	15°24	n.a.	F 29
S 30	8 20 11	6°46'53	11♎39	25°37	4°20	22° 4	4°16	5° 9	9°28	4°32	3° 4	4°40	3°45	15°31	n.a.	S 30
S 31	8 24 7	7♒47'03	25♎55	24♑50	5♓34	22♐49	4♋11	5♒17	9♉28	4♐33	3♓ 5	4♊38	3♊42	15♈37	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s30	10n 3	5n 8	22s58	1s15	22s15	1s35	20s35	0s 6	24n 3	0n34	21s 8	1s 9	14n35	0s17	19s48	1n22	25s46	16s16	21n38	21n26	1n 7		n.a.
S 2	23 26	4 2	4 45	22 33	1 6	22 0	1 35	20 45	0 6	24 4	0 34	21 7	1 9	14 34	0 17	19 48	1 22	25 46	16 16	21 37	21 25	1 10		n.a.
S 3	23 22	2s12	4 5	22 6	0 57	21 43	1 35	20 55	0 7	24 5	0 35	21 5	1 9	14 34	0 17	19 49	1 22	25 45	16 16	21 37	21 25	1 14		n.a.
M 4	23 17	8 19	3 10	21 38	0 46	21 26	1 35	21 5	0 8	24 5	0 35	21 4	1 9	14 34	0 17	19 49	1 22	25 44	16 15	21 38	21 24	1 17		n.a.
T 5	23 12	14 1	2 4	21 10	0 34	21 9	1 35	21 14	0 9	24 6	0 35	21 2	1 9	14 34	0 17	19 49	1 22	25 44	16 15	21 38	21 23	1 20		n.a.
W 6	23 7	18 57	0 50	20 40	0 22	20 51	1 35	21 23	0 9	24 6	0 35	21 1	1 9	14 33	0 17	19 50	1 22	25 43	16 15	21 38	21 23	1 23		n.a.
T 7	23 1	22 48	0s26	20 10	0 9	20 32	1 34	21 32	0 10	24 7	0 35	20 59	1 9	14 33	0 17	19 50	1 22	25 43	16 14	21 38	21 22	1 26		n.a.
F 8	22 54	25 16	1 39	19 41	0n 5	20 13	1 34	21 41	0 11	24 7	0 35	20 57	1 9	14 33	0 17	19 50	1 22	25 42	16 14	21 38	21 22	1 29		n.a.
S 9	22 47	26 11	2 45	19 11	0 20	19 53	1 34	21 49	0 12	24 8	0 35	20 56	1 9	14 33	0 17	19 51	1 22	25 41	16 14	21 37	21 21	1 32		n.a.
S 10	22 40	25 33	3 42	18 43	0 36	19 33	1 33	21 58	0 13	24 8	0 35	20 54	1 9	14 33	0 17	19 51	1 22	25 41	16 14	21 36	21 21	1 35		n.a.
M11	22 32	23 30	4 25	18 15	0 52	19 12	1 33	22 6	0 13	24 9	0 36	20 52	1 9	14 33	0 17	19 51	1 22	25 40	16 13	21 35	21 20	1 39		n.a.
T 12	22 24	20 17	4 53	17 49	1 8	18 50	1 32	22 14	0 14	24 9	0 36	20 51	1 9	14 32	0 17	19 52	1 22	25 39	16 13	21 34	21 19	1 42		n.a.
W13	22 15	16 12	5 7	17 25	1 25	18 28	1 32	22 22	0 15	24 10	0 36	20 49	1 9	14 32	0 17	19 52	1 22	25 39	16 13	21 32	21 19	1 45		n.a.
T 14	22 6	11 32	5 6	17 4	1 42	18 6	1 31	22 29	0 16	24 10	0 36	20 47	1 10	14 32	0 17	19 52	1 22	25 38	16 13	21 31	21 18	1 48		n.a.
F 15	21 57	6 31	4 51	16 45	1 59	17 43	1 30	22 36	0 16	24 11	0 36	20 46	1 10	14 32	0 17	19 53	1 22	25 37	16 12	21 30	21 18	1 51		n.a.
S 16	21 47	1 19	4 24	16 29	2 16	17 19	1 30	22 43	0 17	24 11	0 36	20 44	1 10	14 32	0 17	19 53	1 22	25 37	16 12	21 29	21 17	1 54		n.a.
S 17	21 37	3n55	3 46	16 16	2 32	16 55	1 29	22 50	0 18	24 12	0 36	20 42	1 10	14 32	0 17	19 53	1 22	25 36	16 12	21 29	21 16	1 57		n.a.
M18	21 26	9 0	2 58	16 6	2 48	16 31	1 28	22 57	0 19	24 12	0 36	20 41	1 10	14 32	0 17	19 53	1 22	25 35	16 12	21 29	21 16	2 0		n.a.
T 19	21 15	13 49	2 2	16 0	3 2	16 6	1 27	23 3	0 20	24 12	0 36	20 39	1 10	14 32	0 17	19 54	1 22	25 35	16 12	21 29	21 15	2 4		n.a.
W20	21 3	18 9	1 0	15 58	3 15	15 41	1 25	23 9	0 20	24 13	0 36	20 37	1 10	14 32	0 17	19 54	1 22	25 34	16 11	21 29	21 15	2 7		n.a.
T 21	20 51	21 49	0n 7	15 59	3 26	15 15	1 24	23 15	0 21	24 13	0 37	20 36	1 10	14 32	0 17	19 54	1 22	25 33	16 11	21 30	21 14	2 10		n.a.
F 22	20 39	24 32	1 14	16 2	3 35	14 49	1 23	23 21	0 22	24 14	0 37	20 34	1 10	14 32	0 17	19 55	1 22	25 33	16 11	21 29	21 13	2 13		n.a.
S 23	20 26	26 1	2 19	16 9	3 42	14 22	1 22	23 26	0 23	24 14	0 37	20 32	1 10	14 32	0 17	19 55	1 22	25 32	16 11	21 29	21 13	2 16		n.a.
S 24	20 13	26 2	3 19	16 19	3 47	13 55	1 20	23 31	0 24	24 14	0 37	20 31	1 10	14 32	0 17	19 55	1 22	25 31	16 11	21 28	21 12	2 19		n.a.
M25	20 0	24 28	4 8	16 30	3 50	13 28	1 19	23 36	0 25	24 15	0 37	20 29	1 10	14 32	0 17	19 55	1 22	25 31	16 10	21 26	21 12	2 22		n.a.
T 26	19 46	21 21	4 44	16 43	3 50	13 1	1 17	23 41	0 25	24 15	0 37	20 27	1 10	14 32	0 17	19 55	1 22	25 30	16 10	21 25	21 11	2 25		n.a.
W27	19 32	16 55	5 2	16 58	3 49	12 33	1 16	23 45	0 26	24 15	0 37	20 25	1 10	14 32	0 17	19 56	1 23	25 29	16 10	21 23	21 10	2 29		n.a.
T 28	19 17	11 29	5 1	17 14	3 45	12 5	1 14	23 50	0 27	24 15	0 37	20 24	1 10	14 33	0 17	19 56	1 23	25 29	16 10	21 21	21 10	2 32		n.a.
F 29	19 3	5 24	4 41	17 31	3 39	11 36	1 12	23 53	0 28	24 16	0 37	20 22	1 10	14 33	0 17	19 56	1 23	25 28	16 10	21 20	21 9	2 35		n.a.
S 30	18 47	0s56	4 4	17 48	3 32	11 7	1 10	23 57	0 29	24 16	0 37	20 20	1 10	14 33	0 17	19 56	1 23	25 28	16 10	21 19	21 9	2 38		n.a.
S 31	18s32	7s10	3n11	18s 5	3n23	10s38	1s 8	24s 1	0s30	24n16	0n37	20s18	1s10	14n33	0s17	19s57	1n23	25s27	16s10	21n19	21n 8	2n41		n.a.

Julian Day Number = 1664078.5, Delta T = 03h24m08s
Ecliptic obliquity = 23°42'55, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'05, Lahiri = - 6°07'05 Julian Calendar 1 Jan. 157 BCE == Greg. Calendar 29 Dec. 158 BCE

The year -156 astronomical counting style corresponds to year 157 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 157 BCE
geocentric

FEBRUARY 157 BCE (-156) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 28 4	8♒47'11	10♏ 2	24°R 9	6♓48	23♐34	4°R 5	5♒24	9♉29	4♐35	3♓ 6	4°D37	3♊39	15♈44	n.a.	M 1
T 2	8 32 0	9°47'18	23°56	23♑36	8° 1	24°19	4♋ 0	5°31	9°30	4°36	3° 8	4♊37	3°36	15°51	n.a.	T 2
W 3	8 35 57	10°47'23	7♐40	23° 9	9°15	25° 4	3°55	5°39	9°30	4°37	3° 9	4°R38	3°32	15°57	n.a.	W 3
T 4	8 39 53	11°47'26	21°13	22°49	10°28	25°49	3°50	5°46	9°31	4°38	3°10	4°37	3°29	16° 4	n.a.	T 4
F 5	8 43 50	12°47'28	4♑35	22°36	11°42	26°34	3°45	5°53	9°32	4°39	3°12	4°33	3°26	16°11	n.a.	F 5
S 6	8 47 46	13°47'27	17°46	22°D30	12°55	27°19	3°40	6° 1	9°33	4°40	3°13	4°27	3°23	16°17	n.a.	S 6
S 7	8 51 43	14°47'25	0♒47	22°30	14° 8	28° 4	3°36	6° 8	9°33	4°42	3°15	4°17	3°20	16°24	n.a.	S 7
M 8	8 55 40	15°47'21	13°36	22°36	15°22	28°50	3°31	6°15	9°34	4°43	3°16	4° 6	3°17	16°31	n.a.	M 8
T 9	8 59 36	16°47'15	26°13	22°48	16°35	29°35	3°27	6°23	9°35	4°44	3°18	3°53	3°13	16°37	n.a.	T 9
W10	9 3 33	17°47'06	8♓38	23° 6	17°48	0♑20	3°23	6°30	9°36	4°45	3°19	3°39	3°10	16°44	n.a.	W10
T 11	9 7 29	18°46'56	20°50	23°28	19° 1	1° 5	3°19	6°37	9°38	4°45	3°21	3°27	3° 7	16°51	n.a.	T 11
F 12	9 11 26	19°46'43	2♈52	23°56	20°14	1°50	3°15	6°44	9°39	4°46	3°22	3°17	3° 4	16°58	n.a.	F 12
S 13	9 15 22	20°46'28	14°46	24°29	21°27	2°36	3°12	6°52	9°40	4°47	3°23	3° 9	3° 1	17° 4	n.a.	S 13
S 14	9 19 19	21°46'10	26°35	25° 5	22°40	3°21	3° 9	6°59	9°41	4°48	3°25	3° 4	2°58	17°11	n.a.	S 14
M15	9 23 15	22°45'50	8♉24	25°46	23°53	4° 6	3° 6	7° 6	9°42	4°49	3°26	3° 1	2°54	17°18	n.a.	M15
T 16	9 27 12	23°45'28	20°18	26°30	25° 6	4°51	3° 3	7°13	9°44	4°50	3°28	3°D 0	2°51	17°24	n.a.	T 16
W17	9 31 8	24°45'04	2♊21	27°18	26°19	5°37	3° 0	7°20	9°45	4°50	3°29	3°R 0	2°48	17°31	n.a.	W17
T 18	9 35 5	25°44'37	14°41	28° 9	27°31	6°22	2°57	7°27	9°47	4°51	3°31	3° 0	2°45	17°38	n.a.	T 18
F 19	9 39 2	26°44'08	27°21	29° 4	28°44	7° 7	2°55	7°35	9°48	4°52	3°32	2°58	2°42	17°44	n.a.	F 19
S 20	9 42 58	27°43'36	10♋27	0♒ 1	29°56	7°52	2°53	7°42	9°50	4°53	3°34	2°54	2°38	17°51	n.a.	S 20
S 21	9 46 55	28°43'03	23°59	1° 1	1♈ 9	8°38	2°51	7°49	9°51	4°53	3°35	2°47	2°35	17°58	n.a.	S 21
M22	9 50 51	29°42'26	8♌ 0	2° 4	2°21	9°23	2°49	7°56	9°53	4°54	3°37	2°38	2°32	18° 4	n.a.	M22
T 23	9 54 48	0♓41'48	22°24	3° 9	3°34	10° 8	2°47	8° 3	9°55	4°54	3°38	2°27	2°29	18°11	n.a.	T 23
W24	9 58 44	1°41'07	7♍ 8	4°17	4°46	10°54	2°46	8°10	9°56	4°55	3°40	2°15	2°26	18°18	n.a.	W24
T 25	10 2 41	2°40'24	22° 2	5°27	5°58	11°39	2°45	8°17	9°58	4°55	3°41	2° 4	2°23	18°24	n.a.	T 25
F 26	10 6 37	3°39'39	6♎57	6°39	7°10	12°25	2°44	8°24	10° 0	4°56	3°43	1°55	2°19	18°31	n.a.	F 26
S 27	10 10 34	4°38'52	21°45	7°53	8°22	13°10	2°43	8°30	10° 2	4°56	3°44	1°48	2°16	18°38	n.a.	S 27
S 28	10 14 31	5°38'03	6♏19	9° 9	9°34	13°55	2°42	8°37	10° 4	4°57	3°46	1°44	2°13	18°44	n.a.	S 28
M29	10 18 27	6♓37'12	20♏36	10♒27	10♈46	14♑41	2♋42	8♒44	10♉ 6	4♐57	3♓47	1♊43	2♊10	18♈51	n.a.	M29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	18s16	12s59	2n 7	18s22	3n13	10s 9	1s 7	24s 4	0s30	24n16	0n37	20s17	1s11	14n33	0s17	19s57	1n23	25s26	16s 9	21n18	21n 7	2n44		n.a.
T 2	18 0	18 4	0 57	18 38	3 2	9 39	1 5	24 7	0 31	24 17	0 37	20 15	1 11	14 34	0 16	19 57	1 23	25 26	16 9	21 19	21 7	2 47		n.a.
W 3	17 44	22 6	0s16	18 55	2 50	9 9	1 2	24 9	0 32	24 17	0 37	20 13	1 11	14 34	0 16	19 57	1 23	25 25	16 9	21 19	21 6	2 51		n.a.
T 4	17 27	24 52	1 27	19 10	2 38	8 39	1 0	24 12	0 33	24 17	0 37	20 11	1 11	14 34	0 16	19 57	1 23	25 24	16 9	21 18	21 6	2 54		n.a.
F 5	17 10	26 10	2 32	19 25	2 25	8 9	0 58	24 14	0 34	24 17	0 38	20 10	1 11	14 34	0 16	19 57	1 23	25 24	16 9	21 18	21 5	2 57		n.a.
S 6	16 53	25 57	3 28	19 39	2 11	7 39	0 56	24 16	0 35	24 17	0 38	20 8	1 11	14 35	0 16	19 58	1 23	25 23	16 9	21 16	21 4	3 0		n.a.
S 7	16 35	24 18	4 12	19 52	1 58	7 8	0 54	24 18	0 36	24 18	0 38	20 6	1 11	14 35	0 16	19 58	1 23	25 22	16 9	21 15	21 4	3 3		n.a.
M 8	16 17	21 26	4 42	20 5	1 45	6 37	0 51	24 19	0 36	24 18	0 38	20 4	1 11	14 35	0 16	19 58	1 23	25 22	16 9	21 13	21 3	3 6		n.a.
T 9	15 59	17 35	4 58	20 16	1 31	6 6	0 49	24 20	0 37	24 18	0 38	20 2	1 11	14 36	0 16	19 58	1 23	25 21	16 8	21 10	21 3	3 9		n.a.
W10	15 41	13 3	5 0	20 26	1 18	5 35	0 46	24 21	0 38	24 18	0 38	20 1	1 11	14 36	0 16	19 58	1 23	25 20	16 8	21 8	21 2	3 12		n.a.
T 11	15 22	8 4	4 47	20 35	1 5	5 4	0 44	24 22	0 39	24 18	0 38	19 59	1 11	14 36	0 16	19 58	1 23	25 20	16 8	21 5	21 1	3 16		n.a.
F 12	15 3	2 51	4 22	20 43	0 52	4 32	0 41	24 22	0 40	24 18	0 38	19 57	1 11	14 37	0 16	19 59	1 23	25 19	16 8	21 3	21 1	3 19		n.a.
S 13	14 44	2n25	3 46	20 49	0 40	4 1	0 39	24 22	0 41	24 18	0 38	19 55	1 12	14 37	0 16	19 59	1 23	25 19	16 8	21 2	21 0	3 22		n.a.
S 14	14 25	7 34	3 0	20 55	0 28	3 29	0 36	24 22	0 42	24 19	0 38	19 54	1 12	14 38	0 16	19 59	1 23	25 18	16 8	21 1	20 59	3 25		n.a.
M15	14 5	12 28	2 6	20 59	0 16	2 58	0 33	24 21	0 42	24 19	0 38	19 52	1 12	14 38	0 16	19 59	1 23	25 17	16 8	21 0	20 59	3 28		n.a.
T 16	13 45	16 57	1 7	21 1	0 4	2 26	0 30	24 21	0 43	24 19	0 38	19 50	1 12	14 38	0 16	19 59	1 23	25 17	16 8	21 0	20 58	3 31		n.a.
W17	13 25	20 49	0 3	21 3	0s 7	1 54	0 28	24 20	0 44	24 19	0 38	19 48	1 12	14 39	0 16	19 59	1 23	25 16	16 8	21 0	20 58	3 34		n.a.
T 18	13 5	23 51	1n 1	21 3	0 17	1 22	0 25	24 19	0 45	24 19	0 38	19 47	1 12	14 39	0 16	19 59	1 23	25 15	16 8	21 0	20 57	3 38		n.a.
F 19	12 45	25 46	2 5	21 2	0 28	0 51	0 22	24 17	0 46	24 19	0 38	19 45	1 12	14 40	0 16	19 59	1 23	25 15	16 8	21 0	20 56	3 41		n.a.
S 20	12 24	26 21	3 4	21 0	0 38	0 19	0 19	24 15	0 47	24 19	0 38	19 43	1 12	14 40	0 16	19 59	1 23	25 14	16 8	20 59	20 56	3 44		n.a.
S 21	12 3	25 25	3 55	20 56	0 47	0n13	0 16	24 13	0 48	24 19	0 38	19 41	1 12	14 41	0 16	19 59	1 23	25 14	16 8	20 57	20 55	3 47		n.a.
M22	11 42	22 52	4 33	20 50	0 56	0 45	0 13	24 11	0 49	24 19	0 38	19 40	1 12	14 41	0 16	19 59	1 23	25 13	16 8	20 56	20 54	3 50		n.a.
T 23	11 21	18 51	4 56	20 44	1 5	1 17	0 10	24 9	0 49	24 19	0 38	19 38	1 13	14 42	0 16	20 0	1 23	25 12	16 8	20 53	20 54	3 53		n.a.
W24	11 0	13 36	4 59	20 35	1 13	1 49	0 7	24 6	0 50	24 19	0 38	19 36	1 13	14 43	0 16	20 0	1 24	25 12	16 8	20 51	20 53	3 56		n.a.
T 25	10 38	7 31	4 42	20 26	1 21	2 21	0 4	24 3	0 51	24 19	0 38	19 34	1 13	14 43	0 16	20 0	1 24	25 11	16 8	20 49	20 53	4 0		n.a.
F 26	10 17	0 59	4 6	20 15	1 28	2 52	0 0	24 0	0 52	24 19	0 38	19 33	1 13	14 44	0 16	20 0	1 24	25 11	16 8	20 47	20 52	4 3		n.a.
S 27	9 55	5s34	3 14	20 2	1 35	3 24	0n 3	23 56	0 53	24 19	0 38	19 31	1 13	14 44	0 16	20 0	1 24	25 10	16 8	20 46	20 51	4 6		n.a.
S 28	9 33	11 45	2 10	19 48	1 41	3 56	0 6	23 52	0 54	24 19	0 38	19 29	1 13	14 45	0 16	20 0	1 24	25 10	16 8	20 45	20 51	4 9		n.a.
M29	9s11	17s10	0n58	19s32	1s47	4n27	0n 9	23s48	0s55	24n19	0n38	19s28	1s13	14n46	0s16	20s 0	1n24	25s 9	16s 8	20n45	20n50	4n12		n.a.

Julian Day Number = 1664109.5, Delta T = 03h24m07s
Ecliptic obliquity = 23°42'55, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°14'01, Lahiri = - 6°07'01 Julian Calendar 1 Feb. 157 BCE == Greg. Calendar 29 Jan. 157 BCE

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ASTRODIENST EPHEMERIS for the year 157 BCE
geocentric

MARCH 157 BCE (-156) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 22 24	7♓36'20	4♐34	11♒46	11♈58	15♑26	2°R41	8♒51	10♉ 8	4♐57	3♓49	1°R42	2♊ 7	18♈58	n.a.	T 1
W 2	10 26 20	8°35'26	18°12	13° 8	13° 9	16°12	2°D41	8°58	10°10	4°58	3°50	1♊42	2° 3	19° 5	n.a.	W 2
T 3	10 30 17	9°34'29	1♑34	14°31	14°21	16°57	2♋41	9° 4	10°12	4°58	3°52	1°41	2° 0	19°11	n.a.	T 3
F 4	10 34 13	10°33'32	14°40	15°56	15°33	17°43	2°42	9°11	10°14	4°58	3°53	1°37	1°57	19°18	n.a.	F 4
S 5	10 38 10	11°32'32	27°33	17°23	16°44	18°28	2°42	9°18	10°16	4°58	3°55	1°30	1°54	19°25	n.a.	S 5
S 6	10 42 6	12°31'30	10♒14	18°51	17°56	19°13	2°43	9°24	10°18	4°58	3°56	1°21	1°51	19°31	n.a.	S 6
M 7	10 46 3	13°30'26	22°45	20°21	19° 7	19°59	2°44	9°31	10°20	4°58	3°58	1° 9	1°48	19°38	n.a.	M 7
T 8	10 50 0	14°29'20	5♓ 6	21°53	20°18	20°44	2°45	9°37	10°23	4°59	3°59	0°56	1°44	19°45	n.a.	T 8
W 9	10 53 56	15°28'12	17°17	23°26	21°29	21°30	2°46	9°44	10°25	4°59	4° 1	0°42	1°41	19°51	n.a.	W 9
T 10	10 57 53	16°27'02	29°21	25° 1	22°40	22°15	2°47	9°50	10°27	4°R59	4° 2	0°30	1°38	19°58	n.a.	T 10
F 11	11 1 49	17°25'50	11♈17	26°37	23°51	23° 1	2°49	9°57	10°30	4°59	4° 4	0°19	1°35	20° 5	n.a.	F 11
S 12	11 5 46	18°24'35	23° 7	28°15	25° 2	23°46	2°51	10° 3	10°32	4°59	4° 5	0°11	1°32	20°11	n.a.	S 12
S 13	11 9 42	19°23'19	4♉55	29°54	26°13	24°32	2°53	10° 9	10°35	4°59	4° 7	0° 5	1°29	20°18	n.a.	S 13
M14	11 13 39	20°22'00	16°43	1♓35	27°24	25°17	2°55	10°15	10°37	4°58	4° 8	0° 2	1°25	20°25	n.a.	M14
T 15	11 17 35	21°20'39	28°36	3°17	28°34	26° 2	2°57	10°22	10°40	4°58	4° 9	0°D 1	1°22	20°31	n.a.	T 15
W16	11 21 32	22°19'15	10♊39	5° 1	29°45	26°48	3° 0	10°28	10°42	4°58	4°11	0° 2	1°19	20°38	n.a.	W16
T 17	11 25 28	23°17'50	22°56	6°47	0♉55	27°33	3° 2	10°34	10°45	4°58	4°12	0°R 2	1°16	20°45	n.a.	T 17
F 18	11 29 25	24°16'22	5♋33	8°34	2° 5	28°19	3° 5	10°40	10°47	4°58	4°14	0° 1	1°13	20°51	n.a.	F 18
S 19	11 33 22	25°14'52	18°35	10°23	3°15	29° 4	3° 8	10°46	10°50	4°57	4°15	29♉59	1° 9	20°58	n.a.	S 19
S 20	11 37 18	26°13'19	2♌ 5	12°13	4°25	29°49	3°12	10°52	10°53	4°57	4°17	29°54	1° 6	21° 5	n.a.	S 20
M21	11 41 15	27°11'44	16° 5	14° 5	5°35	0♒35	3°15	10°58	10°56	4°57	4°18	29°47	1° 3	21°11	n.a.	M21
T 22	11 45 11	28°10'08	0♍33	15°59	6°45	1°20	3°19	11° 3	10°58	4°56	4°19	29°39	1° 0	21°18	n.a.	T 22
W23	11 49 8	29° 8'28	15°25	17°54	7°55	2° 5	3°22	11° 9	11° 1	4°56	4°21	29°30	0°57	21°25	n.a.	W23
T 24	11 53 4	0♈ 6'47	0♎32	19°51	9° 4	2°51	3°26	11°15	11° 4	4°56	4°22	29°21	0°54	21°31	n.a.	T 24
F 25	11 57 1	1° 5'04	15°44	21°49	10°14	3°36	3°30	11°20	11° 7	4°55	4°23	29°13	0°50	21°38	n.a.	F 25
S 26	12 0 57	2° 3'19	0♏52	23°49	11°23	4°21	3°35	11°26	11°10	4°55	4°25	29° 8	0°47	21°45	n.a.	S 26
S 27	12 4 54	3° 1'33	15°45	25°51	12°32	5° 7	3°39	11°32	11°13	4°54	4°26	29° 6	0°44	21°51	n.a.	S 27
M28	12 8 51	3°59'45	0♐19	27°54	13°41	5°52	3°44	11°37	11°16	4°54	4°28	29°D 5	0°41	21°58	n.a.	M28
T 29	12 12 47	4°57'55	14°28	29°58	14°50	6°37	3°48	11°42	11°19	4°53	4°29	29° 5	0°38	22° 5	n.a.	T 29
W30	12 16 44	5°56'04	28°13	2♈ 3	15°59	7°23	3°53	11°48	11°22	4°52	4°30	29° 6	0°35	22°12	n.a.	W30
T 31	12 20 40	6♈54'11	11♑35	4♈10	17♉ 8	8♒ 8	3♋58	11♒53	11♉25	4♐52	4♓31	29°R 6	0♊31	22♈18	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	8 s49	21 s33	0 s15	19 s15	1 s53	4n58	0n13	23 s44	0 s56	24n19	0n38	19 s26	1 s13	14n46	0 s16	20 s 0	1n24	25 s 9	16 s 8	20n44	20n49	4n15			n.a.
W 2	8 27	24 37	1 26	18 57	1 58	5 30	0 16	23 39	0 56	24 19	0 38	19 24	1 13	14 47	0 16	20 0	1 24	25 8	16 8	20 44	20 49	4 18			n.a.
T 3	8 4	26 13	2 31	18 36	2 2	6 1	0 19	23 34	0 57	24 19	0 38	19 23	1 14	14 48	0 16	20 0	1 24	25 7	16 8	20 44	20 48	4 22			n.a.
F 4	7 42	26 19	3 26	18 15	2 6	6 32	0 22	23 29	0 58	24 19	0 38	19 21	1 14	14 48	0 16	20 0	1 24	25 7	16 8	20 43	20 47	4 25			n.a.
S 5	7 19	24 58	4 10	17 52	2 10	7 3	0 26	23 24	0 59	24 19	0 38	19 19	1 14	14 49	0 16	20 0	1 24	25 6	16 8	20 42	20 47	4 28			n.a.
S 6	6 56	22 22	4 41	17 27	2 13	7 34	0 29	23 18	1 0	24 19	0 38	19 18	1 14	14 50	0 16	20 0	1 24	25 6	16 8	20 40	20 46	4 31			n.a.
M 7	6 33	18 46	4 57	17 1	2 16	8 4	0 32	23 13	1 1	24 19	0 38	19 16	1 14	14 50	0 16	20 0	1 24	25 5	16 8	20 38	20 46	4 34			n.a.
T 8	6 10	14 23	5 0	16 33	2 18	8 34	0 36	23 7	1 2	24 19	0 38	19 14	1 14	14 51	0 16	20 0	1 24	25 5	16 8	20 35	20 45	4 37			n.a.
W 9	5 47	9 29	4 48	16 3	2 19	9 5	0 39	23 0	1 2	24 19	0 38	19 13	1 14	14 52	0 16	20 0	1 24	25 4	16 8	20 32	20 44	4 40			n.a.
T 10	5 24	4 17	4 24	15 32	2 21	9 35	0 43	22 54	1 3	24 19	0 38	19 11	1 15	14 53	0 16	20 0	1 24	25 4	16 8	20 29	20 44	4 44			n.a.
F 11	5 1	1n 1	3 48	15 0	2 21	10 4	0 46	22 47	1 4	24 19	0 38	19 9	1 15	14 54	0 16	20 0	1 24	25 3	16 8	20 27	20 43	4 47			n.a.
S 12	4 38	6 16	3 3	14 26	2 22	10 34	0 49	22 40	1 5	24 19	0 38	19 8	1 15	14 54	0 16	20 0	1 24	25 3	16 9	20 25	20 42	4 50			n.a.
S 13	4 15	11 17	2 9	13 50	2 21	11 3	0 53	22 33	1 6	24 19	0 38	19 6	1 15	14 55	0 16	20 0	1 24	25 2	16 9	20 24	20 42	4 53			n.a.
M14	3 52	15 54	1 10	13 13	2 20	11 32	0 56	22 25	1 7	24 19	0 38	19 5	1 15	14 56	0 16	20 0	1 24	25 2	16 9	20 24	20 41	4 56			n.a.
T 15	3 28	19 57	0 8	12 34	2 19	12 1	1 0	22 17	1 8	24 19	0 38	19 3	1 15	14 57	0 16	19 59	1 24	25 2	16 9	20 23	20 40	4 59			n.a.
W16	3 5	23 14	0n56	11 54	2 17	12 29	1 3	22 10	1 9	24 19	0 38	19 2	1 15	14 58	0 16	19 59	1 24	25 1	16 9	20 23	20 40	5 2			n.a.
T 17	2 41	25 30	1 59	11 12	2 15	12 58	1 6	22 1	1 9	24 19	0 38	19 0	1 16	14 58	0 16	19 59	1 24	25 1	16 9	20 23	20 39	5 5			n.a.
F 18	2 18	26 33	2 58	10 29	2 12	13 26	1 10	21 53	1 10	24 19	0 38	18 59	1 16	14 59	0 16	19 59	1 24	25 0	16 9	20 23	20 38	5 9			n.a.
S 19	1 55	26 11	3 49	9 44	2 8	13 53	1 13	21 44	1 11	24 19	0 38	18 57	1 16	15 0	0 16	19 59	1 24	25 0	16 9	20 23	20 38	5 12			n.a.
S 20	1 31	24 18	4 29	8 58	2 4	14 20	1 16	21 36	1 12	24 19	0 38	18 56	1 16	15 1	0 15	19 59	1 24	24 59	16 9	20 22	20 37	5 15			n.a.
M21	1 8	20 53	4 56	8 10	2 0	14 47	1 20	21 27	1 13	24 19	0 38	18 54	1 16	15 2	0 15	19 59	1 25	24 59	16 10	20 20	20 36	5 18			n.a.
T 22	0 44	16 8	5 4	7 21	1 55	15 14	1 23	21 17	1 14	24 19	0 38	18 53	1 16	15 3	0 15	19 59	1 25	24 59	16 10	20 18	20 36	5 21			n.a.
W23	0 21	10 18	4 53	6 31	1 49	15 40	1 26	21 8	1 14	24 18	0 38	18 51	1 16	15 4	0 15	19 59	1 25	24 58	16 10	20 16	20 35	5 24			n.a.
T 24	0n 3	3 46	4 21	5 39	1 43	16 6	1 30	20 58	1 15	24 18	0 38	18 50	1 17	15 5	0 15	19 59	1 25	24 58	16 10	20 15	20 34	5 27			n.a.
F 25	0 26	3 s 2	3 30	4 45	1 37	16 31	1 33	20 48	1 16	24 18	0 38	18 48	1 17	15 5	0 15	19 59	1 25	24 57	16 10	20 13	20 34	5 31			n.a.
S 26	0 50	9 39	2 25	3 51	1 30	16 56	1 36	20 38	1 17	24 18	0 38	18 47	1 17	15 6	0 15	19 58	1 25	24 57	16 10	20 12	20 33	5 34			n.a.
S 27	1 13	15 37	1 11	2 55	1 22	17 21	1 39	20 28	1 18	24 18	0 38	18 45	1 17	15 7	0 15	19 58	1 25	24 57	16 11	20 11	20 32	5 37			n.a.
M28	1 36	20 33	0 s 7	1 58	1 14	17 45	1 42	20 17	1 19	24 18	0 38	18 44	1 17	15 8	0 15	19 58	1 25	24 56	16 11	20 11	20 32	5 40			n.a.
T 29	2 0	24 9	1 22	1 1	1 5	18 9	1 45	20 7	1 19	24 18	0 38	18 43	1 17	15 9	0 15	19 58	1 25	24 56	16 11	20 11	20 31	5 43			n.a.
W30	2 23	26 12	2 30	0 2	0 56	18 32	1 48	19 56	1 20	24 18	0 38	18 41	1 18	15 10	0 15	19 58	1 25	24 56	16 11	20 11	20 30	5 46			n.a.
T 31	2n46	26 s39	3 s28	0n57	0 s47	18n55	1n51	19 s45	1 s21	24n17	0n38	18 s40	1 s18	15n11	0 s15	19 s58	1n25	24 s55	16 s11	20n11	20n30	5n49			n.a.

Julian Day Number = 1664138.5, Delta T = 03h24m06s
Ecliptic obliquity = 23°42'56, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°13'57, Lahiri = - 6°06'57 Julian Calendar 1 March 157 BCE == Greg. Calendar 27 Feb. 157 BCE

The year -156 astronomical counting style corresponds to year 157 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 157 BCE
geocentric

APRIL 157 BCE (-156) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 24 37	7♈52'17	24♐37	6♈18	18♉17	8♒53	4♋ 3	11♒58	11♉28	4°R51	4♓33	29°R 5	0♊28	22♈25	n.a.	F 1
S 2	12 28 33	8°50'21	7♒21	8°26	19°25	9°38	4° 9	12° 3	11°31	4♐50	4°34	29♉ 2	0°25	22°32	n.a.	S 2
S 3	12 32 30	9°48'24	19°50	10°35	20°33	10°24	4°14	12° 8	11°34	4°50	4°35	28°56	0°22	22°38	n.a.	S 3
M 4	12 36 26	10°46'25	2♓ 8	12°45	21°41	11° 9	4°20	12°13	11°37	4°49	4°37	28°48	0°19	22°45	n.a.	M 4
T 5	12 40 23	11°44'25	14°16	14°55	22°49	11°54	4°26	12°18	11°40	4°48	4°38	28°40	0°15	22°52	n.a.	T 5
W 6	12 44 20	12°42'23	26°17	17° 4	23°57	12°39	4°32	12°23	11°43	4°47	4°39	28°31	0°12	22°58	n.a.	W 6
T 7	12 48 16	13°40'19	8♈12	19°14	25° 5	13°24	4°38	12°28	11°46	4°46	4°40	28°23	0° 9	23° 5	n.a.	T 7
F 8	12 52 13	14°38'14	20° 2	21°22	26°13	14° 9	4°44	12°33	11°50	4°46	4°41	28°16	0° 6	23°12	n.a.	F 8
S 9	12 56 9	15°36'07	1♉51	23°30	27°20	14°54	4°51	12°37	11°53	4°45	4°43	28°11	0° 3	23°18	n.a.	S 9
S 10	13 0 6	16°33'59	13°39	25°37	28°27	15°39	4°57	12°42	11°56	4°44	4°44	28° 8	29♉59	23°25	n.a.	S 10
M11	13 4 2	17°31'49	25°29	27°42	29°34	16°24	5° 4	12°46	11°59	4°43	4°45	28°D 6	29°56	23°32	n.a.	M11
T 12	13 7 59	18°29'37	7♊26	29°45	0♊41	17° 9	5°11	12°51	12° 3	4°42	4°46	28° 7	29°53	23°38	n.a.	T 12
W13	13 11 55	19°27'23	19°31	1♉46	1°48	17°54	5°18	12°55	12° 6	4°41	4°47	28° 8	29°50	23°45	n.a.	W13
T 14	13 15 52	20°25'08	1♋49	3°45	2°55	18°39	5°25	12°59	12° 9	4°40	4°48	28°10	29°47	23°52	n.a.	T 14
F 15	13 19 49	21°22'51	14°26	5°42	4° 1	19°24	5°32	13° 3	12°13	4°39	4°50	28°11	29°44	23°58	n.a.	F 15
S 16	13 23 45	22°20'33	27°25	7°36	5° 7	20° 9	5°39	13° 7	12°16	4°38	4°51	28°R11	29°40	24° 5	n.a.	S 16
S 17	13 27 42	23°18'12	10♌49	9°27	6°13	20°53	5°47	13°11	12°19	4°37	4°52	28°10	29°37	24°12	n.a.	S 17
M18	13 31 38	24°15'50	24°41	11°15	7°19	21°38	5°54	13°15	12°23	4°35	4°53	28° 7	29°34	24°18	n.a.	M18
T 19	13 35 35	25°13'26	9♍ 1	13° 1	8°25	22°23	6° 2	13°19	12°26	4°34	4°54	28° 3	29°31	24°25	n.a.	T 19
W20	13 39 31	26°11'01	23°46	14°43	9°30	23° 7	6°10	13°23	12°30	4°33	4°55	27°59	29°28	24°32	n.a.	W20
T 21	13 43 28	27° 8'34	8♎50	16°22	10°35	23°52	6°18	13°27	12°33	4°32	4°56	27°54	29°25	24°38	n.a.	T 21
F 22	13 47 24	28° 6'05	24° 3	17°58	11°40	24°37	6°26	13°30	12°36	4°31	4°57	27°51	29°21	24°45	n.a.	F 22
S 23	13 51 21	29° 3'36	9♏17	19°31	12°45	25°21	6°34	13°34	12°40	4°30	4°58	27°48	29°18	24°52	n.a.	S 23
S 24	13 55 17	0♉ 1'05	24°21	21° 1	13°49	26° 6	6°43	13°37	12°43	4°28	4°59	27°D47	29°15	24°58	n.a.	S 24
M25	13 59 14	0°58'33	9♐ 7	22°27	14°53	26°50	6°51	13°40	12°47	4°27	5° 0	27°48	29°12	25° 5	n.a.	M25
T 26	14 3 11	1°56'00	23°29	23°50	15°58	27°34	7° 0	13°44	12°50	4°26	5° 1	27°49	29° 9	25°12	n.a.	T 26
W27	14 7 7	2°53'27	7♑25	25°10	17° 1	28°19	7° 8	13°47	12°54	4°24	5° 1	27°50	29° 6	25°18	n.a.	W27
T 28	14 11 4	3°50'52	20°55	26°26	18° 5	29° 3	7°17	13°50	12°57	4°23	5° 2	27°52	29° 2	25°25	n.a.	T 28
F 29	14 15 0	4°48'17	4♒ 0	27°39	19° 8	29°47	7°26	13°53	13° 1	4°22	5° 3	27°R52	28°59	25°32	n.a.	F 29
S 30	14 18 57	5♉45'41	16♒43	28♉48	20♊11	0♓32	7♋35	13♒56	13♉ 4	4♐20	5♓ 4	27♉52	28♉56	25♈38	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	3n 9	25s36	4s14	1n57	0s37	19n18	1n54	19s34	1s22	24n17	0n38	18s39	1s18	15n12	0s15	19s58	1n25	24s55	16s12	20n11	20n29	5n53		n.a.
S 2	3 33	23 15	4 46	2 58	0 27	19 40	1 57	19 22	1 23	24 17	0 38	18 37	1 18	15 13	0 15	19 57	1 25	24 55	16 12	20 10	20 28	5 56		n.a.
S 3	3 56	19 49	5 3	3 59	0 17	20 1	2 0	19 11	1 23	24 17	0 38	18 36	1 18	15 14	0 15	19 57	1 25	24 54	16 12	20 9	20 28	5 59		n.a.
M 4	4 19	15 36	5 7	5 0	0 6	20 22	2 3	18 59	1 24	24 17	0 38	18 35	1 18	15 15	0 15	19 57	1 25	24 54	16 12	20 7	20 27	6 2		n.a.
T 5	4 42	10 48	4 56	6 0	0n 4	20 43	2 5	18 47	1 25	24 16	0 38	18 34	1 19	15 16	0 15	19 57	1 25	24 54	16 12	20 6	20 26	6 5		n.a.
W 6	5 5	5 39	4 32	7 1	0 15	21 3	2 8	18 35	1 26	24 16	0 38	18 32	1 19	15 17	0 15	19 57	1 25	24 54	16 13	20 4	20 26	6 8		n.a.
T 7	5 27	0 20	3 57	8 0	0 26	21 22	2 11	18 22	1 27	24 16	0 38	18 31	1 19	15 18	0 15	19 57	1 25	24 53	16 13	20 2	20 25	6 11		n.a.
F 8	5 50	4n58	3 11	8 59	0 36	21 41	2 13	18 10	1 27	24 16	0 38	18 30	1 19	15 19	0 15	19 56	1 25	24 53	16 13	20 0	20 24	6 15		n.a.
S 9	6 13	10 6	2 18	9 57	0 47	22 0	2 16	17 57	1 28	24 16	0 38	18 29	1 19	15 20	0 15	19 56	1 25	24 53	16 13	19 59	20 24	6 18		n.a.
S 10	6 35	14 53	1 18	10 54	0 57	22 17	2 18	17 45	1 29	24 15	0 38	18 28	1 20	15 21	0 15	19 56	1 25	24 53	16 14	19 58	20 23	6 21		n.a.
M11	6 57	19 8	0 14	11 49	1 7	22 35	2 21	17 32	1 30	24 15	0 38	18 27	1 20	15 22	0 15	19 56	1 25	24 52	16 14	19 58	20 22	6 24		n.a.
T 12	7 20	22 38	0n51	12 42	1 17	22 51	2 23	17 19	1 31	24 15	0 38	18 26	1 20	15 23	0 15	19 56	1 25	24 52	16 14	19 58	20 22	6 27		n.a.
W13	7 42	25 11	1 54	13 34	1 26	23 8	2 25	17 5	1 31	24 14	0 38	18 25	1 20	15 24	0 15	19 55	1 25	24 52	16 14	19 58	20 21	6 30		n.a.
T 14	8 4	26 36	2 53	14 23	1 34	23 23	2 27	16 52	1 32	24 14	0 38	18 24	1 20	15 25	0 15	19 55	1 25	24 52	16 15	19 59	20 20	6 33		n.a.
F 15	8 26	26 40	3 46	15 11	1 42	23 38	2 29	16 38	1 33	24 14	0 38	18 23	1 21	15 26	0 15	19 55	1 25	24 52	16 15	19 59	20 20	6 36		n.a.
S 16	8 48	25 18	4 29	15 56	1 50	23 53	2 31	16 25	1 34	24 14	0 38	18 22	1 21	15 27	0 15	19 55	1 25	24 51	16 15	19 59	20 19	6 40		n.a.
S 17	9 9	22 30	4 58	16 39	1 57	24 7	2 33	16 11	1 34	24 13	0 38	18 21	1 21	15 28	0 15	19 54	1 25	24 51	16 15	19 59	20 18	6 43		n.a.
M18	9 31	18 20	5 12	17 20	2 3	24 20	2 35	15 57	1 35	24 13	0 38	18 20	1 21	15 29	0 15	19 54	1 25	24 51	16 16	19 58	20 17	6 46		n.a.
T 19	9 52	13 0	5 7	17 58	2 9	24 32	2 37	15 43	1 36	24 13	0 38	18 19	1 21	15 30	0 15	19 54	1 25	24 51	16 16	19 57	20 17	6 49		n.a.
W20	10 13	6 48	4 41	18 34	2 13	24 44	2 38	15 29	1 36	24 12	0 38	18 18	1 21	15 32	0 15	19 54	1 25	24 51	16 16	19 56	20 16	6 52		n.a.
T 21	10 34	0 5	3 57	19 7	2 17	24 56	2 40	15 15	1 37	24 12	0 38	18 17	1 22	15 33	0 15	19 54	1 25	24 51	16 16	19 55	20 15	6 55		n.a.
F 22	10 55	6s44	2 54	19 38	2 21	25 6	2 41	15 0	1 38	24 11	0 38	18 16	1 22	15 34	0 15	19 53	1 25	24 51	16 17	19 54	20 15	6 58		n.a.
S 23	11 16	13 11	1 40	20 6	2 23	25 17	2 43	14 46	1 39	24 11	0 38	18 15	1 22	15 35	0 15	19 53	1 25	24 50	16 17	19 54	20 14	7 1		n.a.
S 24	11 36	18 46	0 19	20 32	2 25	25 26	2 44	14 31	1 39	24 11	0 38	18 14	1 22	15 36	0 15	19 53	1 25	24 50	16 17	19 54	20 13	7 5		n.a.
M25	11 57	23 5	1s 2	20 56	2 26	25 35	2 45	14 16	1 40	24 10	0 38	18 14	1 23	15 37	0 15	19 53	1 26	24 50	16 18	19 54	20 13	7 8		n.a.
T 26	12 17	25 50	2 17	21 18	2 26	25 43	2 46	14 2	1 41	24 10	0 38	18 13	1 23	15 38	0 15	19 52	1 26	24 50	16 18	19 54	20 12	7 11		n.a.
W27	12 37	26 51	3 21	21 37	2 25	25 51	2 47	13 47	1 41	24 9	0 38	18 12	1 23	15 39	0 15	19 52	1 26	24 50	16 18	19 54	20 11	7 14		n.a.
T 28	12 57	26 13	4 12	21 54	2 23	25 57	2 48	13 32	1 42	24 9	0 38	18 11	1 23	15 40	0 15	19 52	1 26	24 50	16 19	19 55	20 11	7 17		n.a.
F 29	13 16	24 8	4 48	22 9	2 21	26 4	2 48	13 16	1 43	24 8	0 38	18 11	1 23	15 41	0 15	19 52	1 26	24 50	16 19	19 55	20 10	7 20		n.a.
S 30	13n36	20s54	5s 9	22n21	2n17	26n 9	2n49	13s 1	1s43	24n 8	0n38	18s10	1s24	15n42	0s15	19s51	1n26	24s50	16s19	19n55	20n 9	7n23		n.a.

Julian Day Number = 1664169.5, Delta T = 03h24m05s
Ecliptic obliquity = 23°42'56, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°13'53, Lahiri = - 6°06'52 Julian Calendar 1 Apr. 157 BCE == Greg. Calendar 29 March 157 BCE

The year -156 astronomical counting style corresponds to year 157 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 157 BCE
geocentric

MAY 157 BCE (-156) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 22 53	6♉43'04	29♒ 9	29♉54	21♊14	1♓16	7♋44	13♒59	13♉ 8	4°R19	5♓ 5	27°R50	28♉53	25♈45	n.a.	S 1
M 2	14 26 50	7°40'26	11♓20	0♊56	22°16	2° 0	7°53	14° 1	13°11	4♐18	5° 6	27♉48	28°50	25°52	n.a.	M 2
T 3	14 30 47	8°37'48	23°22	1°54	23°19	2°44	8° 3	14° 4	13°15	4°16	5° 7	27°45	28°46	25°58	n.a.	T 3
W 4	14 34 43	9°35'09	5♈16	2°49	24°20	3°28	8°12	14° 7	13°18	4°15	5° 7	27°42	28°43	26° 5	n.a.	W 4
T 5	14 38 40	10°32'29	17° 6	3°39	25°22	4°12	8°22	14° 9	13°22	4°13	5° 8	27°40	28°40	26°12	n.a.	T 5
F 6	14 42 36	11°29'48	28°54	4°26	26°23	4°56	8°31	14°11	13°25	4°12	5° 9	27°37	28°37	26°18	n.a.	F 6
S 7	14 46 33	12°27'06	10♉43	5° 9	27°24	5°40	8°41	14°14	13°29	4°11	5° 9	27°36	28°34	26°25	n.a.	S 7
S 8	14 50 29	13°24'24	22°35	5°47	28°25	6°23	8°51	14°16	13°32	4° 9	5°10	27°D35	28°31	26°32	n.a.	S 8
M 9	14 54 26	14°21'41	4♊32	6°22	29°25	7° 7	9° 1	14°18	13°36	4° 8	5°11	27°35	28°27	26°38	n.a.	M 9
T 10	14 58 22	15°18'57	16°36	6°52	0♋25	7°51	9°11	14°20	13°39	4° 6	5°11	27°36	28°24	26°45	n.a.	T 10
W11	15 2 19	16°16'12	28°51	7°17	1°25	8°34	9°21	14°22	13°43	4° 5	5°12	27°37	28°21	26°52	n.a.	W11
T 12	15 6 16	17°13'26	11♋18	7°39	2°24	9°18	9°31	14°23	13°46	4° 3	5°13	27°38	28°18	26°58	n.a.	T 12
F 13	15 10 12	18°10'40	24° 0	7°55	3°23	10° 1	9°41	14°25	13°50	4° 2	5°13	27°39	28°15	27° 5	n.a.	F 13
S 14	15 14 9	19° 7'53	7♌ 1	8° 8	4°21	10°45	9°52	14°27	13°53	4° 0	5°14	27°39	28°12	27°12	n.a.	S 14
S 15	15 18 5	20° 5'04	20°23	8°15	5°19	11°28	10° 2	14°28	13°57	3°58	5°14	27°R39	28° 8	27°18	n.a.	S 15
M16	15 22 2	21° 2'15	4♍ 7	8°R18	6°17	12°11	10°13	14°29	14° 0	3°57	5°15	27°39	28° 5	27°25	n.a.	M16
T 17	15 25 58	21°59'25	18°15	8°17	7°14	12°54	10°23	14°31	14° 4	3°55	5°15	27°39	28° 2	27°32	n.a.	T 17
W18	15 29 55	22°56'34	2♎45	8°11	8°11	13°37	10°34	14°32	14° 7	3°54	5°16	27°38	27°59	27°38	n.a.	W18
T 19	15 33 51	23°53'42	17°33	8° 1	9° 7	14°20	10°45	14°33	14°11	3°52	5°16	27°38	27°56	27°45	n.a.	T 19
F 20	15 37 48	24°50'50	2♏33	7°46	10° 3	15° 3	10°56	14°34	14°14	3°51	5°17	27°38	27°52	27°52	n.a.	F 20
S 21	15 41 45	25°47'58	17°37	7°28	10°58	15°46	11° 7	14°35	14°18	3°49	5°17	27°38	27°49	27°58	n.a.	S 21
S 22	15 45 41	26°45'04	2♐36	7° 6	11°53	16°29	11°18	14°36	14°21	3°47	5°18	27°D38	27°46	28° 5	n.a.	S 22
M23	15 49 38	27°42'11	17°23	6°41	12°47	17°11	11°29	14°36	14°25	3°46	5°18	27°R38	27°43	28°12	n.a.	M23
T 24	15 53 34	28°39'18	1♑50	6°12	13°40	17°54	11°40	14°37	14°28	3°44	5°18	27°37	27°40	28°18	n.a.	T 24
W25	15 57 31	29°36'24	15°53	5°41	14°33	18°36	11°51	14°37	14°32	3°43	5°19	27°37	27°37	28°25	n.a.	W25
T 26	16 1 27	0♊33'31	29°30	5° 8	15°26	19°19	12° 2	14°38	14°35	3°41	5°19	27°37	27°33	28°32	n.a.	T 26
F 27	16 5 24	1°30'37	12♒41	4°34	16°18	20° 1	12°14	14°38	14°39	3°39	5°19	27°37	27°30	28°38	n.a.	F 27
S 28	16 9 20	2°27'44	25°29	3°59	17° 9	20°43	12°25	14°38	14°42	3°38	5°20	27°37	27°27	28°45	n.a.	S 28
S 29	16 13 17	3°24'50	7♓56	3°23	17°59	21°26	12°37	14°R38	14°45	3°36	5°20	27°D37	27°24	28°52	n.a.	S 29
M30	16 17 14	4°21'57	20° 6	2°48	18°49	22° 8	12°48	14°38	14°49	3°34	5°20	27°37	27°21	28°58	n.a.	M30
T 31	16 21 10	5♊19'04	2♈ 5	2♊13	19♋38	22♓50	13♋ 0	14♒38	14♉52	3♐33	5♓20	27♉37	27♉18	29♈ 5	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13n55	16s48	5s15	22n32	2n13	26n14	2n49	12s46	1s44	24n 7	0n38	18s10	1s24	15n43	0s15	19s51	1n26	24s50	16s20	19n54	20n 8	7n27		n.a.
M 2	14 14	12 6	5 6	22 40	2 8	26 19	2 50	12 30	1 45	24 7	0 38	18 9	1 24	15 44	0 15	19 51	1 26	24 50	16 20	19 54	20 8	7 30		n.a.
T 3	14 33	7 0	4 44	22 47	2 2	26 22	2 50	12 15	1 45	24 6	0 38	18 8	1 24	15 46	0 15	19 50	1 26	24 50	16 20	19 53	20 7	7 33		n.a.
W 4	14 51	1 42	4 10	22 51	1 56	26 25	2 50	11 59	1 46	24 5	0 38	18 8	1 24	15 47	0 15	19 50	1 26	24 50	16 21	19 53	20 6	7 36		n.a.
T 5	15 9	3n38	3 25	22 54	1 48	26 28	2 50	11 44	1 46	24 5	0 38	18 7	1 25	15 48	0 15	19 50	1 26	24 50	16 21	19 52	20 6	7 39		n.a.
F 6	15 27	8 50	2 32	22 55	1 40	26 29	2 50	11 28	1 47	24 4	0 38	18 7	1 25	15 49	0 15	19 50	1 26	24 50	16 21	19 51	20 5	7 42		n.a.
S 7	15 45	13 45	1 32	22 54	1 31	26 31	2 49	11 12	1 48	24 4	0 38	18 6	1 25	15 50	0 15	19 49	1 26	24 50	16 22	19 51	20 4	7 45		n.a.
S 8	16 3	18 11	0 28	22 51	1 21	26 31	2 49	10 56	1 48	24 3	0 38	18 6	1 25	15 51	0 15	19 49	1 26	24 50	16 22	19 51	20 3	7 48		n.a.
M 9	16 20	21 55	0n38	22 46	1 10	26 31	2 48	10 41	1 49	24 2	0 38	18 6	1 25	15 52	0 15	19 49	1 26	24 50	16 22	19 51	20 3	7 51		n.a.
T 10	16 37	24 45	1 43	22 40	0 59	26 30	2 47	10 25	1 49	24 2	0 38	18 5	1 26	15 53	0 15	19 48	1 26	24 50	16 23	19 51	20 2	7 55		n.a.
W11	16 54	26 27	2 45	22 32	0 46	26 29	2 46	10 9	1 50	24 1	0 38	18 5	1 26	15 54	0 15	19 48	1 26	24 50	16 23	19 51	20 1	7 58		n.a.
T 12	17 10	26 52	3 39	22 23	0 33	26 27	2 45	9 53	1 50	24 0	0 38	18 5	1 26	15 55	0 15	19 48	1 26	24 50	16 23	19 52	20 1	8 1		n.a.
F 13	17 26	25 53	4 24	22 12	0 20	26 24	2 44	9 36	1 51	23 59	0 38	18 4	1 26	15 56	0 15	19 48	1 26	24 51	16 24	19 52	20 0	8 4		n.a.
S 14	17 42	23 31	4 57	22 0	0 5	26 21	2 43	9 20	1 52	23 59	0 38	18 4	1 27	15 57	0 15	19 47	1 26	24 51	16 24	19 52	19 59	8 7		n.a.
S 15	17 58	19 49	5 15	21 47	0s10	26 17	2 41	9 4	1 52	23 58	0 38	18 4	1 27	15 58	0 15	19 47	1 26	24 51	16 24	19 52	19 58	8 10		n.a.
M16	18 13	14 59	5 15	21 32	0 25	26 13	2 39	8 48	1 53	23 57	0 38	18 4	1 27	15 59	0 15	19 47	1 26	24 51	16 25	19 52	19 58	8 13		n.a.
T 17	18 29	9 14	4 57	21 16	0 41	26 8	2 38	8 32	1 53	23 56	0 38	18 3	1 27	16 1	0 15	19 46	1 26	24 51	16 25	19 52	19 57	8 16		n.a.
W18	18 43	2 52	4 20	20 59	0 57	26 3	2 36	8 15	1 54	23 55	0 38	18 3	1 27	16 2	0 15	19 46	1 26	24 51	16 25	19 52	19 56	8 19		n.a.
T 19	18 58	3s49	3 25	20 41	1 14	25 57	2 33	7 59	1 54	23 55	0 38	18 3	1 28	16 3	0 15	19 46	1 26	24 51	16 26	19 52	19 56	8 23		n.a.
F 20	19 12	10 23	2 15	20 22	1 30	25 50	2 31	7 43	1 55	23 54	0 38	18 3	1 28	16 4	0 15	19 46	1 26	24 51	16 26	19 51	19 55	8 26		n.a.
S 21	19 26	16 24	0 55	20 3	1 47	25 43	2 28	7 26	1 55	23 53	0 38	18 3	1 28	16 5	0 15	19 45	1 26	24 52	16 27	19 51	19 54	8 29		n.a.
S 22	19 39	21 22	0s28	19 43	2 3	25 36	2 26	7 10	1 56	23 52	0 38	18 3	1 28	16 6	0 15	19 45	1 26	24 52	16 27	19 51	19 53	8 32		n.a.
M23	19 53	24 54	1 48	19 23	2 20	25 27	2 23	6 54	1 56	23 51	0 38	18 3	1 29	16 7	0 15	19 45	1 26	24 52	16 27	19 51	19 53	8 35		n.a.
T 24	20 5	26 41	2 59	19 2	2 36	25 19	2 19	6 37	1 56	23 50	0 38	18 3	1 29	16 8	0 15	19 44	1 26	24 52	16 28	19 51	19 52	8 38		n.a.
W25	20 18	26 41	3 57	18 42	2 51	25 10	2 16	6 21	1 57	23 49	0 38	18 3	1 29	16 9	0 15	19 44	1 26	24 52	16 28	19 51	19 51	8 41		n.a.
T 26	20 30	25 3	4 40	18 22	3 5	25 0	2 13	6 4	1 57	23 48	0 38	18 3	1 29	16 10	0 15	19 44	1 26	24 53	16 28	19 51	19 50	8 44		n.a.
F 27	20 42	22 5	5 7	18 2	3 19	24 50	2 9	5 48	1 58	23 47	0 38	18 3	1 30	16 11	0 15	19 43	1 26	24 53	16 29	19 51	19 50	8 47		n.a.
S 28	20 54	18 8	5 17	17 43	3 32	24 40	2 5	5 31	1 58	23 46	0 38	18 4	1 30	16 12	0 15	19 43	1 26	24 53	16 29	19 51	19 49	8 51		n.a.
S 29	21 5	13 30	5 12	17 25	3 43	24 29	2 1	5 15	1 59	23 45	0 38	18 4	1 30	16 13	0 15	19 43	1 26	24 53	16 30	19 51	19 48	8 54		n.a.
M30	21 16	8 27	4 53	17 8	3 54	24 18	1 56	4 59	1 59	23 44	0 38	18 4	1 30	16 14	0 15	19 43	1 26	24 54	16 30	19 51	19 48	8 57		n.a.
T 31	21n26	3s 9	4s22	16n53	4s 3	24n 6	1n52	4s42	1s59	23n43	0n39	18s 4	1s30	16n15	0s15	19s42	1n26	24s54	16s30	19n51	19n47	9n 0		n.a.

Julian Day Number = 1664199.5, Delta T = 03h24m04s
Ecliptic obliquity = 23°42'56, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°13'49, Lahiri = - 6°06'48 Julian Calendar 1 May 157 BCE == Greg. Calendar 28 Apr. 157 BCE

The year -156 astronomical counting style corresponds to year 157 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 157 BCE
geocentric

JUNE 157 BCE (-156) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 25 7	6♊16'11	13♈57	1°R41	20♋27	23♓31	13♋11	14°R38	14♉56	3°R31	5♓20	27♉38	27♉14	29♈12	n.a.	W 1
T 2	16 29 3	7°13'19	25°45	1♊10	21°14	24°13	13°23	14♒38	14°59	3♐30	5°21	27°39	27°11	29°18	n.a.	T 2
F 3	16 33 0	8°10'26	7♉34	0°41	22° 1	24°55	13°35	14°37	15° 2	3°28	5°21	27°40	27° 8	29°25	n.a.	F 3
S 4	16 36 56	9° 7'34	19°27	0°16	22°47	25°36	13°47	14°37	15° 5	3°26	5°21	27°41	27° 5	29°32	n.a.	S 4
S 5	16 40 53	10° 4'42	1♊25	29♉55	23°33	26°18	13°59	14°36	15° 9	3°25	5°21	27°R41	27° 2	29°38	n.a.	S 5
M 6	16 44 50	11° 1'50	13°33	29°37	24°17	26°59	14°11	14°35	15°12	3°23	5°21	27°40	26°58	29°45	n.a.	M 6
T 7	16 48 46	11°58'59	25°51	29°24	25° 0	27°40	14°23	14°35	15°15	3°22	5°21	27°39	26°55	29°52	n.a.	T 7
W 8	16 52 43	12°56'08	8♋21	29°15	25°43	28°21	14°35	14°34	15°19	3°20	5°R21	27°37	26°52	29°58	n.a.	W 8
T 9	16 56 39	13°53'16	21° 4	29°D11	26°24	29° 2	14°47	14°33	15°22	3°18	5°21	27°35	26°49	0♉ 5	n.a.	T 9
F 10	17 0 36	14°50'25	4♌ 0	29°12	27° 5	29°43	14°59	14°32	15°25	3°17	5°21	27°33	26°46	0°12	n.a.	F 10
S 11	17 4 32	15°47'34	17°12	29°18	27°44	0♈24	15°11	14°30	15°28	3°15	5°21	27°30	26°43	0°18	n.a.	S 11
S 12	17 8 29	16°44'43	0♍40	29°30	28°22	1° 5	15°23	14°29	15°31	3°14	5°21	27°29	26°39	0°25	n.a.	S 12
M13	17 12 25	17°41'52	14°23	29°46	28°59	1°45	15°36	14°28	15°34	3°12	5°21	27°D28	26°36	0°32	n.a.	M13
T 14	17 16 22	18°39'01	28°23	0♎ 8	29°35	2°26	15°48	14°26	15°37	3°11	5°21	27°29	26°33	0°38	n.a.	T 14
W15	17 20 19	19°36'10	12♏38	0°36	0♌10	3° 6	16° 0	14°25	15°41	3° 9	5°21	27°29	26°30	0°45	n.a.	W15
T 16	17 24 15	20°33'20	27° 6	1° 9	0°43	3°46	16°13	14°23	15°44	3° 7	5°20	27°31	26°27	0°52	n.a.	T 16
F 17	17 28 12	21°30'29	11♏43	1°47	1°15	4°26	16°25	14°21	15°47	3° 6	5°20	27°32	26°24	0°58	n.a.	F 17
S 18	17 32 8	22°27'40	26°26	2°30	1°46	5° 6	16°38	14°19	15°50	3° 4	5°20	27°R33	26°20	1° 5	n.a.	S 18
S 19	17 36 5	23°24'50	11♐ 8	3°19	2°15	5°46	16°50	14°17	15°53	3° 3	5°20	27°32	26°17	1°12	n.a.	S 19
M20	17 40 1	24°22'01	25°41	4°13	2°43	6°25	17° 3	14°15	15°56	3° 1	5°20	27°30	26°14	1°18	n.a.	M20
T 21	17 43 58	25°19'13	10♑ 1	5°12	3° 9	7° 5	17°15	14°13	15°58	3° 0	5°19	27°27	26°11	1°25	n.a.	T 21
W22	17 47 54	26°16'26	24° 1	6°16	3°33	7°44	17°28	14°11	16° 1	2°59	5°19	27°23	26° 8	1°32	n.a.	W22
T 23	17 51 51	27°13'39	7♒39	7°26	3°56	8°23	17°41	14° 9	16° 4	2°57	5°19	27°19	26° 4	1°38	n.a.	T 23
F 24	17 55 48	28°10'53	20°52	8°40	4°17	9° 2	17°53	14° 6	16° 7	2°56	5°18	27°15	26° 1	1°45	n.a.	F 24
S 25	17 59 44	29° 8'09	3♓42	9°59	4°36	9°41	18° 6	14° 4	16°10	2°54	5°18	27°11	25°58	1°52	n.a.	S 25
S 26	18 3 41	0♋ 5'25	16°12	11°22	4°53	10°20	18°19	14° 1	16°13	2°53	5°18	27° 9	25°55	1°58	n.a.	S 26
M27	18 7 37	1° 2'42	28°23	12°50	5° 9	10°59	18°32	13°58	16°15	2°51	5°17	27°D 8	25°52	2° 5	n.a.	M27
T 28	18 11 34	2° 0'00	10♈23	14°23	5°22	11°37	18°44	13°56	16°18	2°50	5°17	27° 8	25°49	2°12	n.a.	T 28
W29	18 15 30	2°57'20	22°14	15°59	5°34	12°15	18°57	13°53	16°21	2°49	5°16	27° 9	25°45	2°18	n.a.	W29
T 30	18 19 27	3♋54'41	4♉ 3	17♊40	5♌43	12♈54	19♋10	13♒50	16♉23	2♐47	5♓16	27♉11	25♉42	2♉25	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21n36	2n12	3s39	16n39	4s10	23n54	1n47	4s26	2s 0	23n42	0n39	18s 4	1s31	16n16	0s15	19s42	1n26	24s54	16s31	19n52	19n46	9n 3		n.a.
T 2	21 46	7 28	2 48	16 27	4 17	23 42	1 42	4 9	2 0	23 40	0 39	18 5	1 31	16 17	0 15	19 42	1 26	24 54	16 31	19 52	19 45	9 6		n.a.
F 3	21 55	12 29	1 49	16 16	4 21	23 29	1 37	3 53	2 0	23 39	0 39	18 5	1 31	16 18	0 15	19 41	1 26	24 55	16 31	19 52	19 45	9 9		n.a.
S 4	22 4	17 4	0 45	16 8	4 24	23 16	1 31	3 37	2 1	23 38	0 39	18 5	1 31	16 19	0 15	19 41	1 26	24 55	16 32	19 52	19 44	9 12		n.a.
S 5	22 13	21 1	0n21	16 2	4 26	23 2	1 26	3 20	2 1	23 37	0 39	18 6	1 32	16 20	0 15	19 41	1 26	24 55	16 32	19 52	19 43	9 15		n.a.
M 6	22 21	24 7	1 27	15 58	4 26	22 49	1 20	3 4	2 1	23 36	0 39	18 6	1 32	16 21	0 15	19 40	1 26	24 56	16 33	19 52	19 42	9 18		n.a.
T 7	22 29	26 9	2 30	15 56	4 25	22 35	1 13	2 48	2 2	23 34	0 39	18 7	1 32	16 22	0 15	19 40	1 26	24 56	16 33	19 52	19 42	9 21		n.a.
W 8	22 37	26 53	3 26	15 57	4 23	22 21	1 7	2 31	2 2	23 33	0 39	18 7	1 32	16 23	0 15	19 40	1 26	24 56	16 33	19 51	19 41	9 25		n.a.
T 9	22 44	26 13	4 14	15 59	4 19	22 6	1 0	2 15	2 2	23 32	0 39	18 8	1 32	16 24	0 15	19 40	1 26	24 57	16 34	19 51	19 40	9 28		n.a.
F 10	22 51	24 9	4 49	16 5	4 14	21 51	0 53	1 59	2 3	23 30	0 39	18 8	1 33	16 25	0 15	19 39	1 26	24 57	16 34	19 50	19 39	9 31		n.a.
S 11	22 57	20 46	5 10	16 12	4 8	21 37	0 46	1 43	2 3	23 29	0 39	18 9	1 33	16 26	0 15	19 39	1 26	24 57	16 34	19 50	19 39	9 34		n.a.
S 12	23 3	16 16	5 15	16 21	4 1	21 21	0 39	1 27	2 3	23 28	0 39	18 9	1 33	16 27	0 15	19 39	1 25	24 58	16 35	19 49	19 38	9 37		n.a.
M13	23 8	10 51	5 2	16 33	3 53	21 6	0 31	1 11	2 3	23 26	0 39	18 10	1 33	16 27	0 15	19 38	1 25	24 58	16 35	19 49	19 37	9 40		n.a.
T 14	23 13	4 47	4 31	16 46	3 44	20 51	0 23	0 55	2 4	23 25	0 39	18 11	1 34	16 28	0 15	19 38	1 25	24 59	16 35	19 49	19 36	9 43		n.a.
W15	23 18	1s38	3 43	17 2	3 34	20 35	0 15	0 39	2 4	23 23	0 39	18 11	1 34	16 29	0 15	19 38	1 25	24 59	16 36	19 50	19 36	9 46		n.a.
T 16	23 22	8 4	2 40	17 19	3 23	20 20	0 6	0 23	2 4	23 22	0 39	18 12	1 34	16 30	0 15	19 38	1 25	24 59	16 36	19 50	19 35	9 49		n.a.
F 17	23 26	14 10	1 26	17 37	3 12	20 4	0s 3	0 7	2 4	23 20	0 39	18 13	1 34	16 31	0 15	19 37	1 25	25 0	16 37	19 50	19 34	9 52		n.a.
S 18	23 30	19 29	0 6	17 58	3 0	19 48	0 12	0n 9	2 5	23 19	0 39	18 14	1 34	16 32	0 15	19 37	1 25	25 0	16 37	19 50	19 33	9 55		n.a.
S 19	23 33	23 35	1s14	18 19	2 48	19 33	0 21	0 25	2 5	23 17	0 39	18 14	1 35	16 33	0 15	19 37	1 25	25 1	16 37	19 50	19 33	9 58		n.a.
M20	23 36	26 7	2 29	18 42	2 35	19 17	0 31	0 40	2 5	23 16	0 39	18 15	1 35	16 34	0 15	19 37	1 25	25 1	16 38	19 50	19 32	10 2		n.a.
T 21	23 38	26 52	3 32	19 5	2 22	19 1	0 41	0 56	2 5	23 14	0 39	18 16	1 35	16 35	0 15	19 36	1 25	25 1	16 38	19 49	19 31	10 5		n.a.
W22	23 40	25 51	4 22	19 30	2 8	18 45	0 51	1 11	2 5	23 13	0 39	18 17	1 35	16 35	0 15	19 36	1 25	25 2	16 38	19 48	19 30	10 8		n.a.
T 23	23 41	23 18	4 55	19 55	1 55	18 30	1 2	1 27	2 5	23 11	0 39	18 18	1 35	16 36	0 15	19 36	1 25	25 2	16 39	19 47	19 30	10 11		n.a.
F 24	23 42	19 36	5 11	20 20	1 41	18 14	1 12	1 42	2 6	23 9	0 39	18 19	1 36	16 37	0 15	19 36	1 25	25 3	16 39	19 46	19 29	10 14		n.a.
S 25	23 43	15 4	5 11	20 46	1 27	17 59	1 24	1 58	2 6	23 8	0 40	18 20	1 36	16 38	0 15	19 35	1 25	25 3	16 39	19 45	19 28	10 17		n.a.
S 26	23 43	10 2	4 56	21 11	1 13	17 44	1 35	2 13	2 6	23 6	0 40	18 21	1 36	16 39	0 15	19 35	1 25	25 4	16 40	19 45	19 27	10 20		n.a.
M27	23 43	4 44	4 28	21 37	1 0	17 29	1 47	2 28	2 6	23 4	0 40	18 21	1 36	16 39	0 15	19 35	1 25	25 4	16 40	19 45	19 27	10 23		n.a.
T 28	23 42	0n40	3 48	22 1	0 46	17 14	1 59	2 43	2 6	23 3	0 40	18 22	1 36	16 40	0 15	19 35	1 25	25 5	16 41	19 45	19 26	10 26		n.a.
W29	23 41	5 59	2 59	22 25	0 33	16 59	2 11	2 58	2 6	23 1	0 40	18 23	1 37	16 41	0 15	19 34	1 25	25 5	16 41	19 45	19 25	10 29		n.a.
T 30	23n39	11n 5	2s 3	22n48	0s20	16n45	2s23	3n13	2s 6	22n59	0n40	18s25	1s37	16n42	0s15	19s34	1n25	25s 6	16s41	19n45	19n24	10n32		n.a.

Julian Day Number = 1664230.5, Delta T = 03h24m03s
Ecliptic obliquity = 23°42'56, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°13'45, Lahiri = - 6°06'44 Julian Calendar 1 June 157 BCE == Greg. Calendar 29 May 157 BCE

The year -156 astronomical counting style corresponds to year 157 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 157 BCE
geocentric

JULY 157 BCE (-156) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 23 24	4♋52'02	15♉53	19♊24	5♌50	13♈32	19♋23	13°R47	16♉26	2°R46	5°R15	27♉12	25♉39	2♉31	n.a.	F 1
S 2	18 27 20	5°49'26	27°50	21°11	5°55	14° 9	19°36	13♒44	16°29	2♐45	5♓15	27°R13	25°36	2°38	n.a.	S 2
S 3	18 31 17	6°46'50	9♊57	23° 2	5°58	14°47	19°49	13°41	16°31	2°43	5°14	27°12	25°33	2°45	n.a.	S 3
M 4	18 35 13	7°44'16	22°16	24°56	5°R59	15°25	20° 2	13°38	16°34	2°42	5°14	27° 9	25°30	2°51	n.a.	M 4
T 5	18 39 10	8°41'42	4♋50	26°52	5°57	16° 2	20°15	13°34	16°36	2°41	5°13	27° 5	25°26	2°58	n.a.	T 5
W 6	18 43 6	9°39'10	17°40	28°50	5°53	16°39	20°28	13°31	16°39	2°40	5°13	26°59	25°23	3° 5	n.a.	W 6
T 7	18 47 3	10°36'39	0♌44	0♋50	5°47	17°16	20°41	13°28	16°41	2°39	5°12	26°52	25°20	3°11	n.a.	T 7
F 8	18 50 59	11°34'09	14° 3	2°51	5°38	17°53	20°54	13°24	16°43	2°37	5°12	26°44	25°17	3°18	n.a.	F 8
S 9	18 54 56	12°31'40	27°35	4°53	5°27	18°29	21° 7	13°21	16°46	2°36	5°11	26°37	25°14	3°25	n.a.	S 9
S 10	18 58 53	13°29'12	11♍17	6°56	5°13	19° 5	21°20	13°17	16°48	2°35	5°10	26°32	25°10	3°31	n.a.	S 10
M11	19 2 49	14°26'45	25°10	9° 0	4°57	19°42	21°33	13°13	16°50	2°34	5°10	26°28	25° 7	3°38	n.a.	M11
T 12	19 6 46	15°24'19	9♎10	11° 3	4°39	20°17	21°46	13° 9	16°52	2°33	5° 9	26°D27	25° 4	3°45	n.a.	T 12
W13	19 10 42	16°21'53	23°17	13° 7	4°19	20°53	21°59	13° 6	16°55	2°32	5° 8	26°27	25° 1	3°51	n.a.	W13
T 14	19 14 39	17°19'29	7♏29	15°10	3°56	21°29	22°12	13° 2	16°57	2°31	5° 7	26°28	24°58	3°58	n.a.	T 14
F 15	19 18 35	18°17'06	21°46	17°12	3°31	22° 4	22°26	12°58	16°59	2°30	5° 7	26°R28	24°55	4° 5	n.a.	F 15
S 16	19 22 32	19°14'45	6♐ 4	19°14	3° 5	22°39	22°39	12°54	17° 1	2°29	5° 6	26°28	24°51	4°11	n.a.	S 16
S 17	19 26 28	20°12'24	20°20	21°14	2°36	23°14	22°52	12°50	17° 3	2°28	5° 5	26°26	24°48	4°18	n.a.	S 17
M18	19 30 25	21°10'05	4♑31	23°14	2° 6	23°49	23° 5	12°46	17° 5	2°27	5° 4	26°21	24°45	4°25	n.a.	M18
T 19	19 34 22	22° 7'47	18°31	25°13	1°34	24°23	23°18	12°42	17° 7	2°26	5° 4	26°15	24°42	4°31	n.a.	T 19
W20	19 38 18	23° 5'30	2♒18	27°10	1° 0	24°57	23°31	12°37	17° 9	2°25	5° 3	26° 6	24°39	4°38	n.a.	W20
T 21	19 42 15	24° 3'15	15°46	29° 7	0°26	25°31	23°44	12°33	17°11	2°24	5° 2	25°56	24°36	4°45	n.a.	T 21
F 22	19 46 11	25° 1'02	28°54	1♌ 2	29♋50	26° 5	23°57	12°29	17°12	2°23	5° 1	25°47	24°32	4°51	n.a.	F 22
S 23	19 50 8	25°58'50	11♓41	2°55	29°14	26°39	24°10	12°25	17°14	2°23	5° 0	25°38	24°29	4°58	n.a.	S 23
S 24	19 54 4	26°56'40	24°10	4°48	28°37	27°12	24°24	12°20	17°16	2°22	4°59	25°31	24°26	5° 5	n.a.	S 24
M25	19 58 1	27°54'32	6♈21	6°39	28° 0	27°45	24°37	12°16	17°18	2°21	4°58	25°27	24°23	5°11	n.a.	M25
T 26	20 1 57	28°52'26	18°20	8°28	27°23	28°18	24°50	12°12	17°19	2°20	4°58	25°24	24°20	5°18	n.a.	T 26
W27	20 5 54	29°50'22	0♉11	10°17	26°46	28°50	25° 3	12° 7	17°21	2°20	4°57	25°D24	24°16	5°25	n.a.	W27
T 28	20 9 51	0♌48'19	12° 0	12° 4	26°10	29°22	25°16	12° 3	17°22	2°19	4°56	25°24	24°13	5°31	n.a.	T 28
F 29	20 13 47	1°46'19	23°52	13°49	25°34	29°54	25°29	11°58	17°24	2°18	4°55	25°R24	24°10	5°38	n.a.	F 29
S 30	20 17 44	2°44'21	5♊51	15°34	24°59	0♉26	25°42	11°54	17°25	2°18	4°54	25°24	24° 7	5°44	n.a.	S 30
S 31	20 21 40	3♌42'24	18♊ 4	17♌17	24♋26	0♉57	25♋55	11♒49	17♉27	2♐17	4♓53	25♉22	24♉ 4	5♉51	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23n37	15n48	1s 1	23n10	0s 7	16n31	2s36	3n28	2s 6	22n57	0n40	18s26	1s37	16n43	0s15	19s34	1n25	25s 6	16s42	19n46	19n24	10n35		n.a.
S 2	23 35	19 58	0n 3	23 30	0n 5	16 17	2 49	3 43	2 6	22 55	0 40	18 27	1 37	16 43	0 15	19 34	1 25	25 7	16 42	19 46	19 23	10 38		n.a.
S 3	23 32	23 20	1 9	23 49	0 17	16 3	3 2	3 57	2 6	22 54	0 40	18 28	1 37	16 44	0 15	19 33	1 25	25 7	16 42	19 46	19 22	10 41		n.a.
M 4	23 29	25 41	2 12	24 5	0 28	15 50	3 15	4 12	2 6	22 52	0 40	18 29	1 38	16 45	0 15	19 33	1 25	25 8	16 43	19 45	19 21	10 44		n.a.
T 5	23 26	26 47	3 10	24 19	0 39	15 38	3 29	4 26	2 6	22 50	0 40	18 30	1 38	16 45	0 15	19 33	1 25	25 8	16 43	19 44	19 21	10 48		n.a.
W 6	23 22	26 29	3 59	24 31	0 48	15 26	3 42	4 41	2 6	22 48	0 40	18 31	1 38	16 46	0 15	19 33	1 25	25 9	16 43	19 43	19 20	10 51		n.a.
T 7	23 17	24 44	4 37	24 40	0 58	15 14	3 56	4 55	2 6	22 46	0 40	18 32	1 38	16 47	0 15	19 33	1 25	25 9	16 43	19 41	19 19	10 54		n.a.
F 8	23 12	21 35	5 1	24 47	1 6	15 3	4 10	5 9	2 6	22 44	0 40	18 34	1 38	16 48	0 15	19 32	1 25	25 10	16 44	19 39	19 18	10 57		n.a.
S 9	23 7	17 16	5 8	24 51	1 14	14 52	4 24	5 23	2 6	22 42	0 40	18 35	1 38	16 48	0 15	19 32	1 25	25 10	16 44	19 38	19 17	11 0		n.a.
S 10	23 1	12 0	4 58	24 52	1 20	14 42	4 38	5 37	2 6	22 40	0 40	18 36	1 39	16 49	0 15	19 32	1 25	25 11	16 44	19 36	19 17	11 3		n.a.
M11	22 55	6 5	4 31	24 51	1 26	14 32	4 51	5 51	2 6	22 38	0 40	18 37	1 39	16 50	0 15	19 32	1 25	25 11	16 45	19 35	19 16	11 6		n.a.
T 12	22 49	0s12	3 47	24 46	1 32	14 23	5 5	6 5	2 6	22 36	0 41	18 38	1 39	16 50	0 15	19 32	1 25	25 12	16 45	19 35	19 15	11 9		n.a.
W13	22 42	6 32	2 49	24 39	1 36	14 14	5 19	6 18	2 6	22 34	0 41	18 40	1 39	16 51	0 15	19 32	1 24	25 12	16 45	19 35	19 14	11 12		n.a.
T 14	22 35	12 35	1 40	24 30	1 40	14 7	5 32	6 32	2 6	22 32	0 41	18 41	1 39	16 51	0 15	19 31	1 24	25 13	16 46	19 35	19 14	11 15		n.a.
F 15	22 27	18 0	0 25	24 18	1 43	14 0	5 45	6 45	2 6	22 30	0 41	18 42	1 39	16 52	0 15	19 31	1 24	25 13	16 46	19 35	19 13	11 18		n.a.
S 16	22 19	22 25	0s51	24 3	1 45	13 53	5 58	6 58	2 5	22 28	0 41	18 44	1 40	16 53	0 15	19 31	1 24	25 14	16 46	19 35	19 12	11 21		n.a.
S 17	22 11	25 26	2 5	23 46	1 46	13 47	6 11	7 12	2 5	22 26	0 41	18 45	1 40	16 53	0 15	19 31	1 24	25 15	16 46	19 35	19 11	11 24		n.a.
M18	22 2	26 48	3 9	23 27	1 47	13 42	6 23	7 25	2 5	22 23	0 41	18 46	1 40	16 54	0 15	19 31	1 24	25 15	16 47	19 34	19 10	11 27		n.a.
T 19	21 52	26 25	4 2	23 6	1 47	13 38	6 34	7 38	2 5	22 21	0 41	18 48	1 40	16 54	0 15	19 31	1 24	25 16	16 47	19 32	19 10	11 30		n.a.
W20	21 43	24 24	4 39	22 43	1 47	13 34	6 45	7 50	2 5	22 19	0 41	18 49	1 40	16 55	0 15	19 31	1 24	25 16	16 47	19 30	19 9	11 33		n.a.
T 21	21 33	21 3	5 0	22 18	1 46	13 31	6 56	8 3	2 4	22 17	0 41	18 50	1 40	16 55	0 15	19 30	1 24	25 17	16 48	19 28	19 8	11 36		n.a.
F 22	21 22	16 44	5 4	21 51	1 44	13 29	7 6	8 16	2 4	22 15	0 41	18 52	1 40	16 56	0 15	19 30	1 24	25 17	16 48	19 25	19 7	11 39		n.a.
S 23	21 12	11 46	4 53	21 23	1 42	13 27	7 15	8 28	2 4	22 12	0 41	18 53	1 41	16 56	0 15	19 30	1 24	25 18	16 48	19 23	19 7	11 42		n.a.
S 24	21 1	6 26	4 28	20 54	1 39	13 26	7 23	8 40	2 4	22 10	0 42	18 54	1 41	16 57	0 15	19 30	1 24	25 18	16 48	19 22	19 6	11 45		n.a.
M25	20 49	0 59	3 51	20 23	1 36	13 26	7 31	8 52	2 4	22 8	0 42	18 56	1 41	16 57	0 15	19 30	1 24	25 19	16 49	19 21	19 5	11 48		n.a.
T 26	20 37	4n26	3 4	19 51	1 33	13 26	7 38	9 4	2 3	22 5	0 42	18 57	1 41	16 58	0 15	19 30	1 24	25 20	16 49	19 20	19 4	11 51		n.a.
W27	20 25	9 38	2 10	19 18	1 29	13 28	7 44	9 16	2 3	22 3	0 42	18 58	1 41	16 58	0 15	19 30	1 24	25 20	16 49	19 20	19 3	11 54		n.a.
T 28	20 13	14 29	1 11	18 43	1 25	13 29	7 49	9 28	2 3	22 1	0 42	19 0	1 41	16 59	0 15	19 30	1 24	25 21	16 49	19 20	19 3	11 57		n.a.
F 29	20 0	18 49	0 8	18 8	1 20	13 31	7 53	9 40	2 2	21 59	0 42	19 1	1 41	16 59	0 15	19 30	1 24	25 21	16 49	19 20	19 2	12 0		n.a.
S 30	19 46	22 26	0n55	17 33	1 15	13 34	7 56	9 51	2 2	21 56	0 42	19 3	1 41	16 59	0 15	19 30	1 24	25 22	16 50	19 20	19 1	12 3		n.a.
S 31	19n33	25n 7	1n58	16n56	1n 9	13n37	7s59	10n 3	2s 2	21n54	0n42	19s 4	1s42	17n 0	0s15	19s30	1n24	25s22	16s50	19n19	19n 0	12n 6		n.a.

Julian Day Number = 1664260.5, Delta T = 03h24m03s
Ecliptic obliquity = 23°42'56, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°13'41, Lahiri = - 6°06'40 Julian Calendar 1 July 157 BCE == Greg. Calendar 28 June 157 BCE

The year -156 astronomical counting style corresponds to year 157 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 157 BCE
geocentric

AUGUST 157 BCE (-156) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 25 37	4♌40'30	0♋33	18♌59	23°R53	1♉28	26♋ 8	11°R45	17♉28	2°R17	4°R52	25°R17	24♉ 1	5♉58	n.a.	M 1
T 2	20 29 33	5°38'37	13°21	20°40	23♋22	1°59	26°21	11♒40	17°29	2♐16	4♓51	25♉ 9	23°57	6° 4	n.a.	T 2
W 3	20 33 30	6°36'47	26°29	22°19	22°53	2°30	26°34	11°35	17°30	2°16	4°50	25° 0	23°54	6°11	n.a.	W 3
T 4	20 37 26	7°34'58	9♌56	23°57	22°26	3° 0	26°47	11°31	17°32	2°15	4°49	24°49	23°51	6°18	n.a.	T 4
F 5	20 41 23	8°33'11	23°40	25°34	22° 0	3°30	27° 0	11°26	17°33	2°15	4°48	24°37	23°48	6°24	n.a.	F 5
S 6	20 45 20	9°31'26	7♍38	27°10	21°37	3°59	27°13	11°22	17°34	2°14	4°47	24°26	23°45	6°31	n.a.	S 6
S 7	20 49 16	10°29'43	21°44	28°44	21°15	4°28	27°26	11°17	17°35	2°14	4°46	24°17	23°41	6°38	n.a.	S 7
M 8	20 53 13	11°28'01	5♎55	0♍18	20°56	4°57	27°39	11°12	17°36	2°14	4°44	24°11	23°38	6°44	n.a.	M 8
T 9	20 57 9	12°26'21	20° 7	1°50	20°39	5°26	27°52	11° 8	17°37	2°13	4°43	24° 7	23°35	6°51	n.a.	T 9
W10	21 1 6	13°24'42	4♏17	3°21	20°25	5°54	28° 5	11° 3	17°38	2°13	4°42	24° 5	23°32	6°58	n.a.	W10
T 11	21 5 2	14°23'05	18°24	4°51	20°13	6°22	28°18	10°58	17°39	2°13	4°41	24° 5	23°29	7° 4	n.a.	T 11
F 12	21 8 59	15°21'30	2♐27	6°19	20° 3	6°49	28°31	10°54	17°39	2°13	4°40	24° 5	23°26	7°11	n.a.	F 12
S 13	21 12 55	16°19'57	16°25	7°47	19°55	7°16	28°44	10°49	17°40	2°13	4°39	24° 4	23°22	7°18	n.a.	S 13
S 14	21 16 52	17°18'25	0♑18	9°13	19°51	7°43	28°56	10°45	17°41	2°12	4°38	24° 0	23°19	7°24	n.a.	S 14
M15	21 20 49	18°16'55	14° 3	10°38	19°48	8° 9	29° 9	10°40	17°42	2°12	4°37	23°54	23°16	7°31	n.a.	M15
T 16	21 24 45	19°15'27	27°39	12° 1	19°D48	8°35	29°22	10°36	17°42	2°12	4°36	23°44	23°13	7°38	n.a.	T 16
W17	21 28 42	20°14'01	11♒ 4	13°24	19°50	9° 0	29°35	10°31	17°43	2°12	4°34	23°33	23°10	7°44	n.a.	W17
T 18	21 32 38	21°12'36	24°14	14°45	19°54	9°25	29°47	10°27	17°43	2°D12	4°33	23°20	23° 7	7°51	n.a.	T 18
F 19	21 36 35	22°11'14	7♓ 9	16° 4	20° 1	9°50	29°59	10°22	17°44	2°12	4°32	23° 7	23° 3	7°58	n.a.	F 19
S 20	21 40 31	23° 9'54	19°47	17°23	20°10	10°14	0♌13	10°18	17°44	2°12	4°31	22°55	23° 0	8° 4	n.a.	S 20
S 21	21 44 28	24° 8'36	2♈ 9	18°39	20°21	10°38	0°25	10°13	17°44	2°12	4°30	22°45	22°57	8°11	n.a.	S 21
M22	21 48 24	25° 7'20	14°17	19°55	20°34	11° 2	0°38	10° 9	17°45	2°13	4°29	22°38	22°54	8°17	n.a.	M22
T 23	21 52 21	26° 6'06	26°14	21° 8	20°50	11°24	0°50	10° 4	17°45	2°13	4°27	22°33	22°51	8°24	n.a.	T 23
W24	21 56 17	27° 4'55	8♉ 4	22°20	21° 7	11°47	1° 2	10° 0	17°45	2°13	4°26	22°31	22°47	8°31	n.a.	W24
T 25	22 0 14	28° 3'46	19°52	23°31	21°26	12° 9	1°15	9°56	17°45	2°13	4°25	22°31	22°44	8°37	n.a.	T 25
F 26	22 4 11	29° 2'40	1♊43	24°39	21°47	12°30	1°27	9°52	17°45	2°13	4°24	22°31	22°41	8°44	n.a.	F 26
S 27	22 8 7	0♍ 1'36	13°42	25°45	22°10	12°51	1°40	9°47	17°R45	2°14	4°23	22°30	22°38	8°51	n.a.	S 27
S 28	22 12 4	1° 0'34	25°56	26°49	22°35	13°12	1°52	9°43	17°45	2°14	4°21	22°28	22°35	8°57	n.a.	S 28
M29	22 16 0	1°59'35	8♋28	27°51	23° 1	13°32	2° 4	9°39	17°45	2°14	4°20	22°24	22°32	9° 4	n.a.	M29
T 30	22 19 57	2°58'39	21°23	28°50	23°29	13°51	2°16	9°35	17°45	2°15	4°19	22°16	22°28	9°11	n.a.	T 30
W31	22 23 53	3♍57'44	4♌43	29♍47	23♋59	14♉10	2♌28	9♒31	17♉45	2♐15	4♓18	22♉ 7	22♉25	9♉17	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
M 1	19n19	26n38	2n55	16n19	1n 4	13n41	8s 0	10n14	2s 1	21n51	0n42	19s 5	1s42	17n 0	0s15	19s29	1n24	25s23	16s50	19n18	18n59	12n 9			n.a.
T 2	19 5	26 47	3 46	15 41	0 58	13 46	8 1	10 25	2 1	21 49	0 42	19 7	1 42	17 1	0 15	19 29	1 24	25 24	16 50	19 16	18 59	12 12			n.a.
W 3	18 50	25 26	4 25	15 3	0 52	13 50	8 1	10 36	2 0	21 47	0 42	19 8	1 42	17 1	0 15	19 29	1 23	25 24	16 50	19 14	18 58	12 15			n.a.
T 4	18 35	22 38	4 51	14 24	0 45	13 55	8 1	10 46	2 0	21 44	0 43	19 10	1 42	17 1	0 15	19 29	1 23	25 25	16 51	19 11	18 57	12 18			n.a.
F 5	18 20	18 31	5 1	13 45	0 39	14 1	7 59	10 57	2 0	21 42	0 43	19 11	1 42	17 2	0 15	19 29	1 23	25 25	16 51	19 9	18 56	12 21			n.a.
S 6	18 4	13 20	4 54	13 6	0 32	14 6	7 57	11 8	1 59	21 39	0 43	19 12	1 42	17 2	0 15	19 29	1 23	25 26	16 51	19 6	18 55	12 24			n.a.
S 7	17 49	7 24	4 28	12 26	0 25	14 13	7 54	11 18	1 59	21 37	0 43	19 14	1 42	17 2	0 15	19 29	1 23	25 26	16 51	19 4	18 55	12 27			n.a.
M 8	17 32	1 4	3 46	11 46	0 17	14 19	7 50	11 28	1 58	21 34	0 43	19 15	1 42	17 3	0 15	19 29	1 23	25 27	16 51	19 2	18 54	12 30			n.a.
T 9	17 16	5s20	2 49	11 6	0 10	14 25	7 46	11 38	1 58	21 32	0 43	19 16	1 42	17 3	0 15	19 29	1 23	25 28	16 51	19 1	18 53	12 33			n.a.
W10	16 59	11 29	1 43	10 26	0 2	14 32	7 42	11 48	1 57	21 29	0 43	19 18	1 42	17 3	0 15	19 29	1 23	25 28	16 52	19 1	18 52	12 36			n.a.
T 11	16 42	17 1	0 30	9 46	0s 5	14 39	7 36	11 58	1 57	21 27	0 43	19 19	1 42	17 3	0 15	19 29	1 23	25 29	16 52	19 1	18 51	12 39			n.a.
F 12	16 25	21 37	0s44	9 6	0 13	14 46	7 31	12 7	1 56	21 24	0 43	19 20	1 43	17 3	0 15	19 29	1 23	25 29	16 52	19 1	18 51	12 42			n.a.
S 13	16 7	24 55	1 55	8 26	0 21	14 53	7 25	12 17	1 56	21 22	0 44	19 22	1 43	17 4	0 15	19 29	1 23	25 30	16 52	19 0	18 50	12 45			n.a.
S 14	15 50	26 42	2 59	7 46	0 29	15 0	7 18	12 26	1 55	21 19	0 44	19 23	1 43	17 4	0 15	19 29	1 23	25 30	16 52	18 59	18 49	12 48			n.a.
M15	15 31	26 48	3 51	7 6	0 37	15 8	7 11	12 35	1 54	21 17	0 44	19 24	1 43	17 4	0 15	19 29	1 23	25 31	16 52	18 58	18 48	12 51			n.a.
T 16	15 13	25 17	4 30	6 26	0 45	15 15	7 4	12 44	1 54	21 14	0 44	19 26	1 43	17 4	0 15	19 29	1 23	25 31	16 52	18 55	18 47	12 54			n.a.
W17	14 54	22 21	4 53	5 47	0 53	15 22	6 56	12 53	1 53	21 11	0 44	19 27	1 43	17 4	0 15	19 29	1 23	25 32	16 53	18 52	18 47	12 57			n.a.
T 18	14 36	18 18	5 0	5 8	1 1	15 29	6 48	13 1	1 52	21 9	0 44	19 28	1 43	17 5	0 15	19 30	1 23	25 33	16 53	18 49	18 46	13 0			n.a.
F 19	14 17	13 29	4 51	4 29	1 9	15 36	6 40	13 10	1 52	21 6	0 44	19 30	1 43	17 5	0 15	19 30	1 23	25 33	16 53	18 46	18 45	13 3			n.a.
S 20	13 57	8 12	4 28	3 51	1 18	15 43	6 32	13 18	1 51	21 4	0 44	19 31	1 43	17 5	0 15	19 30	1 23	25 34	16 53	18 43	18 44	13 6			n.a.
S 21	13 38	2 41	3 53	3 13	1 26	15 50	6 24	13 26	1 50	21 1	0 44	19 32	1 43	17 5	0 15	19 30	1 23	25 34	16 53	18 40	18 43	13 9			n.a.
M22	13 18	2n49	3 8	2 36	1 34	15 56	6 15	13 34	1 50	20 58	0 45	19 33	1 43	17 5	0 15	19 30	1 22	25 35	16 53	18 39	18 43	13 12			n.a.
T 23	12 58	8 9	2 14	2 0	1 42	16 3	6 6	13 42	1 49	20 56	0 45	19 35	1 43	17 5	0 15	19 30	1 22	25 35	16 53	18 37	18 42	13 15			n.a.
W24	12 38	13 10	1 16	1 24	1 50	16 9	5 58	13 50	1 48	20 53	0 45	19 36	1 43	17 5	0 15	19 30	1 22	25 36	16 53	18 37	18 41	13 18			n.a.
T 25	12 17	17 41	0 14	0 48	1 58	16 15	5 49	13 58	1 47	20 51	0 45	19 37	1 43	17 5	0 15	19 30	1 22	25 36	16 53	18 37	18 40	13 21			n.a.
F 26	11 56	21 32	0n49	0 14	2 6	16 20	5 40	14 5	1 46	20 48	0 45	19 38	1 43	17 5	0 15	19 30	1 22	25 37	16 53	18 37	18 39	13 24			n.a.
S 27	11 36	24 31	1 50	0s20	2 14	16 26	5 31	14 12	1 45	20 45	0 45	19 39	1 43	17 5	0 15	19 30	1 22	25 37	16 53	18 37	18 39	13 27			n.a.
S 28	11 14	26 26	2 47	0 53	2 21	16 31	5 22	14 19	1 45	20 43	0 45	19 40	1 43	17 5	0 15	19 30	1 22	25 38	16 53	18 36	18 38	13 30			n.a.
M29	10 53	27 4	3 38	1 24	2 29	16 36	5 12	14 26	1 44	20 40	0 46	19 42	1 43	17 5	0 15	19 31	1 22	25 38	16 53	18 35	18 37	13 33			n.a.
T 30	10 32	26 15	4 19	1 55	2 36	16 40	5 3	14 33	1 43	20 37	0 46	19 43	1 43	17 5	0 15	19 31	1 22	25 39	16 53	18 33	18 36	13 36			n.a.
W31	10n10	23n57	4n48	2s24	2s43	16n44	4s54	14n39	1s42	20n35	0n46	19s44	1s43	17n 5	0s15	19s31	1n22	25s39	16s53	18n30	18n35	13n39			n.a.

Julian Day Number = 1664291.5, Delta T = 03h24m02s
Ecliptic obliquity = 23°42'56, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°13'36, Lahiri = - 6°06'36 Julian Calendar 1 Aug. 157 BCE == Greg. Calendar 29 July 157 BCE

The year -156 astronomical counting style corresponds to year 157 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 157 BCE
geocentric

SEPTEMBER 157 BCE (-156) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 27 50	4♍56'52	18♌27	0♎41	24♋30	14♉28	2♌40	9°R27	17°R45	2♐16	4°R17	21°R56	22♉22	9♉24	n.a.	T 1
F 2	22 31 46	5°56'02	2♍32	1°32	25° 2	14°46	2°52	9♒23	17♉44	2°16	4♓15	21♉44	22°19	9°31	n.a.	F 2
S 3	22 35 43	6°55'14	16°55	2°19	25°36	15° 3	3° 4	9°19	17°44	2°17	4°14	21°33	22°16	9°37	n.a.	S 3
S 4	22 39 40	7°54'28	1♎28	3° 2	26°11	15°19	3°16	9°16	17°44	2°17	4°13	21°23	22°13	9°44	n.a.	S 4
M 5	22 43 36	8°53'44	16° 4	3°41	26°48	15°35	3°28	9°12	17°43	2°18	4°12	21°17	22° 9	9°51	n.a.	M 5
T 6	22 47 33	9°53'02	0♏37	4°16	27°26	15°50	3°40	9° 8	17°43	2°18	4°11	21°13	22° 6	9°57	n.a.	T 6
W 7	22 51 29	10°52'22	15° 3	4°46	28° 5	16° 5	3°51	9° 5	17°42	2°19	4°10	21°D11	22° 3	10° 4	n.a.	W 7
T 8	22 55 26	11°51'44	29°17	5°11	28°45	16°19	4° 3	9° 1	17°42	2°20	4° 8	21°11	22° 0	10°11	n.a.	T 8
F 9	22 59 22	12°51'08	13♐19	5°30	29°26	16°32	4°15	8°58	17°41	2°21	4° 7	21°R11	21°57	10°17	n.a.	F 9
S 10	23 3 19	13°50'34	27° 8	5°43	0♑ 9	16°45	4°26	8°54	17°40	2°21	4° 6	21°11	21°53	10°24	n.a.	S 10
S 11	23 7 15	14°50'01	10♑45	5°R49	0°52	16°57	4°38	8°51	17°40	2°22	4° 5	21° 8	21°50	10°30	n.a.	S 11
M12	23 11 12	15°49'30	24° 9	5°48	1°37	17° 8	4°49	8°48	17°39	2°23	4° 4	21° 3	21°47	10°37	n.a.	M12
T 13	23 15 9	16°49'02	7♒23	5°39	2°22	17°19	5° 0	8°45	17°38	2°24	4° 2	20°55	21°44	10°44	n.a.	T 13
W14	23 19 5	17°48'35	20°24	5°22	3° 9	17°29	5°11	8°42	17°37	2°25	4° 1	20°45	21°41	10°50	n.a.	W14
T 15	23 23 2	18°48'10	3♓13	4°57	3°56	17°38	5°23	8°39	17°36	2°26	4° 0	20°34	21°38	10°57	n.a.	T 15
F 16	23 26 58	19°47'47	15°50	4°23	4°44	17°47	5°34	8°36	17°35	2°26	3°59	20°22	21°34	11° 4	n.a.	F 16
S 17	23 30 55	20°47'26	28°14	3°40	5°33	17°54	5°45	8°33	17°34	2°27	3°58	20°12	21°31	11°10	n.a.	S 17
S 18	23 34 51	21°47'07	10♈26	2°50	6°23	18° 1	5°56	8°30	17°33	2°28	3°57	20° 3	21°28	11°17	n.a.	S 18
M19	23 38 48	22°46'51	22°28	1°52	7°14	18° 7	6° 6	8°28	17°32	2°29	3°56	19°57	21°25	11°24	n.a.	M19
T 20	23 42 44	23°46'37	4♉21	0°47	8° 5	18°13	6°17	8°25	17°31	2°31	3°55	19°53	21°22	11°30	n.a.	T 20
W21	23 46 41	24°46'25	16° 9	29♍37	8°57	18°17	6°28	8°23	17°29	2°32	3°53	19°D52	21°18	11°37	n.a.	W21
T 22	23 50 37	25°46'15	27°55	28°23	9°50	18°21	6°38	8°20	17°28	2°33	3°52	19°52	21°15	11°44	n.a.	T 22
F 23	23 54 34	26°46'07	9♊45	27° 8	10°44	18°24	6°49	8°18	17°27	2°34	3°51	19°53	21°12	11°50	n.a.	F 23
S 24	23 58 31	27°46'02	21°43	25°53	11°38	18°26	6°59	8°16	17°26	2°35	3°50	19°54	21° 9	11°57	n.a.	S 24
S 25	0 2 27	28°46'00	3♋54	24°40	12°33	18°27	7°10	8°14	17°24	2°36	3°49	19°R54	21° 6	12° 4	n.a.	S 25
M26	0 6 24	29°45'59	16°24	23°33	13°28	18°R28	7°20	8°12	17°23	2°38	3°48	19°52	21° 3	12°10	n.a.	M26
T 27	0 10 20	0♎46'01	29°18	22°33	14°24	18°27	7°30	8°10	17°21	2°39	3°47	19°49	20°59	12°17	n.a.	T 27
W28	0 14 17	1°46'05	12♌38	21°42	15°21	18°26	7°40	8° 8	17°20	2°40	3°46	19°43	20°56	12°23	n.a.	W28
T 29	0 18 13	2°46'11	26°26	21° 1	16°18	18°24	7°50	8° 6	17°18	2°41	3°45	19°36	20°53	12°30	n.a.	T 29
F 30	0 22 10	3♎46'20	10♍41	20♍31	17♌16	18♉20	8♌ 0	8♒ 5	17♉16	2♐43	3♓44	19♉29	20♉50	12♉37	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n48	20n14	5n 1	2s52	2s49	16n48	4s45	14n46	1s41	20n32	0n46	19s45	1s43	17n 5	0s15	19s31	1n22	25s40	16s53	18n28	18n34	13n42		n.a.
F 2	9 26	15 17	4 56	3 18	2 56	16 51	4 36	14 52	1 40	20 29	0 46	19 46	1 43	17 5	0 15	19 31	1 22	25 40	16 53	18 24	18 34	13 45		n.a.
S 3	9 4	9 24	4 33	3 42	3 2	16 54	4 27	14 58	1 39	20 27	0 46	19 47	1 43	17 5	0 15	19 31	1 22	25 40	16 53	18 21	18 33	13 48		n.a.
S 4	8 42	2 57	3 51	4 5	3 7	16 56	4 18	15 4	1 38	20 24	0 46	19 48	1 43	17 5	0 15	19 31	1 22	25 41	16 53	18 19	18 32	13 50		n.a.
M 5	8 20	3s42	2 55	4 25	3 12	16 58	4 9	15 10	1 36	20 21	0 47	19 49	1 43	17 4	0 15	19 32	1 22	25 41	16 53	18 17	18 31	13 53		n.a.
T 6	7 57	10 9	1 47	4 43	3 17	17 0	4 0	15 15	1 35	20 19	0 47	19 50	1 43	17 4	0 15	19 32	1 22	25 42	16 53	18 16	18 30	13 56		n.a.
W 7	7 34	16 1	0 33	4 59	3 21	17 1	3 51	15 20	1 34	20 16	0 47	19 51	1 43	17 4	0 15	19 32	1 22	25 42	16 53	18 16	18 29	13 59		n.a.
T 8	7 12	20 56	0s43	5 12	3 24	17 1	3 42	15 26	1 33	20 14	0 47	19 52	1 43	17 4	0 15	19 32	1 22	25 43	16 53	18 16	18 29	14 2		n.a.
F 9	6 49	24 34	1 55	5 22	3 26	17 2	3 33	15 31	1 32	20 11	0 47	19 53	1 43	17 4	0 15	19 32	1 21	25 43	16 53	18 16	18 28	14 5		n.a.
S 10	6 26	26 40	2 59	5 28	3 28	17 1	3 25	15 35	1 30	20 8	0 47	19 53	1 43	17 4	0 15	19 33	1 21	25 43	16 53	18 16	18 27	14 8		n.a.
S 11	6 2	27 8	3 52	5 31	3 28	17 0	3 16	15 40	1 29	20 6	0 47	19 54	1 43	17 3	0 15	19 33	1 21	25 44	16 53	18 15	18 26	14 11		n.a.
M12	5 39	25 58	4 31	5 30	3 28	16 59	3 7	15 45	1 28	20 3	0 48	19 55	1 43	17 3	0 15	19 33	1 21	25 44	16 53	18 14	18 25	14 14		n.a.
T 13	5 16	23 23	4 55	5 24	3 26	16 57	2 59	15 49	1 27	20 0	0 48	19 56	1 43	17 3	0 15	19 33	1 21	25 45	16 53	18 11	18 24	14 17		n.a.
W14	4 52	19 38	5 3	5 14	3 22	16 55	2 50	15 53	1 25	19 58	0 48	19 57	1 43	17 3	0 15	19 33	1 21	25 45	16 53	18 9	18 24	14 20		n.a.
T 15	4 29	15 2	4 56	5 0	3 17	16 52	2 42	15 57	1 24	19 55	0 48	19 57	1 43	17 2	0 15	19 34	1 21	25 45	16 53	18 6	18 23	14 23		n.a.
F 16	4 5	9 51	4 34	4 40	3 10	16 49	2 34	16 1	1 22	19 53	0 48	19 58	1 43	17 2	0 15	19 34	1 21	25 46	16 53	18 3	18 22	14 26		n.a.
S 17	3 41	4 22	4 0	4 15	3 2	16 45	2 26	16 4	1 21	19 50	0 48	19 59	1 43	17 2	0 15	19 34	1 21	25 46	16 53	18 0	18 21	14 28		n.a.
S 18	3 18	1n12	3 15	3 45	2 51	16 40	2 18	16 8	1 19	19 48	0 49	19 59	1 42	17 2	0 15	19 34	1 21	25 46	16 52	17 58	18 20	14 31		n.a.
M19	2 54	6 39	2 21	3 11	2 39	16 35	2 10	16 11	1 18	19 45	0 49	20 0	1 42	17 1	0 15	19 35	1 21	25 47	16 52	17 56	18 19	14 34		n.a.
T 20	2 30	11 50	1 22	2 31	2 25	16 30	2 2	16 14	1 16	19 42	0 49	20 1	1 42	17 1	0 15	19 35	1 21	25 47	16 52	17 55	18 19	14 37		n.a.
W21	2 6	16 33	0 20	1 49	2 9	16 24	1 54	16 17	1 14	19 40	0 49	20 1	1 42	17 1	0 15	19 35	1 21	25 47	16 52	17 54	18 18	14 40		n.a.
T 22	1 42	20 38	0n43	1 3	1 51	16 17	1 46	16 20	1 13	19 37	0 49	20 2	1 42	17 0	0 15	19 35	1 21	25 48	16 52	17 55	18 17	14 43		n.a.
F 23	1 18	23 54	1 45	0 15	1 32	16 10	1 39	16 22	1 11	19 35	0 50	20 2	1 42	17 0	0 15	19 36	1 21	25 48	16 52	17 55	18 16	14 46		n.a.
S 24	0 54	26 10	2 43	0n33	1 12	16 2	1 31	16 24	1 9	19 32	0 50	20 3	1 42	16 59	0 15	19 36	1 21	25 48	16 52	17 55	18 15	14 49		n.a.
S 25	0 30	27 14	3 35	1 21	0 52	15 54	1 24	16 27	1 7	19 30	0 50	20 3	1 42	16 59	0 15	19 36	1 21	25 49	16 52	17 55	18 14	14 52		n.a.
M26	0 6	26 57	4 18	2 7	0 31	15 45	1 17	16 28	1 5	19 27	0 50	20 4	1 42	16 59	0 15	19 37	1 21	25 49	16 51	17 55	18 14	14 54		n.a.
T 27	0s18	25 14	4 49	2 49	0 11	15 35	1 10	16 30	1 3	19 25	0 50	20 4	1 42	16 58	0 15	19 37	1 21	25 49	16 51	17 54	18 13	14 57		n.a.
W28	0 43	22 6	5 6	3 28	0n 9	15 25	1 3	16 32	1 2	19 23	0 50	20 5	1 42	16 58	0 15	19 37	1 20	25 49	16 51	17 52	18 12	15 0		n.a.
T 29	1 7	17 38	5 6	4 2	0 28	15 15	0 56	16 33	1 0	19 20	0 51	20 5	1 42	16 57	0 15	19 37	1 20	25 50	16 51	17 50	18 11	15 3		n.a.
F 30	1s31	12n 4	4n48	4n29	0n45	15n 4	0s49	16n34	0s58	19n18	0n51	20s 5	1s42	16n57	0s15	19s38	1n20	25s50	16s51	17n48	18n10	15n 6		n.a.

Julian Day Number = 1664322.5, Delta T = 03h24m01s
Ecliptic obliquity = 23°42'57, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°13'32, Lahiri = - 6°06'32 Julian Calendar 1 Sept. 157 BCE == Greg. Calendar 29 Aug. 157 BCE

The year -156 astronomical counting style corresponds to year 157 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 157 BCE
geocentric

OCTOBER 157 BCE (-156) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 26 6	4♎46'30	25♍18	20°R12	18♌14	18°R16	8♌10	8°R 3	17°R15	2♐44	3°R43	19°R21	20♉47	12♉43	n.a.	S 1
S 2	0 30 3	5°46'42	10♎10	20°D 5	19°13	18♉12	8°19	8♒ 2	17♉13	2°46	3♓42	19♉15	20°44	12°50	n.a.	S 2
M 3	0 34 0	6°46'56	25°10	20♍ 9	20°12	18° 6	8°29	8° 0	17°11	2°47	3°41	19°11	20°40	12°57	n.a.	M 3
T 4	0 37 56	7°47'12	10♏ 7	20°24	21°12	17°59	8°38	7°59	17°10	2°49	3°40	19° 9	20°37	13° 3	n.a.	T 4
W 5	0 41 53	8°47'30	24°55	20°49	22°12	17°51	8°48	7°58	17° 8	2°50	3°39	19°D 9	20°34	13°10	n.a.	W 5
T 6	0 45 49	9°47'50	9♐28	21°24	23°13	17°43	8°57	7°57	17° 6	2°52	3°38	19°10	20°31	13°17	n.a.	T 6
F 7	0 49 46	10°48'11	23°41	22° 7	24°14	17°34	9° 6	7°56	17° 4	2°53	3°37	19°11	20°28	13°23	n.a.	F 7
S 8	0 53 42	11°48'33	7♑34	22°57	25°15	17°24	9°15	7°55	17° 2	2°55	3°36	19°R12	20°24	13°30	n.a.	S 8
S 9	0 57 39	12°48'57	21° 8	23°54	26°17	17°12	9°24	7°55	17° 0	2°56	3°35	19°12	20°21	13°37	n.a.	S 9
M10	1 1 35	13°49'23	4♒22	24°57	27°19	17° 1	9°33	7°54	16°58	2°58	3°34	19°10	20°18	13°43	n.a.	M10
T 11	1 5 32	14°49'50	17°21	26° 6	28°22	16°48	9°41	7°54	16°56	2°59	3°34	19° 7	20°15	13°50	n.a.	T 11
W12	1 9 29	15°50'18	0♓ 4	27°18	29°25	16°34	9°50	7°53	16°54	3° 1	3°33	19° 2	20°12	13°57	n.a.	W12
T 13	1 13 25	16°50'48	12°35	28°35	0♍28	16°20	9°58	7°53	16°52	3° 3	3°32	18°56	20° 9	14° 3	n.a.	T 13
F 14	1 17 22	17°51'19	24°54	29°54	1°32	16° 5	10° 6	7°53	16°50	3° 5	3°31	18°50	20° 5	14°10	n.a.	F 14
S 15	1 21 18	18°51'52	7♈ 4	1♎17	2°36	15°49	10°14	7°D53	16°48	3° 6	3°30	18°45	20° 2	14°16	n.a.	S 15
S 16	1 25 15	19°52'27	19° 5	2°41	3°40	15°33	10°22	7°53	16°46	3° 8	3°30	18°41	19°59	14°23	n.a.	S 16
M17	1 29 11	20°53'03	1♉ 0	4° 8	4°45	15°15	10°30	7°53	16°43	3°10	3°29	18°38	19°56	14°30	n.a.	M17
T 18	1 33 8	21°53'40	12°49	5°36	5°50	14°57	10°38	7°53	16°41	3°12	3°28	18°37	19°53	14°36	n.a.	T 18
W19	1 37 4	22°54'20	24°36	7° 5	6°55	14°39	10°46	7°54	16°39	3°13	3°27	18°D37	19°50	14°43	n.a.	W19
T 20	1 41 1	23°55'01	6♊23	8°36	8° 0	14°20	10°53	7°54	16°37	3°15	3°27	18°38	19°46	14°50	n.a.	T 20
F 21	1 44 58	24°55'44	18°14	10° 7	9° 6	14° 0	11° 1	7°55	16°34	3°17	3°26	18°39	19°43	14°56	n.a.	F 21
S 22	1 48 54	25°56'28	0♋12	11°39	10°12	13°40	11° 8	7°55	16°32	3°19	3°25	18°41	19°40	15° 3	n.a.	S 22
S 23	1 52 51	26°57'14	12°22	13°12	11°19	13°19	11°15	7°56	16°30	3°21	3°25	18°42	19°37	15°10	n.a.	S 23
M24	1 56 47	27°58'02	24°49	14°45	12°25	12°57	11°22	7°57	16°27	3°23	3°24	18°R43	19°34	15°16	n.a.	M24
T 25	2 0 44	28°58'52	7♌37	16°18	13°32	12°36	11°29	7°58	16°25	3°25	3°23	18°43	19°30	15°23	n.a.	T 25
W26	2 4 40	29°59'43	20°49	17°52	14°39	12°14	11°35	7°59	16°23	3°27	3°23	18°42	19°27	15°30	n.a.	W26
T 27	2 8 37	1♏ 0'36	4♍30	19°26	15°47	11°51	11°42	8° 0	16°20	3°29	3°22	18°40	19°24	15°36	n.a.	T 27
F 28	2 12 33	2° 1'30	18°38	21° 0	16°54	11°28	11°48	8° 2	16°18	3°31	3°22	18°38	19°21	15°43	n.a.	F 28
S 29	2 16 30	3° 2'25	3♎13	22°34	18° 2	11° 5	11°54	8° 3	16°15	3°33	3°21	18°36	19°18	15°49	n.a.	S 29
S 30	2 20 27	4° 3'23	18° 8	24° 8	19°10	10°42	12° 0	8° 5	16°13	3°35	3°21	18°34	19°15	15°56	n.a.	S 30
M31	2 24 23	5♏ 4'21	3♏17	25♎42	20♍18	10♉19	12♌ 6	8♒ 6	16♉10	3♐37	3♓20	18♉33	19♉11	16♉ 3	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	1s55	5n43	4n10	4n52	1n 1	14n52	0s42	16n35	0s55	19n15	0n51	20s 6	1s42	16n56	0s15	19s38	1n20	25s50	16s51	17n46	18n 9	15n 9		n.a.
S 2	2 19	1s 5	3 15	5 7	1 15	14 40	0 36	16 36	0 53	19 13	0 51	20 6	1 41	16 56	0 15	19 38	1 20	25 50	16 50	17 44	18 8	15 12		n.a.
M 3	2 43	7 53	2 6	5 17	1 28	14 27	0 29	16 36	0 51	19 11	0 51	20 6	1 41	16 55	0 15	19 39	1 20	25 50	16 50	17 43	18 8	15 15		n.a.
T 4	3 7	14 15	0 49	5 21	1 39	14 14	0 23	16 36	0 49	19 8	0 52	20 7	1 41	16 55	0 15	19 39	1 20	25 51	16 50	17 43	18 7	15 17		n.a.
W 5	3 31	19 43	0s31	5 20	1 48	14 0	0 17	16 36	0 47	19 6	0 52	20 7	1 41	16 54	0 15	19 39	1 20	25 51	16 50	17 43	18 6	15 20		n.a.
T 6	3 55	23 55	1 48	5 13	1 56	13 46	0 11	16 36	0 44	19 4	0 52	20 7	1 41	16 54	0 15	19 40	1 20	25 51	16 50	17 43	18 5	15 23		n.a.
F 7	4 19	26 31	2 57	5 1	2 2	13 31	0 5	16 36	0 42	19 2	0 52	20 7	1 41	16 53	0 15	19 40	1 20	25 51	16 49	17 43	18 4	15 26		n.a.
S 8	4 43	27 23	3 53	4 46	2 6	13 16	0n 1	16 35	0 40	18 59	0 53	20 7	1 41	16 53	0 15	19 40	1 20	25 51	16 49	17 44	18 3	15 29		n.a.
S 9	5 7	26 34	4 35	4 26	2 10	13 0	0 7	16 34	0 37	18 57	0 53	20 7	1 41	16 52	0 15	19 41	1 20	25 51	16 49	17 44	18 2	15 32		n.a.
M10	5 31	24 16	5 2	4 2	2 12	12 44	0 12	16 33	0 35	18 55	0 53	20 7	1 41	16 52	0 15	19 41	1 20	25 51	16 49	17 43	18 2	15 35		n.a.
T 11	5 55	20 45	5 12	3 36	2 13	12 27	0 18	16 32	0 32	18 53	0 53	20 7	1 41	16 51	0 15	19 42	1 20	25 52	16 48	17 42	18 1	15 37		n.a.
W12	6 18	16 20	5 6	3 7	2 13	12 10	0 23	16 30	0 30	18 51	0 53	20 7	1 40	16 50	0 15	19 42	1 20	25 52	16 48	17 41	18 0	15 40		n.a.
T 13	6 42	11 18	4 46	2 36	2 13	11 53	0 28	16 29	0 27	18 49	0 54	20 7	1 40	16 50	0 15	19 42	1 20	25 52	16 48	17 39	17 59	15 43		n.a.
F 14	7 5	5 54	4 13	2 2	2 11	11 34	0 33	16 27	0 25	18 47	0 54	20 7	1 40	16 49	0 15	19 43	1 20	25 52	16 48	17 38	17 58	15 46		n.a.
S 15	7 28	0 21	3 28	1 27	2 9	11 16	0 38	16 25	0 22	18 45	0 54	20 7	1 40	16 49	0 15	19 43	1 20	25 52	16 47	17 36	17 57	15 49		n.a.
S 16	7 52	5n10	2 35	0 51	2 6	10 57	0 43	16 22	0 20	18 43	0 54	20 7	1 40	16 48	0 15	19 43	1 20	25 52	16 47	17 35	17 56	15 52		n.a.
M17	8 15	10 28	1 35	0 13	2 3	10 37	0 48	16 20	0 17	18 41	0 55	20 7	1 40	16 47	0 15	19 44	1 20	25 52	16 47	17 34	17 56	15 54		n.a.
T 18	8 38	15 22	0 32	0s26	1 59	10 18	0 53	16 17	0 14	18 39	0 55	20 7	1 40	16 47	0 15	19 44	1 20	25 52	16 47	17 34	17 55	15 57		n.a.
W19	9 0	19 40	0n33	1 6	1 54	9 57	0 57	16 14	0 11	18 37	0 55	20 7	1 40	16 46	0 15	19 45	1 20	25 52	16 46	17 34	17 54	16 0		n.a.
T 20	9 23	23 12	1 36	1 46	1 49	9 37	1 1	16 11	0 9	18 35	0 55	20 6	1 40	16 45	0 15	19 45	1 20	25 52	16 46	17 34	17 53	16 3		n.a.
F 21	9 46	25 47	2 36	2 27	1 44	9 15	1 6	16 8	0 6	18 33	0 55	20 6	1 40	16 45	0 15	19 45	1 20	25 52	16 46	17 34	17 52	16 6		n.a.
S 22	10 8	27 13	3 30	3 9	1 39	8 54	1 10	16 4	0 3	18 32	0 56	20 6	1 39	16 44	0 15	19 46	1 19	25 52	16 46	17 35	17 51	16 8		n.a.
S 23	10 30	27 22	4 15	3 50	1 33	8 32	1 14	16 1	0 0	18 30	0 56	20 6	1 39	16 43	0 15	19 46	1 19	25 52	16 45	17 35	17 50	16 11		n.a.
M24	10 52	26 9	4 49	4 32	1 27	8 10	1 17	15 57	0n 2	18 28	0 56	20 5	1 39	16 43	0 15	19 46	1 19	25 52	16 45	17 36	17 50	16 14		n.a.
T 25	11 14	23 34	5 10	5 14	1 21	7 47	1 21	15 53	0 5	18 26	0 56	20 5	1 39	16 42	0 15	19 47	1 19	25 52	16 45	17 36	17 49	16 17		n.a.
W26	11 36	19 42	5 16	5 56	1 15	7 24	1 25	15 49	0 8	18 25	0 57	20 4	1 39	16 41	0 15	19 47	1 19	25 52	16 44	17 35	17 48	16 20		n.a.
T 27	11 58	14 41	5 4	6 38	1 9	7 1	1 28	15 44	0 11	18 23	0 57	20 4	1 39	16 41	0 15	19 48	1 19	25 52	16 44	17 35	17 47	16 22		n.a.
F 28	12 19	8 44	4 34	7 19	1 2	6 38	1 31	15 40	0 14	18 22	0 57	20 4	1 39	16 40	0 15	19 48	1 19	25 52	16 44	17 34	17 46	16 25		n.a.
S 29	12 40	2 9	3 46	8 1	0 56	6 14	1 35	15 35	0 17	18 20	0 57	20 3	1 39	16 39	0 15	19 49	1 19	25 52	16 43	17 33	17 45	16 28		n.a.
S 30	13 1	4s43	2 41	8 42	0 49	5 50	1 38	15 31	0 19	18 19	0 58	20 3	1 39	16 39	0 15	19 49	1 19	25 52	16 43	17 33	17 44	16 31		n.a.
M31	13s22	11s27	1n24	9s23	0n42	5n25	1n41	15n26	0n22	18n17	0n58	20s 2	1s39	16n38	0s15	19s49	1n19	25s51	16s43	17n33	17n43	16n34		n.a.

Julian Day Number = 1664352.5, Delta T = 03h24m00s
Ecliptic obliquity = 23°42'57, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°13'28, Lahiri = - 6°06'28 Julian Calendar 1 Oct. 157 BCE == Greg. Calendar 28 Sept. 157 BCE

The year -156 astronomical counting style corresponds to year 157 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 157 BCE
geocentric

NOVEMBER 157 BCE (-156) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 28 20	6♏ 5'20	18♏30	27♎16	21♍27	9°R55	12♌12	8♒ 8	16°R 8	3♐39	3°R20	18°D32	19♉ 8	16♉ 9	n.a.	T 1
W 2	2 32 16	7° 6'21	3♐38	28°50	22°35	9♉32	12°17	8°10	16♉ 5	3°41	3♓19	18♉33	19° 5	16°16	n.a.	W 2
T 3	2 36 13	8° 7'23	18°31	0♏24	23°44	9° 9	12°23	8°12	16° 3	3°43	3°19	18°33	19° 2	16°23	n.a.	T 3
F 4	2 40 9	9° 8'25	3♑ 3	1°59	24°53	8°45	12°28	8°14	16° 0	3°45	3°19	18°34	18°59	16°29	n.a.	F 4
S 5	2 44 6	10° 9'29	17°10	3°33	26° 2	8°22	12°33	8°16	15°58	3°47	3°18	18°35	18°56	16°36	n.a.	S 5
S 6	2 48 2	11°10'33	0♒51	5° 7	27°12	7°59	12°38	8°18	15°55	3°49	3°18	18°35	18°52	16°43	n.a.	S 6
M 7	2 51 59	12°11'37	14° 8	6°41	28°21	7°37	12°43	8°21	15°53	3°51	3°18	18°R36	18°49	16°49	n.a.	M 7
T 8	2 55 56	13°12'42	27° 2	8°15	29°31	7°14	12°47	8°23	15°50	3°54	3°17	18°35	18°46	16°56	n.a.	T 8
W 9	2 59 52	14°13'48	9♓38	9°49	0♎40	6°52	12°52	8°26	15°48	3°56	3°17	18°35	18°43	17° 3	n.a.	W 9
T 10	3 3 49	15°14'54	21°57	11°23	1°50	6°30	12°56	8°28	15°45	3°58	3°17	18°34	18°40	17° 9	n.a.	T 10
F 11	3 7 45	16°16'01	4♈ 4	12°57	3° 0	6° 9	13° 0	8°31	15°42	4° 0	3°16	18°34	18°36	17°16	n.a.	F 11
S 12	3 11 42	17°17'08	16° 3	14°32	4°11	5°48	13° 4	8°34	15°40	4° 2	3°16	18°34	18°33	17°23	n.a.	S 12
S 13	3 15 38	18°18'16	27°55	16° 6	5°21	5°28	13° 8	8°37	15°37	4° 4	3°16	18°D34	18°30	17°29	n.a.	S 13
M14	3 19 35	19°19'25	9♉44	17°40	6°32	5° 8	13°11	8°40	15°35	4° 7	3°16	18°34	18°27	17°36	n.a.	M14
T 15	3 23 31	20°20'34	21°32	19°15	7°42	4°49	13°14	8°43	15°32	4° 9	3°16	18°R34	18°24	17°42	n.a.	T 15
W16	3 27 28	21°21'44	3♊20	20°49	8°53	4°30	13°18	8°47	15°30	4°11	3°16	18°34	18°21	17°49	n.a.	W16
T 17	3 31 25	22°22'55	15°12	22°24	10° 4	4°12	13°21	8°50	15°27	4°13	3°16	18°33	18°17	17°56	n.a.	T 17
F 18	3 35 21	23°24'06	27° 9	23°59	11°15	3°55	13°23	8°53	15°25	4°16	3°16	18°33	18°14	18° 2	n.a.	F 18
S 19	3 39 18	24°25'18	9♋14	25°34	12°26	3°38	13°26	8°57	15°22	4°18	3°15	18°32	18°11	18° 9	n.a.	S 19
S 20	3 43 14	25°26'30	21°29	27° 9	13°37	3°22	13°28	9° 0	15°20	4°20	3°D15	18°31	18° 8	18°16	n.a.	S 20
M21	3 47 11	26°27'44	3♌58	28°44	14°49	3° 7	13°31	9° 4	15°17	4°22	3°15	18°30	18° 5	18°22	n.a.	M21
T 22	3 51 7	27°28'57	16°44	0♐20	16° 0	2°52	13°33	9° 8	15°15	4°25	3°15	18°30	18° 1	18°29	n.a.	T 22
W23	3 55 4	28°30'12	29°50	1°55	17°12	2°38	13°35	9°12	15°12	4°27	3°16	18°D30	17°58	18°36	n.a.	W23
T 24	3 59 1	29°31'27	13♍19	3°31	18°23	2°25	13°36	9°16	15°10	4°29	3°16	18°30	17°55	18°42	n.a.	T 24
F 25	4 2 57	0♐32'42	27°12	5° 8	19°35	2°13	13°38	9°20	15° 7	4°31	3°16	18°31	17°52	18°49	n.a.	F 25
S 26	4 6 54	1°33'58	11♎31	6°44	20°47	2° 2	13°39	9°24	15° 5	4°34	3°16	18°32	17°49	18°56	n.a.	S 26
S 27	4 10 50	2°35'14	26°12	8°21	21°59	1°51	13°40	9°28	15° 3	4°36	3°16	18°33	17°46	19° 2	n.a.	S 27
M28	4 14 47	3°36'31	11♏11	9°58	23°11	1°41	13°41	9°33	15° 0	4°38	3°16	18°R33	17°42	19° 9	n.a.	M28
T 29	4 18 43	4°37'48	26°21	11°35	24°23	1°32	13°42	9°37	14°58	4°40	3°16	18°33	17°39	19°15	n.a.	T 29
W30	4 22 40	5♐39'06	11♐32	13♐12	25♎35	1♉24	13♌42	9♒42	14♉55	4♐43	3♓17	18♉33	17♉36	19♉22	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13 s42	17 s32	0n 0	10 s 4	0n36	5n 1	1n43	15n21	0n25	18n16	0n58	20 s 1	1 s38	16n37	0 s15	19 s50	1n19	25 s51	16 s42	17n33	17n43	16n36		n.a.
W 2	14 3	22 29	1 s23	10 44	0 29	4 36	1 46	15 16	0 28	18 15	0 58	20 1	1 38	16 36	0 15	19 50	1 19	25 51	16 42	17 33	17 42	16 39		n.a.
T 3	14 23	25 51	2 39	11 24	0 22	4 10	1 49	15 11	0 30	18 13	0 59	20 0	1 38	16 36	0 15	19 51	1 19	25 51	16 42	17 33	17 41	16 42		n.a.
F 4	14 42	27 24	3 43	12 3	0 15	3 45	1 51	15 6	0 33	18 12	0 59	20 0	1 38	16 35	0 15	19 51	1 19	25 51	16 41	17 33	17 40	16 45		n.a.
S 5	15 2	27 5	4 31	12 42	0 9	3 19	1 53	15 1	0 36	18 11	0 59	19 59	1 38	16 34	0 15	19 51	1 19	25 51	16 41	17 33	17 39	16 47		n.a.
S 6	15 21	25 7	5 3	13 21	0 2	2 53	1 55	14 56	0 38	18 10	0 59	19 58	1 38	16 34	0 15	19 52	1 19	25 51	16 41	17 33	17 38	16 50		n.a.
M 7	15 40	21 49	5 17	13 59	0 s 5	2 27	1 58	14 51	0 41	18 9	1 0	19 58	1 38	16 33	0 15	19 52	1 19	25 50	16 40	17 33	17 37	16 53		n.a.
T 8	15 59	17 33	5 14	14 36	0 11	2 1	1 59	14 46	0 43	18 8	1 0	19 57	1 38	16 32	0 15	19 53	1 19	25 50	16 40	17 33	17 36	16 56		n.a.
W 9	16 18	12 37	4 57	15 12	0 18	1 35	2 1	14 41	0 46	18 7	1 0	19 56	1 38	16 31	0 15	19 53	1 19	25 50	16 40	17 33	17 35	16 58		n.a.
T 10	16 36	7 17	4 26	15 48	0 24	1 8	2 3	14 36	0 48	18 6	1 1	19 55	1 37	16 31	0 15	19 54	1 19	25 50	16 39	17 33	17 35	17 1		n.a.
F 11	16 54	1 46	3 43	16 24	0 31	0 41	2 5	14 32	0 51	18 5	1 1	19 54	1 37	16 30	0 15	19 54	1 19	25 50	16 39	17 33	17 34	17 4		n.a.
S 12	17 11	3n45	2 51	16 58	0 37	0 15	2 6	14 27	0 53	18 4	1 1	19 53	1 37	16 29	0 15	19 54	1 19	25 49	16 39	17 33	17 33	17 7		n.a.
S 13	17 29	9 7	1 52	17 32	0 43	0 s12	2 7	14 22	0 56	18 3	1 1	19 53	1 37	16 28	0 15	19 55	1 19	25 49	16 38	17 33	17 32	17 9		n.a.
M14	17 46	14 8	0 49	18 5	0 49	0 39	2 9	14 18	0 58	18 2	1 2	19 52	1 37	16 28	0 15	19 55	1 19	25 49	16 38	17 33	17 31	17 12		n.a.
T 15	18 2	18 37	0n16	18 37	0 55	1 7	2 10	14 13	1 0	18 2	1 2	19 51	1 37	16 27	0 15	19 56	1 19	25 49	16 38	17 33	17 30	17 15		n.a.
W16	18 19	22 24	1 21	19 9	1 1	1 34	2 11	14 9	1 2	18 1	1 2	19 50	1 37	16 26	0 15	19 56	1 19	25 48	16 37	17 33	17 29	17 18		n.a.
T 17	18 35	25 15	2 23	19 39	1 6	2 1	2 11	14 5	1 5	18 0	1 2	19 49	1 37	16 25	0 15	19 57	1 19	25 48	16 37	17 33	17 28	17 20		n.a.
F 18	18 50	27 0	3 19	20 9	1 12	2 29	2 12	14 1	1 7	18 0	1 3	19 48	1 37	16 25	0 15	19 57	1 19	25 48	16 37	17 33	17 27	17 23		n.a.
S 19	19 6	27 29	4 6	20 37	1 17	2 56	2 13	13 57	1 9	17 59	1 3	19 47	1 37	16 24	0 15	19 57	1 19	25 47	16 36	17 32	17 27	17 26		n.a.
S 20	19 21	26 38	4 43	21 5	1 22	3 23	2 13	13 53	1 11	17 59	1 3	19 46	1 36	16 23	0 15	19 58	1 19	25 47	16 36	17 32	17 26	17 29		n.a.
M21	19 35	24 27	5 7	21 32	1 27	3 51	2 14	13 50	1 13	17 58	1 4	19 45	1 36	16 23	0 15	19 58	1 19	25 47	16 36	17 32	17 25	17 31		n.a.
T 22	19 49	21 2	5 17	21 57	1 32	4 18	2 14	13 46	1 14	17 58	1 4	19 43	1 36	16 22	0 15	19 59	1 19	25 46	16 35	17 32	17 24	17 34		n.a.
W23	20 3	16 30	5 11	22 22	1 36	4 46	2 14	13 43	1 16	17 58	1 4	19 42	1 36	16 21	0 15	19 59	1 19	25 46	16 35	17 32	17 23	17 37		n.a.
T 24	20 17	11 3	4 48	22 45	1 41	5 13	2 14	13 40	1 18	17 58	1 4	19 41	1 36	16 20	0 15	20 0	1 19	25 46	16 34	17 32	17 22	17 39		n.a.
F 25	20 30	4 54	4 8	23 7	1 45	5 41	2 14	13 38	1 20	17 57	1 5	19 40	1 36	16 20	0 15	20 0	1 19	25 45	16 34	17 32	17 21	17 42		n.a.
S 26	20 43	1 s41	3 11	23 28	1 48	6 8	2 14	13 35	1 21	17 57	1 5	19 39	1 36	16 19	0 15	20 1	1 19	25 45	16 34	17 32	17 20	17 45		n.a.
S 27	20 55	8 21	2 1	23 47	1 52	6 35	2 14	13 33	1 23	17 57	1 5	19 38	1 36	16 18	0 15	20 1	1 19	25 45	16 33	17 33	17 19	17 47		n.a.
M28	21 7	14 43	0 41	24 6	1 55	7 3	2 14	13 31	1 24	17 57	1 6	19 36	1 36	16 18	0 15	20 1	1 19	25 44	16 33	17 33	17 18	17 50		n.a.
T 29	21 19	20 15	0 s43	24 23	1 58	7 30	2 13	13 29	1 26	17 57	1 6	19 35	1 36	16 17	0 14	20 2	1 19	25 44	16 33	17 33	17 18	17 53		n.a.
W30	21 s30	24 s28	2 s 4	24 s38	2 s 0	7 s57	2n13	13n27	1n27	17n58	1n 6	19 s34	1 s36	16n16	0 s14	20 s 2	1n19	25 s43	16 s32	17n33	17n17	17n56		n.a.

Julian Day Number = 1664383.5, Delta T = 03h23m59s
Ecliptic obliquity = 23°42'57, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°13'24, Lahiri = - 6°06'23 Julian Calendar 1 Nov. 157 BCE == Greg. Calendar 29 Oct. 157 BCE

The year -156 astronomical counting style corresponds to year 157 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 157 BCE
geocentric

DECEMBER 157 BCE (-156) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 26 36	6♐40'23	26♐35	14♐50	26♎48	1°R17	13♑43	9♒46	14°R53	4♐45	3♓17	18°R31	17♉33	19♉29	n.a.	T 1
F 2	4 30 33	7°41'40	11♏20	16°27	28° 0	1♉10	13°R43	9°51	14♉51	4°47	3°17	18♉28	17°30	19°35	n.a.	F 2
S 3	4 34 30	8°42'57	25°42	18° 5	29°12	1° 4	13°43	9°55	14°49	4°50	3°17	18°25	17°27	19°42	n.a.	S 3
S 4	4 38 26	9°44'14	9♒37	19°43	0♏25	1° 0	13°42	10° 0	14°46	4°52	3°18	18°23	17°23	19°49	n.a.	S 4
M 5	4 42 23	10°45'30	23° 3	21°21	1°37	0°56	13°42	10° 5	14°44	4°54	3°18	18°21	17°20	19°55	n.a.	M 5
T 6	4 46 19	11°46'45	6♓ 2	22°59	2°50	0°52	13°41	10°10	14°42	4°56	3°18	18°D19	17°17	20° 2	n.a.	T 6
W 7	4 50 16	12°48'00	18°38	24°37	4° 3	0°50	13°40	10°15	14°40	4°59	3°19	18°19	17°14	20° 9	n.a.	W 7
T 8	4 54 12	13°49'14	0♈55	26°15	5°15	0°48	13°39	10°20	14°38	5° 1	3°19	18°20	17°11	20°15	n.a.	T 8
F 9	4 58 9	14°50'28	12°57	27°53	6°28	0°48	13°38	10°25	14°35	5° 3	3°20	18°22	17° 7	20°22	n.a.	F 9
S 10	5 2 5	15°51'42	24°50	29°30	7°41	0°D48	13°37	10°31	14°33	5° 5	3°20	18°24	17° 4	20°29	n.a.	S 10
S 11	5 6 2	16°52'54	6♉38	1♏ 6	8°54	0°48	13°35	10°36	14°31	5° 8	3°21	18°26	17° 1	20°35	n.a.	S 11
M12	5 9 59	17°54'07	18°24	2°42	10° 7	0°50	13°33	10°41	14°29	5°10	3°21	18°R26	16°58	20°42	n.a.	M12
T 13	5 13 55	18°55'18	0♊13	4°17	11°20	0°52	13°31	10°47	14°27	5°12	3°22	18°25	16°55	20°49	n.a.	T 13
W14	5 17 52	19°56'29	12° 6	5°50	12°33	0°55	13°29	10°52	14°25	5°14	3°22	18°23	16°52	20°55	n.a.	W14
T 15	5 21 48	20°57'40	24° 6	7°22	13°46	0°59	13°27	10°58	14°23	5°16	3°23	18°19	16°48	21° 2	n.a.	T 15
F 16	5 25 45	21°58'50	6♋14	8°52	14°59	1° 3	13°24	11° 4	14°22	5°19	3°23	18°14	16°45	21° 8	n.a.	F 16
S 17	5 29 41	22°59'59	18°32	10°20	16°12	1° 8	13°21	11° 9	14°20	5°21	3°24	18° 7	16°42	21°15	n.a.	S 17
S 18	5 33 38	24° 1'08	1♌ 1	11°45	17°25	1°14	13°18	11°15	14°18	5°23	3°25	18° 1	16°39	21°22	n.a.	S 18
M19	5 37 35	25° 2'16	13°41	13° 6	18°39	1°21	13°15	11°21	14°16	5°25	3°25	17°54	16°36	21°28	n.a.	M19
T 20	5 41 31	26° 3'24	26°35	14°23	19°52	1°28	13°12	11°27	14°14	5°27	3°26	17°49	16°33	21°35	n.a.	T 20
W21	5 45 28	27° 4'31	9♍44	15°36	21° 5	1°36	13° 8	11°33	14°13	5°30	3°27	17°46	16°29	21°42	n.a.	W21
T 22	5 49 24	28° 5'38	23° 9	16°43	22°19	1°44	13° 5	11°39	14°11	5°32	3°27	17°D45	16°26	21°48	n.a.	T 22
F 23	5 53 21	29° 6'44	6♎52	17°44	23°32	1°53	13° 1	11°45	14° 9	5°34	3°28	17°45	16°23	21°55	n.a.	F 23
S 24	5 57 17	0♏ 7'50	20°53	18°38	24°45	2° 3	12°57	11°51	14° 8	5°36	3°29	17°46	16°20	22° 2	n.a.	S 24
S 25	6 1 14	1° 8'54	5♏14	19°24	25°59	2°13	12°53	11°57	14° 6	5°38	3°30	17°47	16°17	22° 8	n.a.	S 25
M26	6 5 10	2° 9'59	19°50	20° 2	27°12	2°24	12°48	12° 4	14° 5	5°40	3°30	17°R48	16°13	22°15	n.a.	M26
T 27	6 9 7	3°11'02	4♐40	20°30	28°26	2°35	12°44	12°10	14° 3	5°42	3°31	17°46	16°10	22°22	n.a.	T 27
W28	6 13 4	4°12'05	19°35	20°47	29°39	2°47	12°39	12°16	14° 2	5°44	3°32	17°43	16° 7	22°28	n.a.	W28
T 29	6 17 0	5°13'07	4♏28	20°R54	0♐53	3° 0	12°34	12°23	14° 1	5°46	3°33	17°37	16° 4	22°35	n.a.	T 29
F 30	6 20 57	6°14'08	19°11	20°50	2° 7	3°13	12°29	12°29	13°59	5°48	3°34	17°30	16° 1	22°42	n.a.	F 30
S 31	6 24 53	7♏15'08	3♒35	20♏34	3♐20	3♉27	12♑24	12♒36	13♉58	5♐50	3♓35	17♉21	15♉58	22♉48	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	21 s40	26 s55	3 s15	24 s52	2 s 3	8 s24	2n12	13n26	1n29	17n58	1n 6	19 s32	1 s36	16n16	0 s14	20 s 3	1n19	25 s43	16 s32	17n32	17n16	17n58			n.a.
F 2	21 51	27 25	4 12	25 5	2 4	8 50	2 12	13 25	1 30	17 58	1 7	19 31	1 35	16 15	0 14	20 3	1 19	25 42	16 32	17 31	17 15	18 1			n.a.
S 3	22 1	26 1	4 51	25 16	2 6	9 17	2 11	13 24	1 31	17 58	1 7	19 30	1 35	16 14	0 14	20 3	1 19	25 42	16 31	17 31	17 14	18 4			n.a.
S 4	22 10	23 3	5 12	25 25	2 7	9 43	2 10	13 24	1 32	17 59	1 7	19 28	1 35	16 14	0 14	20 4	1 19	25 42	16 31	17 30	17 13	18 6			n.a.
M 5	22 19	18 56	5 15	25 33	2 7	10 10	2 9	13 23	1 34	17 59	1 8	19 27	1 35	16 13	0 14	20 4	1 19	25 41	16 31	17 29	17 12	18 9			n.a.
T 6	22 28	14 3	5 1	25 39	2 7	10 36	2 8	13 23	1 35	17 59	1 8	19 25	1 35	16 12	0 14	20 5	1 19	25 41	16 30	17 29	17 11	18 12			n.a.
W 7	22 36	8 43	4 33	25 43	2 7	11 2	2 7	13 23	1 36	18 0	1 8	19 24	1 35	16 12	0 14	20 5	1 19	25 40	16 30	17 29	17 10	18 14			n.a.
T 8	22 43	3 11	3 53	25 46	2 6	11 27	2 5	13 24	1 37	18 1	1 8	19 23	1 35	16 11	0 14	20 6	1 19	25 40	16 29	17 29	17 9	18 17			n.a.
F 9	22 51	2n22	3 3	25 46	2 4	11 53	2 4	13 24	1 38	18 1	1 9	19 21	1 35	16 10	0 14	20 6	1 19	25 39	16 29	17 30	17 9	18 19			n.a.
S 10	22 57	7 46	2 6	25 45	2 2	12 18	2 3	13 25	1 39	18 2	1 9	19 19	1 35	16 10	0 14	20 6	1 19	25 39	16 29	17 30	17 8	18 22			n.a.
S 11	23 4	12 52	1 4	25 42	1 59	12 43	2 1	13 26	1 40	18 3	1 9	19 18	1 35	16 9	0 14	20 7	1 19	25 38	16 28	17 31	17 7	18 25			n.a.
M12	23 9	17 30	0 0	25 37	1 56	13 8	2 0	13 28	1 41	18 3	1 10	19 16	1 35	16 9	0 14	20 7	1 19	25 38	16 28	17 31	17 6	18 27			n.a.
T 13	23 15	21 28	1n 4	25 31	1 52	13 32	1 58	13 29	1 41	18 4	1 10	19 15	1 35	16 8	0 14	20 8	1 19	25 37	16 28	17 31	17 5	18 30			n.a.
W14	23 20	24 35	2 6	25 22	1 47	13 56	1 56	13 31	1 42	18 5	1 10	19 13	1 35	16 7	0 14	20 8	1 19	25 37	16 27	17 30	17 4	18 33			n.a.
T 15	23 24	26 38	3 3	25 12	1 41	14 20	1 55	13 33	1 43	18 6	1 10	19 12	1 35	16 7	0 14	20 8	1 19	25 36	16 27	17 29	17 3	18 35			n.a.
F 16	23 28	27 26	3 52	24 59	1 35	14 43	1 53	13 35	1 44	18 7	1 11	19 10	1 35	16 6	0 14	20 9	1 19	25 36	16 27	17 27	17 2	18 38			n.a.
S 17	23 32	26 53	4 31	24 45	1 27	15 6	1 51	13 38	1 44	18 8	1 11	19 8	1 34	16 6	0 14	20 9	1 19	25 35	16 26	17 26	17 1	18 41			n.a.
S 18	23 35	25 0	4 57	24 30	1 19	15 29	1 49	13 41	1 45	18 9	1 11	19 7	1 34	16 5	0 14	20 10	1 19	25 35	16 26	17 24	17 0	18 43			n.a.
M19	23 37	21 51	5 10	24 13	1 9	15 52	1 47	13 43	1 46	18 11	1 12	19 5	1 34	16 5	0 14	20 10	1 19	25 34	16 26	17 22	16 59	18 46			n.a.
T 20	23 39	17 36	5 7	23 54	0 59	16 14	1 45	13 47	1 46	18 12	1 12	19 3	1 34	16 4	0 14	20 10	1 19	25 33	16 25	17 20	16 58	18 48			n.a.
W21	23 41	12 27	4 48	23 35	0 48	16 35	1 43	13 50	1 47	18 13	1 12	19 1	1 34	16 4	0 14	20 11	1 19	25 33	16 25	17 20	16 58	18 51			n.a.
T 22	23 42	6 37	4 14	23 15	0 35	16 56	1 40	13 53	1 47	18 14	1 12	19 0	1 34	16 3	0 14	20 11	1 19	25 32	16 25	17 19	16 57	18 54			n.a.
F 23	23 43	0 22	3 24	22 53	0 22	17 17	1 38	13 57	1 48	18 16	1 13	18 58	1 34	16 3	0 14	20 11	1 19	25 32	16 24	17 19	16 56	18 56			n.a.
S 24	23 43	6 s 4	2 21	22 32	0 8	17 38	1 36	14 1	1 48	18 17	1 13	18 56	1 34	16 2	0 14	20 12	1 19	25 31	16 24	17 19	16 55	18 59			n.a.
S 25	23 43	12 21	1 8	22 10	0n 8	17 58	1 34	14 5	1 49	18 19	1 13	18 54	1 34	16 2	0 14	20 12	1 19	25 31	16 24	17 20	16 54	19 1			n.a.
M26	23 42	18 5	0 s11	21 48	0 24	18 17	1 31	14 9	1 49	18 20	1 13	18 53	1 34	16 2	0 14	20 12	1 19	25 30	16 24	17 20	16 53	19 4			n.a.
T 27	23 41	22 47	1 30	21 27	0 41	18 36	1 29	14 13	1 50	18 22	1 14	18 51	1 34	16 1	0 14	20 13	1 19	25 29	16 23	17 20	16 52	19 7			n.a.
W28	23 39	26 1	2 43	21 7	0 59	18 54	1 26	14 18	1 50	18 23	1 14	18 49	1 34	16 1	0 14	20 13	1 19	25 29	16 23	17 19	16 51	19 9			n.a.
T 29	23 37	27 23	3 45	20 48	1 17	19 12	1 24	14 23	1 50	18 25	1 14	18 47	1 34	16 0	0 14	20 14	1 19	25 28	16 23	17 17	16 50	19 12			n.a.
F 30	23 34	26 48	4 31	20 31	1 35	19 30	1 21	14 27	1 51	18 27	1 15	18 45	1 34	16 0	0 14	20 14	1 19	25 28	16 22	17 15	16 49	19 14			n.a.
S 31	23 s31	24 s24	4 s58	20 s15	1n53	19 s47	1n18	14n33	1n51	18n28	1n15	18 s43	1 s34	16n 0	0 s14	20 s14	1n19	25 s27	16 s22	17n13	16n48	19n17			n.a.

Julian Day Number = 1664413.5, Delta T = 03h23m58s
Ecliptic obliquity = 23°42'56, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°13'20, Lahiri = - 6°06'19 Julian Calendar 1 Dec. 157 BCE == Greg. Calendar 28 Nov. 157 BCE

The year -156 astronomical counting style corresponds to year 157 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 156 BCE
geocentric

JANUARY 156 BCE (-155) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 28 50	8♉16'06	17♒36	20°R 7	4♐34	3♉41	12°R19	12♒42	13°R57	5♐52	3♓36	17°R13	15♉54	22♉55	n.a.	S 1
M 2	6 32 46	9°17'02	1♓ 9	19♉29	5°48	3°56	12♌13	12°49	13♉56	5°54	3°37	17♉ 6	15°51	23° 1	n.a.	M 2
T 3	6 36 43	10°17'58	14°15	18°42	7° 1	4°11	12° 8	12°56	13°55	5°56	3°38	17° 0	15°48	23° 8	n.a.	T 3
W 4	6 40 39	11°18'51	26°56	17°46	8°15	4°27	12° 2	13° 2	13°54	5°58	3°39	16°57	15°45	23°15	n.a.	W 4
T 5	6 44 36	12°19'43	9♈15	16°43	9°29	4°43	11°56	13° 9	13°53	6° 0	3°40	16°D56	15°42	23°21	n.a.	T 5
F 6	6 48 33	13°20'34	21°19	15°35	10°42	4°59	11°50	13°16	13°52	6° 2	3°41	16°56	15°39	23°28	n.a.	F 6
S 7	6 52 29	14°21'23	3♉11	14°24	11°56	5°16	11°44	13°23	13°51	6° 4	3°42	16°57	15°35	23°35	n.a.	S 7
S 8	6 56 26	15°22'10	14°58	13°12	13°10	5°34	11°37	13°29	13°50	6° 6	3°43	16°R58	15°32	23°41	n.a.	S 8
M 9	7 0 22	16°22'56	26°45	12° 0	14°23	5°52	11°31	13°36	13°49	6° 8	3°44	16°57	15°29	23°48	n.a.	M 9
T 10	7 4 19	17°23'40	8♊36	10°52	15°37	6°10	11°24	13°43	13°48	6°10	3°45	16°54	15°26	23°55	n.a.	T 10
W11	7 8 15	18°24'23	20°35	9°47	16°51	6°29	11°18	13°50	13°48	6°11	3°46	16°49	15°23	24° 1	n.a.	W11
T 12	7 12 12	19°25'03	2♋44	8°49	18° 5	6°48	11°11	13°57	13°47	6°13	3°47	16°41	15°19	24° 8	n.a.	T 12
F 13	7 16 9	20°25'43	15° 6	7°56	19°18	7° 8	11° 4	14° 4	13°46	6°15	3°48	16°31	15°16	24°15	n.a.	F 13
S 14	7 20 5	21°26'20	27°41	7°11	20°32	7°28	10°57	14°11	13°46	6°17	3°49	16°20	15°13	24°21	n.a.	S 14
S 15	7 24 2	22°26'56	10♌29	6°34	21°46	7°48	10°50	14°18	13°45	6°18	3°50	16° 7	15°10	24°28	n.a.	S 15
M16	7 27 58	23°27'31	23°30	6° 5	23° 0	8° 8	10°43	14°25	13°45	6°20	3°52	15°56	15° 7	24°35	n.a.	M16
T 17	7 31 55	24°28'04	6♍42	5°43	24°14	8°29	10°36	14°33	13°44	6°22	3°53	15°46	15° 4	24°41	n.a.	T 17
W18	7 35 51	25°28'35	20° 6	5°30	25°28	8°51	10°28	14°40	13°44	6°23	3°54	15°38	15° 0	24°48	n.a.	W18
T 19	7 39 48	26°29'06	3♎40	5°D23	26°41	9°12	10°21	14°47	13°44	6°25	3°55	15°34	14°57	24°54	n.a.	T 19
F 20	7 43 44	27°29'34	17°24	5°24	27°55	9°34	10°13	14°54	13°43	6°27	3°56	15°32	14°54	25° 1	n.a.	F 20
S 21	7 47 41	28°30'01	1♏20	5°31	29° 9	9°57	10° 6	15° 1	13°43	6°28	3°58	15°D31	14°51	25° 8	n.a.	S 21
S 22	7 51 38	29°30'27	15°26	5°45	0♉23	10°19	9°58	15° 9	13°43	6°30	3°59	15°R32	14°48	25°14	n.a.	S 22
M23	7 55 34	0♒30'52	29°42	6° 5	1°37	10°42	9°51	15°16	13°43	6°31	4° 0	15°31	14°45	25°21	n.a.	M23
T 24	7 59 31	1°31'15	14♐ 6	6°30	2°51	11° 5	9°43	15°23	13°D43	6°33	4° 2	15°28	14°41	25°28	n.a.	T 24
W25	8 3 27	2°31'36	28°35	7° 0	4° 5	11°29	9°35	15°31	13°43	6°34	4° 3	15°23	14°38	25°34	n.a.	W25
T 26	8 7 24	3°31'56	13♉ 4	7°35	5°19	11°53	9°28	15°38	13°43	6°36	4° 4	15°15	14°35	25°41	n.a.	T 26
F 27	8 11 20	4°32'14	27°27	8°14	6°33	12°17	9°20	15°45	13°43	6°37	4° 5	15° 4	14°32	25°48	n.a.	F 27
S 28	8 15 17	5°32'30	11♒37	8°57	7°46	12°41	9°12	15°53	13°43	6°39	4° 7	14°52	14°29	25°54	n.a.	S 28
S 29	8 19 13	6°32'44	25°29	9°44	9° 0	13° 6	9° 4	16° 0	13°44	6°40	4° 8	14°39	14°25	26° 1	n.a.	S 29
M30	8 23 10	7°32'56	8♓58	10°35	10°14	13°31	8°56	16° 7	13°44	6°41	4° 9	14°28	14°22	26° 8	n.a.	M30
T 31	8 27 7	8♒33'06	22♓ 4	11♉29	11♉28	13♉56	8♌48	16♒15	13♉44	6♐43	4♓11	14♉18	14♉19	26♉14	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	23s27	20s36	5s 7	20s 2	2n11	20s 3	1n16	14n38	1n51	18n30	1n15	18s41	1s34	15n59	0s14	20s15	1n19	25s26	16s22	17n10	16n47	19n19			n.a.
M 2	23 23	15 49	4 58	19 50	2 28	20 19	1 13	14 43	1 51	18 32	1 15	18 39	1 34	15 59	0 14	20 15	1 19	25 26	16 21	17 8	16 46	19 22			n.a.
T 3	23 19	10 28	4 33	19 41	2 45	20 35	1 10	14 48	1 52	18 34	1 15	18 37	1 34	15 59	0 14	20 15	1 19	25 25	16 21	17 6	16 46	19 24			n.a.
W 4	23 14	4 50	3 56	19 33	2 59	20 49	1 8	14 54	1 52	18 36	1 16	18 36	1 34	15 58	0 14	20 16	1 19	25 24	16 21	17 6	16 45	19 27			n.a.
T 5	23 8	0n50	3 8	19 28	3 12	21 4	1 5	15 0	1 52	18 37	1 16	18 34	1 34	15 58	0 14	20 16	1 19	25 24	16 21	17 5	16 44	19 30			n.a.
F 6	23 2	6 21	2 13	19 25	3 23	21 17	1 2	15 6	1 52	18 39	1 16	18 32	1 34	15 58	0 14	20 16	1 19	25 23	16 20	17 5	16 43	19 32			n.a.
S 7	22 56	11 34	1 13	19 25	3 32	21 30	0 59	15 12	1 53	18 41	1 16	18 30	1 34	15 57	0 14	20 16	1 19	25 23	16 20	17 5	16 42	19 35			n.a.
S 8	22 49	16 21	0 11	19 25	3 39	21 43	0 56	15 18	1 53	18 43	1 17	18 28	1 34	15 57	0 14	20 17	1 19	25 22	16 20	17 6	16 41	19 37			n.a.
M 9	22 42	20 30	0n52	19 28	3 43	21 54	0 54	15 24	1 53	18 45	1 17	18 26	1 34	15 57	0 14	20 17	1 19	25 21	16 20	17 6	16 40	19 40			n.a.
T 10	22 34	23 51	1 53	19 32	3 45	22 5	0 51	15 30	1 53	18 47	1 17	18 24	1 34	15 57	0 14	20 17	1 19	25 21	16 19	17 5	16 39	19 42			n.a.
W11	22 26	26 12	2 50	19 38	3 44	22 16	0 48	15 37	1 53	18 49	1 17	18 21	1 34	15 57	0 14	20 18	1 19	25 20	16 19	17 3	16 38	19 45			n.a.
T 12	22 17	27 20	3 39	19 44	3 41	22 26	0 45	15 43	1 53	18 52	1 17	18 19	1 34	15 56	0 14	20 18	1 19	25 19	16 19	17 1	16 37	19 47			n.a.
F 13	22 9	27 8	4 19	19 52	3 37	22 35	0 42	15 50	1 53	18 54	1 18	18 17	1 34	15 56	0 14	20 18	1 19	25 19	16 19	16 58	16 36	19 50			n.a.
S 14	21 59	25 33	4 47	20 1	3 30	22 44	0 39	15 57	1 53	18 56	1 18	18 15	1 34	15 56	0 14	20 19	1 19	25 18	16 18	16 55	16 35	19 52			n.a.
S 15	21 49	22 38	5 1	20 10	3 23	22 51	0 36	16 3	1 53	18 58	1 18	18 13	1 34	15 56	0 14	20 19	1 19	25 17	16 18	16 51	16 34	19 55			n.a.
M16	21 39	18 33	5 0	20 21	3 14	22 59	0 33	16 10	1 53	19 0	1 18	18 11	1 34	15 56	0 14	20 19	1 19	25 17	16 18	16 48	16 33	19 57			n.a.
T 17	21 28	13 31	4 43	20 31	3 4	23 5	0 30	16 17	1 54	19 2	1 18	18 9	1 34	15 56	0 14	20 19	1 19	25 16	16 18	16 45	16 32	20 0			n.a.
W18	21 17	7 47	4 10	20 42	2 54	23 11	0 27	16 24	1 54	19 4	1 19	18 7	1 34	15 56	0 14	20 20	1 19	25 15	16 17	16 43	16 32	20 2			n.a.
T 19	21 6	1 37	3 23	20 54	2 43	23 16	0 24	16 31	1 54	19 7	1 19	18 5	1 34	15 56	0 14	20 20	1 19	25 15	16 17	16 41	16 31	20 5			n.a.
F 20	20 54	4s42	2 23	21 5	2 31	23 21	0 21	16 38	1 54	19 9	1 19	18 3	1 34	15 56	0 14	20 20	1 19	25 14	16 17	16 41	16 30	20 7			n.a.
S 21	20 42	10 54	1 15	21 17	2 19	23 24	0 18	16 45	1 54	19 11	1 19	18 0	1 34	15 56	0 14	20 20	1 19	25 13	16 17	16 41	16 29	20 10			n.a.
S 22	20 29	16 38	0 1	21 28	2 8	23 27	0 16	16 53	1 54	19 13	1 19	17 58	1 34	15 55	0 13	20 21	1 19	25 13	16 17	16 41	16 28	20 12			n.a.
M23	20 16	21 32	1s14	21 39	1 55	23 30	0 13	17 0	1 54	19 16	1 19	17 56	1 34	15 55	0 13	20 21	1 19	25 12	16 16	16 41	16 27	20 15			n.a.
T 24	20 3	25 10	2 25	21 50	1 43	23 31	0 10	17 7	1 54	19 18	1 19	17 54	1 34	15 55	0 13	20 21	1 19	25 11	16 16	16 40	16 26	20 17			n.a.
W25	19 49	27 9	3 27	22 0	1 31	23 32	0 7	17 15	1 53	19 20	1 20	17 52	1 34	15 56	0 13	20 21	1 19	25 11	16 16	16 38	16 25	20 19			n.a.
T 26	19 35	27 18	4 15	22 10	1 20	23 32	0 4	17 22	1 53	19 22	1 20	17 50	1 34	15 56	0 13	20 22	1 19	25 10	16 16	16 36	16 24	20 22			n.a.
F 27	19 21	25 35	4 47	22 20	1 8	23 32	0 1	17 30	1 53	19 24	1 20	17 47	1 34	15 56	0 13	20 22	1 19	25 9	16 16	16 33	16 23	20 24			n.a.
S 28	19 6	22 18	5 0	22 28	0 56	23 31	0s 2	17 37	1 53	19 27	1 20	17 45	1 34	15 56	0 13	20 22	1 19	25 9	16 16	16 29	16 22	20 27			n.a.
S 29	18 51	17 48	4 55	22 36	0 45	23 29	0 4	17 45	1 53	19 29	1 20	17 43	1 34	15 56	0 13	20 22	1 19	25 8	16 15	16 25	16 21	20 29			n.a.
M30	18 36	12 31	4 34	22 43	0 34	23 26	0 7	17 52	1 53	19 31	1 20	17 41	1 34	15 56	0 13	20 22	1 19	25 7	16 15	16 22	16 20	20 32			n.a.
T 31	18s20	6s50	3s59	22s50	0n23	23s23	0s10	18n 0	1n53	19n33	1n20	17s39	1s34	15n56	0s13	20s23	1n19	25s 7	16s15	16n19	16n19	20n34			n.a.

Julian Day Number = 1664444.5, Delta T = 03h23m57s
Ecliptic obliquity = 23°42'56, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°13'15, Lahiri = - 6°06'15 Julian Calendar 1 Jan. 156 BCE == Greg. Calendar 29 Dec. 157 BCE

The year -155 astronomical counting style corresponds to year 156 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 156 BCE
geocentric

FEBRUARY 156 BCE (-155) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	8 31 3	9♒33'13	4♈46	12♉25	12♉42	14♉21	8°R40	16♒22	13♉45	6♐44	4♓12	14°R12	14♉16	26♉21	n.a.	W 1
T 2	8 35 0	10°33'19	17° 8	13°25	13°56	14°47	8♌33	16°30	13°45	6°45	4°14	14♉ 8	14°13	26°28	n.a.	T 2
F 3	8 38 56	11°33'22	29°13	14°27	15°10	15°12	8°25	16°37	13°46	6°46	4°15	14° 6	14°10	26°34	n.a.	F 3
S 4	8 42 53	12°33'23	11♉ 8	15°31	16°24	15°39	8°17	16°44	13°46	6°48	4°16	14° 6	14° 6	26°41	n.a.	S 4
S 5	8 46 49	13°33'22	22°56	16°38	17°38	16° 5	8° 9	16°52	13°47	6°49	4°18	14° 6	14° 3	26°48	n.a.	S 5
M 6	8 50 46	14°33'19	4♊44	17°47	18°52	16°31	8° 1	16°59	13°47	6°50	4°19	14° 5	14° 0	26°54	n.a.	M 6
T 7	8 54 42	15°33'13	16°37	18°58	20° 5	16°58	7°54	17° 7	13°48	6°51	4°21	14° 2	13°57	27° 1	n.a.	T 7
W 8	8 58 39	16°33'05	28°40	20°11	21°19	17°25	7°46	17°14	13°49	6°52	4°22	13°57	13°54	27° 7	n.a.	W 8
T 9	9 2 36	17°32'55	10♋57	21°26	22°33	17°52	7°38	17°22	13°50	6°53	4°23	13°48	13°51	27°14	n.a.	T 9
F 10	9 6 32	18°32'43	23°30	22°42	23°47	18°19	7°31	17°29	13°51	6°54	4°25	13°37	13°47	27°21	n.a.	F 10
S 11	9 10 29	19°32'28	6♌20	24° 1	25° 1	18°47	7°23	17°37	13°52	6°55	4°26	13°25	13°44	27°27	n.a.	S 11
S 12	9 14 25	20°32'11	19°29	25°21	26°15	19°15	7°16	17°44	13°52	6°56	4°28	13°12	13°41	27°34	n.a.	S 12
M13	9 18 22	21°31'52	2♍52	26°42	27°29	19°42	7° 8	17°52	13°54	6°57	4°29	12°59	13°38	27°41	n.a.	M13
T 14	9 22 18	22°31'31	16°30	28° 5	28°43	20°11	7° 1	17°59	13°55	6°58	4°31	12°48	13°35	27°47	n.a.	T 14
W15	9 26 15	23°31'08	0♎17	29°30	29°56	20°39	6°53	18° 6	13°56	6°59	4°32	12°40	13°31	27°54	n.a.	W15
T 16	9 30 11	24°30'43	14°12	0♒56	1♒10	21° 7	6°46	18°14	13°57	7° 0	4°34	12°35	13°28	28° 1	n.a.	T 16
F 17	9 34 8	25°30'16	28°12	2°23	2°24	21°36	6°39	18°21	13°58	7° 0	4°35	12°32	13°25	28° 7	n.a.	F 17
S 18	9 38 4	26°29'47	12♏15	3°52	3°38	22° 4	6°32	18°29	13°59	7° 1	4°37	12°D32	13°22	28°14	n.a.	S 18
S 19	9 42 1	27°29'17	26°20	5°22	4°52	22°33	6°25	18°36	14° 1	7° 2	4°38	12°R32	13°19	28°21	n.a.	S 19
M20	9 45 58	28°28'45	10♐27	6°54	6° 6	23° 2	6°18	18°43	14° 2	7° 3	4°40	12°31	13°16	28°27	n.a.	M20
T 21	9 49 54	29°28'11	24°34	8°27	7°20	23°32	6°11	18°51	14° 3	7° 3	4°41	12°29	13°12	28°34	n.a.	T 21
W22	9 53 51	0♓27'35	8♑40	10° 1	8°34	24° 1	6° 5	18°58	14° 5	7° 4	4°43	12°24	13° 9	28°41	n.a.	W22
T 23	9 57 47	1°26'57	22°43	11°37	9°47	24°30	5°58	19° 6	14° 6	7° 5	4°44	12°17	13° 6	28°47	n.a.	T 23
F 24	10 1 44	2°26'17	6♒38	13°14	11° 1	25° 0	5°52	19°13	14° 8	7° 5	4°46	12° 7	13° 3	28°54	n.a.	F 24
S 25	10 5 40	3°25'35	20°23	14°53	12°15	25°30	5°46	19°20	14°10	7° 6	4°47	11°56	13° 0	29° 1	n.a.	S 25
S 26	10 9 37	4°24'51	3♓53	16°32	13°29	26° 0	5°39	19°27	14°11	7° 6	4°49	11°44	12°57	29° 7	n.a.	S 26
M27	10 13 33	5°24'05	17° 7	18°13	14°43	26°30	5°33	19°35	14°13	7° 7	4°50	11°34	12°53	29°14	n.a.	M27
T 28	10 17 30	6♓23'17	0♈ 1	19♒56	15♒57	27♉ 0	5♌27	19♒42	14♉15	7♐ 7	4♓52	11♉25	12♉50	29♉20	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	18s 4	1s 1	3s12	22s55	0n13	23s19	0s13	18n 8	1n53	19n36	1n20	17s36	1s34	15n56	0s13	20s23	1n19	25s 6	16s15	16n17	16n18	20n37		n.a.
T 2	17 48	4n41	2 18	22 59	0 3	23 14	0 15	18 15	1 53	19 38	1 20	17 34	1 34	15 56	0 13	20 23	1 19	25 5	16 15	16 16	16 17	20 39		n.a.
F 3	17 31	10 7	1 18	23 3	0s 7	23 9	0 18	18 23	1 53	19 40	1 21	17 32	1 34	15 56	0 13	20 23	1 20	25 5	16 15	16 15	16 16	20 41		n.a.
S 4	17 14	15 5	0 16	23 5	0 17	23 2	0 21	18 30	1 53	19 42	1 21	17 30	1 34	15 57	0 13	20 23	1 20	25 4	16 15	16 15	16 15	20 44		n.a.
S 5	16 57	19 28	0n47	23 6	0 26	22 56	0 23	18 38	1 53	19 44	1 21	17 27	1 34	15 57	0 13	20 23	1 20	25 3	16 14	16 15	16 14	20 46		n.a.
M 6	16 39	23 5	1 47	23 6	0 35	22 48	0 26	18 46	1 52	19 46	1 21	17 25	1 34	15 57	0 13	20 24	1 20	25 3	16 14	16 15	16 13	20 49		n.a.
T 7	16 21	25 44	2 43	23 4	0 43	22 40	0 29	18 53	1 52	19 48	1 21	17 23	1 34	15 57	0 13	20 24	1 20	25 2	16 14	16 14	16 13	20 51		n.a.
W 8	16 3	27 15	3 32	23 2	0 52	22 31	0 31	19 1	1 52	19 50	1 21	17 21	1 34	15 58	0 13	20 24	1 20	25 2	16 14	16 12	16 12	20 53		n.a.
T 9	15 45	27 28	4 13	22 58	0 59	22 21	0 34	19 9	1 52	19 52	1 21	17 18	1 34	15 58	0 13	20 24	1 20	25 1	16 14	16 10	16 11	20 56		n.a.
F 10	15 27	26 17	4 42	22 53	1 7	22 11	0 36	19 16	1 52	19 54	1 21	17 16	1 34	15 58	0 13	20 24	1 20	25 0	16 14	16 7	16 10	20 58		n.a.
S 11	15 8	23 42	4 58	22 46	1 14	22 0	0 38	19 24	1 52	19 56	1 21	17 14	1 35	15 58	0 13	20 24	1 20	25 0	16 14	16 3	16 9	21 1		n.a.
S 12	14 49	19 52	4 58	22 38	1 21	21 49	0 41	19 32	1 52	19 58	1 21	17 12	1 35	15 59	0 13	20 24	1 20	24 59	16 14	15 59	16 8	21 3		n.a.
M13	14 29	14 57	4 43	22 29	1 27	21 36	0 43	19 39	1 52	20 0	1 21	17 9	1 35	15 59	0 13	20 25	1 20	24 58	16 14	15 55	16 7	21 5		n.a.
T 14	14 10	9 14	4 11	22 18	1 33	21 24	0 45	19 47	1 51	20 2	1 21	17 7	1 35	15 59	0 13	20 25	1 20	24 58	16 14	15 52	16 6	21 8		n.a.
W15	13 50	2 59	3 24	22 6	1 39	21 10	0 47	19 54	1 51	20 4	1 21	17 5	1 35	16 0	0 13	20 25	1 20	24 57	16 14	15 49	16 5	21 10		n.a.
T 16	13 30	3s27	2 24	21 52	1 44	20 56	0 50	20 2	1 51	20 6	1 21	17 3	1 35	16 0	0 13	20 25	1 20	24 56	16 13	15 47	16 4	21 12		n.a.
F 17	13 10	9 47	1 15	21 37	1 49	20 41	0 52	20 9	1 51	20 8	1 21	17 0	1 35	16 1	0 13	20 25	1 20	24 56	16 13	15 47	16 3	21 15		n.a.
S 18	12 50	15 40	0 1	21 21	1 53	20 26	0 54	20 17	1 51	20 10	1 21	16 58	1 35	16 1	0 13	20 25	1 20	24 55	16 13	15 47	16 2	21 17		n.a.
S 19	12 29	20 44	1s13	21 2	1 57	20 10	0 56	20 24	1 50	20 11	1 21	16 56	1 35	16 1	0 13	20 25	1 20	24 55	16 13	15 47	16 1	21 19		n.a.
M20	12 8	24 37	2 22	20 43	2 1	19 54	0 58	20 31	1 50	20 13	1 21	16 54	1 35	16 2	0 13	20 25	1 20	24 54	16 13	15 46	16 0	21 22		n.a.
T 21	11 47	26 59	3 23	20 21	2 4	19 37	1 0	20 39	1 50	20 15	1 21	16 51	1 35	16 2	0 13	20 25	1 20	24 53	16 13	15 46	15 59	21 24		n.a.
W22	11 26	27 37	4 12	19 58	2 7	19 19	1 2	20 46	1 50	20 17	1 21	16 49	1 35	16 3	0 13	20 25	1 20	24 53	16 13	15 44	15 58	21 26		n.a.
T 23	11 5	26 27	4 45	19 34	2 9	19 1	1 3	20 53	1 50	20 18	1 21	16 47	1 35	16 3	0 13	20 25	1 20	24 52	16 13	15 42	15 57	21 29		n.a.
F 24	10 44	23 40	5 1	19 8	2 11	18 42	1 5	21 0	1 50	20 20	1 21	16 45	1 36	16 4	0 13	20 26	1 20	24 52	16 13	15 39	15 56	21 31		n.a.
S 25	10 22	19 34	4 59	18 40	2 12	18 23	1 7	21 7	1 49	20 21	1 21	16 42	1 36	16 4	0 13	20 26	1 20	24 51	16 13	15 35	15 55	21 33		n.a.
S 26	10 0	14 32	4 40	18 11	2 13	18 4	1 8	21 15	1 49	20 23	1 21	16 40	1 36	16 5	0 13	20 26	1 20	24 51	16 13	15 32	15 54	21 36		n.a.
M27	9 38	8 55	4 7	17 40	2 14	17 43	1 10	21 22	1 49	20 24	1 21	16 38	1 36	16 5	0 13	20 26	1 20	24 50	16 13	15 29	15 53	21 38		n.a.
T 28	9s16	3s 3	3s21	17s 7	2s14	17s23	1s12	21n28	1n49	20n26	1n21	16s36	1s36	16n 6	0s13	20s26	1n20	24s49	16s13	15n26	15n52	21n40		n.a.

Julian Day Number = 1664475.5, Delta T = 03h23m56s
Ecliptic obliquity = 23°42'57, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°13'11, Lahiri = - 6°06'11 Julian Calendar 1 Feb. 156 BCE == Greg. Calendar 29 Jan. 156 BCE

The year -155 astronomical counting style corresponds to year 156 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 156 BCE
geocentric

MARCH 156 BCE (-155) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	10 21 27	7♓22'26	12♈37	21♒40	17♒11	27♉30	5°R22	19♒49	14♉17	7♐ 7	4♓53	11°R19	12♉47	29♉27	n.a.	W 1
T 2	10 25 23	8°21'33	24°56	23°25	18°24	28° 1	5♌16	19°56	14°18	7° 8	4°54	11♉15	12°44	29°34	n.a.	T 2
F 3	10 29 20	9°20'37	7♉ 1	25°12	19°38	28°31	5°11	20° 4	14°20	7° 8	4°56	11°D14	12°41	29°40	n.a.	F 3
S 4	10 33 16	10°19'40	18°56	27° 0	20°52	29° 2	5° 5	20°11	14°22	7° 8	4°57	11°14	12°37	29°47	n.a.	S 4
S 5	10 37 13	11°18'40	0♊45	28°49	22° 6	29°33	5° 0	20°18	14°24	7° 9	4°59	11°15	12°34	29°54	n.a.	S 5
M 6	10 41 9	12°17'37	12°34	0♓40	23°20	0♊ 4	4°55	20°25	14°26	7° 9	5° 0	11°R15	12°31	0♊ 0	n.a.	M 6
T 7	10 45 6	13°16'33	24°28	2°32	24°34	0°35	4°50	20°32	14°28	7° 9	5° 2	11°14	12°28	0° 7	n.a.	T 7
W 8	10 49 2	14°15'26	6♋32	4°26	25°47	1° 6	4°45	20°39	14°30	7° 9	5° 3	11°12	12°25	0°14	n.a.	W 8
T 9	10 52 59	15°14'16	18°52	6°21	27° 1	1°37	4°41	20°46	14°32	7° 9	5° 5	11° 7	12°22	0°20	n.a.	T 9
F 10	10 56 56	16°13'04	1♌31	8°18	28°15	2° 9	4°36	20°53	14°35	7°10	5° 6	11° 0	12°18	0°27	n.a.	F 10
S 11	11 0 52	17°11'50	14°31	10°16	29°29	2°40	4°32	21° 0	14°37	7°10	5° 8	10°51	12°15	0°34	n.a.	S 11
S 12	11 4 49	18°10'34	27°52	12°15	0♓43	3°12	4°28	21° 7	14°39	7°10	5° 9	10°42	12°12	0°40	n.a.	S 12
M13	11 8 45	19° 9'15	11♍35	14°16	1°56	3°43	4°24	21°14	14°41	7°R10	5°11	10°34	12° 9	0°47	n.a.	M13
T 14	11 12 42	20° 7'54	25°35	16°18	3°10	4°15	4°21	21°21	14°44	7°10	5°12	10°26	12° 6	0°54	n.a.	T 14
W15	11 16 38	21° 6'32	9♎48	18°21	4°24	4°47	4°17	21°28	14°46	7°10	5°14	10°21	12° 2	1° 0	n.a.	W15
T 16	11 20 35	22° 5'07	24° 9	20°25	5°38	5°19	4°14	21°35	14°48	7°10	5°15	10°18	11°59	1° 7	n.a.	T 16
F 17	11 24 31	23° 3'40	8♏34	22°30	6°51	5°51	4°10	21°41	14°51	7° 9	5°17	10°D16	11°56	1°14	n.a.	F 17
S 18	11 28 28	24° 2'12	22°56	24°36	8° 5	6°23	4° 7	21°48	14°53	7° 9	5°18	10°17	11°53	1°20	n.a.	S 18
S 19	11 32 24	25° 0'42	7♐15	26°43	9°19	6°55	4° 4	21°55	14°56	7° 9	5°19	10°18	11°50	1°27	n.a.	S 19
M20	11 36 21	25°59'10	21°26	28°50	10°33	7°27	4° 2	22° 1	14°59	7° 9	5°21	10°R19	11°47	1°34	n.a.	M20
T 21	11 40 18	26°57'37	5♑28	0♈58	11°46	8° 0	3°59	22° 8	15° 1	7° 9	5°22	10°19	11°43	1°40	n.a.	T 21
W22	11 44 14	27°56'02	19°21	3° 5	13° 0	8°32	3°57	22°15	15° 4	7° 8	5°24	10°17	11°40	1°47	n.a.	W22
T 23	11 48 11	28°54'25	3♒ 4	5°12	14°14	9° 5	3°55	22°21	15° 6	7° 8	5°25	10°13	11°37	1°53	n.a.	T 23
F 24	11 52 7	29°52'47	16°35	7°19	15°28	9°37	3°53	22°28	15° 9	7° 8	5°26	10° 8	11°34	2° 0	n.a.	F 24
S 25	11 56 4	0♈51'07	29°54	9°25	16°41	10°10	3°51	22°34	15°12	7° 7	5°28	10° 1	11°31	2° 7	n.a.	S 25
S 26	12 0 0	1°49'25	13♓ 0	11°29	17°55	10°43	3°49	22°40	15°15	7° 7	5°29	9°55	11°28	2°13	n.a.	S 26
M27	12 3 57	2°47'41	25°52	13°32	19° 9	11°16	3°48	22°47	15°17	7° 6	5°30	9°49	11°24	2°20	n.a.	M27
T 28	12 7 53	3°45'55	8♈29	15°33	20°23	11°49	3°47	22°53	15°20	7° 6	5°32	9°44	11°21	2°27	n.a.	T 28
W29	12 11 50	4°44'08	20°52	17°32	21°36	12°22	3°46	22°59	15°23	7° 5	5°33	9°40	11°18	2°33	n.a.	W29
T 30	12 15 47	5°42'18	3♉ 3	19°29	22°50	12°55	3°45	23° 5	15°26	7° 5	5°34	9°39	11°15	2°40	n.a.	T 30
F 31	12 19 43	6♈40'27	15♉ 3	21♈23	24♓ 4	13♊28	3♌44	23♒11	15♉29	7♐ 4	5♓36	9°D39	11♉12	2♊47	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	8s54	2n48	2s26	16s33	2s13	17s 1	1s13	21n35	1n49	20n27	1n21	16s33	1s36	16n 6	0s13	20s26	1n20	24s49	16s13	15n24	15n51	21n43			n.a.
T 2	8 32	8 26	1 26	15 57	2 12	16 40	1 14	21 42	1 48	20 28	1 21	16 31	1 36	16 7	0 13	20 26	1 20	24 48	16 13	15 23	15 50	21 45			n.a.
F 3	8 9	13 40	0 23	15 19	2 11	16 18	1 16	21 49	1 48	20 30	1 21	16 29	1 36	16 7	0 13	20 26	1 20	24 48	16 13	15 22	15 49	21 47			n.a.
S 4	7 47	18 19	0n41	14 40	2 9	15 55	1 17	21 56	1 48	20 31	1 20	16 27	1 36	16 8	0 13	20 26	1 21	24 47	16 13	15 22	15 48	21 49			n.a.
S 5	7 24	22 13	1 43	13 59	2 6	15 32	1 18	22 2	1 48	20 32	1 20	16 25	1 36	16 9	0 13	20 26	1 21	24 47	16 13	15 23	15 47	21 52			n.a.
M 6	7 2	25 12	2 40	13 17	2 3	15 9	1 19	22 9	1 47	20 33	1 20	16 22	1 37	16 9	0 13	20 26	1 21	24 46	16 13	15 23	15 46	21 54			n.a.
T 7	6 39	27 6	3 30	12 33	2 0	14 45	1 20	22 15	1 47	20 34	1 20	16 20	1 37	16 10	0 13	20 26	1 21	24 46	16 13	15 22	15 45	21 56			n.a.
W 8	6 16	27 45	4 12	11 47	1 56	14 21	1 21	22 22	1 47	20 35	1 20	16 18	1 37	16 11	0 13	20 26	1 21	24 45	16 14	15 22	15 44	21 58			n.a.
T 9	5 53	27 3	4 44	11 0	1 51	13 56	1 22	22 28	1 47	20 36	1 20	16 16	1 37	16 11	0 13	20 26	1 21	24 45	16 14	15 20	15 43	22 1			n.a.
F 10	5 30	24 57	5 2	10 11	1 46	13 31	1 23	22 34	1 46	20 37	1 20	16 14	1 37	16 12	0 13	20 26	1 21	24 44	16 14	15 18	15 42	22 3			n.a.
S 11	5 7	21 32	5 5	9 21	1 40	13 6	1 24	22 40	1 46	20 38	1 20	16 12	1 37	16 13	0 13	20 26	1 21	24 44	16 14	15 15	15 41	22 5			n.a.
S 12	4 44	16 55	4 53	8 29	1 34	12 40	1 25	22 46	1 46	20 39	1 20	16 9	1 37	16 13	0 13	20 26	1 21	24 43	16 14	15 12	15 40	22 7			n.a.
M13	4 20	11 21	4 23	7 36	1 27	12 14	1 26	22 52	1 46	20 40	1 20	16 7	1 37	16 14	0 12	20 26	1 21	24 43	16 14	15 10	15 39	22 10			n.a.
T 14	3 57	5 5	3 37	6 41	1 20	11 48	1 26	22 58	1 46	20 41	1 20	16 5	1 38	16 15	0 12	20 26	1 21	24 42	16 14	15 7	15 39	22 12			n.a.
W15	3 34	1s32	2 37	5 46	1 12	11 21	1 27	23 4	1 45	20 42	1 19	16 3	1 38	16 15	0 12	20 26	1 21	24 42	16 14	15 6	15 38	22 14			n.a.
T 16	3 10	8 9	1 26	4 49	1 4	10 54	1 27	23 9	1 45	20 42	1 19	16 1	1 38	16 16	0 12	20 26	1 21	24 41	16 14	15 5	15 37	22 16			n.a.
F 17	2 47	14 22	0 9	3 51	0 55	10 27	1 28	23 15	1 45	20 43	1 19	15 59	1 38	16 17	0 12	20 26	1 21	24 41	16 14	15 4	15 36	22 19			n.a.
S 18	2 24	19 49	1s 8	2 52	0 46	9 59	1 28	23 20	1 45	20 44	1 19	15 57	1 38	16 18	0 12	20 25	1 21	24 40	16 14	15 4	15 35	22 21			n.a.
S 19	2 0	24 5	2 21	1 52	0 36	9 32	1 28	23 26	1 44	20 44	1 19	15 55	1 38	16 18	0 12	20 25	1 21	24 40	16 15	15 5	15 34	22 23			n.a.
M20	1 37	26 50	3 24	0 52	0 26	9 4	1 28	23 31	1 44	20 45	1 19	15 53	1 38	16 19	0 12	20 25	1 21	24 39	16 15	15 5	15 33	22 25			n.a.
T 21	1 13	27 50	4 14	0n 9	0 16	8 35	1 29	23 36	1 44	20 45	1 19	15 51	1 38	16 20	0 12	20 25	1 21	24 39	16 15	15 5	15 32	22 27			n.a.
W22	0 50	27 4	4 49	1 10	0 5	8 7	1 29	23 41	1 43	20 46	1 19	15 49	1 39	16 21	0 12	20 25	1 21	24 39	16 15	15 4	15 31	22 30			n.a.
T 23	0 26	24 40	5 7	2 11	0n 6	7 38	1 29	23 46	1 43	20 46	1 18	15 47	1 39	16 22	0 12	20 25	1 21	24 38	16 15	15 3	15 30	22 32			n.a.
F 24	0 3	20 55	5 8	3 11	0 17	7 9	1 29	23 51	1 43	20 46	1 18	15 45	1 39	16 22	0 12	20 25	1 21	24 38	16 15	15 1	15 29	22 34			n.a.
S 25	0n21	16 10	4 51	4 12	0 28	6 40	1 29	23 55	1 43	20 47	1 18	15 43	1 39	16 23	0 12	20 25	1 21	24 37	16 15	14 59	15 28	22 36			n.a.
S 26	0 44	10 45	4 20	5 11	0 39	6 11	1 28	24 0	1 42	20 47	1 18	15 41	1 39	16 24	0 12	20 25	1 21	24 37	16 16	14 57	15 27	22 38			n.a.
M27	1 7	4 57	3 36	6 10	0 50	5 42	1 28	24 5	1 42	20 47	1 18	15 39	1 39	16 25	0 12	20 25	1 21	24 37	16 16	14 55	15 26	22 40			n.a.
T 28	1 31	0n56	2 42	7 7	1 0	5 12	1 28	24 9	1 42	20 47	1 18	15 37	1 40	16 26	0 12	20 25	1 21	24 36	16 16	14 54	15 25	22 43			n.a.
W29	1 54	6 41	1 41	8 3	1 11	4 42	1 28	24 13	1 42	20 47	1 18	15 35	1 40	16 27	0 12	20 24	1 21	24 36	16 16	14 53	15 24	22 45			n.a.
T 30	2 17	12 6	0 36	8 57	1 21	4 12	1 27	24 17	1 41	20 47	1 17	15 33	1 40	16 27	0 12	20 24	1 21	24 36	16 16	14 52	15 23	22 47			n.a.
F 31	2n41	17n 0	0n30	9n50	1n31	3s42	1s27	24n21	1n41	20n47	1n17	15s31	1s40	16n28	0s12	20s24	1n21	24s35	16s16	14n52	15n22	22n49			n.a.

Julian Day Number = 1664503.5, Delta T = 03h23m55s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°13'07, Lahiri = - 6°06'07 Julian Calendar 1 March 156 BCE == Greg. Calendar 26 Feb. 156 BCE

The year -155 astronomical counting style corresponds to year 156 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 156 BCE
geocentric

APRIL 156 BCE (-155) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 23 40	7♈38'34	26♉55	23♈14	25♓17	14♊ 1	3°R44	23♒17	15♉32	7°R 4	5♓37	9♉40	11♉ 8	2♊53	n.a.	S 1
S 2	12 27 36	8°36'38	8♊44	25° 2	26°31	14°35	3♌43	23°23	15°35	7♐ 3	5°38	9°41	11° 5	3° 0	n.a.	S 2
M 3	12 31 33	9°34'41	20°33	26°47	27°45	15° 8	3°D43	23°29	15°38	7° 2	5°40	9°43	11° 2	3° 7	n.a.	M 3
T 4	12 35 29	10°32'42	2♋27	28°28	28°59	15°42	3°43	23°35	15°41	7° 2	5°41	9°44	10°59	3°13	n.a.	T 4
W 5	12 39 26	11°30'41	14°31	0♉ 6	0♈12	16°15	3°44	23°41	15°44	7° 1	5°42	9°R45	10°56	3°20	n.a.	W 5
T 6	12 43 22	12°28'38	26°50	1°40	1°26	16°49	3°44	23°47	15°47	7° 0	5°43	9°44	10°53	3°27	n.a.	T 6
F 7	12 47 19	13°26'33	9♌29	3°10	2°40	17°23	3°45	23°53	15°50	7° 0	5°45	9°42	10°49	3°33	n.a.	F 7
S 8	12 51 16	14°24'26	22°30	4°36	3°53	17°56	3°46	23°58	15°53	6°59	5°46	9°39	10°46	3°40	n.a.	S 8
S 9	12 55 12	15°22'17	5♍56	5°59	5° 7	18°30	3°47	24° 4	15°56	6°58	5°47	9°35	10°43	3°47	n.a.	S 9
M10	12 59 9	16°20'06	19°46	7°17	6°20	19° 4	3°48	24° 9	15°59	6°57	5°48	9°32	10°40	3°53	n.a.	M10
T 11	13 3 5	17°17'53	4♎ 0	8°32	7°34	19°38	3°49	24°15	16° 3	6°56	5°49	9°29	10°37	4° 0	n.a.	T 11
W12	13 7 2	18°15'39	18°32	9°42	8°48	20°12	3°51	24°20	16° 6	6°55	5°51	9°27	10°34	4° 7	n.a.	W12
T 13	13 10 58	19°13'24	3♏16	10°48	10° 1	20°46	3°52	24°26	16° 9	6°54	5°52	9°D26	10°30	4°13	n.a.	T 13
F 14	13 14 55	20°11'07	18° 5	11°50	11°15	21°20	3°54	24°31	16°12	6°53	5°53	9°26	10°27	4°20	n.a.	F 14
S 15	13 18 51	21° 8'48	2♐53	12°47	12°29	21°54	3°56	24°36	16°15	6°52	5°54	9°27	10°24	4°27	n.a.	S 15
S 16	13 22 48	22° 6'29	17°32	13°40	13°42	22°28	3°58	24°41	16°19	6°51	5°55	9°28	10°21	4°33	n.a.	S 16
M17	13 26 44	23° 4'08	1♑58	14°29	14°56	23° 2	4° 1	24°46	16°22	6°50	5°56	9°29	10°18	4°40	n.a.	M17
T 18	13 30 41	24° 1'47	16° 8	15°13	16°10	23°37	4° 3	24°51	16°25	6°49	5°57	9°30	10°14	4°47	n.a.	T 18
W19	13 34 38	24°59'24	29°59	15°52	17°23	24°11	4° 6	24°56	16°29	6°48	5°58	9°R30	10°11	4°53	n.a.	W19
T 20	13 38 34	25°57'00	13♒33	16°27	18°37	24°46	4° 9	25° 1	16°32	6°47	5°59	9°29	10° 8	5° 0	n.a.	T 20
F 21	13 42 31	26°54'35	26°49	16°57	19°51	25°20	4°12	25° 6	16°35	6°46	6° 0	9°28	10° 5	5° 7	n.a.	F 21
S 22	13 46 27	27°52'09	9♓49	17°23	21° 4	25°55	4°15	25°11	16°39	6°45	6° 1	9°27	10° 2	5°13	n.a.	S 22
S 23	13 50 24	28°49'42	22°34	17°43	22°18	26°29	4°19	25°15	16°42	6°44	6° 2	9°25	9°59	5°20	n.a.	S 23
M24	13 54 20	29°47'13	5♈ 6	17°59	23°31	27° 4	4°22	25°20	16°46	6°42	6° 3	9°24	9°55	5°27	n.a.	M24
T 25	13 58 17	0♉44'44	17°25	18°10	24°45	27°38	4°26	25°24	16°49	6°41	6° 4	9°23	9°52	5°33	n.a.	T 25
W26	14 2 13	1°42'13	29°34	18°17	25°59	28°13	4°30	25°29	16°53	6°40	6° 5	9°22	9°49	5°40	n.a.	W26
T 27	14 6 10	2°39'42	11♉35	18°R19	27°12	28°48	4°34	25°33	16°56	6°39	6° 6	9°D22	9°46	5°46	n.a.	T 27
F 28	14 10 7	3°37'09	23°29	18°16	28°26	29°23	4°38	25°37	16°59	6°37	6° 7	9°23	9°43	5°53	n.a.	F 28
S 29	14 14 3	4°34'35	5♊18	18° 8	29°40	29°58	4°43	25°42	17° 3	6°36	6° 8	9°23	9°39	6° 0	n.a.	S 29
S 30	14 18 0	5♉32'00	17♊ 6	17♉57	0♉53	0♋33	4♌47	25♒46	17♉ 6	6♐35	6♓ 9	9♉23	9♉36	6♊ 6	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n 4	21n12	1n33	10n41	1n40	3s12	1s26	24n25	1n41	20n47	1n17	15s29	1s40	16n29	0s12	20s24	1n22	24s35	16s17	14n52	15n21	22n51		n.a.
S 2	3 27	24 31	2 33	11 29	1 49	2 42	1 25	24 29	1 41	20 47	1 17	15 27	1 40	16 30	0 12	20 24	1 22	24 35	16 17	14 53	15 20	22 53		n.a.
M 3	3 50	26 48	3 26	12 16	1 58	2 12	1 25	24 32	1 40	20 47	1 17	15 25	1 41	16 31	0 12	20 24	1 22	24 34	16 17	14 54	15 19	22 55		n.a.
T 4	4 13	27 52	4 10	13 0	2 5	1 42	1 24	24 36	1 40	20 47	1 17	15 24	1 41	16 32	0 12	20 24	1 22	24 34	16 17	14 54	15 18	22 57		n.a.
W 5	4 36	27 37	4 44	13 42	2 12	1 11	1 23	24 39	1 40	20 47	1 17	15 22	1 41	16 33	0 12	20 23	1 22	24 34	16 17	14 54	15 17	23 0		n.a.
T 6	4 59	26 2	5 6	14 21	2 19	0 41	1 22	24 42	1 39	20 47	1 16	15 20	1 41	16 34	0 12	20 23	1 22	24 33	16 18	14 54	15 16	23 2		n.a.
F 7	5 22	23 7	5 14	14 58	2 24	0 10	1 21	24 45	1 39	20 46	1 16	15 18	1 41	16 35	0 12	20 23	1 22	24 33	16 18	14 53	15 15	23 4		n.a.
S 8	5 45	18 59	5 6	15 32	2 29	0n20	1 20	24 48	1 39	20 46	1 16	15 17	1 41	16 35	0 12	20 23	1 22	24 33	16 18	14 52	15 14	23 6		n.a.
S 9	6 7	13 48	4 42	16 4	2 33	0 50	1 19	24 51	1 39	20 46	1 16	15 15	1 42	16 36	0 12	20 23	1 22	24 33	16 18	14 51	15 13	23 8		n.a.
M10	6 30	7 46	4 0	16 33	2 36	1 21	1 18	24 53	1 38	20 45	1 16	15 13	1 42	16 37	0 12	20 23	1 22	24 32	16 19	14 50	15 12	23 10		n.a.
T 11	6 52	1 11	3 3	17 0	2 38	1 51	1 17	24 56	1 38	20 45	1 16	15 12	1 42	16 38	0 12	20 23	1 22	24 32	16 19	14 49	15 11	23 12		n.a.
W12	7 14	5s36	1 53	17 24	2 40	2 22	1 16	24 58	1 38	20 44	1 15	15 10	1 42	16 39	0 12	20 22	1 22	24 32	16 19	14 48	15 10	23 14		n.a.
T 13	7 37	12 13	0 34	17 46	2 40	2 52	1 15	25 1	1 37	20 44	1 15	15 8	1 42	16 40	0 12	20 22	1 22	24 32	16 19	14 48	15 9	23 16		n.a.
F 14	7 59	18 11	0s48	18 5	2 40	3 23	1 13	25 3	1 37	20 43	1 15	15 7	1 43	16 41	0 12	20 22	1 22	24 32	16 20	14 48	15 8	23 18		n.a.
S 15	8 21	23 2	2 6	18 22	2 38	3 53	1 12	25 4	1 37	20 42	1 15	15 5	1 43	16 42	0 12	20 22	1 22	24 31	16 20	14 48	15 7	23 20		n.a.
S 16	8 42	26 22	3 15	18 36	2 36	4 23	1 11	25 6	1 36	20 42	1 15	15 4	1 43	16 43	0 12	20 22	1 22	24 31	16 20	14 49	15 6	23 22		n.a.
M17	9 4	27 53	4 11	18 47	2 32	4 53	1 9	25 8	1 36	20 41	1 15	15 2	1 43	16 44	0 12	20 21	1 22	24 31	16 20	14 49	15 5	23 24		n.a.
T 18	9 26	27 32	4 51	18 56	2 28	5 23	1 8	25 9	1 36	20 40	1 15	15 0	1 43	16 45	0 12	20 21	1 22	24 31	16 21	14 49	15 4	23 26		n.a.
W19	9 47	25 28	5 12	19 3	2 23	5 53	1 6	25 11	1 36	20 39	1 14	14 59	1 44	16 46	0 12	20 21	1 22	24 31	16 21	14 49	15 3	23 29		n.a.
T 20	10 8	21 58	5 16	19 7	2 16	6 23	1 5	25 12	1 35	20 39	1 14	14 58	1 44	16 47	0 12	20 21	1 22	24 30	16 21	14 49	15 2	23 31		n.a.
F 21	10 29	17 26	5 2	19 9	2 9	6 53	1 3	25 13	1 35	20 38	1 14	14 56	1 44	16 48	0 12	20 21	1 22	24 30	16 22	14 49	15 1	23 33		n.a.
S 22	10 50	12 11	4 33	19 8	2 0	7 22	1 1	25 14	1 35	20 37	1 14	14 55	1 44	16 49	0 12	20 20	1 22	24 30	16 22	14 48	15 0	23 35		n.a.
S 23	11 11	6 31	3 51	19 5	1 51	7 52	0 59	25 14	1 34	20 36	1 14	14 53	1 44	16 50	0 12	20 20	1 22	24 30	16 22	14 48	14 59	23 37		n.a.
M24	11 32	0 41	2 59	19 0	1 41	8 21	0 58	25 15	1 34	20 35	1 14	14 52	1 45	16 51	0 12	20 20	1 22	24 30	16 22	14 47	14 58	23 39		n.a.
T 25	11 52	5n 5	1 59	18 52	1 29	8 50	0 56	25 15	1 34	20 34	1 13	14 51	1 45	16 52	0 12	20 20	1 22	24 30	16 23	14 47	14 56	23 41		n.a.
W26	12 12	10 36	0 54	18 42	1 17	9 19	0 54	25 16	1 33	20 33	1 13	14 49	1 45	16 53	0 12	20 19	1 22	24 30	16 23	14 47	14 55	23 43		n.a.
T 27	12 32	15 41	0n12	18 30	1 4	9 47	0 52	25 16	1 33	20 31	1 13	14 48	1 45	16 54	0 12	20 19	1 22	24 30	16 23	14 47	14 54	23 45		n.a.
F 28	12 52	20 6	1 18	18 16	0 50	10 16	0 50	25 16	1 33	20 30	1 13	14 47	1 46	16 55	0 12	20 19	1 22	24 30	16 24	14 47	14 53	23 47		n.a.
S 29	13 12	23 43	2 19	18 0	0 35	10 44	0 48	25 15	1 32	20 29	1 13	14 46	1 46	16 56	0 12	20 19	1 22	24 30	16 24	14 47	14 52	23 48		n.a.
S 30	13n31	26n19	3n15	17n42	0n20	11n12	0s46	25n15	1n32	20n28	1n13	14s44	1s46	16n57	0s12	20s19	1n22	24s30	16s24	14n47	14n51	23n50		n.a.

Julian Day Number = 1664534.5, Delta T = 03h23m54s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°13'03, Lahiri = - 6°06'03 Julian Calendar 1 Apr. 156 BCE == Greg. Calendar 29 March 156 BCE

The year -155 astronomical counting style corresponds to year 156 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 156 BCE
geocentric

MAY 156 BCE (-155) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	14 21 56	6♉29'23	28♊56	17°R41	2♉ 7	1♋ 8	4♌52	25♒50	17♉10	6°R34	6♓10	9♉24	9♉33	6♊13	n.a.	M 1
T 2	14 25 53	7°26'46	10♋51	17♉22	3°21	1°43	4°57	25°54	17°13	6♐32	6°11	9°24	9°30	6°20	n.a.	T 2
W 3	14 29 49	8°24'07	22°55	16°59	4°34	2°18	5° 2	25°57	17°17	6°31	6°11	9°24	9°27	6°26	n.a.	W 3
T 4	14 33 46	9°21'27	5♌12	16°33	5°48	2°53	5° 7	26° 1	17°20	6°29	6°12	9°24	9°24	6°33	n.a.	T 4
F 5	14 37 43	10°18'46	17°48	16° 5	7° 1	3°28	5°13	26° 5	17°24	6°28	6°13	9°24	9°20	6°40	n.a.	F 5
S 6	14 41 39	11°16'04	0♍45	15°35	8°15	4° 3	5°18	26° 9	17°27	6°27	6°14	9°24	9°17	6°46	n.a.	S 6
S 7	14 45 36	12°13'20	14° 7	15° 2	9°29	4°39	5°24	26°12	17°31	6°25	6°14	9°24	9°14	6°53	n.a.	S 7
M 8	14 49 32	13°10'36	27°55	14°29	10°42	5°14	5°30	26°15	17°34	6°24	6°15	9°25	9°11	7° 0	n.a.	M 8
T 9	14 53 29	14° 7'50	12♎10	13°56	11°56	5°49	5°35	26°19	17°38	6°22	6°16	9°25	9° 8	7° 6	n.a.	T 9
W10	14 57 25	15° 5'03	26°48	13°22	13°10	6°25	5°42	26°22	17°42	6°21	6°17	9°25	9° 5	7°13	n.a.	W10
T 11	15 1 22	16° 2'16	11♏43	12°49	14°23	7° 0	5°48	26°25	17°45	6°19	6°17	9°R26	9° 1	7°20	n.a.	T 11
F 12	15 5 18	16°59'28	26°50	12°18	15°37	7°36	5°54	26°28	17°49	6°18	6°18	9°25	8°58	7°26	n.a.	F 12
S 13	15 9 15	17°56'39	11♐57	11°48	16°50	8°11	6° 1	26°31	17°52	6°16	6°18	9°25	8°55	7°33	n.a.	S 13
S 14	15 13 12	18°53'50	26°57	11°20	18° 4	8°47	6° 7	26°34	17°56	6°15	6°19	9°24	8°52	7°40	n.a.	S 14
M15	15 17 8	19°51'01	11♑41	10°56	19°18	9°23	6°14	26°37	17°59	6°13	6°20	9°23	8°49	7°46	n.a.	M15
T 16	15 21 5	20°48'11	26° 5	10°34	20°31	9°58	6°21	26°40	18° 3	6°12	6°20	9°22	8°45	7°53	n.a.	T 16
W17	15 25 1	21°45'21	10♒ 4	10°16	21°45	10°34	6°28	26°42	18° 6	6°10	6°21	9°21	8°42	8° 0	n.a.	W17
T 18	15 28 58	22°42'31	23°38	10° 2	22°59	11°10	6°35	26°45	18°10	6° 9	6°21	9°D21	8°39	8° 6	n.a.	T 18
F 19	15 32 54	23°39'40	6♓49	9°51	24°12	11°46	6°42	26°47	18°13	6° 7	6°22	9°21	8°36	8°13	n.a.	F 19
S 20	15 36 51	24°36'49	19°39	9°45	25°26	12°21	6°50	26°50	18°17	6° 6	6°22	9°22	8°33	8°20	n.a.	S 20
S 21	15 40 47	25°33'58	2♈11	9°D44	26°40	12°57	6°57	26°52	18°20	6° 4	6°23	9°23	8°30	8°26	n.a.	S 21
M22	15 44 44	26°31'07	14°29	9°47	27°53	13°33	7° 5	26°54	18°24	6° 2	6°23	9°24	8°26	8°33	n.a.	M22
T 23	15 48 41	27°28'16	26°35	9°55	29° 7	14° 9	7°13	26°56	18°27	6° 1	6°23	9°25	8°23	8°40	n.a.	T 23
W24	15 52 37	28°25'25	8♉33	10° 7	0♊21	14°45	7°21	26°58	18°31	5°59	6°24	9°R26	8°20	8°46	n.a.	W24
T 25	15 56 34	29°22'33	20°25	10°25	1°34	15°21	7°29	27° 0	18°34	5°58	6°24	9°26	8°17	8°53	n.a.	T 25
F 26	16 0 30	0♊19'42	2♊14	10°47	2°48	15°57	7°37	27° 2	18°38	5°56	6°25	9°24	8°14	9° 0	n.a.	F 26
S 27	16 4 27	1°16'50	14° 3	11°13	4° 2	16°34	7°45	27° 3	18°41	5°54	6°25	9°22	8°11	9° 6	n.a.	S 27
S 28	16 8 23	2°13'58	25°52	11°44	5°16	17°10	7°53	27° 5	18°45	5°53	6°25	9°18	8° 7	9°13	n.a.	S 28
M29	16 12 20	3°11'06	7♋45	12°20	6°29	17°46	8° 2	27° 6	18°48	5°51	6°25	9°14	8° 4	9°20	n.a.	M29
T 30	16 16 16	4° 8'13	19°43	13° 1	7°43	18°22	8°10	27° 8	18°52	5°50	6°26	9°11	8° 1	9°26	n.a.	T 30
W31	16 20 13	5♊ 5'20	1♌51	13♉46	8♊57	18♋59	8♌19	27♒ 9	18♉55	5♐48	6♓26	9♉ 7	7♉58	9♊33	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	13n50	27n45	4n 2	17n22	0n 4	11n39	0s44	25n14	1n32	20n26	1n13	14s43	1s46	16n58	0s12	20s18	1n22	24s29	16s25	14n47	14n50	23n52			n.a.
T 2	14 9	27 54	4 39	17 1	0s13	12 7	0 42	25 14	1 31	20 25	1 12	14 42	1 46	16 59	0 12	20 18	1 22	24 29	16 25	14 47	14 49	23 54			n.a.
W 3	14 28	26 45	5 5	16 38	0 30	12 34	0 40	25 13	1 31	20 24	1 12	14 41	1 47	17 0	0 12	20 18	1 22	24 29	16 25	14 47	14 48	23 56			n.a.
T 4	14 47	24 18	5 17	16 14	0 47	13 1	0 38	25 12	1 31	20 22	1 12	14 40	1 47	17 1	0 12	20 18	1 22	24 29	16 26	14 48	14 47	23 58			n.a.
F 5	15 5	20 39	5 14	15 49	1 4	13 27	0 36	25 11	1 31	20 21	1 12	14 39	1 47	17 2	0 12	20 17	1 22	24 29	16 26	14 48	14 46	24 0			n.a.
S 6	15 23	15 56	4 56	15 24	1 21	13 53	0 34	25 9	1 30	20 19	1 12	14 38	1 47	17 3	0 12	20 17	1 22	24 29	16 26	14 48	14 45	24 2			n.a.
S 7	15 41	10 20	4 21	14 59	1 38	14 19	0 31	25 8	1 30	20 18	1 12	14 37	1 48	17 4	0 12	20 17	1 22	24 29	16 27	14 48	14 44	24 4			n.a.
M 8	15 58	4 3	3 31	14 33	1 54	14 45	0 29	25 6	1 30	20 16	1 12	14 36	1 48	17 5	0 12	20 17	1 22	24 30	16 27	14 48	14 43	24 6			n.a.
T 9	16 16	2s38	2 26	14 8	2 10	15 10	0 27	25 4	1 29	20 15	1 11	14 35	1 48	17 6	0 12	20 16	1 22	24 30	16 27	14 48	14 42	24 8			n.a.
W10	16 33	9 22	1 10	13 43	2 26	15 35	0 25	25 2	1 29	20 13	1 11	14 34	1 48	17 7	0 12	20 16	1 22	24 30	16 28	14 48	14 41	24 10			n.a.
T 11	16 50	15 44	0s13	13 19	2 40	15 59	0 22	25 0	1 29	20 11	1 11	14 33	1 49	17 8	0 12	20 16	1 22	24 30	16 28	14 48	14 40	24 12			n.a.
F 12	17 6	21 13	1 35	12 57	2 54	16 23	0 20	24 58	1 28	20 10	1 11	14 32	1 49	17 9	0 12	20 15	1 22	24 30	16 28	14 48	14 39	24 14			n.a.
S 13	17 23	25 18	2 51	12 36	3 6	16 47	0 18	24 55	1 28	20 8	1 11	14 31	1 49	17 10	0 12	20 15	1 22	24 30	16 29	14 48	14 38	24 15			n.a.
S 14	17 39	27 35	3 54	12 17	3 18	17 10	0 15	24 53	1 28	20 6	1 11	14 31	1 49	17 11	0 12	20 15	1 22	24 30	16 29	14 47	14 37	24 17			n.a.
M15	17 54	27 51	4 41	11 59	3 28	17 33	0 13	24 50	1 27	20 4	1 11	14 30	1 50	17 12	0 12	20 15	1 22	24 30	16 29	14 47	14 36	24 19			n.a.
T 16	18 10	26 13	5 8	11 44	3 37	17 55	0 11	24 47	1 27	20 2	1 10	14 29	1 50	17 13	0 12	20 14	1 22	24 30	16 30	14 47	14 35	24 21			n.a.
W17	18 25	23 0	5 17	11 31	3 45	18 17	0 8	24 44	1 27	20 0	1 10	14 29	1 50	17 14	0 12	20 14	1 22	24 30	16 30	14 46	14 34	24 23			n.a.
T 18	18 40	18 37	5 7	11 20	3 51	18 38	0 6	24 40	1 26	19 58	1 10	14 28	1 50	17 15	0 12	20 14	1 22	24 30	16 30	14 46	14 33	24 25			n.a.
F 19	18 54	13 27	4 41	11 12	3 56	18 59	0 4	24 37	1 26	19 56	1 10	14 27	1 51	17 16	0 12	20 14	1 22	24 31	16 31	14 46	14 32	24 27			n.a.
S 20	19 8	7 50	4 2	11 7	4 0	19 19	0 1	24 33	1 25	19 54	1 10	14 27	1 51	17 17	0 12	20 13	1 22	24 31	16 31	14 47	14 31	24 29			n.a.
S 21	19 22	2 3	3 12	11 4	4 3	19 39	0n 1	24 29	1 25	19 52	1 10	14 26	1 51	17 18	0 12	20 13	1 22	24 31	16 31	14 47	14 30	24 30			n.a.
M22	19 36	3n43	2 14	11 4	4 4	19 58	0 3	24 25	1 25	19 50	1 10	14 26	1 51	17 19	0 12	20 13	1 22	24 31	16 32	14 48	14 29	24 32			n.a.
T 23	19 49	9 17	1 10	11 6	4 4	20 17	0 6	24 21	1 24	19 48	1 10	14 25	1 52	17 20	0 12	20 12	1 22	24 31	16 32	14 48	14 28	24 34			n.a.
W24	20 2	14 26	0 5	11 11	4 3	20 36	0 8	24 17	1 24	19 46	1 9	14 25	1 52	17 21	0 12	20 12	1 22	24 31	16 33	14 48	14 27	24 36			n.a.
T 25	20 15	19 2	1n 0	11 18	4 1	20 53	0 11	24 12	1 24	19 44	1 9	14 24	1 52	17 22	0 12	20 12	1 22	24 32	16 33	14 48	14 26	24 38			n.a.
F 26	20 27	22 51	2 3	11 28	3 58	21 10	0 13	24 8	1 23	19 42	1 9	14 24	1 52	17 23	0 12	20 12	1 22	24 32	16 33	14 47	14 25	24 40			n.a.
S 27	20 39	25 43	2 59	11 40	3 54	21 27	0 15	24 3	1 23	19 39	1 9	14 24	1 53	17 24	0 12	20 11	1 22	24 32	16 34	14 47	14 24	24 41			n.a.
S 28	20 51	27 27	3 48	11 54	3 49	21 43	0 18	23 58	1 23	19 37	1 9	14 23	1 53	17 25	0 12	20 11	1 22	24 32	16 34	14 46	14 23	24 43			n.a.
M29	21 2	27 57	4 28	12 10	3 43	21 58	0 20	23 53	1 22	19 35	1 9	14 23	1 53	17 26	0 12	20 11	1 22	24 32	16 34	14 44	14 22	24 45			n.a.
T 30	21 13	27 7	4 56	12 29	3 37	22 13	0 22	23 48	1 22	19 32	1 9	14 23	1 53	17 27	0 12	20 11	1 22	24 33	16 35	14 43	14 21	24 47			n.a.
W31	21n24	25n 2	5n11	12n49	3s29	22n27	0n25	23n42	1n22	19n30	1n 9	14s23	1s54	17n28	0s12	20s10	1n22	24s33	16s35	14n42	14n19	24n48			n.a.

Julian Day Number = 1664564.5, Delta T = 03h23m53s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'59, Lahiri = - 6°05'59 Julian Calendar 1 May 156 BCE == Greg. Calendar 28 Apr. 156 BCE

The year -155 astronomical counting style corresponds to year 156 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 156 BCE
geocentric

JUNE 156 BCE (-155) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 24 10	6♊ 2'27	14♌10	14♉35	10♊10	19♋35	8♌28	27♒10	18♉59	5°R46	6♓26	9°R 4	7♉55	9♊40	n.a.	T 1
F 2	16 28 6	6°59'34	26°44	15°29	11°24	20°11	8°37	27°11	19° 2	5♐45	6°26	9♉ 3	7°51	9°46	n.a.	F 2
S 3	16 32 3	7°56'40	9♍37	16°27	12°38	20°48	8°46	27°12	19° 5	5°43	6°26	9°D 2	7°48	9°53	n.a.	S 3
S 4	16 35 59	8°53'46	22°52	17°29	13°52	21°24	8°55	27°13	19° 9	5°41	6°27	9° 3	7°45	10° 0	n.a.	S 4
M 5	16 39 56	9°50'52	6♎32	18°36	15° 5	22° 1	9° 4	27°14	19°12	5°40	6°27	9° 4	7°42	10° 6	n.a.	M 5
T 6	16 43 52	10°47'58	20°38	19°46	16°19	22°37	9°14	27°14	19°16	5°38	6°27	9° 5	7°39	10°13	n.a.	T 6
W 7	16 47 49	11°45'04	5♏ 9	21° 1	17°33	23°14	9°23	27°15	19°19	5°37	6°27	9°R 6	7°36	10°20	n.a.	W 7
T 8	16 51 45	12°42'10	20° 2	22°20	18°47	23°51	9°33	27°15	19°22	5°35	6°27	9° 6	7°32	10°26	n.a.	T 8
F 9	16 55 42	13°39'16	5♐11	23°43	20° 0	24°27	9°42	27°16	19°26	5°33	6°27	9° 4	7°29	10°33	n.a.	F 9
S 10	16 59 39	14°36'22	20°26	25° 9	21°14	25° 4	9°52	27°16	19°29	5°32	6°R27	9° 1	7°26	10°40	n.a.	S 10
S 11	17 3 35	15°33'28	5♑37	26°40	22°28	25°41	10° 2	27°16	19°32	5°30	6°27	8°56	7°23	10°46	n.a.	S 11
M12	17 7 32	16°30'36	20°35	28°14	23°42	26°18	10°12	27°R16	19°35	5°29	6°27	8°51	7°20	10°53	n.a.	M12
T 13	17 11 28	17°27'43	5♒11	29°52	24°55	26°55	10°22	27°16	19°39	5°27	6°27	8°46	7°17	11° 0	n.a.	T 13
W14	17 15 25	18°24'51	19°20	1♊34	26° 9	27°31	10°32	27°16	19°42	5°26	6°27	8°41	7°13	11° 6	n.a.	W14
T 15	17 19 21	19°22'00	3♓ 1	3°19	27°23	28° 8	10°42	27°15	19°45	5°24	6°27	8°38	7°10	11°13	n.a.	T 15
F 16	17 23 18	20°19'10	16°14	5° 7	28°37	28°45	10°52	27°15	19°48	5°22	6°27	8°D37	7° 7	11°20	n.a.	F 16
S 17	17 27 15	21°16'20	29° 2	6°58	29°51	29°22	11° 2	27°15	19°51	5°21	6°26	8°37	7° 4	11°26	n.a.	S 17
S 18	17 31 11	22°13'31	11♈29	8°52	1♋ 4	29°59	11°13	27°14	19°54	5°19	6°26	8°38	7° 1	11°33	n.a.	S 18
M19	17 35 8	23°10'43	23°39	10°49	2°18	0♌36	11°23	27°13	19°58	5°18	6°26	8°40	6°57	11°40	n.a.	M19
T 20	17 39 4	24° 7'56	5♉39	12°48	3°32	1°14	11°34	27°13	20° 1	5°16	6°26	8°R41	6°54	11°46	n.a.	T 20
W21	17 43 1	25° 5'09	17°30	14°49	4°46	1°51	11°44	27°12	20° 4	5°15	6°26	8°40	6°51	11°53	n.a.	W21
T 22	17 46 57	26° 2'24	29°18	16°52	6° 0	2°28	11°55	27°11	20° 7	5°13	6°25	8°38	6°48	12° 0	n.a.	T 22
F 23	17 50 54	26°59'39	11♊ 6	18°56	7°14	3° 5	12° 6	27°10	20°10	5°12	6°25	8°34	6°45	12° 6	n.a.	F 23
S 24	17 54 50	27°56'56	22°56	21° 2	8°27	3°43	12°17	27° 9	20°13	5°10	6°25	8°27	6°42	12°13	n.a.	S 24
S 25	17 58 47	28°54'13	4♋50	23° 8	9°41	4°20	12°28	27° 7	20°16	5° 9	6°24	8°19	6°38	12°20	n.a.	S 25
M26	18 2 44	29°51'30	16°50	25°14	10°55	4°57	12°39	27° 6	20°19	5° 7	6°24	8° 9	6°35	12°26	n.a.	M26
T 27	18 6 40	0♋48'49	28°57	27°21	12° 9	5°35	12°50	27° 4	20°22	5° 6	6°24	8° 0	6°32	12°33	n.a.	T 27
W28	18 10 37	1°46'08	11♌12	29°28	13°23	6°12	13° 1	27° 3	20°24	5° 5	6°23	7°51	6°29	12°40	n.a.	W28
T 29	18 14 33	2°43'28	23°39	1♋34	14°37	6°50	13°12	27° 1	20°27	5° 3	6°23	7°43	6°26	12°47	n.a.	T 29
F 30	18 18 30	3♋40'49	6♍18	3♋40	15♋51	7♌27	13♌24	27♒ 0	20♉30	5♐ 2	6♓22	7♉38	6♉23	12♊53	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n34	21n45	5n12	13n12	3s21	22n40	0n27	23n36	1n21	19n27	1n 9	14s23	1s54	17n29	0s12	20s10	1n22	24s33	16s36	14n41	14n18	24n50		n.a.
F 2	21 44	17 25	4 59	13 36	3 12	22 53	0 29	23 31	1 21	19 25	1 8	14 22	1 54	17 30	0 12	20 10	1 22	24 33	16 36	14 41	14 17	24 52		n.a.
S 3	21 53	12 13	4 30	14 2	3 3	23 5	0 31	23 25	1 20	19 22	1 8	14 22	1 54	17 31	0 12	20 9	1 22	24 34	16 36	14 40	14 16	24 54		n.a.
S 4	22 2	6 19	3 47	14 29	2 53	23 17	0 34	23 19	1 20	19 20	1 8	14 22	1 55	17 32	0 12	20 9	1 22	24 34	16 37	14 41	14 15	24 56		n.a.
M 5	22 11	0s 3	2 49	14 57	2 43	23 28	0 36	23 12	1 20	19 17	1 8	14 22	1 55	17 33	0 12	20 9	1 22	24 34	16 37	14 41	14 14	24 57		n.a.
T 6	22 19	6 37	1 39	15 27	2 32	23 38	0 38	23 6	1 19	19 15	1 8	14 22	1 55	17 33	0 12	20 9	1 22	24 35	16 37	14 41	14 13	24 59		n.a.
W 7	22 27	13 3	0 22	15 58	2 20	23 47	0 40	22 59	1 19	19 12	1 8	14 22	1 55	17 34	0 12	20 8	1 22	24 35	16 38	14 42	14 12	25 1		n.a.
T 8	22 35	18 54	0s59	16 29	2 9	23 56	0 42	22 52	1 19	19 9	1 8	14 22	1 56	17 35	0 12	20 8	1 22	24 35	16 38	14 42	14 11	25 2		n.a.
F 9	22 42	23 40	2 18	17 2	1 57	24 4	0 44	22 46	1 18	19 7	1 8	14 23	1 56	17 36	0 11	20 8	1 22	24 36	16 39	14 41	14 10	25 4		n.a.
S 10	22 49	26 48	3 26	17 35	1 45	24 12	0 46	22 38	1 18	19 4	1 8	14 23	1 56	17 37	0 11	20 8	1 22	24 36	16 39	14 40	14 9	25 6		n.a.
S 11	22 55	27 56	4 20	18 9	1 32	24 18	0 48	22 31	1 18	19 1	1 8	14 23	1 57	17 38	0 11	20 7	1 22	24 36	16 39	14 38	14 8	25 8		n.a.
M12	23 1	26 59	4 55	18 42	1 20	24 24	0 50	22 24	1 17	18 58	1 7	14 23	1 57	17 39	0 11	20 7	1 22	24 37	16 40	14 37	14 7	25 9		n.a.
T 13	23 7	24 12	5 10	19 16	1 7	24 29	0 52	22 16	1 17	18 56	1 7	14 23	1 57	17 40	0 11	20 7	1 22	24 37	16 40	14 35	14 6	25 11		n.a.
W14	23 12	20 1	5 5	19 49	0 54	24 34	0 54	22 9	1 16	18 53	1 7	14 24	1 57	17 41	0 11	20 6	1 22	24 37	16 40	14 34	14 5	25 13		n.a.
T 15	23 17	14 54	4 43	20 23	0 42	24 37	0 56	22 1	1 16	18 50	1 7	14 24	1 58	17 42	0 11	20 6	1 22	24 38	16 41	14 33	14 4	25 14		n.a.
F 16	23 21	9 16	4 6	20 55	0 29	24 40	0 58	21 53	1 16	18 47	1 7	14 24	1 58	17 42	0 11	20 6	1 22	24 38	16 41	14 32	14 3	25 16		n.a.
S 17	23 25	3 25	3 18	21 27	0 17	24 43	1 0	21 45	1 15	18 44	1 7	14 25	1 58	17 43	0 11	20 6	1 22	24 39	16 41	14 32	14 2	25 18		n.a.
S 18	23 29	2n25	2 22	21 57	0 5	24 44	1 2	21 36	1 15	18 41	1 7	14 25	1 58	17 44	0 11	20 5	1 22	24 39	16 42	14 33	14 1	25 19		n.a.
M19	23 32	8 3	1 21	22 26	0n 6	24 45	1 3	21 28	1 14	18 38	1 7	14 26	1 59	17 45	0 11	20 5	1 22	24 39	16 42	14 33	14 0	25 21		n.a.
T 20	23 35	13 18	0 16	22 53	0 18	24 45	1 5	21 19	1 14	18 35	1 7	14 26	1 59	17 46	0 11	20 5	1 22	24 40	16 43	14 33	13 59	25 23		n.a.
W21	23 37	18 1	0n48	23 19	0 28	24 44	1 7	21 10	1 14	18 32	1 7	14 27	1 59	17 47	0 11	20 5	1 22	24 40	16 43	14 33	13 58	25 24		n.a.
T 22	23 39	22 0	1 49	23 42	0 39	24 43	1 8	21 1	1 13	18 29	1 7	14 27	1 59	17 48	0 11	20 4	1 22	24 41	16 43	14 33	13 56	25 26		n.a.
F 23	23 41	25 6	2 46	24 3	0 48	24 41	1 10	20 52	1 13	18 26	1 7	14 28	2 0	17 48	0 11	20 4	1 22	24 41	16 44	14 31	13 55	25 28		n.a.
S 24	23 42	27 6	3 35	24 21	0 57	24 38	1 11	20 43	1 12	18 22	1 6	14 29	2 0	17 49	0 11	20 4	1 22	24 42	16 44	14 29	13 54	25 29		n.a.
S 25	23 43	27 53	4 16	24 37	1 5	24 34	1 13	20 34	1 12	18 19	1 6	14 29	2 0	17 50	0 11	20 4	1 22	24 42	16 44	14 26	13 53	25 31		n.a.
M26	23 43	27 21	4 45	24 51	1 13	24 29	1 14	20 24	1 12	18 16	1 6	14 30	2 0	17 51	0 11	20 4	1 22	24 42	16 45	14 23	13 52	25 32		n.a.
T 27	23 43	25 31	5 2	25 1	1 20	24 24	1 15	20 15	1 11	18 13	1 6	14 31	2 1	17 52	0 11	20 3	1 22	24 43	16 45	14 20	13 51	25 34		n.a.
W28	23 42	22 29	5 5	25 9	1 26	24 18	1 17	20 5	1 11	18 9	1 6	14 32	2 1	17 52	0 11	20 3	1 22	24 43	16 45	14 17	13 50	25 36		n.a.
T 29	23 41	18 24	4 54	25 14	1 31	24 12	1 18	19 55	1 10	18 6	1 6	14 32	2 1	17 53	0 11	20 3	1 22	24 44	16 46	14 15	13 49	25 37		n.a.
F 30	23n40	13n27	4n29	25n16	1n36	24n 4	1n19	19n45	1n10	18n 3	1n 6	14s33	2s 1	17n54	0s11	20s 3	1n22	24s44	16s46	14n13	13n48	25n39		n.a.

Julian Day Number = 1664595.5, Delta T = 03h23m52s
Ecliptic obliquity = 23°42'57, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'55, Lahiri = - 6°05'54 Julian Calendar 1 June 156 BCE == Greg. Calendar 29 May 156 BCE

The year -155 astronomical counting style corresponds to year 156 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 156 BCE
geocentric

JULY 156 BCE (-155) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 22 26	4♋38'10	19♍12	5♋45	17♋ 4	8♌ 5	13♌35	26°R58	20♉33	5°R 0	6°R22	7°R34	6♉19	13♊ 0	n.a.	S 1
S 2	18 26 23	5°35'32	2♎24	7°49	18°18	8°43	13°47	26♒56	20°36	4♐59	6♓22	7°D33	6°16	13° 7	n.a.	S 2
M 3	18 30 20	6°32'54	15°56	9°52	19°32	9°20	13°58	26°54	20°38	4°58	6°21	7♉33	6°13	13°13	n.a.	M 3
T 4	18 34 16	7°30'18	29°51	11°54	20°46	9°58	14°10	26°52	20°41	4°56	6°21	7°34	6°10	13°20	n.a.	T 4
W 5	18 38 13	8°27'42	14♏ 9	13°54	22° 0	10°36	14°21	26°49	20°44	4°55	6°20	7°R34	6° 7	13°27	n.a.	W 5
T 6	18 42 9	9°25'07	28°48	15°53	23°14	11°14	14°33	26°47	20°46	4°54	6°19	7°32	6° 3	13°33	n.a.	T 6
F 7	18 46 6	10°22'33	13♐44	17°51	24°28	11°51	14°45	26°45	20°49	4°53	6°19	7°28	6° 0	13°40	n.a.	F 7
S 8	18 50 2	11°20'00	28°51	19°47	25°42	12°29	14°56	26°42	20°51	4°51	6°18	7°22	5°57	13°47	n.a.	S 8
S 9	18 53 59	12°17'29	13♑59	21°42	26°56	13° 7	15° 8	26°40	20°54	4°50	6°18	7°14	5°54	13°53	n.a.	S 9
M10	18 57 55	13°14'58	28°57	23°36	28° 9	13°45	15°20	26°37	20°56	4°49	6°17	7° 4	5°51	14° 0	n.a.	M10
T 11	19 1 52	14°12'29	13♒37	25°28	29°23	14°23	15°32	26°34	20°59	4°48	6°16	6°54	5°48	14° 7	n.a.	T 11
W12	19 5 49	15°10'01	27°52	27°18	0♌37	15° 1	15°44	26°31	21° 1	4°47	6°16	6°46	5°44	14°13	n.a.	W12
T 13	19 9 45	16° 7'35	11♓38	29° 7	1°51	15°39	15°56	26°28	21° 4	4°46	6°15	6°39	5°41	14°20	n.a.	T 13
F 14	19 13 42	17° 5'10	24°55	0♌54	3° 5	16°18	16° 8	26°25	21° 6	4°45	6°14	6°35	5°38	14°27	n.a.	F 14
S 15	19 17 38	18° 2'47	7♈46	2°40	4°19	16°56	16°20	26°22	21° 8	4°43	6°14	6°33	5°35	14°33	n.a.	S 15
S 16	19 21 35	19° 0'25	20°13	4°24	5°33	17°34	16°33	26°19	21°10	4°42	6°13	6°D33	5°32	14°40	n.a.	S 16
M17	19 25 31	19°58'05	2♉23	6° 7	6°47	18°12	16°45	26°16	21°13	4°41	6°12	6°R33	5°29	14°47	n.a.	M17
T 18	19 29 28	20°55'47	14°20	7°49	8° 1	18°51	16°57	26°13	21°15	4°40	6°11	6°33	5°25	14°53	n.a.	T 18
W19	19 33 24	21°53'30	26°11	9°29	9°14	19°29	17° 9	26° 9	21°17	4°39	6°11	6°31	5°22	15° 0	n.a.	W19
T 20	19 37 21	22°51'16	7♊58	11° 7	10°28	20° 7	17°22	26° 6	21°19	4°38	6°10	6°27	5°19	15° 7	n.a.	T 20
F 21	19 41 18	23°49'03	19°47	12°44	11°42	20°46	17°34	26° 2	21°21	4°38	6° 9	6°21	5°16	15°13	n.a.	F 21
S 22	19 45 14	24°46'52	1♋41	14°20	12°56	21°24	17°47	25°59	21°23	4°37	6° 8	6°11	5°13	15°20	n.a.	S 22
S 23	19 49 11	25°44'42	13°42	15°54	14°10	22° 3	17°59	25°55	21°25	4°36	6° 7	6° 0	5° 9	15°27	n.a.	S 23
M24	19 53 7	26°42'34	25°52	17°27	15°24	22°41	18°12	25°51	21°27	4°35	6° 6	5°47	5° 6	15°33	n.a.	M24
T 25	19 57 4	27°40'28	8♌12	18°59	16°38	23°20	18°24	25°48	21°29	4°34	6° 6	5°33	5° 3	15°40	n.a.	T 25
W26	20 1 0	28°38'23	20°42	20°29	17°52	23°59	18°37	25°44	21°31	4°33	6° 5	5°20	5° 0	15°47	n.a.	W26
T 27	20 4 57	29°36'19	3♍23	21°58	19° 6	24°38	18°49	25°40	21°33	4°33	6° 4	5° 9	4°57	15°53	n.a.	T 27
F 28	20 8 53	0♌34'17	16°15	23°25	20°20	25°16	19° 2	25°36	21°34	4°32	6° 3	5° 1	4°54	16° 0	n.a.	F 28
S 29	20 12 50	1°32'17	29°19	24°51	21°33	25°55	19°15	25°32	21°36	4°31	6° 2	4°56	4°50	16° 7	n.a.	S 29
S 30	20 16 47	2°30'18	12♎36	26°15	22°47	26°34	19°27	25°28	21°38	4°30	6° 1	4°53	4°47	16°14	n.a.	S 30
M31	20 20 43	3♌28'21	26♎ 8	27♌38	24♌ 1	27♌13	19♌40	25♒24	21♉39	4♐30	6♓ 0	4♉52	4♉44	16♊20	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n38	7n50	3n49	25n15	1n40	23n56	1n20	19n35	1n10	17n59	1n 6	14s34	2s 2	17n55	0s11	20s 2	1n22	24s45	16s46	14n12	13n47	25n40		n.a.
S 2	23 36	1 44	2 57	25 12	1 43	23 47	1 21	19 24	1 9	17 56	1 6	14 35	2 2	17 55	0 11	20 2	1 22	24 45	16 47	14 11	13 46	25 42		n.a.
M 3	23 33	4s36	1 53	25 6	1 45	23 38	1 22	19 14	1 9	17 53	1 6	14 36	2 2	17 56	0 11	20 2	1 22	24 46	16 47	14 11	13 45	25 44		n.a.
T 4	23 30	10 54	0 41	24 57	1 47	23 27	1 23	19 3	1 8	17 49	1 6	14 37	2 2	17 57	0 11	20 2	1 22	24 46	16 47	14 12	13 44	25 45		n.a.
W 5	23 27	16 49	0s35	24 46	1 48	23 17	1 24	18 52	1 8	17 46	1 6	14 38	2 3	17 57	0 11	20 2	1 22	24 47	16 48	14 12	13 43	25 47		n.a.
T 6	23 23	21 55	1 51	24 33	1 49	23 5	1 25	18 41	1 8	17 42	1 6	14 39	2 3	17 58	0 11	20 1	1 22	24 47	16 48	14 11	13 42	25 48		n.a.
F 7	23 18	25 42	3 0	24 18	1 48	22 53	1 25	18 30	1 7	17 39	1 6	14 40	2 3	17 59	0 11	20 1	1 21	24 48	16 48	14 10	13 41	25 50		n.a.
S 8	23 14	27 40	3 58	24 1	1 48	22 40	1 26	18 19	1 7	17 35	1 6	14 41	2 3	18 0	0 11	20 1	1 21	24 48	16 49	14 8	13 40	25 51		n.a.
S 9	23 8	27 35	4 39	23 41	1 46	22 26	1 27	18 8	1 6	17 32	1 6	14 42	2 4	18 0	0 11	20 1	1 21	24 49	16 49	14 5	13 38	25 53		n.a.
M10	23 3	25 30	5 0	23 20	1 44	22 12	1 27	17 56	1 6	17 28	1 6	14 43	2 4	18 1	0 11	20 1	1 21	24 49	16 49	14 2	13 37	25 54		n.a.
T 11	22 57	21 43	5 1	22 58	1 42	21 57	1 28	17 45	1 5	17 24	1 6	14 44	2 4	18 2	0 11	20 1	1 21	24 50	16 50	13 59	13 36	25 56		n.a.
W12	22 51	16 46	4 43	22 33	1 39	21 41	1 28	17 33	1 5	17 21	1 6	14 46	2 4	18 2	0 11	20 0	1 21	24 50	16 50	13 56	13 35	25 57		n.a.
T 13	22 44	11 6	4 9	22 8	1 35	21 25	1 29	17 21	1 5	17 17	1 5	14 47	2 4	18 3	0 11	20 0	1 21	24 51	16 50	13 54	13 34	25 59		n.a.
F 14	22 37	5 8	3 22	21 40	1 31	21 8	1 29	17 9	1 4	17 13	1 5	14 48	2 5	18 3	0 11	20 0	1 21	24 52	16 51	13 52	13 33	26 0		n.a.
S 15	22 29	0n52	2 27	21 12	1 27	20 51	1 29	16 57	1 4	17 10	1 5	14 49	2 5	18 4	0 11	20 0	1 21	24 52	16 51	13 52	13 32	26 2		n.a.
S 16	22 21	6 40	1 26	20 43	1 22	20 33	1 29	16 45	1 3	17 6	1 5	14 51	2 5	18 5	0 11	20 0	1 21	24 53	16 51	13 51	13 31	26 3		n.a.
M17	22 13	12 6	0 22	20 12	1 17	20 14	1 29	16 33	1 3	17 2	1 5	14 52	2 5	18 5	0 11	20 0	1 21	24 53	16 51	13 51	13 30	26 5		n.a.
T 18	22 4	16 59	0n41	19 41	1 12	19 55	1 29	16 20	1 2	16 58	1 5	14 53	2 5	18 6	0 11	19 59	1 21	24 54	16 52	13 51	13 29	26 6		n.a.
W19	21 55	21 10	1 42	19 9	1 6	19 35	1 29	16 8	1 2	16 55	1 5	14 55	2 6	18 6	0 11	19 59	1 21	24 54	16 52	13 51	13 28	26 8		n.a.
T 20	21 45	24 30	2 38	18 36	1 0	19 15	1 29	15 55	1 2	16 51	1 5	14 56	2 6	18 7	0 11	19 59	1 21	24 55	16 52	13 50	13 27	26 9		n.a.
F 21	21 35	26 46	3 28	18 2	0 54	18 54	1 29	15 42	1 1	16 47	1 5	14 57	2 6	18 7	0 11	19 59	1 21	24 55	16 53	13 47	13 26	26 10		n.a.
S 22	21 25	27 50	4 8	17 28	0 47	18 33	1 29	15 29	1 1	16 43	1 5	14 59	2 6	18 8	0 11	19 59	1 21	24 56	16 53	13 44	13 25	26 12		n.a.
S 23	21 14	27 37	4 38	16 53	0 40	18 11	1 28	15 16	1 0	16 39	1 5	15 0	2 6	18 9	0 11	19 59	1 21	24 57	16 53	13 40	13 23	26 13		n.a.
M24	21 3	26 3	4 56	16 18	0 33	17 48	1 28	15 3	1 0	16 35	1 5	15 2	2 7	18 9	0 11	19 59	1 21	24 57	16 53	13 36	13 22	26 15		n.a.
T 25	20 52	23 14	5 0	15 42	0 25	17 25	1 28	14 50	0 59	16 31	1 5	15 3	2 7	18 10	0 11	19 59	1 21	24 58	16 54	13 31	13 21	26 16		n.a.
W26	20 40	19 19	4 49	15 6	0 18	17 2	1 27	14 36	0 59	16 27	1 5	15 5	2 7	18 10	0 11	19 58	1 21	24 58	16 54	13 27	13 20	26 18		n.a.
T 27	20 28	14 29	4 25	14 30	0 10	16 38	1 27	14 23	0 58	16 23	1 5	15 6	2 7	18 10	0 11	19 58	1 21	24 59	16 54	13 23	13 19	26 19		n.a.
F 28	20 16	8 57	3 47	13 54	0 2	16 14	1 26	14 9	0 58	16 19	1 5	15 8	2 7	18 11	0 11	19 58	1 21	24 59	16 54	13 21	13 18	26 20		n.a.
S 29	20 3	2 57	2 56	13 17	0s 7	15 49	1 25	13 56	0 58	16 15	1 5	15 9	2 7	18 11	0 11	19 58	1 21	25 0	16 55	13 19	13 17	26 22		n.a.
S 30	19 50	3s17	1 55	12 41	0 15	15 24	1 24	13 42	0 57	16 11	1 5	15 11	2 8	18 12	0 11	19 58	1 20	25 1	16 55	13 18	13 16	26 23		n.a.
M31	19n36	9s30	0n46	12n 4	0s23	14n59	1n23	13n28	0n57	16n 7	1n 5	15s12	2s 8	18n12	0s11	19s58	1n20	25s 1	16s55	13n18	13n15	26n24		n.a.

Julian Day Number = 1664625.5, Delta T = 03h23m51s
Ecliptic obliquity = 23°42'57, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'51, Lahiri = - 6°05'50 Julian Calendar 1 July 156 BCE == Greg. Calendar 28 June 156 BCE

The year -155 astronomical counting style corresponds to year 156 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 156 BCE
geocentric

AUGUST 156 BCE (-155) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 24 40	4♌26'25	9♏57	28♌59	25♌15	27♌52	19♌53	25°R20	21♉41	4°R29	5°R59	4°R52	4♉41	16♊27	n.a.	T 1
W 2	20 28 36	5°24'30	24° 2	0♍19	26°29	28°31	20° 6	25♒15	21°42	4♐29	5♓58	4♉51	4°38	16°34	n.a.	W 2
T 3	20 32 33	6°22'37	8♐24	1°37	27°43	29°10	20°18	25°11	21°44	4°28	5°57	4°49	4°35	16°40	n.a.	T 3
F 4	20 36 29	7°20'46	23° 1	2°53	28°57	29°49	20°31	25° 7	21°45	4°28	5°56	4°44	4°31	16°47	n.a.	F 4
S 5	20 40 26	8°18'56	7♑47	4° 8	0♍10	0♍28	20°44	25° 2	21°47	4°27	5°55	4°37	4°28	16°54	n.a.	S 5
S 6	20 44 22	9°17'08	22°37	5°20	1°24	1° 7	20°57	24°58	21°48	4°27	5°54	4°27	4°25	17° 0	n.a.	S 6
M 7	20 48 19	10°15'22	7♒20	6°31	2°38	1°46	21°10	24°54	21°49	4°26	5°53	4°16	4°22	17° 7	n.a.	M 7
T 8	20 52 16	11°13'38	21°50	7°40	3°52	2°26	21°23	24°49	21°51	4°26	5°52	4° 4	4°19	17°14	n.a.	T 8
W 9	20 56 12	12°11'55	6♓ 0	8°47	5° 6	3° 5	21°36	24°45	21°52	4°25	5°51	3°54	4°15	17°20	n.a.	W 9
T 10	21 0 9	13°10'15	19°44	9°52	6°19	3°44	21°49	24°40	21°53	4°25	5°50	3°46	4°12	17°27	n.a.	T 10
F 11	21 4 5	14° 8'36	3♈ 2	10°54	7°33	4°24	22° 2	24°36	21°54	4°25	5°49	3°40	4° 9	17°34	n.a.	F 11
S 12	21 8 2	15° 7'00	15°54	11°54	8°47	5° 3	22°15	24°31	21°55	4°24	5°48	3°37	4° 6	17°40	n.a.	S 12
S 13	21 11 58	16° 5'26	28°24	12°52	10° 1	5°43	22°28	24°26	21°56	4°24	5°46	3°D36	4° 3	17°47	n.a.	S 13
M14	21 15 55	17° 3'54	10♉36	13°46	11°15	6°22	22°41	24°22	21°57	4°24	5°45	3°36	4° 0	17°54	n.a.	M14
T 15	21 19 51	18° 2'25	22°34	14°38	12°28	7° 2	22°54	24°17	21°58	4°24	5°44	3°R36	3°56	18° 0	n.a.	T 15
W16	21 23 48	19° 0'57	4♊26	15°26	13°42	7°41	23° 7	24°13	21°59	4°24	5°43	3°35	3°53	18° 7	n.a.	W16
T 17	21 27 45	19°59'33	16°15	16°11	14°56	8°21	23°20	24° 8	21°59	4°23	5°42	3°32	3°50	18°14	n.a.	T 17
F 18	21 31 41	20°58'10	28° 6	16°53	16° 9	9° 1	23°33	24° 3	22° 0	4°23	5°41	3°27	3°47	18°20	n.a.	F 18
S 19	21 35 38	21°56'50	10♋ 5	17°30	17°23	9°41	23°46	23°59	22° 1	4°23	5°40	3°18	3°44	18°27	n.a.	S 19
S 20	21 39 34	22°55'32	22°13	18° 3	18°37	10°20	23°59	23°54	22° 2	4°D23	5°39	3° 8	3°41	18°34	n.a.	S 20
M21	21 43 31	23°54'16	4♌34	18°31	19°51	11° 0	24°12	23°49	22° 2	4°23	5°37	2°56	3°37	18°41	n.a.	M21
T 22	21 47 27	24°53'02	17° 8	18°55	21° 4	11°40	24°25	23°44	22° 3	4°23	5°36	2°44	3°34	18°47	n.a.	T 22
W23	21 51 24	25°51'50	29°56	19°13	22°18	12°20	24°38	23°40	22° 3	4°23	5°35	2°32	3°31	18°54	n.a.	W23
T 24	21 55 20	26°50'40	12♍56	19°26	23°32	13° 0	24°51	23°35	22° 4	4°24	5°34	2°22	3°28	19° 1	n.a.	T 24
F 25	21 59 17	27°49'33	26° 9	19°R32	24°45	13°40	25° 4	23°30	22° 4	4°24	5°33	2°15	3°25	19° 7	n.a.	F 25
S 26	22 3 13	28°48'27	9♎32	19°32	25°59	14°20	25°17	23°26	22° 4	4°24	5°31	2°10	3°21	19°14	n.a.	S 26
S 27	22 7 10	29°47'23	23° 6	19°25	27°12	15° 1	25°30	23°21	22° 5	4°24	5°30	2° 8	3°18	19°21	n.a.	S 27
M28	22 11 7	0♍46'21	6♏49	19°11	28°26	15°41	25°43	23°17	22° 5	4°24	5°29	2°D 8	3°15	19°27	n.a.	M28
T 29	22 15 3	1°45'21	20°41	18°49	29°40	16°21	25°56	23°12	22° 5	4°25	5°28	2° 8	3°12	19°34	n.a.	T 29
W30	22 19 0	2°44'23	4♐43	18°20	0♎53	17° 1	26° 9	23° 7	22° 5	4°25	5°27	2°R 8	3° 9	19°41	n.a.	W30
T 31	22 22 56	3♍43'27	18♐54	17♍43	2♎ 7	17♍42	26♌22	23♒ 3	22♉ 5	4♐25	5♓26	2♉ 7	3♉ 6	19♊47	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	19n22	15s23	0s27	11n28	0s32	14n33	1n22	13n14	0n56	16n 3	1n 5	15s14	2s 8	18n13	0s11	19s58	1n20	25s 2	16s55	13n18	13n14	26n26			n.a.
W 2	19 8	20 36	1 39	10 51	0 41	14 6	1 21	13 0	0 56	15 59	1 5	15 15	2 8	18 13	0 11	19 58	1 20	25 2	16 55	13 17	13 13	26 27			n.a.
T 3	18 54	24 43	2 47	10 15	0 50	13 40	1 20	12 46	0 55	15 55	1 5	15 17	2 8	18 13	0 11	19 58	1 20	25 3	16 56	13 17	13 12	26 29			n.a.
F 4	18 39	27 16	3 45	9 39	0 59	13 13	1 19	12 31	0 55	15 51	1 5	15 19	2 8	18 14	0 11	19 58	1 20	25 3	16 56	13 15	13 11	26 30			n.a.
S 5	18 24	27 57	4 28	9 4	1 8	12 45	1 18	12 17	0 54	15 47	1 5	15 20	2 9	18 14	0 11	19 58	1 20	25 4	16 56	13 12	13 9	26 31			n.a.
S 6	18 8	26 37	4 54	8 28	1 17	12 18	1 17	12 2	0 54	15 42	1 5	15 22	2 9	18 15	0 11	19 58	1 20	25 4	16 56	13 9	13 8	26 33			n.a.
M 7	17 53	23 28	5 0	7 54	1 26	11 49	1 15	11 48	0 53	15 38	1 5	15 24	2 9	18 15	0 11	19 58	1 20	25 5	16 56	13 5	13 7	26 34			n.a.
T 8	17 36	18 54	4 46	7 19	1 35	11 21	1 14	11 33	0 53	15 34	1 5	15 25	2 9	18 15	0 11	19 58	1 20	25 6	16 56	13 1	13 6	26 35			n.a.
W 9	17 20	13 21	4 15	6 46	1 44	10 52	1 13	11 18	0 52	15 30	1 5	15 27	2 9	18 16	0 11	19 58	1 20	25 6	16 57	12 58	13 5	26 36			n.a.
T 10	17 3	7 19	3 30	6 13	1 53	10 24	1 11	11 3	0 52	15 26	1 5	15 28	2 9	18 16	0 11	19 58	1 20	25 7	16 57	12 55	13 4	26 38			n.a.
F 11	16 47	1 8	2 34	5 41	2 2	9 54	1 9	10 48	0 52	15 21	1 5	15 30	2 9	18 16	0 11	19 58	1 20	25 7	16 57	12 53	13 3	26 39			n.a.
S 12	16 29	4n55	1 32	5 10	2 11	9 25	1 8	10 33	0 51	15 17	1 5	15 32	2 9	18 16	0 11	19 58	1 20	25 8	16 57	12 52	13 2	26 40			n.a.
S 13	16 12	10 36	0 28	4 39	2 20	8 55	1 6	10 18	0 51	15 13	1 5	15 33	2 9	18 17	0 11	19 58	1 20	25 8	16 57	12 52	13 1	26 42			n.a.
M14	15 54	15 45	0n37	4 10	2 29	8 25	1 4	10 3	0 50	15 9	1 5	15 35	2 10	18 17	0 11	19 58	1 20	25 9	16 57	12 52	13 0	26 43			n.a.
T 15	15 36	20 13	1 39	3 42	2 37	7 55	1 2	9 48	0 50	15 4	1 5	15 37	2 10	18 17	0 11	19 58	1 20	25 10	16 57	12 52	12 59	26 44			n.a.
W16	15 18	23 49	2 36	3 16	2 46	7 25	1 0	9 32	0 49	15 0	1 5	15 38	2 10	18 17	0 11	19 58	1 20	25 10	16 58	12 51	12 58	26 45			n.a.
T 17	14 59	26 24	3 26	2 51	2 54	6 54	0 59	9 17	0 49	14 56	1 5	15 40	2 10	18 18	0 11	19 58	1 20	25 11	16 58	12 50	12 56	26 47			n.a.
F 18	14 40	27 49	4 7	2 27	3 2	6 23	0 57	9 1	0 48	14 51	1 6	15 42	2 10	18 18	0 11	19 58	1 20	25 11	16 58	12 48	12 55	26 48			n.a.
S 19	14 21	27 57	4 38	2 6	3 9	5 52	0 54	8 46	0 48	14 47	1 6	15 43	2 10	18 18	0 11	19 58	1 19	25 12	16 58	12 46	12 54	26 49			n.a.
S 20	14 2	26 44	4 56	1 46	3 17	5 21	0 52	8 30	0 47	14 43	1 6	15 45	2 10	18 18	0 11	19 58	1 19	25 12	16 58	12 42	12 53	26 50			n.a.
M21	13 42	24 13	5 2	1 29	3 23	4 50	0 50	8 14	0 47	14 38	1 6	15 47	2 10	18 18	0 11	19 58	1 19	25 13	16 58	12 38	12 52	26 52			n.a.
T 22	13 23	20 31	4 52	1 14	3 29	4 19	0 48	7 59	0 46	14 34	1 6	15 48	2 10	18 18	0 11	19 58	1 19	25 13	16 58	12 34	12 51	26 53			n.a.
W23	13 3	15 48	4 29	1 1	3 35	3 47	0 46	7 43	0 46	14 30	1 6	15 50	2 10	18 18	0 11	19 58	1 19	25 14	16 58	12 30	12 50	26 54			n.a.
T 24	12 42	10 19	3 50	0 52	3 40	3 16	0 43	7 27	0 45	14 25	1 6	15 52	2 10	18 19	0 11	19 58	1 19	25 14	16 58	12 26	12 49	26 55			n.a.
F 25	12 22	4 17	2 59	0 46	3 44	2 44	0 41	7 11	0 45	14 21	1 6	15 53	2 10	18 19	0 11	19 58	1 19	25 15	16 58	12 24	12 48	26 56			n.a.
S 26	12 1	2s 2	1 57	0 43	3 47	2 12	0 38	6 55	0 44	14 16	1 6	15 55	2 10	18 19	0 11	19 58	1 19	25 15	16 58	12 22	12 47	26 58			n.a.
S 27	11 41	8 20	0 48	0 44	3 49	1 40	0 36	6 38	0 44	14 12	1 6	15 56	2 10	18 19	0 11	19 58	1 19	25 16	16 59	12 21	12 46	26 59			n.a.
M28	11 20	14 20	0s25	0 49	3 50	1 8	0 33	6 22	0 43	14 8	1 6	15 58	2 10	18 19	0 11	19 59	1 19	25 16	16 59	12 21	12 44	27 0			n.a.
T 29	10 58	19 42	1 38	0 58	3 49	0 36	0 31	6 6	0 43	14 3	1 6	16 0	2 10	18 19	0 11	19 59	1 19	25 17	16 59	12 21	12 43	27 1			n.a.
W30	10 37	24 2	2 45	1 11	3 47	0 4	0 28	5 50	0 42	13 59	1 6	16 1	2 10	18 19	0 11	19 59	1 19	25 17	16 59	12 21	12 42	27 2			n.a.
T 31	10n15	26s57	3s43	1n29	3s44	0s28	0n26	5n33	0n42	13n54	1n 6	16s 3	2s10	18n19	0s11	19s59	1n19	25s18	16s59	12n21	12n41	27n 3			n.a.

Julian Day Number = 1664656.5, Delta T = 03h23m50s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'47, Lahiri = - 6°05'46 Julian Calendar 1 Aug. 156 BCE == Greg. Calendar 29 July 156 BCE

The year -155 astronomical counting style corresponds to year 156 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 156 BCE
geocentric

SEPTEMBER 156 BCE (-155) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	22 26 53	4♍42'33	3♉12	16°R59	3♎20	18♍22	26♌35	22°R58	22°R 5	4♐26	5°R24	2°R 4	3♉ 2	19♊54	n.a.	F 1
S 2	22 30 49	5°41'40	17°35	16♍ 8	4°34	19° 3	26°48	22♒54	22♉ 5	4°26	5♓23	1♉59	2°59	20° 1	n.a.	S 2
S 3	22 34 46	6°40'49	1♒58	15°11	5°47	19°43	27° 1	22°49	22° 5	4°27	5°22	1°51	2°56	20° 7	n.a.	S 3
M 4	22 38 42	7°40'01	16°16	14° 8	7° 1	20°24	27°14	22°45	22° 5	4°27	5°21	1°43	2°53	20°14	n.a.	M 4
T 5	22 42 39	8°39'14	0♓23	13° 2	8°14	21° 4	27°27	22°40	22° 5	4°28	5°20	1°34	2°50	20°21	n.a.	T 5
W 6	22 46 36	9°38'29	14°14	11°52	9°28	21°45	27°40	22°36	22° 4	4°28	5°18	1°26	2°47	20°28	n.a.	W 6
T 7	22 50 32	10°37'47	27°46	10°42	10°41	22°26	27°53	22°32	22° 4	4°29	5°17	1°20	2°43	20°34	n.a.	T 7
F 8	22 54 29	11°37'06	10♈57	9°32	11°55	23° 6	28° 5	22°27	22° 4	4°29	5°16	1°15	2°40	20°41	n.a.	F 8
S 9	22 58 25	12°36'28	23°46	8°26	13° 8	23°47	28°18	22°23	22° 3	4°30	5°15	1°13	2°37	20°48	n.a.	S 9
S 10	23 2 22	13°35'52	6♉15	7°24	14°21	24°28	28°31	22°19	22° 3	4°31	5°14	1°D13	2°34	20°54	n.a.	S 10
M11	23 6 18	14°35'19	18°27	6°29	15°35	25° 9	28°44	22°15	22° 2	4°31	5°12	1°14	2°31	21° 1	n.a.	M11
T 12	23 10 15	15°34'48	0♊27	5°42	16°48	25°50	28°57	22°11	22° 2	4°32	5°11	1°16	2°27	21° 8	n.a.	T 12
W13	23 14 11	16°34'20	12°20	5° 4	18° 1	26°31	29° 9	22° 7	22° 1	4°33	5°10	1°R17	2°24	21°14	n.a.	W13
T 14	23 18 8	17°33'54	24°10	4°36	19°14	27°12	29°22	22° 3	22° 1	4°34	5° 9	1°16	2°21	21°21	n.a.	T 14
F 15	23 22 5	18°33'30	6♋ 3	4°20	20°28	27°53	29°35	21°59	22° 0	4°34	5° 8	1°15	2°18	21°28	n.a.	F 15
S 16	23 26 1	19°33'09	18° 4	4°D14	21°41	28°34	29°47	21°55	21°59	4°35	5° 7	1°11	2°15	21°34	n.a.	S 16
S 17	23 29 58	20°32'50	0♌17	4°20	22°54	29°15	0♍ 0	21°51	21°58	4°36	5° 6	1° 6	2°12	21°41	n.a.	S 17
M18	23 33 54	21°32'33	12°44	4°36	24° 7	29°57	0°13	21°47	21°57	4°37	5° 4	0°59	2° 8	21°48	n.a.	M18
T 19	23 37 51	22°32'19	25°29	5° 2	25°21	0♎38	0°25	21°43	21°56	4°38	5° 3	0°52	2° 5	21°54	n.a.	T 19
W20	23 41 47	23°32'07	8♍32	5°38	26°34	1°19	0°38	21°40	21°55	4°39	5° 2	0°46	2° 2	22° 1	n.a.	W20
T 21	23 45 44	24°31'56	21°52	6°23	27°47	2° 1	0°50	21°36	21°54	4°40	5° 1	0°40	1°59	22° 8	n.a.	T 21
F 22	23 49 40	25°31'48	5♎28	7°16	29° 0	2°42	1° 3	21°33	21°53	4°41	5° 0	0°36	1°56	22°15	n.a.	F 22
S 23	23 53 37	26°31'42	19°17	8°16	0♏13	3°24	1°15	21°29	21°52	4°42	4°59	0°34	1°52	22°21	n.a.	S 23
S 24	23 57 33	27°31'38	3♏17	9°22	1°26	4° 5	1°28	21°26	21°51	4°43	4°58	0°D33	1°49	22°28	n.a.	S 24
M25	0 1 30	28°31'36	17°22	10°34	2°39	4°47	1°40	21°23	21°50	4°44	4°57	0°34	1°46	22°35	n.a.	M25
T 26	0 5 27	29°31'36	1♐32	11°50	3°52	5°29	1°52	21°20	21°49	4°46	4°56	0°35	1°43	22°41	n.a.	T 26
W27	0 9 23	0♎31'37	15°44	13°11	5° 5	6°10	2° 4	21°17	21°47	4°47	4°54	0°37	1°40	22°48	n.a.	W27
T 28	0 13 20	1°31'40	29°55	14°35	6°18	6°52	2°17	21°14	21°46	4°48	4°53	0°R38	1°37	22°55	n.a.	T 28
F 29	0 17 16	2°31'45	14♑ 3	16° 2	7°31	7°34	2°29	21°11	21°45	4°49	4°52	0°37	1°33	23° 1	n.a.	F 29
S 30	0 21 13	3♎31'51	28♑ 8	17♍31	8♏44	8♎16	2♍41	21♒ 8	21♉43	4♐51	4♓51	0♉35	1♉30	23♊ 8	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	9n54	28s 8	4s28	1n51	3s38	1s 0	0n23	5n17	0n41	13n50	1n 6	16s 4	2s10	18n19	0s11	19s59	1n19	25s18	16s59	12n20	12n40	27n 4		n.a.
S 2	9 32	27 26	4 56	2 18	3 31	1 32	0 20	5 0	0 41	13 46	1 6	16 6	2 10	18 19	0 11	19 59	1 19	25 19	16 59	12 18	12 39	27 6		n.a.
S 3	9 10	24 54	5 5	2 49	3 22	2 3	0 17	4 44	0 40	13 41	1 6	16 7	2 11	18 19	0 11	19 59	1 19	25 19	16 59	12 15	12 38	27 7		n.a.
M 4	8 47	20 50	4 56	3 23	3 10	2 35	0 15	4 27	0 39	13 37	1 6	16 9	2 10	18 19	0 11	19 59	1 19	25 20	16 59	12 12	12 37	27 8		n.a.
T 5	8 25	15 38	4 28	4 1	2 57	3 7	0 12	4 10	0 39	13 32	1 6	16 10	2 10	18 19	0 11	20 0	1 19	25 20	16 59	12 9	12 36	27 9		n.a.
W 6	8 3	9 43	3 45	4 42	2 42	3 39	0 9	3 54	0 38	13 28	1 7	16 12	2 10	18 19	0 11	20 0	1 18	25 21	16 59	12 6	12 35	27 10		n.a.
T 7	7 40	3 29	2 50	5 24	2 25	4 11	0 6	3 37	0 38	13 23	1 7	16 13	2 10	18 19	0 11	20 0	1 18	25 21	16 59	12 4	12 33	27 11		n.a.
F 8	7 17	2n45	1 47	6 8	2 7	4 43	0 3	3 20	0 37	13 19	1 7	16 14	2 10	18 19	0 11	20 0	1 18	25 21	16 59	12 3	12 32	27 12		n.a.
S 9	6 54	8 42	0 40	6 51	1 48	5 14	0 0	3 3	0 37	13 15	1 7	16 16	2 10	18 19	0 11	20 0	1 18	25 22	16 59	12 2	12 31	27 13		n.a.
S 10	6 31	14 11	0n27	7 32	1 28	5 46	0s 3	2 47	0 36	13 10	1 7	16 17	2 10	18 18	0 11	20 0	1 18	25 22	16 59	12 2	12 30	27 14		n.a.
M11	6 8	18 59	1 32	8 12	1 7	6 17	0 6	2 30	0 36	13 6	1 7	16 18	2 10	18 18	0 11	20 1	1 18	25 23	16 58	12 2	12 29	27 15		n.a.
T 12	5 45	22 57	2 31	8 48	0 47	6 48	0 9	2 13	0 35	13 1	1 7	16 20	2 10	18 18	0 11	20 1	1 18	25 23	16 58	12 3	12 28	27 16		n.a.
W13	5 22	25 54	3 24	9 21	0 27	7 20	0 12	1 56	0 35	12 57	1 7	16 21	2 10	18 18	0 11	20 1	1 18	25 24	16 58	12 3	12 27	27 18		n.a.
T 14	4 58	27 42	4 7	9 49	0 8	7 51	0 15	1 39	0 34	12 52	1 7	16 22	2 10	18 18	0 11	20 1	1 18	25 24	16 58	12 3	12 26	27 19		n.a.
F 15	4 35	28 15	4 40	10 12	0n11	8 21	0 18	1 22	0 34	12 48	1 7	16 24	2 10	18 18	0 11	20 1	1 18	25 24	16 58	12 2	12 25	27 20		n.a.
S 16	4 11	27 28	5 2	10 30	0 28	8 52	0 21	1 5	0 33	12 44	1 7	16 25	2 10	18 17	0 11	20 2	1 18	25 25	16 58	12 1	12 24	27 21		n.a.
S 17	3 47	25 21	5 10	10 43	0 43	9 22	0 24	0 48	0 33	12 39	1 8	16 26	2 10	18 17	0 11	20 2	1 18	25 25	16 58	11 59	12 22	27 22		n.a.
M18	3 23	22 1	5 3	10 50	0 58	9 53	0 27	0 31	0 32	12 35	1 8	16 27	2 10	18 17	0 11	20 2	1 18	25 25	16 58	11 57	12 21	27 23		n.a.
T 19	3 0	17 35	4 42	10 52	1 11	10 23	0 30	0 14	0 31	12 30	1 8	16 28	2 10	18 17	0 11	20 2	1 18	25 26	16 58	11 55	12 20	27 24		n.a.
W20	2 36	12 15	4 5	10 49	1 22	10 52	0 33	0s 4	0 31	12 26	1 8	16 30	2 10	18 16	0 11	20 2	1 18	25 26	16 58	11 52	12 19	27 25		n.a.
T 21	2 12	6 14	3 15	10 42	1 32	11 22	0 36	0 21	0 30	12 22	1 8	16 31	2 10	18 16	0 11	20 3	1 18	25 26	16 58	11 50	12 18	27 26		n.a.
F 22	1 48	0s11	2 12	10 30	1 40	11 51	0 39	0 38	0 30	12 17	1 8	16 32	2 10	18 16	0 11	20 3	1 18	25 27	16 58	11 49	12 17	27 27		n.a.
S 23	1 24	6 42	1 1	10 13	1 47	12 20	0 42	0 55	0 29	12 13	1 8	16 33	2 10	18 16	0 11	20 3	1 18	25 27	16 57	11 48	12 16	27 28		n.a.
S 24	1 0	12 59	0s15	9 53	1 53	12 49	0 45	1 12	0 29	12 8	1 8	16 34	2 10	18 15	0 11	20 3	1 18	25 27	16 57	11 48	12 15	27 29		n.a.
M25	0 36	18 40	1 31	9 30	1 57	13 18	0 48	1 30	0 28	12 4	1 8	16 35	2 9	18 15	0 11	20 4	1 18	25 28	16 57	11 48	12 14	27 29		n.a.
T 26	0 11	23 20	2 41	9 4	2 1	13 46	0 52	1 47	0 28	12 0	1 9	16 36	2 9	18 15	0 11	20 4	1 17	25 28	16 57	11 49	12 12	27 30		n.a.
W27	0s13	26 38	3 42	8 34	2 3	14 13	0 55	2 4	0 27	11 55	1 9	16 37	2 9	18 14	0 11	20 4	1 17	25 28	16 57	11 49	12 11	27 31		n.a.
T 28	0 37	28 13	4 30	8 3	2 4	14 41	0 58	2 21	0 26	11 51	1 9	16 37	2 9	18 14	0 11	20 4	1 17	25 28	16 57	11 49	12 10	27 32		n.a.
F 29	1 1	27 57	5 1	7 29	2 5	15 8	1 1	2 38	0 26	11 47	1 9	16 38	2 9	18 14	0 11	20 5	1 17	25 29	16 56	11 49	12 9	27 33		n.a.
S 30	1s25	25s53	5s13	6n53	2n 4	15s35	1s 4	2s56	0n25	11n43	1n 9	16s39	2s 9	18n13	0s11	20s 5	1n17	25s29	16s56	11n49	12n 8	27n34		n.a.

Julian Day Number = 1664687.5, Delta T = 03h23m49s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'42, Lahiri = - 6°05'42 Julian Calendar 1 Sept. 156 BCE == Greg. Calendar 29 Aug. 156 BCE

The year -155 astronomical counting style corresponds to year 156 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 156 BCE
geocentric

OCTOBER 156 BCE (-155) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 25 9	4♎31'59	12♒ 6	19♍ 3	9♏57	8♎58	2♍53	21°R 5	21°R42	4♐52	4°R50	0°R32	1♉27	23♊15	n.a.	S 1
M 2	0 29 6	5°32'09	25°56	20°36	11°10	9°40	3° 5	21♒ 2	21♉40	4°53	4♓49	0♉29	1°24	23°21	n.a.	M 2
T 3	0 33 2	6°32'20	9♓35	22°10	12°23	10°22	3°17	21° 0	21°39	4°55	4°48	0°25	1°21	23°28	n.a.	T 3
W 4	0 36 59	7°32'34	23° 0	23°46	13°35	11° 4	3°29	20°57	21°37	4°56	4°47	0°21	1°18	23°35	n.a.	W 4
T 5	0 40 56	8°32'48	6♈11	25°22	14°48	11°46	3°40	20°55	21°35	4°58	4°46	0°19	1°14	23°42	n.a.	T 5
F 6	0 44 52	9°33'05	19° 6	26°58	16° 1	12°28	3°52	20°53	21°34	4°59	4°45	0°17	1°11	23°48	n.a.	F 6
S 7	0 48 49	10°33'24	1♉44	28°36	17°13	13°10	4° 4	20°50	21°32	5° 0	4°45	0°D17	1° 8	23°55	n.a.	S 7
S 8	0 52 45	11°33'44	14° 7	0♎13	18°26	13°52	4°15	20°48	21°30	5° 2	4°44	0°18	1° 5	24° 2	n.a.	S 8
M 9	0 56 42	12°34'07	26°17	1°51	19°39	14°35	4°27	20°46	21°29	5° 3	4°43	0°19	1° 2	24° 8	n.a.	M 9
T 10	1 0 38	13°34'31	8♊16	3°29	20°51	15°17	4°39	20°44	21°27	5° 5	4°42	0°20	0°58	24°15	n.a.	T 10
W11	1 4 35	14°34'58	20° 9	5° 6	22° 4	15°59	4°50	20°43	21°25	5° 7	4°41	0°22	0°55	24°22	n.a.	W11
T 12	1 8 31	15°35'26	2♋ 0	6°44	23°16	16°42	5° 1	20°41	21°23	5° 8	4°40	0°23	0°52	24°28	n.a.	T 12
F 13	1 12 28	16°35'57	13°53	8°22	24°29	17°24	5°13	20°39	21°21	5°10	4°39	0°R23	0°49	24°35	n.a.	F 13
S 14	1 16 25	17°36'29	25°53	9°59	25°41	18° 7	5°24	20°38	21°19	5°12	4°38	0°23	0°46	24°42	n.a.	S 14
S 15	1 20 21	18°37'04	8♌ 5	11°36	26°53	18°50	5°35	20°36	21°17	5°13	4°38	0°22	0°43	24°49	n.a.	S 15
M16	1 24 18	19°37'40	20°32	13°13	28° 6	19°32	5°46	20°35	21°15	5°15	4°37	0°21	0°39	24°55	n.a.	M16
T 17	1 28 14	20°38'18	3♍20	14°50	29°18	20°15	5°57	20°34	21°13	5°17	4°36	0°20	0°36	25° 2	n.a.	T 17
W18	1 32 11	21°38'58	16°29	16°27	0♐30	20°58	6° 8	20°33	21°11	5°18	4°35	0°19	0°33	25° 9	n.a.	W18
T 19	1 36 7	22°39'39	0♎ 2	18° 3	1°42	21°41	6°19	20°32	21° 9	5°20	4°34	0°18	0°30	25°15	n.a.	T 19
F 20	1 40 4	23°40'22	13°55	19°39	2°54	22°24	6°30	20°31	21° 6	5°22	4°34	0°17	0°27	25°22	n.a.	F 20
S 21	1 44 0	24°41'07	28° 8	21°15	4° 7	23° 6	6°40	20°30	21° 4	5°24	4°33	0°D17	0°23	25°29	n.a.	S 21
S 22	1 47 57	25°41'53	12♏35	22°51	5°19	23°49	6°51	20°29	21° 2	5°26	4°32	0°17	0°20	25°35	n.a.	S 22
M23	1 51 54	26°42'41	27°10	24°26	6°31	24°32	7° 1	20°29	21° 0	5°27	4°32	0°17	0°17	25°42	n.a.	M23
T 24	1 55 50	27°43'30	11♐47	26° 1	7°42	25°16	7°12	20°28	20°58	5°29	4°31	0°17	0°14	25°49	n.a.	T 24
W25	1 59 47	28°44'20	26°21	27°36	8°54	25°59	7°22	20°28	20°55	5°31	4°30	0°18	0°11	25°56	n.a.	W25
T 26	2 3 43	29°45'11	10♑46	29°11	10° 6	26°42	7°32	20°28	20°53	5°33	4°30	0°18	0° 8	26° 2	n.a.	T 26
F 27	2 7 40	0♏46'04	24°59	0♏46	11°18	27°25	7°42	20°28	20°51	5°35	4°29	0°18	0° 4	26° 9	n.a.	F 27
S 28	2 11 36	1°46'57	8♒58	2°21	12°30	28° 8	7°52	20°D28	20°48	5°37	4°29	0°18	0° 1	26°16	n.a.	S 28
S 29	2 15 33	2°47'51	22°41	3°55	13°41	28°52	8° 2	20°28	20°46	5°39	4°28	0°18	29♈58	26°22	n.a.	S 29
M30	2 19 29	3°48'46	6♓10	5°30	14°53	29°35	8°12	20°28	20°43	5°41	4°28	0°18	29°55	26°29	n.a.	M30
T 31	2 23 26	4♏49'42	19♓24	7♏ 4	16♐ 4	0♏18	8♍22	20♒28	20♉41	5♐43	4♓27	0♉19	29♈52	26♊36	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	1s49	22s16	5s 7	6n16	2n 3	16s 1	1s 7	3s13	0n25	11n38	1n 9	16s40	2s 9	18n13	0s11	20s 5	1n17	25s29	16s56	11n48	12n 7	27n35			n.a.
M 2	2 13	17 27	4 43	5 37	2 1	16 27	1 10	3 30	0 24	11 34	1 9	16 41	2 9	18 13	0 11	20 6	1 17	25 29	16 56	11 46	12 6	27 36			n.a.
T 3	2 38	11 49	4 4	4 57	1 59	16 53	1 13	3 47	0 23	11 30	1 9	16 41	2 9	18 12	0 11	20 6	1 17	25 30	16 56	11 45	12 5	27 37			n.a.
W 4	3 2	5 43	3 11	4 16	1 56	17 18	1 15	4 4	0 23	11 26	1 10	16 42	2 9	18 12	0 11	20 6	1 17	25 30	16 56	11 44	12 4	27 38			n.a.
T 5	3 26	0n31	2 9	3 35	1 52	17 43	1 18	4 22	0 22	11 21	1 10	16 43	2 8	18 11	0 11	20 6	1 17	25 30	16 55	11 43	12 2	27 39			n.a.
F 6	3 50	6 37	1 1	2 52	1 48	18 7	1 21	4 39	0 22	11 17	1 10	16 43	2 8	18 11	0 11	20 7	1 17	25 30	16 55	11 42	12 1	27 39			n.a.
S 7	4 14	12 20	0n 8	2 9	1 44	18 31	1 24	4 56	0 21	11 13	1 10	16 44	2 8	18 10	0 11	20 7	1 17	25 30	16 55	11 42	12 0	27 40			n.a.
S 8	4 37	17 28	1 16	1 26	1 39	18 54	1 27	5 13	0 21	11 9	1 10	16 45	2 8	18 10	0 11	20 7	1 17	25 30	16 55	11 42	11 59	27 41			n.a.
M 9	5 1	21 47	2 19	0 42	1 34	19 17	1 30	5 30	0 20	11 5	1 10	16 45	2 8	18 9	0 11	20 8	1 17	25 31	16 55	11 43	11 58	27 42			n.a.
T 10	5 25	25 9	3 15	0s 2	1 29	19 39	1 32	5 47	0 19	11 1	1 10	16 46	2 8	18 9	0 11	20 8	1 17	25 31	16 54	11 43	11 57	27 43			n.a.
W11	5 49	27 22	4 2	0 46	1 24	20 1	1 35	6 4	0 19	10 56	1 11	16 46	2 8	18 8	0 11	20 8	1 17	25 31	16 54	11 44	11 56	27 44			n.a.
T 12	6 12	28 21	4 39	1 31	1 18	20 23	1 38	6 21	0 18	10 52	1 11	16 47	2 7	18 8	0 11	20 9	1 17	25 31	16 54	11 44	11 55	27 44			n.a.
F 13	6 36	28 1	5 4	2 15	1 12	20 44	1 40	6 38	0 18	10 48	1 11	16 47	2 7	18 7	0 11	20 9	1 17	25 31	16 54	11 44	11 53	27 45			n.a.
S 14	6 59	26 23	5 16	2 59	1 6	21 4	1 43	6 55	0 17	10 44	1 11	16 47	2 7	18 7	0 11	20 9	1 17	25 31	16 53	11 44	11 52	27 46			n.a.
S 15	7 23	23 30	5 14	3 43	1 0	21 24	1 45	7 12	0 16	10 40	1 11	16 48	2 7	18 6	0 11	20 10	1 17	25 31	16 53	11 44	11 51	27 47			n.a.
M16	7 46	19 30	4 57	4 27	0 54	21 43	1 48	7 29	0 16	10 36	1 11	16 48	2 7	18 6	0 11	20 10	1 17	25 31	16 53	11 44	11 50	27 48			n.a.
T 17	8 9	14 31	4 26	5 11	0 47	22 1	1 50	7 46	0 15	10 32	1 12	16 48	2 7	18 5	0 11	20 10	1 17	25 31	16 53	11 43	11 49	27 48			n.a.
W18	8 32	8 45	3 40	5 55	0 41	22 19	1 52	8 3	0 15	10 28	1 12	16 48	2 7	18 5	0 11	20 11	1 17	25 31	16 52	11 43	11 48	27 49			n.a.
T 19	8 55	2 26	2 40	6 38	0 34	22 37	1 55	8 20	0 14	10 25	1 12	16 49	2 6	18 4	0 11	20 11	1 16	25 31	16 52	11 42	11 47	27 50			n.a.
F 20	9 18	4s11	1 30	7 21	0 28	22 53	1 57	8 36	0 13	10 21	1 12	16 49	2 6	18 4	0 11	20 11	1 16	25 31	16 52	11 42	11 46	27 51			n.a.
S 21	9 40	10 45	0 12	8 4	0 21	23 10	1 59	8 53	0 13	10 17	1 12	16 49	2 6	18 3	0 11	20 12	1 16	25 32	16 51	11 42	11 44	27 52			n.a.
S 22	10 3	16 52	1s 8	8 46	0 14	23 25	2 1	9 10	0 12	10 13	1 12	16 49	2 6	18 2	0 11	20 12	1 16	25 32	16 51	11 42	11 43	27 52			n.a.
M23	10 25	22 5	2 24	9 27	0 8	23 40	2 3	9 26	0 12	10 9	1 13	16 49	2 6	18 2	0 11	20 13	1 16	25 32	16 51	11 42	11 42	27 53			n.a.
T 24	10 47	25 56	3 31	10 9	0 1	23 54	2 5	9 43	0 11	10 6	1 13	16 49	2 6	18 1	0 11	20 13	1 16	25 31	16 51	11 42	11 41	27 54			n.a.
W25	11 9	28 3	4 23	10 50	0s 5	24 8	2 7	9 59	0 10	10 2	1 13	16 49	2 6	18 1	0 11	20 13	1 16	25 31	16 50	11 42	11 40	27 54			n.a.
T 26	11 31	28 15	4 59	11 30	0 12	24 21	2 9	10 16	0 10	9 58	1 13	16 49	2 5	18 0	0 11	20 14	1 16	25 31	16 50	11 42	11 39	27 55			n.a.
F 27	11 52	26 33	5 16	12 10	0 18	24 33	2 10	10 32	0 9	9 54	1 13	16 49	2 5	17 59	0 11	20 14	1 16	25 31	16 50	11 42	11 38	27 56			n.a.
S 28	12 14	23 15	5 14	12 49	0 25	24 44	2 12	10 48	0 8	9 51	1 14	16 49	2 5	17 59	0 11	20 14	1 16	25 31	16 49	11 42	11 37	27 57			n.a.
S 29	12 35	18 43	4 53	13 28	0 31	24 55	2 14	11 4	0 8	9 47	1 14	16 48	2 5	17 58	0 11	20 15	1 16	25 31	16 49	11 42	11 35	27 57			n.a.
M30	12 56	13 20	4 17	14 6	0 38	25 5	2 15	11 21	0 7	9 44	1 14	16 48	2 5	17 58	0 11	20 15	1 16	25 31	16 49	11 43	11 34	27 58			n.a.
T 31	13s17	7s25	3s28	14s43	0s44	25s14	2s17	11s37	0n 7	9n40	1n14	16s48	2s 5	17n57	0s11	20s16	1n16	25s31	16s48	11n43	11n33	27n59			n.a.

Julian Day Number = 1664717.5, Delta T = 03h23m48s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'38, Lahiri = - 6°05'38 Julian Calendar 1 Oct. 156 BCE == Greg. Calendar 28 Sept. 156 BCE

The year -155 astronomical counting style corresponds to year 156 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 156 BCE
geocentric

NOVEMBER 156 BCE (-155) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	2 27 23	5♏50'38	2♈24	8♏38	17♐16	1♏ 2	8♍32	20♒29	20°R39	5♐45	4°R27	0♉19	29♈49	26♊42	n.a.	W 1
T 2	2 31 19	6°51'36	15°11	10°12	18°27	1°45	8°41	20°29	20♉36	5°47	4♓26	0°20	29°45	26°49	n.a.	T 2
F 3	2 35 16	7°52'35	27°45	11°46	19°38	2°29	8°51	20°30	20°34	5°49	4°26	0°R20	29°42	26°56	n.a.	F 3
S 4	2 39 12	8°53'35	10♉ 9	13°20	20°49	3°13	9° 0	20°31	20°31	5°51	4°25	0°20	29°39	27° 3	n.a.	S 4
S 5	2 43 9	9°54'36	22°21	14°54	22° 0	3°56	9° 9	20°32	20°29	5°53	4°25	0°19	29°36	27° 9	n.a.	S 5
M 6	2 47 5	10°55'37	4♊25	16°28	23°11	4°40	9°18	20°32	20°26	5°55	4°25	0°18	29°33	27°16	n.a.	M 6
T 7	2 51 2	11°56'41	16°22	18° 2	24°22	5°24	9°27	20°34	20°24	5°57	4°24	0°16	29°29	27°23	n.a.	T 7
W 8	2 54 58	12°57'45	28°14	19°36	25°33	6° 8	9°36	20°35	20°21	6° 0	4°24	0°14	29°26	27°29	n.a.	W 8
T 9	2 58 55	13°58'50	10♋ 5	21°10	26°44	6°51	9°45	20°36	20°19	6° 2	4°24	0°12	29°23	27°36	n.a.	T 9
F 10	3 2 52	14°59'56	21°57	22°44	27°54	7°35	9°53	20°37	20°16	6° 4	4°23	0°11	29°20	27°43	n.a.	F 10
S 11	3 6 48	16° 1'03	3♌55	24°18	29° 5	8°19	10° 2	20°39	20°14	6° 6	4°23	0° 9	29°17	27°49	n.a.	S 11
S 12	3 10 45	17° 2'12	16° 3	25°52	0♎15	9° 3	10°10	20°41	20°11	6° 8	4°23	0°D 9	29°14	27°56	n.a.	S 12
M13	3 14 41	18° 3'21	28°26	27°26	1°25	9°47	10°19	20°42	20° 8	6°10	4°23	0° 9	29°10	28° 3	n.a.	M13
T 14	3 18 38	19° 4'31	11♍ 9	29° 0	2°36	10°31	10°27	20°44	20° 6	6°13	4°22	0°10	29° 7	28°10	n.a.	T 14
W15	3 22 34	20° 5'42	24°14	0♐34	3°46	11°16	10°35	20°46	20° 3	6°15	4°22	0°12	29° 4	28°16	n.a.	W15
T 16	3 26 31	21° 6'54	7♎46	2° 8	4°56	12° 0	10°43	20°48	20° 1	6°17	4°22	0°13	29° 1	28°23	n.a.	T 16
F 17	3 30 27	22° 8'07	21°44	3°43	6° 6	12°44	10°50	20°50	19°58	6°19	4°22	0°14	28°58	28°30	n.a.	F 17
S 18	3 34 24	23° 9'21	6♏ 8	5°16	7°15	13°28	10°58	20°52	19°56	6°21	4°22	0°R14	28°55	28°36	n.a.	S 18
S 19	3 38 21	24°10'35	20°52	6°50	8°25	14°13	11° 6	20°55	19°53	6°24	4°22	0°13	28°51	28°43	n.a.	S 19
M20	3 42 17	25°11'49	5♐52	8°24	9°34	14°57	11°13	20°57	19°51	6°26	4°22	0°11	28°48	28°50	n.a.	M20
T 21	3 46 14	26°13'05	20°56	9°57	10°44	15°41	11°20	21° 0	19°48	6°28	4°22	0° 7	28°45	28°56	n.a.	T 21
W22	3 50 10	27°14'20	5♑57	11°30	11°53	16°26	11°27	21° 2	19°45	6°30	4°D22	0° 3	28°42	29° 3	n.a.	W22
T 23	3 54 7	28°15'36	20°45	13° 3	13° 2	17°10	11°34	21° 5	19°43	6°33	4°22	29♈59	28°39	29°10	n.a.	T 23
F 24	3 58 3	29°16'51	5♒14	14°35	14°11	17°55	11°41	21° 8	19°40	6°35	4°22	29°56	28°35	29°17	n.a.	F 24
S 25	4 2 0	0♐18'07	19°21	16° 6	15°20	18°39	11°47	21°11	19°38	6°37	4°22	29°54	28°32	29°23	n.a.	S 25
S 26	4 5 57	1°19'22	3♓ 4	17°37	16°28	19°24	11°54	21°14	19°35	6°39	4°22	29°D54	28°29	29°30	n.a.	S 26
M27	4 9 53	2°20'37	16°25	19° 6	17°37	20° 9	12° 0	21°17	19°33	6°42	4°22	29°55	28°26	29°37	n.a.	M27
T 28	4 13 50	3°21'52	29°25	20°35	18°45	20°53	12° 6	21°20	19°30	6°44	4°22	29°56	28°23	29°43	n.a.	T 28
W29	4 17 46	4°23'07	12♈ 7	22° 1	19°53	21°38	12°12	21°24	19°28	6°46	4°22	29°58	28°20	29°50	n.a.	W29
T 30	4 21 43	5♐24'22	24♈36	23♐26	21♑ 1	22♏23	12♍18	21♒27	19♉26	6♐48	4♓22	29°R59	28♈16	29♊57	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	13s37	1s18	2s29	15s20	0s50	25s23	2s18	11s52	0n 6	9n37	1n14	16s48	2s 4	17n56	0s11	20s16	1n16	25s31	16s48	11n43	11n32	27n59		n.a.
T 2	13 58	4n46	1 23	15 56	0 56	25 31	2 19	12 8	0 5	9 33	1 15	16 47	2 4	17 56	0 11	20 16	1 16	25 31	16 48	11 43	11 31	28 0		n.a.
F 3	14 18	10 34	0 14	16 31	1 2	25 38	2 20	12 24	0 5	9 30	1 15	16 47	2 4	17 55	0 11	20 17	1 16	25 31	16 47	11 43	11 30	28 1		n.a.
S 4	14 38	15 53	0n54	17 6	1 8	25 45	2 21	12 40	0 4	9 27	1 15	16 46	2 4	17 54	0 11	20 17	1 16	25 31	16 47	11 43	11 29	28 1		n.a.
S 5	14 57	20 29	1 59	17 39	1 13	25 50	2 22	12 55	0 3	9 23	1 15	16 46	2 4	17 54	0 11	20 18	1 16	25 30	16 47	11 43	11 27	28 2		n.a.
M 6	15 17	24 11	2 58	18 12	1 19	25 55	2 23	13 11	0 3	9 20	1 15	16 46	2 4	17 53	0 11	20 18	1 16	25 30	16 46	11 42	11 26	28 2		n.a.
T 7	15 36	26 47	3 48	18 44	1 24	25 59	2 24	13 26	0 2	9 17	1 16	16 45	2 3	17 52	0 11	20 18	1 16	25 30	16 46	11 42	11 25	28 3		n.a.
W 8	15 55	28 10	4 28	19 16	1 29	26 3	2 25	13 42	0 1	9 14	1 16	16 45	2 3	17 52	0 11	20 19	1 16	25 30	16 46	11 41	11 24	28 4		n.a.
T 9	16 13	28 15	4 57	19 46	1 34	26 6	2 25	13 57	0 1	9 11	1 16	16 44	2 3	17 51	0 11	20 19	1 16	25 30	16 45	11 40	11 23	28 4		n.a.
F 10	16 31	27 3	5 13	20 15	1 38	26 8	2 26	14 12	0 0	9 7	1 16	16 43	2 3	17 50	0 11	20 19	1 16	25 29	16 45	11 40	11 22	28 5		n.a.
S 11	16 49	24 36	5 15	20 44	1 43	26 9	2 26	14 27	0s 0	9 4	1 17	16 43	2 3	17 50	0 11	20 20	1 16	25 29	16 45	11 39	11 21	28 5		n.a.
S 12	17 7	21 2	5 4	21 11	1 47	26 9	2 26	14 42	0 1	9 1	1 17	16 42	2 3	17 49	0 11	20 20	1 16	25 29	16 44	11 39	11 20	28 6		n.a.
M13	17 24	16 30	4 38	21 37	1 51	26 9	2 26	14 57	0 2	8 58	1 17	16 41	2 2	17 48	0 11	20 21	1 16	25 29	16 44	11 39	11 18	28 7		n.a.
T 14	17 41	11 8	3 59	22 2	1 55	26 8	2 26	15 11	0 2	8 56	1 17	16 41	2 2	17 48	0 11	20 21	1 16	25 29	16 44	11 40	11 17	28 7		n.a.
W15	17 58	5 9	3 6	22 26	1 58	26 6	2 26	15 26	0 3	8 53	1 17	16 40	2 2	17 47	0 11	20 21	1 16	25 28	16 43	11 40	11 16	28 8		n.a.
T 16	18 15	1s16	2 1	22 49	2 1	26 3	2 26	15 40	0 4	8 50	1 18	16 39	2 2	17 46	0 11	20 22	1 16	25 28	16 43	11 41	11 15	28 8		n.a.
F 17	18 31	7 51	0 47	23 10	2 4	26 0	2 26	15 54	0 4	8 47	1 18	16 38	2 2	17 46	0 11	20 22	1 16	25 28	16 43	11 41	11 14	28 9		n.a.
S 18	18 47	14 14	0s32	23 30	2 7	25 56	2 25	16 9	0 5	8 44	1 18	16 37	2 2	17 45	0 11	20 23	1 16	25 27	16 42	11 41	11 13	28 9		n.a.
S 19	19 2	19 58	1 51	23 49	2 9	25 51	2 25	16 23	0 6	8 42	1 18	16 36	2 1	17 44	0 11	20 23	1 16	25 27	16 42	11 41	11 12	28 10		n.a.
M20	19 17	24 32	3 3	24 6	2 10	25 46	2 24	16 36	0 6	8 39	1 19	16 35	2 1	17 43	0 11	20 23	1 16	25 27	16 42	11 40	11 10	28 10		n.a.
T 21	19 32	27 27	4 3	24 22	2 12	25 40	2 23	16 50	0 7	8 37	1 19	16 34	2 1	17 43	0 11	20 24	1 16	25 27	16 41	11 39	11 9	28 11		n.a.
W22	19 46	28 21	4 46	24 36	2 12	25 33	2 23	17 4	0 8	8 34	1 19	16 33	2 1	17 42	0 11	20 24	1 16	25 26	16 41	11 37	11 8	28 11		n.a.
T 23	20 0	27 11	5 9	24 49	2 13	25 25	2 22	17 17	0 8	8 32	1 19	16 32	2 1	17 41	0 11	20 25	1 16	25 26	16 41	11 36	11 7	28 12		n.a.
F 24	20 14	24 13	5 12	25 0	2 12	25 17	2 20	17 31	0 9	8 29	1 20	16 31	2 1	17 41	0 11	20 25	1 16	25 26	16 40	11 35	11 6	28 12		n.a.
S 25	20 27	19 51	4 55	25 10	2 12	25 8	2 19	17 44	0 10	8 27	1 20	16 30	2 1	17 40	0 11	20 25	1 16	25 25	16 40	11 34	11 5	28 13		n.a.
S 26	20 40	14 34	4 22	25 18	2 10	24 58	2 18	17 57	0 10	8 25	1 20	16 29	2 0	17 39	0 11	20 26	1 15	25 25	16 39	11 34	11 4	28 13		n.a.
M27	20 52	8 44	3 36	25 24	2 8	24 48	2 16	18 10	0 11	8 23	1 21	16 28	2 0	17 39	0 11	20 26	1 15	25 24	16 39	11 34	11 2	28 14		n.a.
T 28	21 4	2 40	2 39	25 28	2 6	24 36	2 15	18 22	0 12	8 20	1 21	16 27	2 0	17 38	0 11	20 27	1 15	25 24	16 39	11 35	11 1	28 14		n.a.
W29	21 16	3n22	1 36	25 30	2 2	24 25	2 13	18 35	0 12	8 18	1 21	16 25	2 0	17 37	0 11	20 27	1 15	25 24	16 38	11 35	11 0	28 14		n.a.
T 30	21s27	9n11	0s29	25s31	1s58	24s12	2s11	18s47	0s13	8n16	1n21	16s24	2s 0	17n37	0s11	20s27	1n15	25s23	16s38	11n36	10n59	28n15		n.a.

Julian Day Number = 1664748.5, Delta T = 03h23m47s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'34, Lahiri = - 6°05'34 Julian Calendar 1 Nov. 156 BCE == Greg. Calendar 29 Oct. 156 BCE

The year -155 astronomical counting style corresponds to year 156 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 156 BCE
geocentric

DECEMBER 156 BCE (-155) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	4 25 39	6♐25'36	6♉53	24♐48	22♑ 9	23♏ 8	12♍24	21♒31	19°R23	6♐51	4♓23	29°R59	28♈13	0♋ 4	n.a.	F 1
S 2	4 29 36	7°26'50	19° 1	26° 8	23°16	23°53	12°30	21°34	19♉21	6°53	4°23	29♈57	28°10	0°10	n.a.	S 2
S 3	4 33 32	8°28'05	1♊ 3	27°25	24°23	24°38	12°35	21°38	19°18	6°55	4°23	29°53	28° 7	0°17	n.a.	S 3
M 4	4 37 29	9°29'19	13° 0	28°38	25°30	25°23	12°40	21°42	19°16	6°57	4°23	29°47	28° 4	0°24	n.a.	M 4
T 5	4 41 26	10°30'33	24°53	29°46	26°37	26° 8	12°45	21°46	19°14	7° 0	4°24	29°40	28° 1	0°30	n.a.	T 5
W 6	4 45 22	11°31'47	6♋45	0♑50	27°44	26°53	12°50	21°50	19°11	7° 2	4°24	29°32	27°57	0°37	n.a.	W 6
T 7	4 49 19	12°33'01	18°36	1°48	28°50	27°38	12°55	21°54	19° 9	7° 4	4°24	29°23	27°54	0°44	n.a.	T 7
F 8	4 53 15	13°34'15	0♌30	2°39	29°56	28°23	13° 0	21°58	19° 7	7° 7	4°25	29°15	27°51	0°51	n.a.	F 8
S 9	4 57 12	14°35'29	12°29	3°23	1♒ 2	29° 8	13° 4	22° 2	19° 5	7° 9	4°25	29° 9	27°48	0°57	n.a.	S 9
S 10	5 1 8	15°36'42	24°36	3°58	2° 8	29°53	13° 8	22° 7	19° 2	7°11	4°26	29° 4	27°45	1° 4	n.a.	S 10
M11	5 5 5	16°37'56	6♍55	4°24	3°13	0♐39	13°12	22°11	19° 0	7°13	4°26	29° 1	27°41	1°11	n.a.	M11
T 12	5 9 2	17°39'09	19°31	4°40	4°18	1°24	13°16	22°16	18°58	7°16	4°27	29°D 1	27°38	1°17	n.a.	T 12
W13	5 12 58	18°40'22	2♎28	4°R45	5°23	2° 9	13°20	22°20	18°56	7°18	4°27	29° 2	27°35	1°24	n.a.	W13
T 14	5 16 55	19°41'35	15°49	4°38	6°28	2°55	13°23	22°25	18°54	7°20	4°28	29° 3	27°32	1°31	n.a.	T 14
F 15	5 20 51	20°42'47	29°39	4°20	7°32	3°40	13°27	22°30	18°52	7°22	4°28	29°R 3	27°29	1°37	n.a.	F 15
S 16	5 24 48	21°44'00	13♏58	3°50	8°36	4°25	13°30	22°34	18°50	7°25	4°29	29° 2	27°26	1°44	n.a.	S 16
S 17	5 28 44	22°45'12	28°43	3° 9	9°39	5°11	13°33	22°39	18°48	7°27	4°29	28°59	27°22	1°51	n.a.	S 17
M18	5 32 41	23°46'23	13♐49	2°17	10°43	5°56	13°36	22°44	18°46	7°29	4°30	28°53	27°19	1°58	n.a.	M18
T 19	5 36 37	24°47'34	29° 7	1°16	11°46	6°42	13°38	22°49	18°44	7°31	4°30	28°45	27°16	2° 4	n.a.	T 19
W20	5 40 34	25°48'44	14♑26	0° 8	12°48	7°28	13°41	22°54	18°42	7°33	4°31	28°36	27°13	2°11	n.a.	W20
T 21	5 44 31	26°49'54	29°35	28♐55	13°51	8°13	13°43	23° 0	18°40	7°36	4°32	28°27	27°10	2°18	n.a.	T 21
F 22	5 48 27	27°51'02	14♒23	27°38	14°52	8°59	13°45	23° 5	18°38	7°38	4°32	28°19	27° 7	2°24	n.a.	F 22
S 23	5 52 24	28°52'09	28°45	26°21	15°54	9°45	13°47	23°10	18°36	7°40	4°33	28°13	27° 3	2°31	n.a.	S 23
S 24	5 56 20	29°53'15	12♓38	25° 5	16°55	10°30	13°49	23°16	18°35	7°42	4°34	28° 9	27° 0	2°38	n.a.	S 24
M25	6 0 17	0♑54'20	26° 3	23°53	17°55	11°16	13°50	23°21	18°33	7°44	4°35	28°D 8	26°57	2°45	n.a.	M25
T 26	6 4 13	1°55'23	9♈ 1	22°47	18°56	12° 2	13°52	23°27	18°31	7°46	4°35	28° 8	26°54	2°51	n.a.	T 26
W27	6 8 10	2°56'25	21°38	21°47	19°55	12°48	13°53	23°33	18°30	7°48	4°36	28°R 9	26°51	2°58	n.a.	W27
T 28	6 12 6	3°57'26	3♉58	20°56	20°55	13°33	13°54	23°38	18°28	7°50	4°37	28° 9	26°47	3° 5	n.a.	T 28
F 29	6 16 3	4°58'26	16° 5	20°13	21°53	14°19	13°55	23°44	18°26	7°53	4°38	28° 7	26°44	3°11	n.a.	F 29
S 30	6 20 0	5°59'24	28° 4	19°39	22°51	15° 5	13°55	23°50	18°25	7°55	4°39	28° 3	26°41	3°18	n.a.	S 30
S 31	6 23 56	7♑ 0'22	9♊58	19♐13	23♒49	15♐51	13♍56	23♒56	18♉23	7♐57	4♓40	27♈56	26♈38	3♋25	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21s38	14n33	0n37	25s30	1s53	23s59	2s 9	18s59	0s14	8n14	1n22	16s23	2s 0	17n36	0s11	20s28	1n15	25s23	16s38	11n36	10n58	28n15		n.a.
S 2	21 48	19 18	1 42	25 27	1 47	23 46	2 7	19 11	0 14	8 12	1 22	16 21	1 59	17 35	0 11	20 28	1 15	25 22	16 37	11 35	10 57	28 16		n.a.
S 3	21 58	23 13	2 41	25 22	1 40	23 32	2 4	19 23	0 15	8 11	1 22	16 20	1 59	17 35	0 11	20 29	1 15	25 22	16 37	11 34	10 56	28 16		n.a.
M 4	22 8	26 7	3 32	25 15	1 32	23 17	2 2	19 35	0 16	8 9	1 22	16 19	1 59	17 34	0 11	20 29	1 15	25 22	16 37	11 32	10 54	28 17		n.a.
T 5	22 17	27 51	4 14	25 6	1 23	23 1	1 59	19 46	0 16	8 7	1 23	16 17	1 59	17 34	0 11	20 29	1 15	25 21	16 36	11 29	10 53	28 17		n.a.
W 6	22 26	28 16	4 44	24 56	1 14	22 46	1 57	19 57	0 17	8 5	1 23	16 16	1 59	17 33	0 11	20 30	1 15	25 21	16 36	11 26	10 52	28 17		n.a.
T 7	22 34	27 24	5 3	24 45	1 2	22 29	1 54	20 9	0 17	8 4	1 23	16 14	1 59	17 32	0 11	20 30	1 15	25 20	16 36	11 23	10 51	28 18		n.a.
F 8	22 42	25 17	5 8	24 31	0 50	22 12	1 51	20 19	0 18	8 2	1 24	16 13	1 59	17 32	0 11	20 31	1 15	25 20	16 35	11 20	10 50	28 18		n.a.
S 9	22 49	22 2	5 0	24 17	0 37	21 54	1 48	20 30	0 19	8 1	1 24	16 11	1 58	17 31	0 11	20 31	1 15	25 19	16 35	11 18	10 49	28 18		n.a.
S 10	22 56	17 50	4 38	24 1	0 22	21 36	1 44	20 41	0 19	8 0	1 24	16 10	1 58	17 30	0 11	20 31	1 15	25 19	16 34	11 16	10 47	28 19		n.a.
M11	23 2	12 50	4 4	23 45	0 6	21 18	1 41	20 51	0 20	7 58	1 24	16 8	1 58	17 30	0 11	20 32	1 15	25 18	16 34	11 15	10 46	28 19		n.a.
T 12	23 8	7 12	3 16	23 28	0n10	20 59	1 37	21 1	0 21	7 57	1 25	16 7	1 58	17 29	0 11	20 32	1 15	25 18	16 34	11 15	10 45	28 19		n.a.
W13	23 14	1 7	2 18	23 10	0 28	20 39	1 34	21 11	0 21	7 56	1 25	16 5	1 58	17 29	0 11	20 32	1 15	25 17	16 33	11 15	10 44	28 20		n.a.
T 14	23 19	5s13	1 11	22 51	0 47	20 19	1 30	21 21	0 22	7 55	1 25	16 3	1 58	17 28	0 11	20 33	1 15	25 17	16 33	11 16	10 43	28 20		n.a.
F 15	23 23	11 32	0s 3	22 33	1 6	19 59	1 26	21 30	0 23	7 54	1 26	16 2	1 58	17 28	0 11	20 33	1 15	25 16	16 33	11 16	10 42	28 20		n.a.
S 16	23 27	17 28	1 19	22 15	1 25	19 38	1 22	21 39	0 23	7 53	1 26	16 0	1 58	17 27	0 11	20 34	1 15	25 16	16 32	11 15	10 41	28 21		n.a.
S 17	23 31	22 34	2 32	21 56	1 44	19 17	1 17	21 48	0 24	7 52	1 26	15 58	1 57	17 26	0 11	20 34	1 15	25 15	16 32	11 14	10 39	28 21		n.a.
M18	23 34	26 18	3 36	21 39	2 3	18 55	1 13	21 57	0 25	7 51	1 26	15 56	1 57	17 26	0 11	20 34	1 15	25 15	16 32	11 12	10 38	28 21		n.a.
T 19	23 37	28 8	4 25	21 22	2 21	18 33	1 8	22 6	0 25	7 50	1 27	15 55	1 57	17 25	0 11	20 35	1 15	25 14	16 31	11 9	10 37	28 21		n.a.
W20	23 39	27 49	4 55	21 6	2 37	18 11	1 4	22 14	0 26	7 50	1 27	15 53	1 57	17 25	0 11	20 35	1 15	25 14	16 31	11 6	10 36	28 22		n.a.
T 21	23 41	25 26	5 4	20 50	2 52	17 48	0 59	22 22	0 27	7 49	1 27	15 51	1 57	17 24	0 11	20 35	1 15	25 13	16 31	11 3	10 35	28 22		n.a.
F 22	23 42	21 22	4 53	20 37	3 5	17 25	0 54	22 30	0 27	7 48	1 28	15 49	1 57	17 24	0 11	20 36	1 15	25 12	16 30	11 0	10 34	28 22		n.a.
S 23	23 43	16 8	4 23	20 25	3 15	17 1	0 48	22 38	0 28	7 48	1 28	15 47	1 57	17 23	0 11	20 36	1 15	25 12	16 30	10 58	10 32	28 22		n.a.
S 24	23 43	10 14	3 38	20 14	3 24	16 38	0 43	22 45	0 29	7 48	1 28	15 45	1 57	17 23	0 11	20 36	1 15	25 11	16 30	10 56	10 31	28 23		n.a.
M25	23 43	4 4	2 42	20 5	3 29	16 14	0 38	22 53	0 29	7 47	1 29	15 43	1 57	17 22	0 11	20 37	1 15	25 11	16 29	10 56	10 30	28 23		n.a.
T 26	23 42	2n 5	1 40	19 59	3 32	15 50	0 32	22 59	0 30	7 47	1 29	15 41	1 56	17 22	0 11	20 37	1 15	25 10	16 29	10 56	10 29	28 23		n.a.
W27	23 41	8 0	0 35	19 55	3 33	15 25	0 26	23 6	0 31	7 47	1 29	15 39	1 56	17 22	0 11	20 37	1 15	25 10	16 29	10 56	10 28	28 23		n.a.
T 28	23 39	13 28	0n31	19 53	3 32	15 1	0 20	23 13	0 31	7 47	1 29	15 37	1 56	17 21	0 11	20 38	1 15	25 9	16 28	10 56	10 27	28 23		n.a.
F 29	23 37	18 20	1 34	19 53	3 29	14 36	0 14	23 19	0 32	7 47	1 30	15 35	1 56	17 21	0 11	20 38	1 15	25 8	16 28	10 56	10 26	28 24		n.a.
S 30	23 35	22 25	2 32	19 55	3 24	14 11	0 8	23 25	0 33	7 47	1 30	15 33	1 56	17 20	0 11	20 38	1 15	25 8	16 28	10 54	10 24	28 24		n.a.
S 31	23s32	25n32	3n23	19s59	3n18	13s45	0s 1	23s30	0s33	7n47	1n30	15s31	1s56	17n20	0s11	20s39	1n15	25s 7	16s28	10n51	10n23	28n24		n.a.

Julian Day Number = 1664778.5, Delta T = 03h23m46s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'30, Lahiri = - 6°05'29 Julian Calendar 1 Dec. 156 BCE == Greg. Calendar 28 Nov. 156 BCE

The year -155 astronomical counting style corresponds to year 156 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 155 BCE
geocentric

JANUARY 155 BCE (-154) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 27 53	8♑ 1'17	21♊50	18°R56	24♒46	16♐37	13♍56	24♒ 2	18°R22	7♐59	4♓41	27°R46	26♈35	3♋32	n.a.	M 1
T 2	6 31 49	9° 2'12	3♋41	18♐48	25°43	17°23	13°R56	24° 8	18♉21	8° 1	4°41	27♈33	26°32	3°38	n.a.	T 2
W 3	6 35 46	10° 3'06	15°34	18°D48	26°39	18° 9	13°56	24°14	18°19	8° 3	4°42	27°20	26°28	3°45	n.a.	W 3
T 4	6 39 42	11° 3'58	27°29	18°55	27°34	18°55	13°55	24°20	18°18	8° 5	4°43	27° 5	26°25	3°52	n.a.	T 4
F 5	6 43 39	12° 4'49	9♌28	19° 9	28°29	19°41	13°55	24°26	18°17	8° 7	4°44	26°52	26°22	3°58	n.a.	F 5
S 6	6 47 36	13° 5'38	21°33	19°29	29°23	20°27	13°54	24°32	18°16	8° 9	4°45	26°40	26°19	4° 5	n.a.	S 6
S 7	6 51 32	14° 6'27	3♍45	19°55	0♓16	21°13	13°53	24°39	18°14	8°11	4°46	26°31	26°16	4°12	n.a.	S 7
M 8	6 55 29	15° 7'14	16° 7	20°27	1° 9	22° 0	13°52	24°45	18°13	8°12	4°47	26°25	26°13	4°19	n.a.	M 8
T 9	6 59 25	16° 8'00	28°42	21° 3	2° 1	22°46	13°50	24°51	18°12	8°14	4°48	26°22	26° 9	4°25	n.a.	T 9
W10	7 3 22	17° 8'45	11♎35	21°44	2°52	23°32	13°49	24°58	18°11	8°16	4°49	26°21	26° 6	4°32	n.a.	W10
T 11	7 7 18	18° 9'29	24°49	22°30	3°42	24°18	13°47	25° 4	18°10	8°18	4°50	26°21	26° 3	4°39	n.a.	T 11
F 12	7 11 15	19°10'12	8♏27	23°19	4°32	25° 5	13°45	25°11	18° 9	8°20	4°52	26°21	26° 0	4°45	n.a.	F 12
S 13	7 15 11	20°10'53	22°31	24°11	5°20	25°51	13°43	25°18	18° 9	8°22	4°53	26°19	25°57	4°52	n.a.	S 13
S 14	7 19 8	21°11'33	7♐ 2	25° 7	6° 8	26°37	13°41	25°24	18° 8	8°24	4°54	26°15	25°53	4°59	n.a.	S 14
M15	7 23 5	22°12'12	21°57	26° 6	6°55	27°24	13°38	25°31	18° 7	8°25	4°55	26° 7	25°50	5° 6	n.a.	M15
T 16	7 27 1	23°12'50	7♑ 8	27° 7	7°41	28°10	13°36	25°38	18° 6	8°27	4°56	25°58	25°47	5°12	n.a.	T 16
W17	7 30 58	24°13'26	22°26	28°11	8°26	28°56	13°33	25°44	18° 6	8°29	4°57	25°46	25°44	5°19	n.a.	W17
T 18	7 34 54	25°14'00	7♒39	29°17	9°10	29°43	13°30	25°51	18° 5	8°31	4°58	25°34	25°41	5°26	n.a.	T 18
F 19	7 38 51	26°14'33	22°36	0♑25	9°53	0♑29	13°27	25°58	18° 5	8°32	5° 0	25°24	25°38	5°32	n.a.	F 19
S 20	7 42 47	27°15'04	7♓ 9	1°36	10°35	1°16	13°23	26° 5	18° 4	8°34	5° 1	25°15	25°34	5°39	n.a.	S 20
S 21	7 46 44	28°15'32	21°13	2°48	11°15	2° 2	13°20	26°12	18° 4	8°36	5° 2	25° 9	25°31	5°46	n.a.	S 21
M22	7 50 40	29°15'59	4♈46	4° 2	11°55	2°48	13°16	26°19	18° 3	8°37	5° 3	25° 6	25°28	5°53	n.a.	M22
T 23	7 54 37	0♒16'23	17°51	5°17	12°33	3°35	13°12	26°26	18° 3	8°39	5° 5	25° 5	25°25	5°59	n.a.	T 23
W24	7 58 34	1°16'46	0♉31	6°35	13°10	4°21	13° 8	26°33	18° 3	8°40	5° 6	25° 5	25°22	6° 6	n.a.	W24
T 25	8 2 30	2°17'06	12°52	7°53	13°45	5° 8	13° 4	26°40	18° 3	8°42	5° 7	25° 5	25°19	6°13	n.a.	T 25
F 26	8 6 27	3°17'25	24°58	9°14	14°19	5°54	13° 0	26°47	18° 2	8°43	5° 8	25° 3	25°15	6°19	n.a.	F 26
S 27	8 10 23	4°17'41	6♊54	10°35	14°52	6°41	12°55	26°54	18° 2	8°45	5°10	24°59	25°12	6°26	n.a.	S 27
S 28	8 14 20	5°17'55	18°45	11°58	15°23	7°28	12°50	27° 2	18° 2	8°46	5°11	24°52	25° 9	6°33	n.a.	S 28
M29	8 18 16	6°18'07	0♋35	13°22	15°52	8°14	12°45	27° 9	18°D 2	8°48	5°12	24°42	25° 6	6°40	n.a.	M29
T 30	8 22 13	7°18'17	12°27	14°48	16°20	9° 1	12°40	27°16	18° 2	8°49	5°14	24°30	25° 3	6°46	n.a.	T 30
W31	8 26 9	8♒18'25	24♋22	16♑15	16♓46	9♑47	12♍35	27♒23	18♉ 2	8♐51	5♓15	24♈17	24♈59	6♋53	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	23s28	27n31	4n 4	20s 5	3n11	13s20	0n 5	23s36	0s34	7n47	1n31	15s29	1s56	17n20	0s11	20s39	1n15	25s 6	16s27	10n48	10n22	28n24			n.a.
T 2	23 24	28 15	4 35	20 12	3 3	12 55	0 12	23 41	0 35	7 47	1 31	15 27	1 56	17 19	0 10	20 39	1 15	25 6	16 27	10 43	10 21	28 24			n.a.
W 3	23 20	27 40	4 54	20 21	2 54	12 29	0 19	23 46	0 35	7 48	1 31	15 25	1 56	17 19	0 10	20 40	1 16	25 5	16 27	10 38	10 20	28 24			n.a.
T 4	23 15	25 48	5 0	20 31	2 45	12 3	0 26	23 51	0 36	7 48	1 32	15 23	1 56	17 19	0 10	20 40	1 16	25 5	16 26	10 33	10 19	28 25			n.a.
F 5	23 10	22 47	4 53	20 42	2 35	11 37	0 33	23 55	0 37	7 49	1 32	15 20	1 55	17 18	0 10	20 40	1 16	25 4	16 26	10 28	10 17	28 25			n.a.
S 6	23 4	18 47	4 33	20 54	2 24	11 12	0 40	23 59	0 37	7 49	1 32	15 18	1 55	17 18	0 10	20 41	1 16	25 3	16 26	10 24	10 16	28 25			n.a.
S 7	22 58	13 58	4 0	21 6	2 14	10 46	0 48	24 3	0 38	7 50	1 33	15 16	1 55	17 18	0 10	20 41	1 16	25 3	16 26	10 21	10 15	28 25			n.a.
M 8	22 51	8 32	3 15	21 19	2 3	10 20	0 55	24 7	0 39	7 51	1 33	15 14	1 55	17 17	0 10	20 41	1 16	25 2	16 25	10 19	10 14	28 25			n.a.
T 9	22 44	2 40	2 21	21 32	1 52	9 54	1 3	24 10	0 39	7 51	1 33	15 12	1 55	17 17	0 10	20 41	1 16	25 1	16 25	10 17	10 13	28 25			n.a.
W10	22 36	3s27	1 17	21 46	1 42	9 28	1 11	24 13	0 40	7 52	1 33	15 9	1 55	17 17	0 10	20 42	1 16	25 1	16 25	10 17	10 12	28 25			n.a.
T 11	22 28	9 35	0 8	21 59	1 31	9 2	1 19	24 16	0 40	7 53	1 34	15 7	1 55	17 16	0 10	20 42	1 16	25 0	16 25	10 17	10 10	28 25			n.a.
F 12	22 20	15 29	1s 3	22 12	1 20	8 36	1 27	24 19	0 41	7 54	1 34	15 5	1 55	17 16	0 10	20 42	1 16	24 59	16 24	10 17	10 9	28 25			n.a.
S 13	22 11	20 46	2 13	22 25	1 10	8 11	1 36	24 21	0 42	7 55	1 34	15 2	1 55	17 16	0 10	20 43	1 16	24 59	16 24	10 16	10 8	28 25			n.a.
S 14	22 1	24 58	3 17	22 38	1 0	7 45	1 44	24 23	0 42	7 56	1 35	15 0	1 55	17 16	0 10	20 43	1 16	24 58	16 24	10 15	10 7	28 26			n.a.
M15	21 52	27 36	4 9	22 50	0 49	7 19	1 53	24 24	0 43	7 58	1 35	14 58	1 55	17 16	0 10	20 43	1 16	24 58	16 24	10 12	10 6	28 26			n.a.
T 16	21 42	28 15	4 44	23 2	0 39	6 54	2 2	24 26	0 44	7 59	1 35	14 55	1 55	17 15	0 10	20 43	1 16	24 57	16 23	10 8	10 5	28 26			n.a.
W17	21 31	26 45	4 59	23 13	0 29	6 29	2 11	24 27	0 44	8 0	1 35	14 53	1 55	17 15	0 10	20 44	1 16	24 56	16 23	10 4	10 3	28 26			n.a.
T 18	21 20	23 17	4 53	23 23	0 20	6 4	2 20	24 28	0 45	8 2	1 36	14 51	1 55	17 15	0 10	20 44	1 16	24 56	16 23	10 0	10 2	28 26			n.a.
F 19	21 9	18 20	4 27	23 33	0 10	5 39	2 29	24 28	0 46	8 3	1 36	14 48	1 55	17 15	0 10	20 44	1 16	24 55	16 23	9 56	10 1	28 26			n.a.
S 20	20 57	12 27	3 44	23 41	0 1	5 15	2 39	24 29	0 46	8 5	1 36	14 46	1 55	17 15	0 10	20 44	1 16	24 54	16 22	9 53	10 0	28 26			n.a.
S 21	20 45	6 6	2 49	23 49	0s 8	4 50	2 48	24 29	0 47	8 6	1 36	14 43	1 55	17 15	0 10	20 45	1 16	24 54	16 22	9 51	9 59	28 26			n.a.
M22	20 32	0n19	1 45	23 56	0 16	4 26	2 58	24 29	0 47	8 8	1 37	14 41	1 54	17 15	0 10	20 45	1 16	24 53	16 22	9 49	9 58	28 26			n.a.
T 23	20 20	6 30	0 38	24 1	0 25	4 3	3 8	24 28	0 48	8 10	1 37	14 38	1 54	17 15	0 10	20 45	1 16	24 52	16 22	9 49	9 56	28 26			n.a.
W24	20 6	12 14	0n29	24 6	0 33	3 39	3 18	24 27	0 49	8 12	1 37	14 36	1 54	17 15	0 10	20 45	1 16	24 52	16 22	9 49	9 55	28 26			n.a.
T 25	19 53	17 21	1 33	24 9	0 41	3 16	3 28	24 26	0 49	8 14	1 38	14 33	1 54	17 15	0 10	20 45	1 16	24 51	16 21	9 49	9 54	28 26			n.a.
F 26	19 39	21 40	2 31	24 12	0 48	2 54	3 38	24 25	0 50	8 15	1 38	14 31	1 54	17 14	0 10	20 46	1 16	24 50	16 21	9 48	9 53	28 26			n.a.
S 27	19 24	25 1	3 22	24 13	0 55	2 32	3 48	24 23	0 50	8 17	1 38	14 28	1 54	17 14	0 10	20 46	1 16	24 50	16 21	9 47	9 52	28 25			n.a.
S 28	19 10	27 16	4 3	24 12	1 2	2 10	3 59	24 21	0 51	8 20	1 38	14 26	1 54	17 14	0 10	20 46	1 16	24 49	16 21	9 44	9 51	28 25			n.a.
M29	18 55	28 17	4 34	24 11	1 9	1 49	4 9	24 19	0 52	8 22	1 38	14 23	1 54	17 15	0 10	20 46	1 16	24 48	16 21	9 41	9 49	28 25			n.a.
T 30	18 39	28 0	4 53	24 8	1 15	1 28	4 20	24 16	0 52	8 24	1 39	14 21	1 54	17 15	0 10	20 46	1 16	24 48	16 21	9 36	9 48	28 25			n.a.
W31	18s24	26n24	5n 0	24s 4	1s21	1s 8	4n30	24s14	0s53	8n26	1n39	14s18	1s54	17n15	0s10	20s47	1n16	24s47	16s20	9n31	9n47	28n25			n.a.

Julian Day Number = 1664809.5, Delta T = 03h23m45s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'26, Lahiri = - 6°05'25 Julian Calendar 1 Jan. 155 BCE == Greg. Calendar 29 Dec. 156 BCE

The year -154 astronomical counting style corresponds to year 155 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 155 BCE
geocentric

FEBRUARY 155 BCE (-154) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 30 6	9♒18'31	6♌24	17♉43	17♓10	10♉34	12°R30	27♒31	18♉ 3	8♐52	5♓16	24°R 3	24♈56	7♋ 0	n.a.	T 1
F 2	8 34 3	10°18'35	18°32	19°12	17°32	11°21	12♍25	27°38	18° 3	8°53	5°18	23♈49	24°53	7° 6	n.a.	F 2
S 3	8 37 59	11°18'37	0♍48	20°42	17°53	12° 7	12°19	27°45	18° 3	8°55	5°19	23°38	24°50	7°13	n.a.	S 3
S 4	8 41 56	12°18'37	13°12	22°13	18°11	12°54	12°13	27°53	18° 3	8°56	5°20	23°29	24°47	7°20	n.a.	S 4
M 5	8 45 52	13°18'35	25°46	23°46	18°28	13°40	12° 7	28° 0	18° 4	8°57	5°22	23°23	24°44	7°27	n.a.	M 5
T 6	8 49 49	14°18'32	8♎31	25°20	18°42	14°27	12° 1	28° 7	18° 4	8°58	5°23	23°20	24°40	7°33	n.a.	T 6
W 7	8 53 45	15°18'26	21°30	26°55	18°55	15°14	11°55	28°15	18° 5	8°59	5°25	23°D19	24°37	7°40	n.a.	W 7
T 8	8 57 42	16°18'19	4♏45	28°31	19° 5	16° 0	11°49	28°22	18° 5	9° 1	5°26	23°19	24°34	7°47	n.a.	T 8
F 9	9 1 38	17°18'10	18°19	0♒ 8	19°13	16°47	11°43	28°30	18° 6	9° 2	5°27	23°R19	24°31	7°54	n.a.	F 9
S 10	9 5 35	18°18'00	2♐13	1°46	19°18	17°34	11°36	28°37	18° 6	9° 3	5°29	23°19	24°28	8° 0	n.a.	S 10
S 11	9 9 32	19°17'47	16°29	3°26	19°21	18°20	11°29	28°45	18° 7	9° 4	5°30	23°16	24°25	8° 7	n.a.	S 11
M12	9 13 28	20°17'33	1♉ 4	5° 6	19°R22	19° 7	11°23	28°52	18° 8	9° 5	5°32	23°10	24°21	8°14	n.a.	M12
T 13	9 17 25	21°17'17	15°54	6°48	19°21	19°54	11°16	29° 0	18° 8	9° 6	5°33	23° 3	24°18	8°20	n.a.	T 13
W14	9 21 21	22°17'00	0♒52	8°31	19°17	20°41	11° 9	29° 7	18° 9	9° 7	5°35	22°54	24°15	8°27	n.a.	W14
T 15	9 25 18	23°16'40	15°49	10°16	19°10	21°27	11° 2	29°15	18°10	9° 8	5°36	22°44	24°12	8°34	n.a.	T 15
F 16	9 29 14	24°16'18	0♓37	12° 1	19° 1	22°14	10°55	29°22	18°11	9° 9	5°38	22°35	24° 9	8°41	n.a.	F 16
S 17	9 33 11	25°15'53	15° 5	13°48	18°49	23° 1	10°48	29°30	18°12	9°10	5°39	22°28	24° 5	8°47	n.a.	S 17
S 18	9 37 7	26°15'27	29°10	15°36	18°35	23°47	10°41	29°37	18°13	9°10	5°41	22°24	24° 2	8°54	n.a.	S 18
M19	9 41 4	27°14'58	12♈47	17°25	18°19	24°34	10°33	29°45	18°14	9°11	5°42	22°21	23°59	9° 1	n.a.	M19
T 20	9 45 1	28°14'27	25°58	19°16	18° 0	25°21	10°26	29°52	18°15	9°12	5°43	22°D21	23°56	9° 7	n.a.	T 20
W21	9 48 57	29°13'53	8♉44	21° 8	17°39	26° 8	10°19	29°59	18°17	9°13	5°45	22°22	23°53	9°14	n.a.	W21
T 22	9 52 54	0♓13'17	21° 9	23° 1	17°15	26°54	10°11	0♓ 7	18°18	9°14	5°46	22°23	23°50	9°21	n.a.	T 22
F 23	9 56 50	1°12'39	3♊18	24°55	16°49	27°41	10° 4	0°15	18°19	9°14	5°48	22°R23	23°46	9°28	n.a.	F 23
S 24	10 0 47	2°11'59	15°16	26°51	16°21	28°28	9°56	0°23	18°21	9°15	5°49	22°22	23°43	9°34	n.a.	S 24
S 25	10 4 43	3°11'15	27° 8	28°47	15°51	29°14	9°48	0°30	18°22	9°15	5°51	22°19	23°40	9°41	n.a.	S 25
M26	10 8 40	4°10'30	8♋59	0♓45	15°20	0♒ 1	9°41	0°38	18°23	9°16	5°52	22°14	23°37	9°48	n.a.	M26
T 27	10 12 36	5° 9'42	20°53	2°44	14°47	0°48	9°33	0°45	18°25	9°17	5°54	22° 7	23°34	9°54	n.a.	T 27
W28	10 16 33	6♓ 8'52	2♌53	4♓45	14♓12	1♒34	9♍25	0♓53	18♉26	9♐17	5♓55	21♈59	23♈31	10♋ 1	n.a.	W28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s 8	23n37	4n53	23s58	1s27	0s49	4n41	24s11	0s53	8n28	1n39	14s16	1s54	17n15	0s10	20s47	1n16	24s46	16s20	9n26	9n46	28n25		n.a.
F 2	17 52	19 46	4 33	23 51	1 33	0 30	4 52	24 7	0 54	8 31	1 39	14 13	1 54	17 15	0 10	20 47	1 16	24 46	16 20	9 21	9 45	28 25		n.a.
S 3	17 35	15 3	4 0	23 42	1 38	0 12	5 3	24 4	0 54	8 33	1 40	14 11	1 54	17 15	0 10	20 47	1 16	24 45	16 20	9 17	9 43	28 25		n.a.
S 4	17 18	9 41	3 15	23 32	1 42	0n 5	5 13	24 0	0 55	8 35	1 40	14 8	1 54	17 15	0 10	20 47	1 16	24 44	16 20	9 13	9 42	28 25		n.a.
M 5	17 1	3 51	2 21	23 21	1 47	0 21	5 24	23 56	0 56	8 38	1 40	14 5	1 54	17 15	0 10	20 48	1 16	24 44	16 20	9 11	9 41	28 25		n.a.
T 6	16 44	2s14	1 18	23 8	1 50	0 37	5 35	23 51	0 56	8 40	1 40	14 3	1 54	17 15	0 10	20 48	1 16	24 43	16 20	9 10	9 40	28 24		n.a.
W 7	16 26	8 20	0 10	22 53	1 54	0 52	5 46	23 46	0 57	8 43	1 40	14 0	1 54	17 15	0 10	20 48	1 16	24 42	16 19	9 10	9 39	28 24		n.a.
T 8	16 8	14 12	1s 0	22 37	1 57	1 5	5 57	23 41	0 57	8 45	1 41	13 58	1 54	17 15	0 10	20 48	1 16	24 42	16 19	9 10	9 38	28 24		n.a.
F 9	15 50	19 32	2 9	22 19	2 0	1 18	6 7	23 36	0 58	8 48	1 41	13 55	1 54	17 16	0 10	20 48	1 16	24 41	16 19	9 10	9 36	28 24		n.a.
S 10	15 31	23 58	3 11	21 59	2 2	1 30	6 18	23 31	0 58	8 51	1 41	13 52	1 54	17 16	0 10	20 48	1 16	24 40	16 19	9 9	9 35	28 24		n.a.
S 11	15 12	27 4	4 4	21 38	2 4	1 41	6 28	23 25	0 59	8 53	1 41	13 50	1 54	17 16	0 10	20 48	1 16	24 40	16 19	9 8	9 34	28 24		n.a.
M12	14 53	28 24	4 41	21 15	2 6	1 51	6 39	23 19	0 59	8 56	1 41	13 47	1 54	17 16	0 10	20 49	1 16	24 39	16 19	9 6	9 33	28 23		n.a.
T 13	14 34	27 44	5 1	20 50	2 7	1 59	6 49	23 13	1 0	8 59	1 41	13 44	1 54	17 17	0 10	20 49	1 16	24 38	16 19	9 4	9 32	28 23		n.a.
W14	14 15	25 5	5 1	20 24	2 8	2 7	6 58	23 6	1 0	9 2	1 42	13 42	1 54	17 17	0 10	20 49	1 16	24 38	16 19	9 0	9 31	28 23		n.a.
T 15	13 55	20 43	4 40	19 56	2 8	2 13	7 8	22 59	1 1	9 5	1 42	13 39	1 54	17 17	0 10	20 49	1 17	24 37	16 19	8 57	9 29	28 23		n.a.
F 16	13 35	15 7	4 0	19 26	2 8	2 18	7 17	22 52	1 2	9 7	1 42	13 36	1 54	17 17	0 10	20 49	1 17	24 37	16 19	8 53	9 28	28 23		n.a.
S 17	13 15	8 47	3 5	18 54	2 7	2 21	7 26	22 45	1 2	9 10	1 42	13 34	1 54	17 18	0 10	20 49	1 17	24 36	16 19	8 51	9 27	28 22		n.a.
S 18	12 55	2 11	2 1	18 21	2 6	2 24	7 34	22 37	1 3	9 13	1 42	13 31	1 54	17 18	0 10	20 49	1 17	24 35	16 19	8 49	9 26	28 22		n.a.
M19	12 34	4n20	0 51	17 46	2 4	2 24	7 42	22 29	1 3	9 16	1 42	13 28	1 54	17 18	0 10	20 49	1 17	24 35	16 18	8 48	9 25	28 22		n.a.
T 20	12 13	10 27	0n19	17 9	2 2	2 24	7 50	22 21	1 4	9 19	1 42	13 26	1 54	17 19	0 10	20 49	1 17	24 34	16 18	8 48	9 23	28 22		n.a.
W21	11 52	15 57	1 27	16 30	2 0	2 22	7 57	22 13	1 4	9 22	1 43	13 23	1 55	17 19	0 10	20 49	1 17	24 34	16 18	8 48	9 22	28 21		n.a.
T 22	11 31	20 38	2 28	15 50	1 56	2 18	8 3	22 4	1 5	9 25	1 43	13 20	1 55	17 19	0 10	20 50	1 17	24 33	16 18	8 48	9 21	28 21		n.a.
F 23	11 10	24 21	3 22	15 8	1 53	2 14	8 8	21 56	1 5	9 28	1 43	13 18	1 55	17 20	0 10	20 50	1 17	24 32	16 18	8 49	9 20	28 21		n.a.
S 24	10 49	26 57	4 5	14 24	1 48	2 7	8 13	21 47	1 5	9 31	1 43	13 15	1 55	17 20	0 10	20 50	1 17	24 32	16 18	8 48	9 19	28 21		n.a.
S 25	10 27	28 19	4 38	13 39	1 44	1 59	8 17	21 37	1 6	9 34	1 43	13 12	1 55	17 21	0 10	20 50	1 17	24 31	16 18	8 47	9 17	28 20		n.a.
M26	10 5	28 23	4 59	12 52	1 38	1 50	8 21	21 28	1 6	9 37	1 43	13 10	1 55	17 21	0 10	20 50	1 17	24 31	16 18	8 45	9 16	28 20		n.a.
T 27	9 44	27 8	5 7	12 3	1 32	1 40	8 23	21 18	1 7	9 40	1 43	13 7	1 55	17 21	0 9	20 50	1 17	24 30	16 18	8 43	9 15	28 20		n.a.
W28	9s22	24n38	5n 2	11s13	1s26	1n28	8n25	21s 8	1s 7	9n43	1n43	13s 4	1s55	17n22	0s 9	20s50	1n17	24s29	16s18	8n39	9n14	28n19		n.a.

Julian Day Number = 1664840.5, Delta T = 03h23m44s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'21, Lahiri = - 6°05'21 Julian Calendar 1 Feb. 155 BCE == Greg. Calendar 29 Jan. 155 BCE

The year -154 astronomical counting style corresponds to year 155 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 155 BCE
geocentric

MARCH 155 BCE (-154) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 20 29	7♓ 8'00	15♌ 1	6♓46	13°R36	2♒21	9°R18	1♓ 0	18♉28	9♐18	5♓57	21°R50	23♈27	10♋ 8	n.a.	T 1
F 2	10 24 26	8° 7'05	27°20	8°48	13♓ 0	3° 7	9♍10	1° 8	18°30	9°18	5°58	21♈42	23°24	10°15	n.a.	F 2
S 3	10 28 23	9° 6'08	9♍49	10°51	12°22	3°54	9° 2	1°15	18°31	9°18	6° 0	21°35	23°21	10°21	n.a.	S 3
S 4	10 32 19	10° 5'09	22°30	12°54	11°44	4°41	8°54	1°23	18°33	9°19	6° 1	21°30	23°18	10°28	n.a.	S 4
M 5	10 36 16	11° 4'07	5♎23	14°58	11° 6	5°27	8°47	1°30	18°35	9°19	6° 3	21°26	23°15	10°35	n.a.	M 5
T 6	10 40 12	12° 3'04	18°27	17° 3	10°28	6°14	8°39	1°38	18°37	9°20	6° 4	21°D25	23°11	10°42	n.a.	T 6
W 7	10 44 9	13° 1'59	1♏44	19° 7	9°50	7° 0	8°31	1°45	18°38	9°20	6° 6	21°26	23° 8	10°48	n.a.	W 7
T 8	10 48 5	14° 0'52	15°13	21°11	9°13	7°47	8°24	1°53	18°40	9°20	6° 7	21°27	23° 5	10°55	n.a.	T 8
F 9	10 52 2	14°59'43	28°55	23°14	8°36	8°34	8°16	2° 0	18°42	9°20	6° 9	21°28	23° 2	11° 2	n.a.	F 9
S 10	10 55 58	15°58'33	12♐50	25°17	8° 1	9°20	8° 8	2° 7	18°44	9°20	6°10	21°R29	22°59	11° 8	n.a.	S 10
S 11	10 59 55	16°57'20	26°58	27°19	7°27	10° 7	8° 1	2°15	18°46	9°21	6°12	21°29	22°56	11°15	n.a.	S 11
M12	11 3 52	17°56'06	11♑18	29°19	6°54	10°53	7°53	2°22	18°48	9°21	6°13	21°27	22°52	11°22	n.a.	M12
T 13	11 7 48	18°54'51	25°45	1♈17	6°23	11°40	7°46	2°30	18°51	9°21	6°15	21°24	22°49	11°29	n.a.	T 13
W14	11 11 45	19°53'33	10♒17	3°13	5°53	12°26	7°38	2°37	18°53	9°21	6°16	21°19	22°46	11°35	n.a.	W14
T 15	11 15 41	20°52'13	24°48	5° 6	5°26	13°13	7°31	2°44	18°55	9°R21	6°17	21°15	22°43	11°42	n.a.	T 15
F 16	11 19 38	21°50'52	9♓10	6°56	5° 1	13°59	7°24	2°52	18°57	9°21	6°19	21°11	22°40	11°49	n.a.	F 16
S 17	11 23 34	22°49'28	23°19	8°44	4°38	14°45	7°16	2°59	18°59	9°21	6°20	21° 7	22°36	11°55	n.a.	S 17
S 18	11 27 31	23°48'02	7♈10	10°27	4°17	15°32	7° 9	3° 6	19° 2	9°21	6°22	21° 5	22°33	12° 2	n.a.	S 18
M19	11 31 27	24°46'35	20°40	12° 7	3°58	16°18	7° 2	3°13	19° 4	9°21	6°23	21°D 4	22°30	12° 9	n.a.	M19
T 20	11 35 24	25°45'05	3♉48	13°43	3°42	17° 4	6°55	3°21	19° 6	9°21	6°25	21° 5	22°27	12°16	n.a.	T 20
W21	11 39 20	26°43'33	16°34	15°15	3°28	17°51	6°48	3°28	19° 9	9°20	6°26	21° 6	22°24	12°22	n.a.	W21
T 22	11 43 17	27°41'59	29° 2	16°42	3°17	18°37	6°41	3°35	19°11	9°20	6°27	21° 8	22°21	12°29	n.a.	T 22
F 23	11 47 14	28°40'23	11♊14	18° 5	3° 8	19°23	6°34	3°42	19°14	9°20	6°29	21° 9	22°17	12°36	n.a.	F 23
S 24	11 51 10	29°38'44	23°15	19°23	3° 2	20°10	6°28	3°49	19°16	9°20	6°30	21°10	22°14	12°42	n.a.	S 24
S 25	11 55 7	0♈37'04	5♋ 9	20°36	2°58	20°56	6°21	3°56	19°19	9°19	6°32	21°R10	22°11	12°49	n.a.	S 25
M26	11 59 3	1°35'21	17° 2	21°44	2°D56	21°42	6°15	4° 3	19°22	9°19	6°33	21°10	22° 8	12°56	n.a.	M26
T 27	12 3 0	2°33'36	28°58	22°48	2°57	22°28	6° 9	4°10	19°24	9°19	6°34	21° 8	22° 5	13° 3	n.a.	T 27
W28	12 6 56	3°31'49	11♌ 0	23°46	3° 0	23°14	6° 2	4°17	19°27	9°18	6°36	21° 6	22° 2	13° 9	n.a.	W28
T 29	12 10 53	4°30'00	23°14	24°39	3° 5	24° 0	5°56	4°24	19°30	9°18	6°37	21° 3	21°58	13°16	n.a.	T 29
F 30	12 14 49	5°28'09	5♍40	25°27	3°13	24°46	5°50	4°31	19°32	9°17	6°38	21° 1	21°55	13°23	n.a.	F 30
S 31	12 18 46	6♈26'16	18♍22	26♈ 9	3♓22	25♒32	5♍44	4♓38	19♉35	9♐17	6♓40	20♈59	21♈52	13♋30	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	9s 0	21n 1	4n43	10s21	1s19	1n15	8n25	20s58	1s 8	9n46	1n43	13s 2	1s55	17n22	0s 9	20s50	1n17	24s29	16s18	8n36	9n13	28n19			n.a.
F 2	8 37	16 27	4 10	9 28	1 11	1 1	8 25	20 47	1 8	9 49	1 43	12 59	1 55	17 23	0 9	20 50	1 17	24 28	16 18	8 33	9 12	28 19			n.a.
S 3	8 15	11 9	3 26	8 33	1 3	0 45	8 24	20 37	1 9	9 52	1 43	12 56	1 55	17 23	0 9	20 50	1 17	24 28	16 18	8 30	9 10	28 18			n.a.
S 4	7 52	5 18	2 30	7 37	0 54	0 29	8 22	20 26	1 9	9 55	1 43	12 54	1 55	17 24	0 9	20 50	1 17	24 27	16 18	8 28	9 9	28 18			n.a.
M 5	7 30	0s51	1 26	6 41	0 45	0 12	8 19	20 15	1 9	9 58	1 43	12 51	1 55	17 24	0 9	20 50	1 17	24 27	16 18	8 27	9 8	28 18			n.a.
T 6	7 7	7 4	0 16	5 43	0 35	0s 6	8 15	20 4	1 10	10 1	1 43	12 49	1 55	17 25	0 9	20 50	1 17	24 26	16 18	8 27	9 7	28 17			n.a.
W 7	6 44	13 5	0s56	4 45	0 25	0 25	8 10	19 52	1 10	10 4	1 43	12 46	1 55	17 25	0 9	20 50	1 17	24 26	16 18	8 27	9 6	28 17			n.a.
T 8	6 22	18 35	2 6	3 46	0 15	0 44	8 4	19 40	1 11	10 7	1 43	12 43	1 55	17 26	0 9	20 50	1 17	24 25	16 19	8 27	9 4	28 16			n.a.
F 9	5 59	23 14	3 10	2 46	0 4	1 4	7 58	19 28	1 11	10 9	1 43	12 41	1 56	17 26	0 9	20 50	1 17	24 24	16 19	8 28	9 3	28 16			n.a.
S 10	5 36	26 38	4 4	1 47	0n 7	1 24	7 50	19 16	1 11	10 12	1 43	12 38	1 56	17 27	0 9	20 50	1 17	24 24	16 19	8 28	9 2	28 16			n.a.
S 11	5 13	28 24	4 44	0 48	0 19	1 44	7 42	19 4	1 12	10 15	1 43	12 35	1 56	17 28	0 9	20 50	1 17	24 23	16 19	8 28	9 1	28 15			n.a.
M12	4 49	28 19	5 7	0n11	0 30	2 4	7 33	18 52	1 12	10 18	1 43	12 33	1 56	17 28	0 9	20 50	1 17	24 23	16 19	8 27	9 0	28 15			n.a.
T 13	4 26	26 19	5 11	1 9	0 42	2 24	7 24	18 39	1 13	10 21	1 43	12 30	1 56	17 29	0 9	20 50	1 17	24 22	16 19	8 26	8 58	28 14			n.a.
W14	4 3	22 35	4 55	2 6	0 53	2 45	7 14	18 26	1 13	10 24	1 43	12 28	1 56	17 29	0 9	20 50	1 17	24 22	16 19	8 25	8 57	28 14			n.a.
T 15	3 40	17 29	4 20	3 2	1 5	3 4	7 3	18 13	1 13	10 26	1 43	12 25	1 56	17 30	0 9	20 50	1 17	24 22	16 19	8 23	8 56	28 13			n.a.
F 16	3 16	11 27	3 29	3 57	1 16	3 24	6 52	18 0	1 14	10 29	1 43	12 22	1 56	17 31	0 9	20 50	1 18	24 21	16 19	8 21	8 55	28 13			n.a.
S 17	2 53	4 55	2 26	4 50	1 27	3 43	6 40	17 46	1 14	10 32	1 43	12 20	1 56	17 31	0 9	20 50	1 18	24 21	16 19	8 20	8 54	28 13			n.a.
S 18	2 29	1n44	1 15	5 41	1 38	4 2	6 28	17 33	1 14	10 34	1 43	12 17	1 56	17 32	0 9	20 50	1 18	24 20	16 19	8 19	8 52	28 12			n.a.
M19	2 6	8 8	0 2	6 30	1 48	4 20	6 16	17 19	1 15	10 37	1 43	12 15	1 56	17 33	0 9	20 50	1 18	24 20	16 19	8 19	8 51	28 12			n.a.
T 20	1 42	14 1	1n 9	7 17	1 58	4 37	6 4	17 5	1 15	10 40	1 43	12 12	1 57	17 33	0 9	20 50	1 18	24 19	16 20	8 19	8 50	28 11			n.a.
W21	1 19	19 9	2 15	8 1	2 7	4 54	5 51	16 51	1 15	10 42	1 43	12 10	1 57	17 34	0 9	20 50	1 18	24 19	16 20	8 20	8 49	28 11			n.a.
T 22	0 56	23 19	3 14	8 43	2 16	5 10	5 38	16 37	1 16	10 45	1 42	12 7	1 57	17 35	0 9	20 50	1 18	24 18	16 20	8 20	8 48	28 10			n.a.
F 23	0 32	26 22	4 2	9 23	2 24	5 25	5 25	16 23	1 16	10 47	1 42	12 5	1 57	17 35	0 9	20 50	1 18	24 18	16 20	8 21	8 47	28 10			n.a.
S 24	0 9	28 10	4 38	10 0	2 31	5 40	5 12	16 8	1 16	10 49	1 42	12 2	1 57	17 36	0 9	20 49	1 18	24 18	16 20	8 21	8 45	28 9			n.a.
S 25	0n15	28 39	5 3	10 34	2 38	5 53	4 59	15 53	1 16	10 52	1 42	12 0	1 57	17 37	0 9	20 49	1 18	24 17	16 20	8 21	8 44	28 9			n.a.
M26	0 38	27 48	5 14	11 5	2 43	6 6	4 46	15 39	1 17	10 54	1 42	11 57	1 57	17 38	0 9	20 49	1 18	24 17	16 20	8 21	8 43	28 8			n.a.
T 27	1 2	25 41	5 12	11 34	2 48	6 18	4 33	15 24	1 17	10 56	1 42	11 55	1 57	17 38	0 9	20 49	1 18	24 16	16 21	8 20	8 42	28 7			n.a.
W28	1 25	22 24	4 56	11 59	2 52	6 29	4 20	15 9	1 17	10 58	1 42	11 52	1 58	17 39	0 9	20 49	1 18	24 16	16 21	8 19	8 41	28 7			n.a.
T 29	1 49	18 7	4 27	12 22	2 55	6 39	4 7	14 53	1 18	11 1	1 42	11 50	1 58	17 40	0 9	20 49	1 18	24 16	16 21	8 18	8 39	28 6			n.a.
F 30	2 12	13 1	3 44	12 41	2 57	6 48	3 55	14 38	1 18	11 3	1 41	11 48	1 58	17 41	0 9	20 49	1 18	24 15	16 21	8 18	8 38	28 6			n.a.
S 31	2n35	7n16	2n50	12n57	2n57	6s56	3n42	14s23	1s18	11n 5	1n41	11s45	1s58	17n41	0s 9	20s49	1n18	24s15	16s21	8n17	8n37	28n 5			n.a.

Julian Day Number = 1664868.5, Delta T = 03h23m44s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'18, Lahiri = - 6°05'17 Julian Calendar 1 March 155 BCE == Greg. Calendar 26 Feb. 155 BCE

The year -154 astronomical counting style corresponds to year 155 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 155 BCE
geocentric

APRIL 155 BCE (-154) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 22 43	7♈24'20	1♎19	26♈46	3♓34	26♒18	5°R39	4♓44	19♉38	9°R16	6♓41	20°R57	21♈49	13♋36	n.a.	S 1
M 2	12 26 39	8°22'24	14°33	27°18	3°48	27° 4	5♍33	4°51	19°41	9♐16	6°42	20°D57	21°46	13°43	n.a.	M 2
T 3	12 30 36	9°20'25	28° 1	27°44	4° 4	27°50	5°28	4°58	19°44	9°15	6°44	20♈57	21°42	13°50	n.a.	T 3
W 4	12 34 32	10°18'25	11♏43	28° 5	4°22	28°36	5°23	5° 5	19°47	9°15	6°45	20°57	21°39	13°56	n.a.	W 4
T 5	12 38 29	11°16'23	25°36	28°20	4°41	29°22	5°17	5°11	19°50	9°14	6°46	20°58	21°36	14° 3	n.a.	T 5
F 6	12 42 25	12°14'20	9♐39	28°30	5° 3	0♓ 8	5°12	5°18	19°52	9°13	6°47	20°59	21°33	14°10	n.a.	F 6
S 7	12 46 22	13°12'15	23°47	28°R35	5°26	0°54	5° 8	5°24	19°55	9°13	6°49	20°59	21°30	14°17	n.a.	S 7
S 8	12 50 18	14°10'09	8♑ 0	28°34	5°51	1°39	5° 3	5°31	19°58	9°12	6°50	21°R 0	21°27	14°23	n.a.	S 8
M 9	12 54 15	15° 8'02	22°14	28°29	6°18	2°25	4°58	5°37	20° 2	9°11	6°51	21° 0	21°23	14°30	n.a.	M 9
T 10	12 58 12	16° 5'54	6♒27	28°19	6°46	3°11	4°54	5°44	20° 5	9°10	6°52	21° 0	21°20	14°37	n.a.	T 10
W11	13 2 8	17° 3'44	20°37	28° 4	7°16	3°56	4°50	5°50	20° 8	9°10	6°54	20°59	21°17	14°44	n.a.	W11
T 12	13 6 5	18° 1'33	4♓40	27°46	7°47	4°42	4°46	5°56	20°11	9° 9	6°55	20°59	21°14	14°50	n.a.	T 12
F 13	13 10 1	18°59'20	18°34	27°23	8°20	5°28	4°42	6° 2	20°14	9° 8	6°56	20°59	21°11	14°57	n.a.	F 13
S 14	13 13 58	19°57'06	2♈16	26°57	8°54	6°13	4°38	6° 9	20°17	9° 7	6°57	20°58	21° 8	15° 4	n.a.	S 14
S 15	13 17 54	20°54'51	15°44	26°28	9°29	6°59	4°34	6°15	20°20	9° 6	6°58	20°58	21° 4	15°10	n.a.	S 15
M16	13 21 51	21°52'34	28°56	25°57	10° 5	7°44	4°31	6°21	20°23	9° 5	6°59	20°58	21° 1	15°17	n.a.	M16
T 17	13 25 47	22°50'15	11♉52	25°24	10°43	8°29	4°28	6°27	20°27	9° 4	7° 0	20°58	20°58	15°24	n.a.	T 17
W18	13 29 44	23°47'56	24°31	24°50	11°21	9°15	4°25	6°33	20°30	9° 3	7° 1	20°58	20°55	15°31	n.a.	W18
T 19	13 33 41	24°45'35	6♊56	24°15	12° 1	10° 0	4°22	6°39	20°33	9° 2	7° 3	20°58	20°52	15°37	n.a.	T 19
F 20	13 37 37	25°43'12	19° 7	23°40	12°42	10°45	4°19	6°45	20°36	9° 1	7° 4	20°57	20°48	15°44	n.a.	F 20
S 21	13 41 34	26°40'48	1♋ 8	23° 5	13°24	11°30	4°17	6°50	20°40	9° 0	7° 5	20°56	20°45	15°51	n.a.	S 21
S 22	13 45 30	27°38'22	13° 3	22°32	14° 7	12°16	4°14	6°56	20°43	8°59	7° 6	20°56	20°42	15°57	n.a.	S 22
M23	13 49 27	28°35'54	24°57	22° 1	14°51	13° 1	4°12	7° 2	20°46	8°58	7° 7	20°D56	20°39	16° 4	n.a.	M23
T 24	13 53 23	29°33'26	6♌52	21°31	15°35	13°46	4°10	7° 7	20°50	8°57	7° 8	20°56	20°36	16°11	n.a.	T 24
W25	13 57 20	0♉30'55	18°55	21° 5	16°21	14°31	4° 8	7°13	20°53	8°55	7° 9	20°56	20°33	16°18	n.a.	W25
T 26	14 1 16	1°28'23	1♍10	20°41	17° 7	15°16	4° 7	7°18	20°57	8°54	7°10	20°57	20°29	16°24	n.a.	T 26
F 27	14 5 13	2°25'50	13°40	20°21	17°54	16° 1	4° 5	7°24	21° 0	8°53	7°11	20°58	20°26	16°31	n.a.	F 27
S 28	14 9 10	3°23'15	26°28	20° 5	18°42	16°45	4° 4	7°29	21° 3	8°52	7°11	20°59	20°23	16°38	n.a.	S 28
S 29	14 13 6	4°20'39	9♎37	19°53	19°31	17°30	4° 3	7°34	21° 7	8°51	7°12	21° 0	20°20	16°45	n.a.	S 29
M30	14 17 3	5♉18'02	23♎ 8	19♈45	20♓20	18♓15	4♍ 2	7♓39	21♉10	8♐49	7♓13	21°R 0	20♈17	16♋51	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	2n58	1n 5	1n46	13n11	2n57	7s 4	3n30	14s 7	1s18	11n 7	1n41	11s43	1s58	17n42	0s 9	20s49	1n18	24s15	16s21	8n16	8n36	28n 5		n.a.
M 2	3 21	5s15	0 35	13 21	2 56	7 10	3 17	13 51	1 18	11 9	1 41	11 40	1 58	17 43	0 9	20 49	1 18	24 14	16 22	8 16	8 35	28 4		n.a.
T 3	3 45	11 30	0s39	13 28	2 53	7 15	3 5	13 36	1 19	11 10	1 41	11 38	1 58	17 44	0 9	20 48	1 18	24 14	16 22	8 16	8 33	28 3		n.a.
W 4	4 8	17 18	1 52	13 32	2 49	7 20	2 53	13 20	1 19	11 12	1 41	11 36	1 59	17 44	0 9	20 48	1 18	24 14	16 22	8 16	8 32	28 3		n.a.
T 5	4 31	22 18	3 0	13 33	2 44	7 24	2 42	13 4	1 19	11 14	1 40	11 33	1 59	17 45	0 9	20 48	1 18	24 13	16 22	8 17	8 31	28 2		n.a.
F 6	4 53	26 4	3 58	13 31	2 38	7 26	2 30	12 47	1 19	11 16	1 40	11 31	1 59	17 46	0 9	20 48	1 18	24 13	16 22	8 17	8 30	28 2		n.a.
S 7	5 16	28 15	4 42	13 26	2 31	7 28	2 19	12 31	1 19	11 17	1 40	11 29	1 59	17 47	0 9	20 48	1 18	24 13	16 23	8 17	8 29	28 1		n.a.
S 8	5 39	28 36	5 8	13 18	2 22	7 29	2 8	12 15	1 20	11 19	1 40	11 26	1 59	17 48	0 9	20 48	1 18	24 12	16 23	8 17	8 27	28 0		n.a.
M 9	6 2	27 3	5 16	13 7	2 12	7 29	1 57	11 58	1 20	11 20	1 40	11 24	1 59	17 49	0 9	20 48	1 18	24 12	16 23	8 17	8 26	28 0		n.a.
T 10	6 24	23 47	5 5	12 53	2 1	7 29	1 47	11 42	1 20	11 22	1 39	11 22	2 0	17 49	0 9	20 48	1 18	24 12	16 23	8 17	8 25	27 59		n.a.
W11	6 47	19 8	4 35	12 37	1 49	7 27	1 36	11 25	1 20	11 23	1 39	11 20	2 0	17 50	0 9	20 47	1 18	24 12	16 24	8 17	8 24	27 58		n.a.
T 12	7 9	13 27	3 49	12 18	1 36	7 25	1 26	11 8	1 20	11 25	1 39	11 18	2 0	17 51	0 9	20 47	1 18	24 11	16 24	8 17	8 23	27 58		n.a.
F 13	7 31	7 11	2 50	11 56	1 22	7 22	1 16	10 52	1 20	11 26	1 39	11 15	2 0	17 52	0 9	20 47	1 18	24 11	16 24	8 17	8 21	27 57		n.a.
S 14	7 53	0 39	1 42	11 33	1 7	7 18	1 7	10 35	1 21	11 27	1 39	11 13	2 0	17 53	0 9	20 47	1 18	24 11	16 24	8 17	8 20	27 56		n.a.
S 15	8 15	5n49	0 29	11 8	0 52	7 13	0 58	10 18	1 21	11 28	1 38	11 11	2 0	17 54	0 9	20 47	1 18	24 11	16 25	8 17	8 19	27 56		n.a.
M16	8 37	11 54	0n44	10 41	0 36	7 8	0 48	10 1	1 21	11 29	1 38	11 9	2 1	17 55	0 9	20 47	1 18	24 11	16 25	8 17	8 18	27 55		n.a.
T 17	8 59	17 22	1 53	10 14	0 19	7 2	0 39	9 44	1 21	11 30	1 38	11 7	2 1	17 56	0 9	20 46	1 18	24 10	16 25	8 17	8 16	27 54		n.a.
W18	9 20	21 57	2 55	9 45	0 2	6 55	0 31	9 27	1 21	11 31	1 38	11 5	2 1	17 56	0 9	20 46	1 18	24 10	16 25	8 16	8 15	27 53		n.a.
T 19	9 42	25 28	3 48	9 16	0s15	6 47	0 22	9 9	1 21	11 32	1 38	11 3	2 1	17 57	0 9	20 46	1 18	24 10	16 26	8 16	8 14	27 53		n.a.
F 20	10 3	27 44	4 29	8 47	0 33	6 39	0 14	8 52	1 21	11 33	1 37	11 1	2 1	17 58	0 9	20 46	1 19	24 10	16 26	8 16	8 13	27 52		n.a.
S 21	10 24	28 40	4 58	8 18	0 50	6 30	0 6	8 35	1 21	11 33	1 37	10 59	2 2	17 59	0 9	20 46	1 19	24 10	16 26	8 16	8 12	27 51		n.a.
S 22	10 45	28 16	5 13	7 51	1 6	6 21	0s 2	8 17	1 21	11 34	1 37	10 57	2 2	18 0	0 9	20 46	1 19	24 10	16 26	8 16	8 10	27 50		n.a.
M23	11 6	26 33	5 16	7 24	1 23	6 11	0 9	8 0	1 21	11 35	1 37	10 55	2 2	18 1	0 9	20 45	1 19	24 9	16 27	8 16	8 9	27 50		n.a.
T 24	11 27	23 40	5 4	6 58	1 38	6 0	0 16	7 42	1 21	11 35	1 36	10 53	2 2	18 2	0 9	20 45	1 19	24 9	16 27	8 16	8 8	27 49		n.a.
W25	11 47	19 45	4 40	6 34	1 53	5 49	0 24	7 25	1 21	11 36	1 36	10 51	2 2	18 3	0 9	20 45	1 19	24 9	16 27	8 16	8 7	27 48		n.a.
T 26	12 7	14 57	4 2	6 12	2 7	5 37	0 30	7 7	1 21	11 36	1 36	10 49	2 3	18 4	0 9	20 45	1 19	24 9	16 28	8 16	8 6	27 47		n.a.
F 27	12 27	9 27	3 12	5 52	2 21	5 24	0 37	6 50	1 21	11 36	1 36	10 47	2 3	18 5	0 9	20 45	1 19	24 9	16 28	8 17	8 4	27 46		n.a.
S 28	12 47	3 26	2 11	5 35	2 33	5 11	0 44	6 32	1 21	11 36	1 35	10 46	2 3	18 5	0 9	20 44	1 19	24 9	16 28	8 17	8 3	27 46		n.a.
S 29	13 7	2s54	1 2	5 20	2 44	4 58	0 50	6 14	1 21	11 37	1 35	10 44	2 3	18 6	0 9	20 44	1 19	24 9	16 29	8 17	8 2	27 45		n.a.
M30	13n26	9s16	0s12	5n 7	2s55	4s44	0s56	5s57	1s21	11n37	1n35	10s42	2s 3	18n 7	0s 9	20s44	1n19	24s 9	16s29	8n17	8n 1	27n44		n.a.

Julian Day Number = 1664899.5, Delta T = 03h23m43s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'13, Lahiri = - 6°05'13 Julian Calendar 1 Apr. 155 BCE == Greg. Calendar 29 March 155 BCE

The year -154 astronomical counting style corresponds to year 155 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 155 BCE
geocentric

MAY 155 BCE (-154) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 20 59	6♉15'24	6♏58	19°D41	21♓10	19♓ 0	4°R 1	7♓45	21♉14	8°R48	7♓14	21°R 0	20♈13	16♋58	n.a.	T 1
W 2	14 24 56	7°12'45	21° 7	19♈42	22° 1	19°44	4♍ 1	7°50	21°17	8♐47	7°15	20♈58	20°10	17° 5	n.a.	W 2
T 3	14 28 52	8°10'05	5♐28	19°47	22°52	20°29	4° 0	7°55	21°21	8°45	7°16	20°56	20° 7	17°11	n.a.	T 3
F 4	14 32 49	9° 7'24	19°57	19°57	23°44	21°13	4° 0	8° 0	21°24	8°44	7°17	20°54	20° 4	17°18	n.a.	F 4
S 5	14 36 45	10° 4'42	4♑28	20°12	24°37	21°58	4°D 0	8° 4	21°28	8°43	7°17	20°52	20° 1	17°25	n.a.	S 5
S 6	14 40 42	11° 2'00	18°56	20°30	25°30	22°42	4° 0	8° 9	21°31	8°41	7°18	20°50	19°58	17°32	n.a.	S 6
M 7	14 44 39	11°59'18	3♒16	20°54	26°24	23°27	4° 1	8°14	21°35	8°40	7°19	20°49	19°54	17°38	n.a.	M 7
T 8	14 48 35	12°56'34	17°26	21°21	27°18	24°11	4° 1	8°18	21°38	8°39	7°20	20°D49	19°51	17°45	n.a.	T 8
W 9	14 52 32	13°53'50	1♓22	21°53	28°13	24°55	4° 2	8°23	21°42	8°37	7°20	20°50	19°48	17°52	n.a.	W 9
T 10	14 56 28	14°51'06	15° 6	22°29	29° 8	25°39	4° 3	8°27	21°45	8°36	7°21	20°51	19°45	17°59	n.a.	T 10
F 11	15 0 25	15°48'21	28°36	23° 9	0♈ 4	26°23	4° 4	8°32	21°49	8°34	7°22	20°52	19°42	18° 5	n.a.	F 11
S 12	15 4 21	16°45'36	11♈53	23°53	1° 0	27° 7	4° 5	8°36	21°52	8°33	7°23	20°53	19°39	18°12	n.a.	S 12
S 13	15 8 18	17°42'50	24°57	24°41	1°57	27°51	4° 7	8°40	21°56	8°31	7°23	20°R54	19°35	18°19	n.a.	S 13
M14	15 12 14	18°40'04	7♉48	25°33	2°54	28°35	4° 8	8°45	21°59	8°30	7°24	20°53	19°32	18°25	n.a.	M14
T 15	15 16 11	19°37'17	20°27	26°29	3°52	29°19	4°10	8°49	22° 3	8°28	7°24	20°50	19°29	18°32	n.a.	T 15
W16	15 20 8	20°34'29	2♊54	27°28	4°49	0♈ 3	4°12	8°53	22° 6	8°27	7°25	20°46	19°26	18°39	n.a.	W16
T 17	15 24 4	21°31'41	15°10	28°31	5°48	0°47	4°14	8°56	22°10	8°25	7°26	20°41	19°23	18°46	n.a.	T 17
F 18	15 28 1	22°28'53	27°16	29°37	6°46	1°30	4°16	9° 0	22°13	8°24	7°26	20°36	19°19	18°52	n.a.	F 18
S 19	15 31 57	23°26'03	9♋15	0♉47	7°45	2°14	4°19	9° 4	22°17	8°22	7°27	20°31	19°16	18°59	n.a.	S 19
S 20	15 35 54	24°23'14	21° 9	2° 1	8°45	2°58	4°21	9° 8	22°21	8°21	7°27	20°26	19°13	19° 6	n.a.	S 20
M21	15 39 50	25°20'23	3♌ 1	3°17	9°45	3°41	4°24	9°11	22°24	8°19	7°28	20°22	19°10	19°12	n.a.	M21
T 22	15 43 47	26°17'32	14°55	4°37	10°45	4°24	4°27	9°15	22°28	8°18	7°28	20°20	19° 7	19°19	n.a.	T 22
W23	15 47 44	27°14'40	26°56	6° 1	11°45	5° 8	4°30	9°18	22°31	8°16	7°28	20°D19	19° 4	19°26	n.a.	W23
T 24	15 51 40	28°11'48	9♍ 8	7°28	12°46	5°51	4°34	9°21	22°35	8°14	7°29	20°20	19° 0	19°33	n.a.	T 24
F 25	15 55 37	29° 8'55	21°37	8°58	13°47	6°34	4°37	9°25	22°38	8°13	7°29	20°21	18°57	19°39	n.a.	F 25
S 26	15 59 33	0♊ 6'01	4♎26	10°31	14°48	7°17	4°41	9°28	22°42	8°11	7°30	20°23	18°54	19°46	n.a.	S 26
S 27	16 3 30	1° 3'07	17°39	12° 7	15°49	8° 0	4°45	9°31	22°45	8°10	7°30	20°R23	18°51	19°53	n.a.	S 27
M28	16 7 26	2° 0'13	1♏18	13°47	16°51	8°43	4°49	9°34	22°49	8° 8	7°30	20°23	18°48	20° 0	n.a.	M28
T 29	16 11 23	2°57'18	15°22	15°29	17°53	9°26	4°53	9°36	22°52	8° 6	7°31	20°21	18°45	20° 6	n.a.	T 29
W30	16 15 19	3°54'24	29°50	17°15	18°56	10° 9	4°57	9°39	22°56	8° 5	7°31	20°17	18°41	20°13	n.a.	W30
T 31	16 19 16	4♊51'29	14♐35	19♉ 3	19♈58	10♈52	5♍ 1	9♓42	22♉59	8♐ 3	7♓31	20♈11	18♈38	20♋20	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	13n46	15s22	1s27	4n57	3s 4	4s29	1s 2	5s39	1s21	11n37	1n35	10s40	2s 4	18n 8	0s 9	20s44	1n19	24s 9	16s29	8n17	8n 0	27n43			n.a.
W 2	14 5	20 47	2 39	4 50	3 12	4 14	1 7	5 21	1 21	11 37	1 34	10 39	2 4	18 9	0 9	20 43	1 19	24 9	16 29	8 17	7 58	27 42			n.a.
T 3	14 23	25 5	3 41	4 46	3 19	3 58	1 13	5 3	1 21	11 37	1 34	10 37	2 4	18 10	0 9	20 43	1 19	24 9	16 30	8 16	7 57	27 41			n.a.
F 4	14 42	27 49	4 30	4 44	3 25	3 42	1 18	4 46	1 21	11 36	1 34	10 35	2 4	18 11	0 9	20 43	1 19	24 9	16 30	8 15	7 56	27 41			n.a.
S 5	15 0	28 40	5 2	4 45	3 30	3 26	1 23	4 28	1 21	11 36	1 34	10 34	2 5	18 12	0 9	20 43	1 19	24 9	16 30	8 14	7 55	27 40			n.a.
S 6	15 19	27 33	5 14	4 48	3 33	3 9	1 28	4 10	1 21	11 36	1 33	10 32	2 5	18 13	0 9	20 43	1 19	24 9	16 31	8 13	7 53	27 39			n.a.
M 7	15 37	24 37	5 7	4 55	3 36	2 52	1 33	3 52	1 21	11 36	1 33	10 30	2 5	18 14	0 9	20 42	1 19	24 9	16 31	8 13	7 52	27 38			n.a.
T 8	15 54	20 15	4 41	5 3	3 38	2 34	1 37	3 34	1 21	11 35	1 33	10 29	2 5	18 15	0 9	20 42	1 19	24 9	16 31	8 13	7 51	27 37			n.a.
W 9	16 12	14 50	3 59	5 15	3 39	2 16	1 41	3 17	1 21	11 35	1 33	10 27	2 5	18 16	0 9	20 42	1 19	24 9	16 32	8 13	7 50	27 36			n.a.
T 10	16 29	8 45	3 4	5 28	3 39	1 57	1 46	2 59	1 21	11 34	1 32	10 26	2 6	18 17	0 9	20 42	1 19	24 9	16 32	8 14	7 49	27 35			n.a.
F 11	16 46	2 23	1 59	5 44	3 38	1 39	1 49	2 41	1 21	11 33	1 32	10 24	2 6	18 18	0 8	20 41	1 19	24 9	16 32	8 14	7 47	27 34			n.a.
S 12	17 2	4n 0	0 49	6 2	3 36	1 19	1 53	2 23	1 21	11 33	1 32	10 23	2 6	18 18	0 8	20 41	1 19	24 9	16 33	8 15	7 46	27 33			n.a.
S 13	17 19	10 7	0n22	6 22	3 33	1 0	1 57	2 5	1 20	11 32	1 31	10 22	2 6	18 19	0 8	20 41	1 19	24 9	16 33	8 15	7 45	27 32			n.a.
M14	17 35	15 42	1 31	6 44	3 30	0 40	2 0	1 48	1 20	11 31	1 31	10 20	2 7	18 20	0 8	20 41	1 19	24 9	16 33	8 14	7 44	27 32			n.a.
T 15	17 51	20 33	2 35	7 9	3 25	0 20	2 4	1 30	1 20	11 30	1 31	10 19	2 7	18 21	0 8	20 40	1 19	24 9	16 34	8 13	7 43	27 31			n.a.
W16	18 6	24 24	3 29	7 35	3 20	0n 0	2 7	1 12	1 20	11 29	1 31	10 18	2 7	18 22	0 8	20 40	1 19	24 9	16 34	8 12	7 41	27 30			n.a.
T 17	18 21	27 5	4 14	8 2	3 15	0 21	2 10	0 54	1 20	11 28	1 30	10 16	2 7	18 23	0 8	20 40	1 19	24 9	16 35	8 10	7 40	27 29			n.a.
F 18	18 36	28 27	4 46	8 32	3 8	0 42	2 12	0 37	1 20	11 27	1 30	10 15	2 8	18 24	0 8	20 40	1 19	24 9	16 35	8 8	7 39	27 28			n.a.
S 19	18 51	28 28	5 5	9 3	3 1	1 3	2 15	0 19	1 20	11 26	1 30	10 14	2 8	18 25	0 8	20 39	1 19	24 9	16 35	8 6	7 38	27 27			n.a.
S 20	19 5	27 9	5 11	9 36	2 54	1 24	2 17	0 1	1 19	11 25	1 30	10 13	2 8	18 26	0 8	20 39	1 19	24 10	16 36	8 4	7 36	27 26			n.a.
M21	19 19	24 38	5 4	10 10	2 46	1 46	2 20	0n16	1 19	11 23	1 29	10 12	2 8	18 27	0 8	20 39	1 19	24 10	16 36	8 3	7 35	27 25			n.a.
T 22	19 33	21 3	4 43	10 45	2 37	2 8	2 22	0 34	1 19	11 22	1 29	10 11	2 9	18 28	0 8	20 39	1 19	24 10	16 36	8 2	7 34	27 24			n.a.
W23	19 46	16 35	4 10	11 21	2 28	2 30	2 24	0 51	1 19	11 21	1 29	10 10	2 9	18 29	0 8	20 38	1 19	24 10	16 37	8 2	7 33	27 23			n.a.
T 24	19 59	11 24	3 25	11 59	2 18	2 52	2 26	1 9	1 19	11 19	1 29	10 9	2 9	18 30	0 8	20 38	1 19	24 10	16 37	8 2	7 32	27 22			n.a.
F 25	20 12	5 39	2 30	12 37	2 8	3 14	2 28	1 26	1 18	11 18	1 28	10 8	2 10	18 31	0 8	20 38	1 19	24 10	16 37	8 2	7 30	27 21			n.a.
S 26	20 24	0s29	1 26	13 17	1 58	3 36	2 29	1 44	1 18	11 16	1 28	10 7	2 10	18 31	0 8	20 38	1 19	24 11	16 38	8 3	7 29	27 20			n.a.
S 27	20 36	6 47	0 15	13 57	1 47	3 59	2 31	2 1	1 18	11 15	1 28	10 6	2 10	18 32	0 8	20 37	1 19	24 11	16 38	8 3	7 28	27 19			n.a.
M28	20 48	12 59	0s59	14 38	1 36	4 22	2 32	2 19	1 18	11 13	1 28	10 5	2 10	18 33	0 8	20 37	1 19	24 11	16 39	8 3	7 27	27 18			n.a.
T 29	20 59	18 43	2 11	15 19	1 25	4 45	2 33	2 36	1 17	11 11	1 27	10 4	2 11	18 34	0 8	20 37	1 19	24 11	16 39	8 2	7 26	27 17			n.a.
W30	21 10	23 33	3 17	16 0	1 13	5 8	2 34	2 53	1 17	11 9	1 27	10 3	2 11	18 35	0 8	20 37	1 19	24 11	16 39	8 1	7 24	27 15			n.a.
T 31	21n21	26s58	4s11	16n42	1s 2	5n31	2s35	3n10	1s17	11n 7	1n27	10s 3	2s11	18n36	0s 8	20s36	1n19	24s12	16s40	7n59	7n23	27n14			n.a.

Julian Day Number = 1664929.5, Delta T = 03h23m42s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'09, Lahiri = - 6°05'09 Julian Calendar 1 May 155 BCE == Greg. Calendar 28 Apr. 155 BCE

The year -154 astronomical counting style corresponds to year 155 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 155 BCE
geocentric

JUNE 155 BCE (-154) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 23 13	5♊48'34	29♐30	20♉55	21♈ 1	11♈34	5♍ 6	9♓44	23♉ 3	8°R 2	7♓31	20°R 4	18♈35	20♋26	n.a.	F 1
S 2	16 27 9	6°45'40	14♑26	22°49	22° 4	12°17	5°11	9°47	23° 6	8♐ 0	7°32	19♈58	18°32	20°33	n.a.	S 2
S 3	16 31 6	7°42'45	29°15	24°45	23° 8	12°59	5°16	9°49	23°10	7°58	7°32	19°52	18°29	20°40	n.a.	S 3
M 4	16 35 2	8°39'51	13♒50	26°44	24°11	13°42	5°21	9°51	23°13	7°57	7°32	19°48	18°25	20°47	n.a.	M 4
T 5	16 38 59	9°36'58	28° 6	28°46	25°15	14°24	5°26	9°54	23°17	7°55	7°32	19°45	18°22	20°53	n.a.	T 5
W 6	16 42 55	10°34'04	12♓ 1	0♊49	26°19	15° 6	5°31	9°56	23°20	7°54	7°32	19°D45	18°19	21° 0	n.a.	W 6
T 7	16 46 52	11°31'11	25°35	2°54	27°23	15°49	5°37	9°58	23°24	7°52	7°32	19°45	18°16	21° 7	n.a.	T 7
F 8	16 50 48	12°28'19	8♈51	5° 0	28°28	16°31	5°43	9°59	23°27	7°50	7°32	19°46	18°13	21°14	n.a.	F 8
S 9	16 54 45	13°25'27	21°50	7° 8	29°32	17°13	5°48	10° 1	23°30	7°49	7°32	19°R47	18°10	21°20	n.a.	S 9
S 10	16 58 42	14°22'35	4♉34	9°16	0♉37	17°55	5°54	10° 3	23°34	7°47	7°32	19°46	18° 6	21°27	n.a.	S 10
M11	17 2 38	15°19'44	17° 7	11°25	1°42	18°37	6° 0	10° 4	23°37	7°45	7°R32	19°42	18° 3	21°34	n.a.	M11
T 12	17 6 35	16°16'54	29°30	13°34	2°47	19°18	6° 7	10° 6	23°41	7°44	7°32	19°37	18° 0	21°40	n.a.	T 12
W13	17 10 31	17°14'04	11♊43	15°43	3°53	20° 0	6°13	10° 7	23°44	7°42	7°32	19°28	17°57	21°47	n.a.	W13
T 14	17 14 28	18°11'14	23°50	17°52	4°58	20°42	6°20	10° 9	23°47	7°41	7°32	19°18	17°54	21°54	n.a.	T 14
F 15	17 18 24	19° 8'25	5♋50	20° 1	6° 4	21°23	6°26	10°10	23°51	7°39	7°32	19° 7	17°51	22° 1	n.a.	F 15
S 16	17 22 21	20° 5'36	17°44	22° 9	7°10	22° 5	6°33	10°11	23°54	7°38	7°32	18°56	17°47	22° 7	n.a.	S 16
S 17	17 26 18	21° 2'48	29°36	24°15	8°16	22°46	6°40	10°12	23°57	7°36	7°32	18°46	17°44	22°14	n.a.	S 17
M18	17 30 14	22° 0'00	11♌27	26°21	9°22	23°27	6°47	10°13	24° 0	7°34	7°32	18°37	17°41	22°21	n.a.	M18
T 19	17 34 11	22°57'12	23°20	28°26	10°29	24° 9	6°54	10°13	24° 4	7°33	7°32	18°31	17°38	22°28	n.a.	T 19
W20	17 38 7	23°54'25	5♍20	0♋29	11°35	24°50	7° 1	10°14	24° 7	7°31	7°32	18°27	17°35	22°34	n.a.	W20
T 21	17 42 4	24°51'38	17°30	2°30	12°42	25°31	7° 9	10°15	24°10	7°30	7°31	18°25	17°31	22°41	n.a.	T 21
F 22	17 46 0	25°48'51	29°55	4°30	13°49	26°11	7°16	10°15	24°13	7°28	7°31	18°D25	17°28	22°48	n.a.	F 22
S 23	17 49 57	26°46'05	12♎40	6°29	14°56	26°52	7°24	10°15	24°16	7°27	7°31	18°R26	17°25	22°54	n.a.	S 23
S 24	17 53 53	27°43'19	25°50	8°26	16° 3	27°33	7°32	10°16	24°19	7°25	7°31	18°26	17°22	23° 1	n.a.	S 24
M25	17 57 50	28°40'34	9♏27	10°21	17°10	28°13	7°40	10°16	24°22	7°24	7°30	18°24	17°19	23° 8	n.a.	M25
T 26	18 1 47	29°37'49	23°34	12°15	18°18	28°54	7°48	10°R16	24°25	7°22	7°30	18°20	17°16	23°15	n.a.	T 26
W27	18 5 43	0♋35'05	8♐ 9	14° 7	19°25	29°34	7°56	10°16	24°29	7°21	7°30	18°14	17°12	23°21	n.a.	W27
T 28	18 9 40	1°32'22	23° 6	15°57	20°33	0♉15	8° 4	10°16	24°32	7°19	7°29	18° 5	17° 9	23°28	n.a.	T 28
F 29	18 13 36	2°29'39	8♑18	17°45	21°41	0°55	8°13	10°15	24°35	7°18	7°29	17°55	17° 6	23°35	n.a.	F 29
S 30	18 17 33	3♋26'58	23♑34	19♋32	22♉49	1♉35	8♍21	10♓15	24♉37	7♐17	7♓29	17♈45	17♈ 3	23♋41	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n31	28s31	4s48	17n23	0s50	5n54	2s36	3n27	1s16	11n 5	1n27	10s 2	2s11	18n37	0s 8	20s36	1n19	24s12	16s40	7n56	7n22	27n13		n.a.
S 2	21 41	28 0	5 6	18 4	0 38	6 17	2 36	3 44	1 16	11 3	1 26	10 1	2 12	18 38	0 8	20 36	1 19	24 12	16 40	7 54	7 21	27 12		n.a.
S 3	21 51	25 29	5 3	18 45	0 27	6 40	2 37	4 1	1 16	11 1	1 26	10 1	2 12	18 39	0 8	20 36	1 19	24 12	16 41	7 51	7 19	27 11		n.a.
M 4	22 0	21 21	4 41	19 25	0 15	7 3	2 37	4 18	1 16	10 59	1 26	10 0	2 12	18 40	0 8	20 35	1 19	24 13	16 41	7 50	7 18	27 10		n.a.
T 5	22 9	16 3	4 2	20 3	0 4	7 26	2 37	4 35	1 15	10 57	1 26	9 59	2 13	18 40	0 8	20 35	1 19	24 13	16 42	7 49	7 17	27 9		n.a.
W 6	22 17	10 2	3 9	20 41	0n 7	7 50	2 37	4 52	1 15	10 55	1 25	9 59	2 13	18 41	0 8	20 35	1 19	24 13	16 42	7 49	7 16	27 8		n.a.
T 7	22 25	3 42	2 6	21 17	0 18	8 13	2 37	5 9	1 15	10 53	1 25	9 58	2 13	18 42	0 8	20 35	1 19	24 14	16 42	7 49	7 15	27 7		n.a.
F 8	22 33	2n39	0 58	21 51	0 29	8 36	2 37	5 25	1 14	10 50	1 25	9 58	2 13	18 43	0 8	20 34	1 19	24 14	16 43	7 49	7 13	27 5		n.a.
S 9	22 40	8 46	0n11	22 23	0 39	8 59	2 37	5 42	1 14	10 48	1 25	9 57	2 14	18 44	0 8	20 34	1 19	24 14	16 43	7 49	7 12	27 4		n.a.
S 10	22 47	14 25	1 19	22 53	0 48	9 23	2 37	5 59	1 13	10 45	1 24	9 57	2 14	18 45	0 8	20 34	1 19	24 15	16 43	7 49	7 11	27 3		n.a.
M11	22 54	19 23	2 21	23 21	0 57	9 46	2 36	6 15	1 13	10 43	1 24	9 57	2 14	18 46	0 8	20 34	1 19	24 15	16 44	7 48	7 10	27 2		n.a.
T 12	23 0	23 27	3 16	23 47	1 6	10 9	2 36	6 31	1 13	10 40	1 24	9 56	2 15	18 47	0 8	20 33	1 19	24 15	16 44	7 45	7 8	27 1		n.a.
W13	23 6	26 25	4 1	24 9	1 13	10 32	2 35	6 48	1 12	10 38	1 24	9 56	2 15	18 47	0 8	20 33	1 19	24 16	16 45	7 42	7 7	27 0		n.a.
T 14	23 11	28 8	4 34	24 29	1 20	10 54	2 34	7 4	1 12	10 35	1 24	9 56	2 15	18 48	0 8	20 33	1 19	24 16	16 45	7 39	7 6	26 58		n.a.
F 15	23 16	28 30	4 55	24 46	1 27	11 17	2 33	7 20	1 12	10 32	1 23	9 56	2 15	18 49	0 8	20 33	1 19	24 16	16 45	7 34	7 5	26 57		n.a.
S 16	23 20	27 32	5 3	25 1	1 32	11 40	2 33	7 36	1 11	10 30	1 23	9 56	2 16	18 50	0 8	20 32	1 19	24 17	16 46	7 30	7 4	26 56		n.a.
S 17	23 25	25 19	4 58	25 12	1 37	12 2	2 31	7 52	1 11	10 27	1 23	9 55	2 16	18 51	0 8	20 32	1 19	24 17	16 46	7 26	7 2	26 55		n.a.
M18	23 28	22 1	4 40	25 21	1 41	12 25	2 30	8 8	1 10	10 24	1 23	9 55	2 16	18 51	0 8	20 32	1 19	24 17	16 46	7 23	7 1	26 54		n.a.
T 19	23 32	17 49	4 9	25 27	1 44	12 47	2 29	8 23	1 10	10 21	1 22	9 55	2 17	18 52	0 8	20 32	1 19	24 18	16 47	7 20	7 0	26 52		n.a.
W20	23 34	12 53	3 28	25 30	1 47	13 9	2 28	8 39	1 9	10 18	1 22	9 55	2 17	18 53	0 8	20 32	1 19	24 18	16 47	7 19	6 59	26 51		n.a.
T 21	23 37	7 24	2 37	25 31	1 49	13 30	2 26	8 54	1 9	10 15	1 22	9 55	2 17	18 54	0 8	20 31	1 19	24 19	16 47	7 18	6 57	26 50		n.a.
F 22	23 39	1 31	1 37	25 29	1 51	13 52	2 25	9 10	1 8	10 12	1 22	9 56	2 17	18 55	0 8	20 31	1 19	24 19	16 48	7 18	6 56	26 49		n.a.
S 23	23 41	4s35	0 31	25 24	1 51	14 13	2 23	9 25	1 8	10 9	1 22	9 56	2 18	18 55	0 8	20 31	1 18	24 20	16 48	7 18	6 55	26 47		n.a.
S 24	23 42	10 42	0s39	25 18	1 51	14 35	2 21	9 40	1 7	10 6	1 21	9 56	2 18	18 56	0 8	20 31	1 18	24 20	16 49	7 18	6 54	26 46		n.a.
M25	23 43	16 32	1 49	25 9	1 51	14 55	2 20	9 55	1 7	10 3	1 21	9 56	2 18	18 57	0 8	20 30	1 18	24 20	16 49	7 18	6 52	26 45		n.a.
T 26	23 43	21 42	2 55	24 58	1 49	15 16	2 18	10 10	1 7	9 59	1 21	9 56	2 19	18 58	0 8	20 30	1 18	24 21	16 49	7 16	6 51	26 44		n.a.
W27	23 43	25 43	3 51	24 44	1 48	15 36	2 16	10 25	1 6	9 56	1 21	9 57	2 19	18 59	0 8	20 30	1 18	24 21	16 50	7 14	6 50	26 42		n.a.
T 28	23 42	28 5	4 33	24 30	1 45	15 57	2 14	10 40	1 5	9 53	1 21	9 57	2 19	18 59	0 8	20 30	1 18	24 22	16 50	7 10	6 49	26 41		n.a.
F 29	23 42	28 23	4 57	24 13	1 42	16 16	2 12	10 55	1 5	9 49	1 20	9 57	2 19	19 0	0 8	20 30	1 18	24 22	16 50	7 6	6 48	26 40		n.a.
S 30	23n40	26s33	5s 0	23n54	1n39	16n36	2s10	11n 9	1s 4	9n46	1n20	9s58	2s20	19n 1	0s 8	20s29	1n18	24s23	16s51	7n 3	6n46	26n38		n.a.

Julian Day Number = 1664960.5, Delta T = 03h23m41s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'05, Lahiri = - 6°05'05 Julian Calendar 1 June 155 BCE == Greg. Calendar 29 May 155 BCE

The year -154 astronomical counting style corresponds to year 155 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 155 BCE
geocentric

JULY 155 BCE (-154) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 21 29	4♋24'18	8♒42	21♋18	23♉57	2♉15	8♍30	10°R14	24♉40	7°R15	7°R28	17°R36	17♈ 0	23♋48	n.a.	S 1
M 2	18 25 26	5°21'38	23°33	23° 1	25° 5	2°55	8°39	10♓14	24°43	7♐14	7♓28	17♈29	16°57	23°55	n.a.	M 2
T 3	18 29 22	6°19'00	8♓ 1	24°43	26°13	3°35	8°48	10°13	24°46	7°12	7°27	17°24	16°53	24° 2	n.a.	T 3
W 4	18 33 19	7°16'23	22° 3	26°23	27°22	4°14	8°56	10°12	24°49	7°11	7°27	17°21	16°50	24° 8	n.a.	W 4
T 5	18 37 16	8°13'48	5♈38	28° 2	28°31	4°54	9° 6	10°11	24°52	7°10	7°26	17°D21	16°47	24°15	n.a.	T 5
F 6	18 41 12	9°11'14	18°50	29°38	29°39	5°34	9°15	10°10	24°55	7° 8	7°26	17°R21	16°44	24°22	n.a.	F 6
S 7	18 45 9	10° 8'41	1♉40	1♌14	0♊48	6°13	9°24	10° 9	24°57	7° 7	7°25	17°20	16°41	24°29	n.a.	S 7
S 8	18 49 5	11° 6'10	14°14	2°47	1°57	6°52	9°33	10° 8	25° 0	7° 6	7°25	17°18	16°37	24°35	n.a.	S 8
M 9	18 53 2	12° 3'40	26°35	4°19	3° 6	7°31	9°43	10° 7	25° 3	7° 5	7°24	17°13	16°34	24°42	n.a.	M 9
T 10	18 56 58	13° 1'12	8♊46	5°50	4°15	8°11	9°52	10° 5	25° 5	7° 3	7°23	17° 6	16°31	24°49	n.a.	T 10
W11	19 0 55	13°58'45	20°49	7°18	5°25	8°50	10° 2	10° 4	25° 8	7° 2	7°23	16°56	16°28	24°55	n.a.	W11
T 12	19 4 52	14°56'19	2♋47	8°45	6°34	9°28	10°12	10° 2	25°11	7° 1	7°22	16°43	16°25	25° 2	n.a.	T 12
F 13	19 8 48	15°53'55	14°42	10°11	7°44	10° 7	10°22	10° 1	25°13	7° 0	7°22	16°29	16°22	25° 9	n.a.	F 13
S 14	19 12 45	16°51'32	26°34	11°34	8°53	10°46	10°32	9°59	25°16	6°59	7°21	16°15	16°18	25°16	n.a.	S 14
S 15	19 16 41	17°49'10	8♌25	12°56	10° 3	11°24	10°42	9°57	25°18	6°57	7°20	16° 2	16°15	25°22	n.a.	S 15
M16	19 20 38	18°46'50	20°17	14°16	11°13	12° 3	10°52	9°55	25°21	6°56	7°19	15°51	16°12	25°29	n.a.	M16
T 17	19 24 34	19°44'31	2♍12	15°34	12°23	12°41	11° 2	9°53	25°23	6°55	7°19	15°42	16° 9	25°36	n.a.	T 17
W18	19 28 31	20°42'13	14°13	16°50	13°33	13°19	11°12	9°51	25°25	6°54	7°18	15°36	16° 6	25°43	n.a.	W18
T 19	19 32 27	21°39'56	26°24	18° 5	14°43	13°57	11°23	9°48	25°28	6°53	7°17	15°33	16° 3	25°49	n.a.	T 19
F 20	19 36 24	22°37'40	8♎48	19°17	15°53	14°35	11°33	9°46	25°30	6°52	7°16	15°32	15°59	25°56	n.a.	F 20
S 21	19 40 20	23°35'26	21°30	20°27	17° 3	15°12	11°44	9°44	25°32	6°51	7°16	15°32	15°56	26° 3	n.a.	S 21
S 22	19 44 17	24°33'13	4♏34	21°35	18°14	15°50	11°54	9°41	25°34	6°50	7°15	15°32	15°53	26° 9	n.a.	S 22
M23	19 48 14	25°31'01	18° 5	22°41	19°24	16°28	12° 5	9°38	25°37	6°49	7°14	15°30	15°50	26°16	n.a.	M23
T 24	19 52 10	26°28'51	2♐ 6	23°44	20°35	17° 5	12°16	9°36	25°39	6°48	7°13	15°27	15°47	26°23	n.a.	T 24
W25	19 56 7	27°26'42	16°34	24°45	21°45	17°42	12°27	9°33	25°41	6°47	7°12	15°21	15°43	26°30	n.a.	W25
T 26	20 0 3	28°24'35	1♑29	25°43	22°56	18°19	12°38	9°30	25°43	6°47	7°11	15°12	15°40	26°36	n.a.	T 26
F 27	20 4 0	29°22'29	16°41	26°39	24° 7	18°56	12°49	9°27	25°45	6°46	7°11	15° 2	15°37	26°43	n.a.	F 27
S 28	20 7 56	0♌20'24	2♒ 2	27°31	25°18	19°33	13° 0	9°24	25°47	6°45	7°10	14°52	15°34	26°50	n.a.	S 28
S 29	20 11 53	1°18'21	17°18	28°21	26°29	20°10	13°11	9°21	25°49	6°44	7° 9	14°42	15°31	26°56	n.a.	S 29
M30	20 15 50	2°16'20	2♓21	29° 7	27°40	20°46	13°22	9°18	25°51	6°43	7° 8	14°35	15°28	27° 3	n.a.	M30
T 31	20 19 46	3♌14'21	17♓ 0	29♌49	28♊51	21♉23	13♍34	9♓14	25♉53	6♐43	7♓ 7	14♈30	15♈24	27♋10	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	23n38	22s49	4s41	23n34	1n35	16n55	2s 8	11n24	1s 4	9n43	1n20	9s58	2s20	19n 1	0s 8	20s29	1n18	24s23	16s51	6n59	6n45	26n37			n.a.
M 2	23 36	17 39	4 4	23 13	1 31	17 14	2 5	11 38	1 3	9 39	1 20	9 59	2 20	19 2	0 8	20 29	1 18	24 24	16 51	6 56	6 44	26 36			n.a.
T 3	23 34	11 37	3 12	22 50	1 26	17 32	2 3	11 52	1 3	9 36	1 20	9 59	2 20	19 3	0 8	20 29	1 18	24 24	16 52	6 54	6 43	26 35			n.a.
W 4	23 31	5 10	2 10	22 26	1 21	17 51	2 1	12 6	1 2	9 32	1 19	10 0	2 21	19 4	0 8	20 29	1 18	24 25	16 52	6 54	6 41	26 33			n.a.
T 5	23 27	1n19	1 2	22 1	1 15	18 8	1 58	12 20	1 2	9 28	1 19	10 0	2 21	19 4	0 8	20 28	1 18	24 25	16 52	6 53	6 40	26 32			n.a.
F 6	23 24	7 35	0n 8	21 35	1 9	18 26	1 56	12 34	1 1	9 25	1 19	10 1	2 21	19 5	0 8	20 28	1 18	24 26	16 53	6 53	6 39	26 30			n.a.
S 7	23 19	13 22	1 15	21 8	1 3	18 43	1 53	12 48	1 0	9 21	1 19	10 2	2 22	19 6	0 8	20 28	1 18	24 26	16 53	6 53	6 38	26 29			n.a.
S 8	23 15	18 28	2 17	20 40	0 56	18 59	1 50	13 1	1 0	9 17	1 19	10 2	2 22	19 6	0 8	20 28	1 18	24 27	16 53	6 52	6 36	26 28			n.a.
M 9	23 10	22 43	3 11	20 12	0 49	19 16	1 48	13 15	0 59	9 14	1 19	10 3	2 22	19 7	0 8	20 28	1 18	24 27	16 54	6 50	6 35	26 26			n.a.
T 10	23 4	25 54	3 56	19 42	0 42	19 31	1 45	13 28	0 59	9 10	1 18	10 4	2 22	19 8	0 8	20 28	1 18	24 28	16 54	6 47	6 34	26 25			n.a.
W11	22 58	27 52	4 29	19 12	0 34	19 47	1 42	13 41	0 58	9 6	1 18	10 5	2 23	19 8	0 8	20 27	1 18	24 28	16 54	6 43	6 33	26 24			n.a.
T 12	22 52	28 32	4 51	18 42	0 26	20 1	1 39	13 55	0 57	9 2	1 18	10 6	2 23	19 9	0 8	20 27	1 18	24 29	16 55	6 39	6 32	26 22			n.a.
F 13	22 45	27 51	4 59	18 11	0 18	20 16	1 37	14 8	0 57	8 58	1 18	10 6	2 23	19 10	0 8	20 27	1 18	24 29	16 55	6 33	6 30	26 21			n.a.
S 14	22 38	25 54	4 54	17 40	0 9	20 30	1 34	14 20	0 56	8 54	1 18	10 7	2 23	19 10	0 8	20 27	1 18	24 30	16 55	6 28	6 29	26 19			n.a.
S 15	22 31	22 49	4 37	17 8	0 1	20 43	1 31	14 33	0 55	8 50	1 18	10 8	2 24	19 11	0 8	20 27	1 18	24 30	16 55	6 23	6 28	26 18			n.a.
M16	22 23	18 48	4 8	16 37	0s 8	20 56	1 28	14 46	0 55	8 46	1 17	10 9	2 24	19 11	0 8	20 27	1 18	24 31	16 56	6 18	6 27	26 17			n.a.
T 17	22 15	14 2	3 27	16 5	0 17	21 8	1 25	14 58	0 54	8 42	1 17	10 10	2 24	19 12	0 8	20 26	1 18	24 31	16 56	6 15	6 25	26 15			n.a.
W18	22 6	8 41	2 37	15 33	0 27	21 20	1 22	15 10	0 53	8 38	1 17	10 11	2 25	19 13	0 8	20 26	1 18	24 32	16 56	6 13	6 24	26 14			n.a.
T 19	21 57	2 58	1 39	15 1	0 36	21 31	1 19	15 22	0 53	8 34	1 17	10 13	2 25	19 13	0 8	20 26	1 18	24 33	16 57	6 12	6 23	26 12			n.a.
F 20	21 48	2s59	0 36	14 29	0 46	21 42	1 16	15 34	0 52	8 30	1 17	10 14	2 25	19 14	0 8	20 26	1 18	24 33	16 57	6 11	6 22	26 11			n.a.
S 21	21 38	8 58	0s31	13 57	0 56	21 52	1 13	15 46	0 51	8 25	1 17	10 15	2 25	19 14	0 8	20 26	1 18	24 34	16 57	6 11	6 20	26 9			n.a.
S 22	21 28	14 45	1 39	13 26	1 6	22 2	1 9	15 58	0 50	8 21	1 16	10 16	2 26	19 15	0 8	20 26	1 17	24 34	16 57	6 11	6 19	26 8			n.a.
M23	21 17	20 1	2 43	12 55	1 16	22 11	1 6	16 9	0 50	8 17	1 16	10 17	2 26	19 15	0 8	20 26	1 17	24 35	16 58	6 10	6 18	26 6			n.a.
T 24	21 6	24 24	3 40	12 25	1 26	22 20	1 3	16 21	0 49	8 12	1 16	10 19	2 26	19 16	0 8	20 26	1 17	24 35	16 58	6 9	6 17	26 5			n.a.
W25	20 55	27 25	4 24	11 55	1 36	22 27	1 0	16 32	0 48	8 8	1 16	10 20	2 26	19 16	0 8	20 25	1 17	24 36	16 58	6 7	6 15	26 3			n.a.
T 26	20 43	28 35	4 53	11 25	1 46	22 35	0 57	16 43	0 47	8 4	1 16	10 21	2 26	19 17	0 8	20 25	1 17	24 36	16 58	6 3	6 14	26 2			n.a.
F 27	20 31	27 38	5 1	10 57	1 57	22 41	0 54	16 54	0 47	7 59	1 16	10 23	2 27	19 17	0 8	20 25	1 17	24 37	16 59	5 59	6 13	26 0			n.a.
S 28	20 19	24 36	4 48	10 29	2 7	22 47	0 50	17 5	0 46	7 55	1 16	10 24	2 27	19 18	0 8	20 25	1 17	24 38	16 59	5 55	6 12	25 59			n.a.
S 29	20 6	19 51	4 14	10 2	2 17	22 53	0 47	17 16	0 45	7 50	1 15	10 25	2 27	19 18	0 8	20 25	1 17	24 38	16 59	5 52	6 11	25 57			n.a.
M30	19 53	13 55	3 23	9 37	2 28	22 58	0 44	17 27	0 44	7 46	1 15	10 27	2 27	19 19	0 8	20 25	1 17	24 39	16 59	5 49	6 9	25 56			n.a.
T 31	19n39	7s20	2s20	9n12	2s38	23n 2	0s41	17n37	0s43	7n41	1n15	10s28	2s28	19n19	0s 8	20s25	1n17	24s39	17s 0	5n47	6n 8	25n54			n.a.

Julian Day Number = 1664990.5, Delta T = 03h23m40s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°12'01, Lahiri = - 6°05'01 Julian Calendar 1 July 155 BCE == Greg. Calendar 28 June 155 BCE

The year -154 astronomical counting style corresponds to year 155 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 155 BCE
geocentric

AUGUST 155 BCE (-154) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 23 43	4♌12'24	1♈12	0♍28	0♋ 3	21♉59	13♍45	9°R11	25♉54	6°R42	7°R 6	14°R27	15♈21	27♋17	n.a.	W 1
T 2	20 27 39	5°10'29	14°55	1° 3	1°14	22°35	13°56	9♓ 8	25°56	6♐41	7♓ 5	14°D26	15°18	27°23	n.a.	T 2
F 3	20 31 36	6° 8'35	28°10	1°34	2°26	23°11	14° 8	9° 4	25°58	6°41	7° 4	14♈27	15°15	27°30	n.a.	F 3
S 4	20 35 32	7° 6'44	11♉ 1	2° 0	3°37	23°47	14°19	9° 1	25°59	6°40	7° 3	14°R27	15°12	27°37	n.a.	S 4
S 5	20 39 29	8° 4'55	23°33	2°21	4°49	24°22	14°31	8°57	26° 1	6°40	7° 2	14°26	15° 9	27°44	n.a.	S 5
M 6	20 43 25	9° 3'09	5♊49	2°37	6° 1	24°58	14°43	8°53	26° 3	6°39	7° 1	14°22	15° 5	27°50	n.a.	M 6
T 7	20 47 22	10° 1'24	17°54	2°48	7°13	25°33	14°54	8°49	26° 4	6°39	7° 0	14°17	15° 2	27°57	n.a.	T 7
W 8	20 51 19	10°59'42	29°51	2°R53	8°25	26° 8	15° 6	8°45	26° 6	6°38	6°59	14° 8	14°59	28° 4	n.a.	W 8
T 9	20 55 15	11°58'01	11♋45	2°53	9°37	26°43	15°18	8°42	26° 7	6°38	6°58	13°58	14°56	28°10	n.a.	T 9
F 10	20 59 12	12°56'23	23°37	2°46	10°49	27°18	15°30	8°38	26° 8	6°37	6°57	13°47	14°53	28°17	n.a.	F 10
S 11	21 3 8	13°54'46	5♌29	2°32	12° 1	27°53	15°42	8°34	26°10	6°37	6°56	13°35	14°49	28°24	n.a.	S 11
S 12	21 7 5	14°53'12	17°22	2°12	13°13	28°27	15°54	8°29	26°11	6°36	6°55	13°24	14°46	28°31	n.a.	S 12
M13	21 11 1	15°51'39	29°19	1°46	14°25	29° 2	16° 6	8°25	26°12	6°36	6°54	13°15	14°43	28°37	n.a.	M13
T 14	21 14 58	16°50'09	11♍21	1°12	15°38	29°36	16°18	8°21	26°13	6°36	6°52	13° 8	14°40	28°44	n.a.	T 14
W15	21 18 54	17°48'40	23°30	0°33	16°50	0♊10	16°31	8°17	26°15	6°36	6°51	13° 3	14°37	28°51	n.a.	W15
T 16	21 22 51	18°47'13	5♎48	29♌47	18° 3	0°44	16°43	8°13	26°16	6°35	6°50	13° 1	14°34	28°57	n.a.	T 16
F 17	21 26 47	19°45'48	18°17	28°55	19°15	1°17	16°55	8° 8	26°17	6°35	6°49	13°D 1	14°30	29° 4	n.a.	F 17
S 18	21 30 44	20°44'24	1♏ 2	27°59	20°28	1°51	17° 7	8° 4	26°18	6°35	6°48	13° 2	14°27	29°11	n.a.	S 18
S 19	21 34 41	21°43'03	14° 6	26°59	21°41	2°24	17°20	7°59	26°19	6°35	6°47	13° 3	14°24	29°18	n.a.	S 19
M20	21 38 37	22°41'43	27°32	25°56	22°54	2°57	17°32	7°55	26°19	6°35	6°46	13°R 3	14°21	29°24	n.a.	M20
T 21	21 42 34	23°40'25	11♐23	24°52	24° 7	3°30	17°45	7°50	26°20	6°35	6°45	13° 2	14°18	29°31	n.a.	T 21
W22	21 46 30	24°39'09	25°39	23°48	25°20	4° 2	17°57	7°46	26°21	6°D35	6°43	12°58	14°15	29°38	n.a.	W22
T 23	21 50 27	25°37'55	10♑18	22°46	26°33	4°35	18°10	7°41	26°22	6°35	6°42	12°53	14°11	29°44	n.a.	T 23
F 24	21 54 23	26°36'43	25°15	21°47	27°46	5° 7	18°22	7°37	26°22	6°35	6°41	12°46	14° 8	29°51	n.a.	F 24
S 25	21 58 20	27°35'32	10♒24	20°53	28°59	5°39	18°35	7°32	26°23	6°35	6°40	12°40	14° 5	29°58	n.a.	S 25
S 26	22 2 16	28°34'23	25°33	20° 5	0♌12	6°11	18°48	7°27	26°24	6°35	6°39	12°33	14° 2	0♌ 5	n.a.	S 26
M27	22 6 13	29°33'17	10♓32	19°24	1°25	6°43	19° 0	7°23	26°24	6°35	6°38	12°28	13°59	0°11	n.a.	M27
T 28	22 10 10	0♍32'12	25°14	18°52	2°39	7°14	19°13	7°18	26°25	6°35	6°36	12°25	13°55	0°18	n.a.	T 28
W29	22 14 6	1°31'10	9♈31	18°30	3°52	7°45	19°26	7°13	26°25	6°35	6°35	12°D24	13°52	0°25	n.a.	W29
T 30	22 18 3	2°30'10	23°21	18°17	5° 6	8°16	19°38	7° 9	26°25	6°36	6°34	12°24	13°49	0°32	n.a.	T 30
F 31	22 21 59	3♍29'13	6♉43	18°D15	6♌19	8♊47	19♍51	7♓ 4	26♉26	6♐36	6♓33	12♈26	13♈46	0♌38	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	19n26	0s35	1s10	8n49	2s48	23n 5	0s38	17n47	0s43	7n37	1n15	10s30	2s28	19n20	0s 8	20s25	1n17	24s40	17s 0	5n46	6n 7	25n53		n.a.
T 2	19 12	5n59	0n 2	8 28	2 57	23 8	0 34	17 57	0 42	7 32	1 15	10 31	2 28	19 20	0 8	20 25	1 17	24 40	17 0	5 45	6 6	25 51		n.a.
F 3	18 57	12 4	1 12	8 8	3 7	23 10	0 31	18 7	0 41	7 28	1 15	10 33	2 28	19 20	0 8	20 25	1 17	24 41	17 0	5 46	6 4	25 50		n.a.
S 4	18 42	17 28	2 16	7 50	3 16	23 12	0 28	18 17	0 40	7 23	1 15	10 34	2 28	19 21	0 8	20 25	1 17	24 42	17 0	5 46	6 3	25 48		n.a.
S 5	18 27	21 58	3 12	7 34	3 25	23 13	0 25	18 27	0 39	7 19	1 15	10 36	2 29	19 21	0 8	20 25	1 17	24 42	17 1	5 45	6 2	25 46		n.a.
M 6	18 12	25 25	3 58	7 21	3 33	23 13	0 22	18 37	0 38	7 14	1 15	10 37	2 29	19 22	0 8	20 25	1 17	24 43	17 1	5 44	6 1	25 45		n.a.
T 7	17 56	27 40	4 32	7 9	3 41	23 13	0 18	18 46	0 37	7 9	1 14	10 39	2 29	19 22	0 8	20 25	1 17	24 43	17 1	5 42	5 59	25 43		n.a.
W 8	17 40	28 37	4 54	7 1	3 48	23 12	0 15	18 55	0 37	7 4	1 14	10 41	2 29	19 22	0 8	20 24	1 17	24 44	17 1	5 38	5 58	25 42		n.a.
T 9	17 24	28 13	5 3	6 55	3 55	23 10	0 12	19 4	0 36	7 0	1 14	10 42	2 29	19 23	0 8	20 24	1 17	24 44	17 1	5 34	5 57	25 40		n.a.
F 10	17 7	26 31	4 59	6 52	4 0	23 7	0 9	19 13	0 35	6 55	1 14	10 44	2 30	19 23	0 8	20 24	1 17	24 45	17 2	5 30	5 56	25 38		n.a.
S 11	16 51	23 40	4 42	6 53	4 5	23 4	0 6	19 22	0 34	6 50	1 14	10 46	2 30	19 23	0 8	20 24	1 17	24 46	17 2	5 25	5 54	25 37		n.a.
S 12	16 33	19 48	4 12	6 57	4 8	23 0	0 3	19 31	0 33	6 45	1 14	10 47	2 30	19 24	0 8	20 24	1 17	24 46	17 2	5 21	5 53	25 35		n.a.
M13	16 16	15 8	3 31	7 4	4 11	22 56	0n 0	19 39	0 32	6 40	1 14	10 49	2 30	19 24	0 8	20 24	1 16	24 47	17 2	5 17	5 52	25 34		n.a.
T 14	15 58	9 52	2 41	7 16	4 11	22 51	0 3	19 48	0 31	6 36	1 14	10 51	2 30	19 24	0 8	20 24	1 16	24 47	17 2	5 15	5 51	25 32		n.a.
W15	15 40	4 11	1 43	7 30	4 10	22 45	0 6	19 56	0 30	6 31	1 14	10 53	2 30	19 24	0 8	20 24	1 16	24 48	17 2	5 13	5 49	25 30		n.a.
T 16	15 22	1s44	0 39	7 49	4 8	22 38	0 9	20 4	0 29	6 26	1 14	10 54	2 30	19 25	0 8	20 24	1 16	24 48	17 2	5 12	5 48	25 29		n.a.
F 17	15 4	7 41	0s28	8 11	4 3	22 31	0 12	20 12	0 28	6 21	1 13	10 56	2 31	19 25	0 8	20 24	1 16	24 49	17 3	5 12	5 47	25 27		n.a.
S 18	14 45	13 27	1 35	8 37	3 56	22 23	0 15	20 20	0 27	6 16	1 13	10 58	2 31	19 25	0 8	20 24	1 16	24 49	17 3	5 12	5 46	25 25		n.a.
S 19	14 26	18 47	2 39	9 5	3 48	22 15	0 18	20 27	0 26	6 11	1 13	11 0	2 31	19 25	0 8	20 24	1 16	24 50	17 3	5 13	5 44	25 24		n.a.
M20	14 7	23 20	3 36	9 37	3 37	22 5	0 21	20 35	0 25	6 6	1 13	11 2	2 31	19 26	0 8	20 25	1 16	24 51	17 3	5 13	5 43	25 22		n.a.
T 21	13 47	26 44	4 22	10 10	3 25	21 56	0 24	20 42	0 24	6 1	1 13	11 3	2 31	19 26	0 8	20 25	1 16	24 51	17 3	5 12	5 42	25 20		n.a.
W22	13 27	28 32	4 54	10 45	3 11	21 45	0 26	20 50	0 23	5 56	1 13	11 5	2 31	19 26	0 8	20 25	1 16	24 52	17 3	5 11	5 41	25 19		n.a.
T 23	13 7	28 25	5 7	11 20	2 55	21 34	0 29	20 57	0 22	5 51	1 13	11 7	2 31	19 26	0 8	20 25	1 16	24 52	17 3	5 9	5 39	25 17		n.a.
F 24	12 47	26 15	5 1	11 56	2 38	21 22	0 32	21 4	0 21	5 46	1 13	11 9	2 31	19 26	0 8	20 25	1 16	24 53	17 3	5 6	5 38	25 15		n.a.
S 25	12 27	22 12	4 33	12 30	2 19	21 10	0 34	21 10	0 20	5 41	1 13	11 11	2 32	19 26	0 8	20 25	1 16	24 53	17 3	5 3	5 37	25 13		n.a.
S 26	12 6	16 41	3 46	13 4	2 0	20 57	0 37	21 17	0 18	5 36	1 13	11 13	2 32	19 27	0 8	20 25	1 16	24 54	17 3	5 1	5 36	25 12		n.a.
M27	11 46	10 13	2 44	13 35	1 40	20 43	0 40	21 24	0 17	5 31	1 13	11 15	2 32	19 27	0 8	20 25	1 16	24 54	17 3	4 59	5 34	25 10		n.a.
T 28	11 25	3 19	1 32	14 4	1 20	20 29	0 42	21 30	0 16	5 26	1 13	11 16	2 32	19 27	0 8	20 25	1 16	24 55	17 3	4 58	5 33	25 8		n.a.
W29	11 3	3n34	0 16	14 30	1 1	20 14	0 45	21 36	0 15	5 21	1 13	11 18	2 32	19 27	0 8	20 25	1 16	24 55	17 4	4 57	5 32	25 6		n.a.
T 30	10 42	10 5	0n59	14 52	0 41	19 58	0 47	21 43	0 14	5 15	1 12	11 20	2 32	19 27	0 8	20 25	1 16	24 56	17 4	4 57	5 31	25 5		n.a.
F 31	10n21	15n56	2n 8	15n10	0s23	19n42	0n49	21n49	0s13	5n10	1n12	11s22	2s32	19n27	0s 8	20s25	1n16	24s56	17s 4	4n58	5n30	25n 3		n.a.

Julian Day Number = 1665021.5, Delta T = 03h23m39s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°11'57, Lahiri = - 6°04'56 Julian Calendar 1 Aug. 155 BCE == Greg. Calendar 29 July 155 BCE

The year -154 astronomical counting style corresponds to year 155 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 155 BCE
geocentric

SEPTEMBER 155 BCE (-154) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 25 56	4♍28'18	19♉40	18♌23	7♌33	9♊17	20♍ 4	6°R59	26♉26	6♐36	6°R32	12♈27	13♈43	0♌45	n.a.	S 1
S 2	22 29 52	5°27'25	2♊15	18°41	8°46	9°47	20°17	6♓54	26°26	6°36	6♓30	12°R28	13°40	0°52	n.a.	S 2
M 3	22 33 49	6°26'35	14°32	19°10	10° 0	10°17	20°30	6°50	26°26	6°37	6°29	12°28	13°36	0°58	n.a.	M 3
T 4	22 37 45	7°25'47	26°37	19°47	11°14	10°47	20°43	6°45	26°26	6°37	6°28	12°26	13°33	1° 5	n.a.	T 4
W 5	22 41 42	8°25'02	8♋33	20°33	12°28	11°17	20°56	6°40	26°R27	6°38	6°27	12°22	13°30	1°12	n.a.	W 5
T 6	22 45 39	9°24'19	20°25	21°28	13°42	11°46	21° 9	6°35	26°27	6°38	6°26	12°18	13°27	1°19	n.a.	T 6
F 7	22 49 35	10°23'38	2♌16	22°30	14°56	12°15	21°22	6°31	26°26	6°39	6°24	12°12	13°24	1°25	n.a.	F 7
S 8	22 53 32	11°23'00	14°10	23°38	16°10	12°43	21°35	6°26	26°26	6°39	6°23	12° 6	13°20	1°32	n.a.	S 8
S 9	22 57 28	12°22'24	26° 9	24°53	17°24	13°12	21°48	6°21	26°26	6°40	6°22	12° 1	13°17	1°39	n.a.	S 9
M10	23 1 25	13°21'50	8♍14	26°12	18°38	13°40	22° 1	6°17	26°26	6°40	6°21	11°56	13°14	1°45	n.a.	M10
T 11	23 5 21	14°21'18	20°27	27°36	19°52	14° 8	22°14	6°12	26°26	6°41	6°20	11°53	13°11	1°52	n.a.	T 11
W12	23 9 18	15°20'48	2♎49	29° 4	21° 6	14°35	22°27	6° 7	26°25	6°42	6°19	11°52	13° 8	1°59	n.a.	W12
T 13	23 13 14	16°20'21	15°22	0♍36	22°21	15° 3	22°40	6° 2	26°25	6°42	6°17	11°D51	13° 5	2° 6	n.a.	T 13
F 14	23 17 11	17°19'55	28° 7	2°10	23°35	15°29	22°53	5°58	26°25	6°43	6°16	11°52	13° 1	2°12	n.a.	F 14
S 15	23 21 7	18°19'31	11♏ 5	3°46	24°49	15°56	23° 6	5°53	26°24	6°44	6°15	11°54	12°58	2°19	n.a.	S 15
S 16	23 25 4	19°19'10	24°18	5°24	26° 4	16°22	23°19	5°49	26°24	6°44	6°14	11°55	12°55	2°26	n.a.	S 16
M17	23 29 1	20°18'50	7♐47	7° 3	27°18	16°48	23°32	5°44	26°23	6°45	6°13	11°56	12°52	2°32	n.a.	M17
T 18	23 32 57	21°18'32	21°34	8°43	28°33	17°14	23°45	5°40	26°22	6°46	6°12	11°R57	12°49	2°39	n.a.	T 18
W19	23 36 54	22°18'16	5♑39	10°25	29°47	17°39	23°59	5°35	26°22	6°47	6°10	11°56	12°46	2°46	n.a.	W19
T 20	23 40 50	23°18'01	20° 0	12° 6	1♍ 2	18° 4	24°12	5°31	26°21	6°48	6° 9	11°55	12°42	2°53	n.a.	T 20
F 21	23 44 47	24°17'49	4♒35	13°49	2°17	18°29	24°25	5°26	26°20	6°49	6° 8	11°53	12°39	2°59	n.a.	F 21
S 22	23 48 43	25°17'38	19°19	15°31	3°31	18°53	24°38	5°22	26°19	6°50	6° 7	11°51	12°36	3° 6	n.a.	S 22
S 23	23 52 40	26°17'29	4♓ 5	17°13	4°46	19°17	24°51	5°18	26°18	6°51	6° 6	11°49	12°33	3°13	n.a.	S 23
M24	23 56 36	27°17'21	18°45	18°55	6° 1	19°40	25° 4	5°14	26°17	6°52	6° 5	11°47	12°30	3°19	n.a.	M24
T 25	0 0 33	28°17'16	3♈14	20°38	7°15	20° 4	25°17	5° 9	26°17	6°53	6° 4	11°46	12°26	3°26	n.a.	T 25
W26	0 4 30	29°17'13	17°25	22°19	8°30	20°26	25°30	5° 5	26°15	6°54	6° 3	11°D46	12°23	3°33	n.a.	W26
T 27	0 8 26	0♎17'12	1♉14	24° 1	9°45	20°49	25°44	5° 1	26°14	6°55	6° 2	11°47	12°20	3°40	n.a.	T 27
F 28	0 12 23	1°17'13	14°39	25°42	11° 0	21°11	25°57	4°57	26°13	6°56	6° 1	11°48	12°17	3°46	n.a.	F 28
S 29	0 16 19	2°17'16	27°40	27°23	12°15	21°32	26°10	4°53	26°12	6°58	6° 0	11°49	12°14	3°53	n.a.	S 29
S 30	0 20 16	3♎17'22	10♊20	29♍ 3	13♍30	21♊53	26♍23	4♓49	26♉11	6♐59	5♓58	11♈49	12♈11	4♌ 0	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n59	20n52	3n 9	15n25	0s 5	19n26	0n52	21n55	0s12	5n 5	1n12	11s24	2s32	19n27	0s 8	20s25	1n15	24s57	17s 4	4n58	5n28	25n 1		n.a.
S 2	9 37	24 44	3 58	15 35	0n12	19 8	0 54	22 0	0 10	5 0	1 12	11 26	2 32	19 27	0 8	20 25	1 15	24 57	17 4	4 59	5 27	24 59		n.a.
M 3	9 15	27 22	4 35	15 41	0 27	18 51	0 56	22 6	0 9	4 55	1 12	11 27	2 32	19 27	0 8	20 26	1 15	24 58	17 4	4 59	5 26	24 58		n.a.
T 4	8 53	28 40	5 0	15 43	0 42	18 32	0 58	22 12	0 8	4 50	1 12	11 29	2 32	19 27	0 8	20 26	1 15	24 58	17 4	4 58	5 25	24 56		n.a.
W 5	8 31	28 36	5 11	15 40	0 55	18 13	1 0	22 17	0 7	4 44	1 12	11 31	2 32	19 27	0 8	20 26	1 15	24 59	17 4	4 57	5 23	24 54		n.a.
T 6	8 8	27 13	5 8	15 34	1 7	17 54	1 2	22 22	0 5	4 39	1 12	11 33	2 32	19 27	0 8	20 26	1 15	24 59	17 4	4 55	5 22	24 52		n.a.
F 7	7 45	24 37	4 53	15 23	1 17	17 34	1 4	22 27	0 4	4 34	1 12	11 35	2 32	19 27	0 8	20 26	1 15	25 0	17 4	4 53	5 21	24 50		n.a.
S 8	7 23	20 59	4 24	15 9	1 26	17 13	1 6	22 32	0 3	4 29	1 12	11 37	2 32	19 27	0 8	20 26	1 15	25 0	17 4	4 50	5 20	24 49		n.a.
S 9	7 0	16 27	3 44	14 51	1 34	16 53	1 8	22 37	0 1	4 24	1 12	11 38	2 32	19 27	0 8	20 26	1 15	25 0	17 4	4 48	5 18	24 47		n.a.
M10	6 37	11 16	2 54	14 30	1 41	16 31	1 10	22 42	0 0	4 18	1 12	11 40	2 32	19 27	0 8	20 27	1 15	25 1	17 4	4 46	5 17	24 45		n.a.
T 11	6 14	5 35	1 55	14 6	1 46	16 9	1 11	22 47	0n 1	4 13	1 12	11 42	2 32	19 27	0 8	20 27	1 15	25 1	17 3	4 45	5 16	24 43		n.a.
W12	5 50	0s23	0 49	13 39	1 50	15 47	1 13	22 51	0 3	4 8	1 12	11 44	2 32	19 27	0 8	20 27	1 15	25 2	17 3	4 44	5 15	24 41		n.a.
T 13	5 27	6 25	0s19	13 9	1 54	15 24	1 15	22 56	0 4	4 3	1 12	11 45	2 32	19 27	0 8	20 27	1 15	25 2	17 3	4 44	5 13	24 39		n.a.
F 14	5 4	12 18	1 28	12 38	1 56	15 1	1 16	23 0	0 5	3 57	1 12	11 47	2 32	19 27	0 8	20 27	1 15	25 2	17 3	4 45	5 12	24 38		n.a.
S 15	4 40	17 45	2 34	12 4	1 57	14 37	1 18	23 5	0 7	3 52	1 12	11 49	2 32	19 27	0 8	20 27	1 15	25 3	17 3	4 45	5 11	24 36		n.a.
S 16	4 16	22 30	3 33	11 28	1 58	14 13	1 19	23 9	0 8	3 47	1 12	11 50	2 32	19 27	0 8	20 28	1 15	25 3	17 3	4 46	5 10	24 34		n.a.
M17	3 53	26 9	4 21	10 51	1 58	13 48	1 20	23 13	0 10	3 41	1 12	11 52	2 32	19 26	0 8	20 28	1 15	25 4	17 3	4 46	5 8	24 32		n.a.
T 18	3 29	28 22	4 56	10 12	1 57	13 23	1 21	23 17	0 11	3 36	1 12	11 54	2 32	19 26	0 8	20 28	1 15	25 4	17 3	4 47	5 7	24 30		n.a.
W19	3 5	28 49	5 13	9 32	1 55	12 58	1 23	23 21	0 13	3 31	1 12	11 55	2 32	19 26	0 8	20 28	1 15	25 4	17 3	4 46	5 6	24 28		n.a.
T 20	2 41	27 21	5 12	8 50	1 53	12 32	1 24	23 24	0 14	3 26	1 12	11 57	2 32	19 26	0 8	20 28	1 15	25 5	17 3	4 46	5 5	24 26		n.a.
F 21	2 17	24 2	4 51	8 8	1 51	12 6	1 25	23 28	0 16	3 20	1 12	11 59	2 32	19 26	0 8	20 29	1 14	25 5	17 3	4 45	5 3	24 24		n.a.
S 22	1 53	19 9	4 11	7 25	1 48	11 40	1 26	23 32	0 17	3 15	1 12	12 0	2 32	19 26	0 8	20 29	1 14	25 5	17 3	4 44	5 2	24 22		n.a.
S 23	1 29	13 7	3 13	6 42	1 44	11 13	1 27	23 35	0 19	3 10	1 12	12 2	2 32	19 25	0 8	20 29	1 14	25 6	17 2	4 43	5 1	24 21		n.a.
M24	1 5	6 24	2 4	5 58	1 40	10 46	1 27	23 39	0 20	3 5	1 12	12 3	2 32	19 25	0 8	20 29	1 14	25 6	17 2	4 43	5 0	24 19		n.a.
T 25	0 41	0n35	0 47	5 13	1 36	10 18	1 28	23 42	0 22	2 59	1 12	12 5	2 32	19 25	0 8	20 29	1 14	25 6	17 2	4 42	4 58	24 17		n.a.
W26	0 17	7 24	0n31	4 28	1 31	9 51	1 29	23 46	0 24	2 54	1 12	12 6	2 32	19 25	0 8	20 30	1 14	25 7	17 2	4 42	4 57	24 15		n.a.
T 27	0s 7	13 41	1 46	3 43	1 26	9 23	1 29	23 49	0 25	2 49	1 12	12 8	2 32	19 24	0 8	20 30	1 14	25 7	17 2	4 43	4 56	24 13		n.a.
F 28	0 31	19 9	2 52	2 58	1 21	8 54	1 30	23 52	0 27	2 44	1 12	12 9	2 32	19 24	0 8	20 30	1 14	25 7	17 2	4 43	4 54	24 11		n.a.
S 29	0 55	23 34	3 48	2 12	1 16	8 26	1 30	23 55	0 29	2 38	1 12	12 10	2 32	19 24	0 8	20 30	1 14	25 7	17 2	4 43	4 53	24 9		n.a.
S 30	1s19	26n43	4n30	1n27	1n10	7n57	1n31	23n58	0n30	2n33	1n12	12s12	2s31	19n24	0s 8	20s31	1n14	25s 8	17s 1	4n44	4n52	24n 7		n.a.

Julian Day Number = 1665052.5, Delta T = 03h23m38s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°11'53, Lahiri = - 6°04'52 Julian Calendar 1 Sept. 155 BCE == Greg. Calendar 29 Aug. 155 BCE

The year -154 astronomical counting style corresponds to year 155 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 155 BCE
geocentric

OCTOBER 155 BCE (-154) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 24 12	4♎17'29	22♊41	0♎43	14♍45	22♊14	26♍36	4°R46	26°R10	7♐ 0	5°R57	11♈50	12♈ 7	4♌ 6	n.a.	M 1
T 2	0 28 9	5°17'39	4♋48	2°23	16° 0	22°34	26°49	4♓42	26♉ 8	7° 1	5♓56	11°R50	12° 4	4°13	n.a.	T 2
W 3	0 32 5	6°17'52	16°45	4° 2	17°15	22°54	27° 2	4°38	26° 7	7° 3	5°55	11°50	12° 1	4°20	n.a.	W 3
T 4	0 36 2	7°18'06	28°38	5°41	18°30	23°14	27°15	4°35	26° 6	7° 4	5°54	11°50	11°58	4°27	n.a.	T 4
F 5	0 39 59	8°18'22	10♌30	7°19	19°45	23°32	27°28	4°31	26° 4	7° 5	5°53	11°49	11°55	4°33	n.a.	F 5
S 6	0 43 55	9°18'41	22°25	8°57	21° 0	23°51	27°41	4°28	26° 3	7° 7	5°53	11°49	11°52	4°40	n.a.	S 6
S 7	0 47 52	10°19'01	4♍28	10°34	22°16	24° 9	27°54	4°24	26° 1	7° 8	5°52	11°49	11°48	4°47	n.a.	S 7
M 8	0 51 48	11°19'24	16°41	12°11	23°31	24°26	28° 7	4°21	25°59	7°10	5°51	11°48	11°45	4°53	n.a.	M 8
T 9	0 55 45	12°19'48	29° 6	13°48	24°46	24°43	28°20	4°18	25°58	7°11	5°50	11°D48	11°42	5° 0	n.a.	T 9
W10	0 59 41	13°20'14	11♎45	15°24	26° 1	24°59	28°33	4°14	25°56	7°13	5°49	11°R48	11°39	5° 7	n.a.	W10
T 11	1 3 38	14°20'42	24°39	17° 0	27°16	25°15	28°46	4°11	25°55	7°14	5°48	11°48	11°36	5°14	n.a.	T 11
F 12	1 7 34	15°21'12	7♏47	18°35	28°32	25°30	28°59	4° 8	25°53	7°16	5°47	11°48	11°32	5°20	n.a.	F 12
S 13	1 11 31	16°21'43	21° 8	20°10	29°47	25°45	29°12	4° 6	25°51	7°17	5°46	11°48	11°29	5°27	n.a.	S 13
S 14	1 15 27	17°22'16	4♐42	21°45	1♎ 2	25°59	29°25	4° 3	25°49	7°19	5°45	11°47	11°26	5°34	n.a.	S 14
M15	1 19 24	18°22'51	18°28	23°20	2°18	26°13	29°38	4° 0	25°47	7°20	5°44	11°46	11°23	5°40	n.a.	M15
T 16	1 23 21	19°23'26	2♑23	24°54	3°33	26°26	29°50	3°57	25°45	7°22	5°44	11°46	11°20	5°47	n.a.	T 16
W17	1 27 17	20°24'03	16°27	26°28	4°49	26°38	0♎ 3	3°55	25°43	7°24	5°43	11°D45	11°17	5°54	n.a.	W17
T 18	1 31 14	21°24'42	0♒38	28° 1	6° 4	26°50	0°16	3°52	25°42	7°25	5°42	11°46	11°13	6° 1	n.a.	T 18
F 19	1 35 10	22°25'21	14°53	29°35	7°19	27° 1	0°29	3°50	25°40	7°27	5°41	11°46	11°10	6° 7	n.a.	F 19
S 20	1 39 7	23°26'02	29°11	1♏ 8	8°35	27°12	0°41	3°48	25°37	7°29	5°41	11°47	11° 7	6°14	n.a.	S 20
S 21	1 43 3	24°26'44	13♓27	2°41	9°50	27°21	0°54	3°46	25°35	7°31	5°40	11°48	11° 4	6°21	n.a.	S 21
M22	1 47 0	25°27'27	27°39	4°14	11° 6	27°31	1° 6	3°44	25°33	7°32	5°39	11°49	11° 1	6°27	n.a.	M22
T 23	1 50 57	26°28'12	11♈43	5°46	12°21	27°39	1°19	3°42	25°31	7°34	5°38	11°R49	10°57	6°34	n.a.	T 23
W24	1 54 53	27°28'57	25°34	7°19	13°37	27°47	1°31	3°40	25°29	7°36	5°38	11°49	10°54	6°41	n.a.	W24
T 25	1 58 50	28°29'45	9♉ 9	8°51	14°52	27°54	1°44	3°38	25°27	7°38	5°37	11°48	10°51	6°47	n.a.	T 25
F 26	2 2 46	29°30'33	22°27	10°23	16° 7	28° 1	1°56	3°37	25°25	7°40	5°36	11°45	10°48	6°54	n.a.	F 26
S 27	2 6 43	0♏31'23	5♊26	11°54	17°23	28° 6	2° 9	3°35	25°22	7°42	5°36	11°43	10°45	7° 1	n.a.	S 27
S 28	2 10 39	1°32'15	18° 6	13°26	18°38	28°11	2°21	3°34	25°20	7°44	5°35	11°39	10°42	7° 8	n.a.	S 28
M29	2 14 36	2°33'08	0♋29	14°57	19°54	28°16	2°33	3°32	25°18	7°46	5°35	11°36	10°38	7°14	n.a.	M29
T 30	2 18 32	3°34'03	12°38	16°28	21°10	28°19	2°45	3°31	25°16	7°47	5°34	11°34	10°35	7°21	n.a.	T 30
W31	2 22 29	4♏34'59	24♋36	17♏59	22♎25	28♊22	2♎58	3♓30	25♉13	7♐49	5♓34	11♈32	10♈32	7♌28	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	1 s43	28n30	4n59	0n41	1n 4	7n28	1n31	24n 1	0n32	2n28	1n12	12s13	2s31	19n23	0s 8	20s31	1n14	25s 8	17s 1	4n44	4n51	24n 5			n.a.
T 2	2 8	28 52	5 15	0s 4	0 58	6 59	1 31	24 4	0 34	2 23	1 12	12 14	2 31	19 23	0 8	20 31	1 14	25 8	17 1	4 44	4 49	24 3			n.a.
W 3	2 32	27 52	5 16	0 50	0 52	6 30	1 31	24 7	0 36	2 17	1 12	12 16	2 31	19 23	0 8	20 31	1 14	25 8	17 1	4 44	4 48	24 1			n.a.
T 4	2 56	25 37	5 3	1 35	0 46	6 0	1 32	24 10	0 37	2 12	1 12	12 17	2 31	19 22	0 8	20 32	1 14	25 9	17 1	4 44	4 47	23 59			n.a.
F 5	3 20	22 16	4 38	2 20	0 39	5 30	1 32	24 13	0 39	2 7	1 12	12 18	2 31	19 22	0 8	20 32	1 14	25 9	17 1	4 44	4 46	23 57			n.a.
S 6	3 44	17 59	4 1	3 5	0 33	5 0	1 32	24 15	0 41	2 2	1 12	12 19	2 31	19 22	0 8	20 32	1 14	25 9	17 0	4 43	4 44	23 55			n.a.
S 7	4 8	12 58	3 13	3 49	0 27	4 30	1 31	24 18	0 43	1 56	1 12	12 20	2 31	19 21	0 8	20 33	1 14	25 9	17 0	4 43	4 43	23 53			n.a.
M 8	4 32	7 23	2 15	4 34	0 20	4 0	1 31	24 21	0 45	1 51	1 12	12 22	2 30	19 21	0 8	20 33	1 14	25 9	17 0	4 43	4 42	23 51			n.a.
T 9	4 56	1 26	1 10	5 18	0 13	3 30	1 31	24 23	0 47	1 46	1 12	12 23	2 30	19 21	0 8	20 33	1 14	25 9	17 0	4 43	4 41	23 49			n.a.
W10	5 19	4 s42	0 0	6 1	0 7	2 59	1 31	24 26	0 49	1 41	1 12	12 24	2 30	19 20	0 8	20 33	1 14	25 10	16 59	4 43	4 39	23 47			n.a.
T 11	5 43	10 45	1 s11	6 45	0 0	2 28	1 30	24 29	0 51	1 36	1 12	12 25	2 30	19 20	0 8	20 34	1 14	25 10	16 59	4 43	4 38	23 45			n.a.
F 12	6 7	16 27	2 19	7 28	0 s 6	1 58	1 30	24 31	0 53	1 31	1 12	12 26	2 30	19 19	0 8	20 34	1 13	25 10	16 59	4 43	4 37	23 43			n.a.
S 13	6 30	21 29	3 21	8 10	0 13	1 27	1 29	24 34	0 55	1 25	1 12	12 27	2 30	19 19	0 8	20 34	1 13	25 10	16 59	4 43	4 36	23 41			n.a.
S 14	6 54	25 28	4 13	8 52	0 19	0 56	1 29	24 36	0 57	1 20	1 12	12 27	2 30	19 19	0 8	20 35	1 13	25 10	16 59	4 43	4 34	23 39			n.a.
M15	7 17	28 2	4 51	9 34	0 26	0 25	1 28	24 39	0 59	1 15	1 12	12 28	2 29	19 18	0 8	20 35	1 13	25 10	16 58	4 42	4 33	23 37			n.a.
T 16	7 40	28 54	5 12	10 15	0 32	0 s 6	1 27	24 41	1 1	1 10	1 12	12 29	2 29	19 18	0 8	20 35	1 13	25 10	16 58	4 42	4 32	23 35			n.a.
W17	8 4	27 54	5 16	10 56	0 39	0 37	1 27	24 44	1 3	1 5	1 12	12 30	2 29	19 17	0 8	20 36	1 13	25 10	16 58	4 42	4 31	23 33			n.a.
T 18	8 27	25 7	5 0	11 36	0 45	1 8	1 26	24 46	1 6	1 0	1 12	12 31	2 29	19 17	0 8	20 36	1 13	25 10	16 58	4 42	4 29	23 30			n.a.
F 19	8 50	20 47	4 25	12 15	0 51	1 39	1 25	24 49	1 8	0 55	1 12	12 31	2 29	19 16	0 8	20 36	1 13	25 10	16 57	4 42	4 28	23 28			n.a.
S 20	9 12	15 14	3 35	12 54	0 57	2 9	1 24	24 51	1 10	0 50	1 13	12 32	2 29	19 16	0 8	20 36	1 13	25 11	16 57	4 43	4 27	23 26			n.a.
S 21	9 35	8 53	2 31	13 32	1 3	2 40	1 23	24 54	1 12	0 45	1 13	12 33	2 28	19 15	0 8	20 37	1 13	25 11	16 57	4 43	4 26	23 24			n.a.
M22	9 57	2 8	1 18	14 10	1 9	3 11	1 22	24 56	1 15	0 40	1 13	12 33	2 28	19 15	0 8	20 37	1 13	25 11	16 56	4 43	4 24	23 22			n.a.
T 23	10 20	4n40	0 1	14 47	1 15	3 42	1 21	24 59	1 17	0 35	1 13	12 34	2 28	19 14	0 8	20 37	1 13	25 11	16 56	4 44	4 23	23 20			n.a.
W24	10 42	11 9	1n15	15 23	1 21	4 13	1 19	25 1	1 19	0 30	1 13	12 34	2 28	19 14	0 8	20 38	1 13	25 11	16 56	4 43	4 22	23 18			n.a.
T 25	11 4	17 0	2 25	15 58	1 26	4 43	1 18	25 4	1 22	0 25	1 13	12 35	2 28	19 13	0 8	20 38	1 13	25 11	16 56	4 43	4 21	23 16			n.a.
F 26	11 26	21 54	3 26	16 33	1 32	5 14	1 17	25 6	1 24	0 20	1 13	12 35	2 28	19 13	0 8	20 38	1 13	25 11	16 55	4 42	4 19	23 14			n.a.
S 27	11 47	25 37	4 14	17 7	1 37	5 44	1 15	25 9	1 26	0 15	1 13	12 35	2 27	19 12	0 8	20 39	1 13	25 10	16 55	4 41	4 18	23 11			n.a.
S 28	12 9	27 58	4 49	17 40	1 42	6 15	1 14	25 11	1 29	0 10	1 13	12 36	2 27	19 12	0 8	20 39	1 13	25 10	16 55	4 40	4 17	23 9			n.a.
M29	12 30	28 52	5 9	18 12	1 47	6 45	1 13	25 14	1 31	0 5	1 13	12 36	2 27	19 11	0 8	20 40	1 13	25 10	16 54	4 39	4 16	23 7			n.a.
T 30	12 51	28 20	5 14	18 44	1 51	7 15	1 11	25 16	1 34	0 1	1 13	12 36	2 27	19 11	0 8	20 40	1 13	25 10	16 54	4 38	4 14	23 5			n.a.
W31	13 s12	26n28	5n 6	19 s14	1 s55	7 s45	1n 9	25n19	1n36	0 s 4	1n13	12 s37	2 s27	19n10	0 s 8	20 s40	1n13	25 s10	16 s54	4n37	4n13	23n 3			n.a.

Julian Day Number = 1665082.5, Delta T = 03h23m37s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°11'48, Lahiri = - 6°04'48 Julian Calendar 1 Oct. 155 BCE == Greg. Calendar 28 Sept. 155 BCE

The year -154 astronomical counting style corresponds to year 155 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 155 BCE
geocentric

NOVEMBER 155 BCE (-154) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 26 26	5♏35'56	6♌29	19♏30	23♎41	28♊24	3♎10	3°R29	25°R11	7♐51	5°R33	11°D32	10♈29	7♌34	n.a.	T 1
F 2	2 30 22	6°36'55	18°20	21° 0	24°56	28°25	3°22	3♓28	25♉ 8	7°53	5♓33	11♈33	10°26	7°41	n.a.	F 2
S 3	2 34 19	7°37'55	0♍16	22°30	26°12	28°R25	3°34	3°27	25° 6	7°55	5°32	11°34	10°23	7°48	n.a.	S 3
S 4	2 38 15	8°38'57	12°20	24° 0	27°27	28°25	3°46	3°27	25° 4	7°57	5°32	11°36	10°19	7°55	n.a.	S 4
M 5	2 42 12	9°39'59	24°37	25°29	28°43	28°24	3°58	3°26	25° 1	8° 0	5°31	11°38	10°16	8° 1	n.a.	M 5
T 6	2 46 8	10°41'03	7♎10	26°58	29°59	28°22	4° 9	3°26	24°59	8° 2	5°31	11°R39	10°13	8° 8	n.a.	T 6
W 7	2 50 5	11°42'08	20° 2	28°26	1♏14	28°19	4°21	3°25	24°56	8° 4	5°30	11°38	10°10	8°15	n.a.	W 7
T 8	2 54 1	12°43'14	3♏15	29°53	2°30	28°15	4°33	3°25	24°54	8° 6	5°30	11°37	10° 7	8°21	n.a.	T 8
F 9	2 57 58	13°44'21	16°47	1♐20	3°45	28°11	4°44	3°25	24°51	8° 8	5°30	11°33	10° 3	8°28	n.a.	F 9
S 10	3 1 55	14°45'29	0♐37	2°45	5° 1	28° 5	4°56	3°D25	24°49	8°10	5°29	11°28	10° 0	8°35	n.a.	S 10
S 11	3 5 51	15°46'38	14°40	4° 9	6°16	27°59	5° 7	3°25	24°46	8°12	5°29	11°23	9°57	8°42	n.a.	S 11
M12	3 9 48	16°47'47	28°53	5°32	7°32	27°52	5°19	3°25	24°44	8°14	5°29	11°17	9°54	8°48	n.a.	M12
T 13	3 13 44	17°48'57	13♑10	6°54	8°48	27°44	5°30	3°26	24°41	8°16	5°29	11°12	9°51	8°55	n.a.	T 13
W14	3 17 41	18°50'07	27°27	8°13	10° 3	27°35	5°42	3°26	24°39	8°19	5°28	11° 9	9°48	9° 2	n.a.	W14
T 15	3 21 37	19°51'18	11♒41	9°30	11°19	27°25	5°53	3°27	24°36	8°21	5°28	11° 7	9°44	9° 8	n.a.	T 15
F 16	3 25 34	20°52'29	25°49	10°45	12°34	27°15	6° 4	3°27	24°34	8°23	5°28	11°D 7	9°41	9°15	n.a.	F 16
S 17	3 29 30	21°53'40	9♓50	11°56	13°50	27° 4	6°15	3°28	24°31	8°25	5°28	11° 8	9°38	9°22	n.a.	S 17
S 18	3 33 27	22°54'51	23°43	13° 4	15° 6	26°52	6°26	3°29	24°28	8°27	5°28	11° 9	9°35	9°28	n.a.	S 18
M19	3 37 24	23°56'03	7♈27	14° 8	16°21	26°39	6°37	3°30	24°26	8°30	5°28	11°R10	9°32	9°35	n.a.	M19
T 20	3 41 20	24°57'15	21° 2	15° 8	17°37	26°25	6°47	3°31	24°23	8°32	5°28	11°10	9°29	9°42	n.a.	T 20
W21	3 45 17	25°58'27	4♉27	16° 2	18°52	26°11	6°58	3°32	24°21	8°34	5°27	11° 7	9°25	9°49	n.a.	W21
T 22	3 49 13	26°59'39	17°40	16°49	20° 8	25°55	7° 9	3°33	24°18	8°36	5°27	11° 2	9°22	9°55	n.a.	T 22
F 23	3 53 10	28° 0'52	0♊41	17°30	21°23	25°40	7°19	3°35	24°16	8°38	5°D27	10°55	9°19	10° 2	n.a.	F 23
S 24	3 57 6	29° 2'05	13°28	18° 3	22°39	25°23	7°30	3°36	24°13	8°41	5°27	10°47	9°16	10° 9	n.a.	S 24
S 25	4 1 3	0♐ 3'19	26° 1	18°27	23°55	25° 6	7°40	3°38	24°11	8°43	5°27	10°37	9°13	10°15	n.a.	S 25
M26	4 5 0	1° 4'33	8♋21	18°41	25°10	24°47	7°50	3°40	24° 8	8°45	5°28	10°28	9° 9	10°22	n.a.	M26
T 27	4 8 56	2° 5'47	20°28	18°R45	26°26	24°29	8° 0	3°42	24° 5	8°47	5°28	10°19	9° 6	10°29	n.a.	T 27
W28	4 12 53	3° 7'01	2♌26	18°37	27°41	24° 9	8°10	3°44	24° 3	8°50	5°28	10°12	9° 3	10°36	n.a.	W28
T 29	4 16 49	4° 8'16	14°18	18°18	28°57	23°49	8°20	3°46	24° 0	8°52	5°28	10° 7	9° 0	10°42	n.a.	T 29
F 30	4 20 46	5♐ 9'31	26♌ 8	17♐47	0♑12	23♊29	8♎30	3♓48	23♉58	8♑54	5♓28	10♈ 5	8♈57	10♌49	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s32	23n28	4n45	19s43	1s59	8s15	1n 8	25n21	1n39	0s 9	1n13	12s37	2s26	19n 9	0s 8	20s41	1n13	25s10	16s53	4n37	4n12	23n 1		n.a.
F 2	13 53	19 30	4 12	20 12	2 3	8 44	1 6	25 24	1 42	0 14	1 14	12 37	2 26	19 9	0 8	20 41	1 13	25 10	16 53	4 37	4 11	22 59		n.a.
S 3	14 13	14 45	3 28	20 39	2 7	9 14	1 4	25 27	1 44	0 19	1 14	12 37	2 26	19 8	0 8	20 41	1 13	25 10	16 53	4 38	4 9	22 56		n.a.
S 4	14 33	9 23	2 34	21 5	2 10	9 43	1 3	25 29	1 47	0 23	1 14	12 37	2 26	19 8	0 8	20 42	1 13	25 10	16 52	4 38	4 8	22 54		n.a.
M 5	14 53	3 34	1 32	21 30	2 12	10 12	1 1	25 32	1 49	0 28	1 14	12 37	2 25	19 7	0 8	20 42	1 13	25 10	16 52	4 39	4 7	22 52		n.a.
T 6	15 12	2s30	0 25	21 53	2 15	10 40	0 59	25 34	1 52	0 33	1 14	12 37	2 25	19 6	0 8	20 42	1 13	25 10	16 52	4 39	4 5	22 50		n.a.
W 7	15 31	8 38	0s46	22 16	2 17	11 9	0 57	25 37	1 55	0 37	1 14	12 37	2 25	19 6	0 8	20 43	1 13	25 9	16 51	4 39	4 4	22 48		n.a.
T 8	15 50	14 33	1 55	22 37	2 18	11 37	0 55	25 40	1 57	0 42	1 14	12 37	2 25	19 5	0 8	20 43	1 13	25 9	16 51	4 39	4 3	22 45		n.a.
F 9	16 9	19 55	3 0	22 56	2 19	12 5	0 53	25 42	2 0	0 46	1 14	12 37	2 25	19 5	0 8	20 43	1 13	25 9	16 51	4 37	4 2	22 43		n.a.
S 10	16 27	24 21	3 56	23 14	2 20	12 32	0 51	25 45	2 3	0 51	1 14	12 37	2 24	19 4	0 8	20 44	1 13	25 9	16 50	4 35	4 0	22 41		n.a.
S 11	16 45	27 25	4 38	23 31	2 20	13 0	0 49	25 48	2 6	0 55	1 14	12 36	2 24	19 3	0 8	20 44	1 12	25 9	16 50	4 33	3 59	22 39		n.a.
M12	17 3	28 46	5 3	23 46	2 19	13 27	0 47	25 50	2 8	1 0	1 15	12 36	2 24	19 3	0 8	20 45	1 12	25 8	16 50	4 31	3 58	22 36		n.a.
T 13	17 20	28 12	5 10	23 59	2 18	13 53	0 45	25 53	2 11	1 4	1 15	12 36	2 24	19 2	0 8	20 45	1 12	25 8	16 49	4 29	3 57	22 34		n.a.
W14	17 38	25 47	4 58	24 10	2 16	14 19	0 43	25 56	2 14	1 9	1 15	12 35	2 24	19 2	0 8	20 45	1 12	25 8	16 49	4 27	3 55	22 32		n.a.
T 15	17 54	21 45	4 28	24 20	2 14	14 45	0 41	25 58	2 17	1 13	1 15	12 35	2 23	19 1	0 8	20 46	1 12	25 8	16 49	4 27	3 54	22 30		n.a.
F 16	18 11	16 31	3 41	24 28	2 10	15 11	0 38	26 1	2 19	1 17	1 15	12 34	2 23	19 0	0 8	20 46	1 12	25 7	16 48	4 27	3 53	22 27		n.a.
S 17	18 27	10 27	2 42	24 34	2 6	15 36	0 36	26 3	2 22	1 22	1 15	12 34	2 23	19 0	0 8	20 46	1 12	25 7	16 48	4 27	3 52	22 25		n.a.
S 18	18 43	3 57	1 33	24 38	2 1	16 1	0 34	26 6	2 25	1 26	1 15	12 33	2 23	18 59	0 8	20 47	1 12	25 7	16 48	4 28	3 50	22 23		n.a.
M19	18 58	2n41	0 20	24 39	1 55	16 25	0 32	26 8	2 28	1 30	1 15	12 33	2 22	18 59	0 8	20 47	1 12	25 7	16 47	4 28	3 49	22 21		n.a.
T 20	19 14	9 7	0n53	24 39	1 47	16 49	0 30	26 10	2 30	1 34	1 16	12 32	2 22	18 58	0 8	20 47	1 12	25 6	16 47	4 28	3 48	22 18		n.a.
W21	19 28	15 4	2 2	24 37	1 39	17 12	0 27	26 13	2 33	1 38	1 16	12 32	2 22	18 57	0 8	20 48	1 12	25 6	16 47	4 27	3 47	22 16		n.a.
T 22	19 43	20 14	3 4	24 32	1 29	17 35	0 25	26 15	2 36	1 43	1 16	12 31	2 22	18 57	0 7	20 48	1 12	25 6	16 46	4 25	3 45	22 14		n.a.
F 23	19 57	24 21	3 55	24 25	1 18	17 57	0 23	26 17	2 39	1 47	1 16	12 30	2 22	18 56	0 7	20 49	1 12	25 5	16 46	4 22	3 44	22 11		n.a.
S 24	20 10	27 11	4 33	24 16	1 6	18 19	0 20	26 19	2 41	1 51	1 16	12 29	2 21	18 55	0 7	20 49	1 12	25 5	16 45	4 19	3 43	22 9		n.a.
S 25	20 24	28 36	4 56	24 5	0 53	18 41	0 18	26 21	2 44	1 55	1 16	12 29	2 21	18 55	0 7	20 49	1 12	25 5	16 45	4 15	3 41	22 7		n.a.
M26	20 37	28 32	5 6	23 52	0 38	19 2	0 16	26 23	2 46	1 59	1 16	12 28	2 21	18 54	0 7	20 50	1 12	25 4	16 45	4 11	3 40	22 5		n.a.
T 27	20 49	27 6	5 1	23 36	0 22	19 22	0 13	26 25	2 49	2 3	1 17	12 27	2 21	18 54	0 7	20 50	1 12	25 4	16 44	4 8	3 39	22 2		n.a.
W28	21 1	24 27	4 44	23 18	0 5	19 42	0 11	26 26	2 51	2 6	1 17	12 26	2 20	18 53	0 7	20 50	1 12	25 4	16 44	4 5	3 38	22 0		n.a.
T 29	21 13	20 46	4 14	22 58	0n14	20 1	0 8	26 28	2 54	2 10	1 17	12 25	2 20	18 52	0 7	20 51	1 12	25 3	16 44	4 3	3 36	21 58		n.a.
F 30	21s24	16n17	3n33	22s36	0n33	20s20	0n 6	26n29	2n56	2s14	1n17	12s24	2s20	18n52	0s 7	20s51	1n12	25s 3	16s43	4n 2	3n35	21n55		n.a.

Julian Day Number = 1665113.5, Delta T = 03h23m36s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°11'44, Lahiri = - 6°04'44 Julian Calendar 1 Nov. 155 BCE == Greg. Calendar 29 Oct. 155 BCE

The year -154 astronomical counting style corresponds to year 155 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 155 BCE
geocentric

DECEMBER 155 BCE (-154) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 24 42	6♐10'47	8♍ 1	17°R 4	1♐28	23°R 8	8♎40	3♓50	23°R55	8♐56	5♓28	10°D 4	8♈54	10♌56	n.a.	S 1
S 2	4 28 39	7°12'02	20° 2	16♐11	2°43	22♊46	8°50	3°53	23♉53	8°59	5°28	10♈ 5	8°50	11° 2	n.a.	S 2
M 3	4 32 35	8°13'18	2♎18	15° 8	3°59	22°24	8°59	3°55	23°50	9° 1	5°29	10° 6	8°47	11° 9	n.a.	M 3
T 4	4 36 32	9°14'34	14°52	13°56	5°14	22° 2	9° 9	3°58	23°48	9° 3	5°29	10°R 6	8°44	11°16	n.a.	T 4
W 5	4 40 29	10°15'50	27°49	12°40	6°30	21°39	9°18	4° 0	23°46	9° 6	5°29	10° 4	8°41	11°22	n.a.	W 5
T 6	4 44 25	11°17'07	11♏11	11°19	7°45	21°16	9°27	4° 3	23°43	9° 8	5°29	10° 0	8°38	11°29	n.a.	T 6
F 7	4 48 22	12°18'23	25° 0	9°59	9° 1	20°53	9°36	4° 6	23°41	9°10	5°30	9°54	8°35	11°36	n.a.	F 7
S 8	4 52 18	13°19'39	9♐12	8°40	10°16	20°29	9°45	4° 9	23°38	9°12	5°30	9°45	8°31	11°43	n.a.	S 8
S 9	4 56 15	14°20'55	23°42	7°25	11°32	20° 5	9°54	4°12	23°36	9°15	5°30	9°34	8°28	11°49	n.a.	S 9
M10	5 0 11	15°22'11	8♑25	6°17	12°47	19°41	10° 3	4°15	23°34	9°17	5°31	9°23	8°25	11°56	n.a.	M10
T 11	5 4 8	16°23'26	23°11	5°17	14° 3	19°17	10°11	4°19	23°31	9°19	5°31	9°14	8°22	12° 3	n.a.	T 11
W12	5 8 4	17°24'40	7♒52	4°26	15°18	18°53	10°20	4°22	23°29	9°21	5°32	9° 6	8°19	12° 9	n.a.	W12
T 13	5 12 1	18°25'54	22°23	3°44	16°34	18°29	10°28	4°26	23°27	9°24	5°32	9° 1	8°15	12°16	n.a.	T 13
F 14	5 15 58	19°27'07	6♓39	3°12	17°49	18° 5	10°37	4°29	23°25	9°26	5°33	8°58	8°12	12°23	n.a.	F 14
S 15	5 19 54	20°28'18	20°38	2°50	19° 5	17°41	10°45	4°33	23°22	9°28	5°33	8°D57	8° 9	12°29	n.a.	S 15
S 16	5 23 51	21°29'30	4♈21	2°37	20°20	17°17	10°53	4°37	23°20	9°30	5°34	8°R58	8° 6	12°36	n.a.	S 16
M17	5 27 47	22°30'40	17°49	2°D33	21°35	16°53	11° 0	4°40	23°18	9°33	5°34	8°57	8° 3	12°43	n.a.	M17
T 18	5 31 44	23°31'49	1♉ 3	2°38	22°51	16°30	11° 8	4°44	23°16	9°35	5°35	8°56	8° 0	12°50	n.a.	T 18
W19	5 35 40	24°32'57	14° 4	2°50	24° 6	16° 7	11°16	4°49	23°14	9°37	5°35	8°51	7°56	12°56	n.a.	W19
T 20	5 39 37	25°34'05	26°55	3°10	25°22	15°44	11°23	4°53	23°12	9°39	5°36	8°43	7°53	13° 3	n.a.	T 20
F 21	5 43 34	26°35'12	9♊36	3°36	26°37	15°22	11°31	4°57	23°10	9°42	5°37	8°33	7°50	13°10	n.a.	F 21
S 22	5 47 30	27°36'17	22° 6	4° 8	27°52	15° 0	11°38	5° 1	23° 8	9°44	5°37	8°20	7°47	13°16	n.a.	S 22
S 23	5 51 27	28°37'22	4♋27	4°46	29° 8	14°39	11°45	5° 6	23° 6	9°46	5°38	8° 6	7°44	13°23	n.a.	S 23
M24	5 55 23	29°38'27	16°38	5°28	0♑23	14°18	11°52	5°10	23° 4	9°48	5°39	7°51	7°41	13°30	n.a.	M24
T 25	5 59 20	0♑39'30	28°40	6°15	1°38	13°57	11°58	5°15	23° 2	9°50	5°39	7°38	7°37	13°36	n.a.	T 25
W26	6 3 16	1°40'32	10♌35	7° 6	2°54	13°37	12° 5	5°19	23° 0	9°52	5°40	7°27	7°34	13°43	n.a.	W26
T 27	6 7 13	2°41'34	22°25	8° 0	4° 9	13°18	12°11	5°24	22°58	9°55	5°41	7°18	7°31	13°50	n.a.	T 27
F 28	6 11 9	3°42'35	4♍14	8°57	5°24	12°59	12°18	5°29	22°56	9°57	5°42	7°12	7°28	13°57	n.a.	F 28
S 29	6 15 6	4°43'35	16° 5	9°58	6°39	12°41	12°24	5°34	22°55	9°59	5°43	7°10	7°25	14° 3	n.a.	S 29
S 30	6 19 3	5°44'34	28° 3	11° 1	7°55	12°24	12°30	5°39	22°53	10° 1	5°43	7° 9	7°21	14°10	n.a.	S 30
M31	6 22 59	6♑45'32	10♎15	12♐ 7	9♑10	12♊ 7	12♎36	5♓44	22♉51	10♐ 3	5♓44	7♈ 8	7♈18	14♌17	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s35	11n11	2n43	22s12	0n53	20s38	0n 4	26n31	2n59	2s18	1n17	12s23	2s20	18n51	0s 7	20s51	1n12	25s 2	16s43	4n 2	3n34	21n53		n.a.
S 2	21 46	5 36	1 45	21 47	1 13	20 56	0 1	26 32	3 1	2 21	1 17	12 22	2 20	18 50	0 7	20 52	1 12	25 2	16 43	4 2	3 33	21 51		n.a.
M 3	21 56	0s17	0 42	21 21	1 32	21 12	0s 1	26 33	3 3	2 25	1 17	12 21	2 19	18 50	0 7	20 52	1 12	25 2	16 42	4 3	3 31	21 48		n.a.
T 4	22 6	6 19	0s25	20 53	1 52	21 29	0 4	26 33	3 5	2 29	1 18	12 20	2 19	18 49	0 7	20 53	1 12	25 1	16 42	4 3	3 30	21 46		n.a.
W 5	22 15	12 16	1 33	20 26	2 10	21 45	0 6	26 34	3 8	2 32	1 18	12 18	2 19	18 49	0 7	20 53	1 12	25 1	16 42	4 2	3 29	21 43		n.a.
T 6	22 24	17 51	2 38	19 59	2 26	22 0	0 8	26 35	3 10	2 36	1 18	12 17	2 19	18 48	0 7	20 53	1 12	25 0	16 41	4 0	3 28	21 41		n.a.
F 7	22 32	22 43	3 35	19 34	2 40	22 14	0 11	26 35	3 12	2 39	1 18	12 16	2 19	18 47	0 7	20 54	1 12	25 0	16 41	3 58	3 26	21 39		n.a.
S 8	22 40	26 23	4 21	19 10	2 53	22 28	0 13	26 35	3 13	2 43	1 18	12 15	2 18	18 47	0 7	20 54	1 12	24 59	16 40	3 54	3 25	21 36		n.a.
S 9	22 47	28 25	4 51	18 48	3 2	22 41	0 15	26 35	3 15	2 46	1 18	12 13	2 18	18 46	0 7	20 54	1 12	24 59	16 40	3 50	3 24	21 34		n.a.
M10	22 54	28 28	5 2	18 29	3 10	22 53	0 18	26 35	3 17	2 49	1 19	12 12	2 18	18 46	0 7	20 55	1 12	24 58	16 40	3 46	3 23	21 32		n.a.
T 11	23 1	26 31	4 54	18 14	3 15	23 5	0 20	26 35	3 19	2 52	1 19	12 10	2 18	18 45	0 7	20 55	1 12	24 58	16 39	3 42	3 21	21 29		n.a.
W12	23 7	22 47	4 26	18 2	3 18	23 16	0 22	26 34	3 20	2 56	1 19	12 9	2 18	18 45	0 7	20 55	1 12	24 57	16 39	3 39	3 20	21 27		n.a.
T 13	23 12	17 41	3 41	17 54	3 18	23 26	0 25	26 34	3 22	2 59	1 19	12 8	2 17	18 44	0 7	20 56	1 12	24 57	16 39	3 37	3 19	21 24		n.a.
F 14	23 17	11 41	2 42	17 49	3 17	23 36	0 27	26 33	3 23	3 2	1 19	12 6	2 17	18 43	0 7	20 56	1 12	24 56	16 38	3 36	3 17	21 22		n.a.
S 15	23 22	5 13	1 36	17 47	3 14	23 45	0 29	26 32	3 25	3 5	1 20	12 4	2 17	18 43	0 7	20 56	1 12	24 56	16 38	3 35	3 16	21 19		n.a.
S 16	23 26	1n23	0 24	17 49	3 10	23 53	0 31	26 31	3 26	3 8	1 20	12 3	2 17	18 42	0 7	20 57	1 12	24 55	16 38	3 36	3 15	21 17		n.a.
M17	23 30	7 47	0n47	17 53	3 5	24 0	0 34	26 30	3 27	3 11	1 20	12 1	2 17	18 42	0 7	20 57	1 12	24 55	16 37	3 35	3 14	21 15		n.a.
T 18	23 33	13 45	1 54	18 1	2 59	24 7	0 36	26 28	3 28	3 14	1 20	12 0	2 16	18 41	0 7	20 57	1 12	24 54	16 37	3 35	3 12	21 12		n.a.
W19	23 36	19 1	2 54	18 10	2 52	24 13	0 38	26 27	3 29	3 17	1 20	11 58	2 16	18 41	0 7	20 58	1 12	24 54	16 37	3 33	3 11	21 10		n.a.
T 20	23 38	23 20	3 45	18 21	2 44	24 18	0 40	26 25	3 30	3 19	1 21	11 56	2 16	18 40	0 7	20 58	1 12	24 53	16 36	3 30	3 10	21 7		n.a.
F 21	23 40	26 28	4 23	18 34	2 35	24 22	0 42	26 23	3 31	3 22	1 21	11 54	2 16	18 40	0 7	20 58	1 12	24 53	16 36	3 26	3 9	21 5		n.a.
S 22	23 42	28 16	4 48	18 49	2 27	24 26	0 44	26 22	3 31	3 25	1 21	11 53	2 16	18 39	0 7	20 59	1 12	24 52	16 36	3 20	3 7	21 2		n.a.
S 23	23 43	28 37	4 59	19 5	2 18	24 29	0 46	26 20	3 32	3 27	1 21	11 51	2 15	18 39	0 7	20 59	1 12	24 52	16 35	3 15	3 6	21 0		n.a.
M24	23 43	27 34	4 56	19 21	2 9	24 31	0 48	26 18	3 32	3 30	1 21	11 49	2 15	18 38	0 7	20 59	1 12	24 51	16 35	3 9	3 5	20 57		n.a.
T 25	23 43	25 14	4 40	19 39	1 59	24 32	0 50	26 16	3 33	3 32	1 22	11 47	2 15	18 38	0 7	21 0	1 12	24 50	16 35	3 4	3 3	20 55		n.a.
W26	23 42	21 49	4 12	19 57	1 50	24 33	0 52	26 13	3 33	3 35	1 22	11 45	2 15	18 37	0 7	21 0	1 12	24 50	16 34	2 59	3 2	20 52		n.a.
T 27	23 41	17 33	3 33	20 15	1 40	24 33	0 54	26 11	3 33	3 37	1 22	11 43	2 15	18 37	0 7	21 0	1 12	24 49	16 34	2 56	3 1	20 50		n.a.
F 28	23 40	12 37	2 44	20 33	1 31	24 32	0 56	26 9	3 34	3 39	1 22	11 41	2 15	18 36	0 7	21 1	1 12	24 49	16 34	2 54	3 0	20 47		n.a.
S 29	23 38	7 13	1 49	20 52	1 21	24 30	0 57	26 7	3 34	3 42	1 22	11 39	2 14	18 36	0 7	21 1	1 12	24 48	16 33	2 52	2 58	20 45		n.a.
S 30	23 35	1 31	0 48	21 10	1 12	24 28	0 59	26 4	3 34	3 44	1 23	11 37	2 14	18 36	0 7	21 1	1 12	24 48	16 33	2 52	2 57	20 42		n.a.
M31	23s32	4s21	0s16	21s29	1n 2	24s24	1s 1	26n 2	3n34	3s46	1n23	11s35	2s14	18n35	0s 7	21s 2	1n12	24s47	16s33	2n52	2n56	20n40		n.a.

Julian Day Number = 1665143.5, Delta T = 03h23m35s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°11'40, Lahiri = - 6°04'40 Julian Calendar 1 Dec. 155 BCE == Greg. Calendar 28 Nov. 155 BCE

The year -154 astronomical counting style corresponds to year 155 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 154 BCE
geocentric

JANUARY 154 BCE (-153) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 26 56	7♉46'29	22♎45	13♐15	10♉25	11°R51	12♎41	5♓49	22°R50	10♐ 5	5♓45	7°R 8	7♈15	14♌23	n.a.	T 1
W 2	6 30 52	8°47'26	5♏38	14°25	11°40	11♊35	12°47	5°54	22♉48	10° 7	5°46	7♈ 6	7°12	14°30	n.a.	W 2
T 3	6 34 49	9°48'22	18°59	15°37	12°56	11°21	12°52	5°59	22°47	10° 9	5°47	7° 2	7° 9	14°37	n.a.	T 3
F 4	6 38 45	10°49'16	2♐50	16°51	14°11	11° 7	12°58	6° 5	22°45	10°11	5°48	6°55	7° 6	14°43	n.a.	F 4
S 5	6 42 42	11°50'10	17° 9	18° 6	15°26	10°54	13° 3	6°10	22°44	10°13	5°49	6°45	7° 2	14°50	n.a.	S 5
S 6	6 46 38	12°51'02	1♉54	19°23	16°41	10°42	13° 7	6°16	22°42	10°15	5°50	6°34	6°59	14°57	n.a.	S 6
M 7	6 50 35	13°51'54	16°55	20°41	17°56	10°30	13°12	6°21	22°41	10°17	5°51	6°22	6°56	15° 4	n.a.	M 7
T 8	6 54 32	14°52'44	2♒ 4	22° 0	19°12	10°19	13°17	6°27	22°40	10°19	5°52	6°10	6°53	15°10	n.a.	T 8
W 9	6 58 28	15°53'32	17°10	23°21	20°27	10° 9	13°21	6°33	22°38	10°21	5°53	6° 1	6°50	15°17	n.a.	W 9
T 10	7 2 25	16°54'19	2♓ 4	24°43	21°42	10° 0	13°25	6°39	22°37	10°23	5°54	5°55	6°47	15°24	n.a.	T 10
F 11	7 6 21	17°55'03	16°38	26° 6	22°57	9°52	13°29	6°44	22°36	10°25	5°55	5°52	6°43	15°30	n.a.	F 11
S 12	7 10 18	18°55'46	0♈49	27°31	24°12	9°45	13°33	6°50	22°35	10°27	5°56	5°D51	6°40	15°37	n.a.	S 12
S 13	7 14 14	19°56'28	14°37	28°56	25°27	9°38	13°37	6°56	22°34	10°29	5°57	5°R51	6°37	15°44	n.a.	S 13
M14	7 18 11	20°57'07	28° 2	0♉22	26°42	9°32	13°40	7° 2	22°33	10°31	5°58	5°51	6°34	15°50	n.a.	M14
T 15	7 22 8	21°57'45	11♉ 8	1°50	27°57	9°27	13°44	7° 8	22°32	10°32	5°59	5°49	6°31	15°57	n.a.	T 15
W16	7 26 4	22°58'21	23°57	3°18	29°12	9°23	13°47	7°15	22°31	10°34	6° 0	5°45	6°27	16° 4	n.a.	W16
T 17	7 30 1	23°58'54	6♊33	4°47	0♒27	9°19	13°50	7°21	22°30	10°36	6° 1	5°39	6°24	16°10	n.a.	T 17
F 18	7 33 57	24°59'27	18°57	6°18	1°42	9°17	13°53	7°27	22°29	10°38	6° 3	5°29	6°21	16°17	n.a.	F 18
S 19	7 37 54	25°59'57	1♋13	7°49	2°57	9°15	13°55	7°33	22°28	10°39	6° 4	5°17	6°18	16°24	n.a.	S 19
S 20	7 41 50	27° 0'25	13°20	9°21	4°12	9°14	13°58	7°40	22°28	10°41	6° 5	5° 4	6°15	16°31	n.a.	S 20
M21	7 45 47	28° 0'52	25°22	10°54	5°27	9°D13	14° 0	7°46	22°27	10°43	6° 6	4°51	6°12	16°37	n.a.	M21
T 22	7 49 43	29° 1'17	7♌17	12°28	6°42	9°14	14° 2	7°53	22°26	10°45	6° 7	4°39	6° 8	16°44	n.a.	T 22
W23	7 53 40	0♒ 1'40	19° 9	14° 3	7°57	9°15	14° 4	7°59	22°26	10°46	6° 9	4°29	6° 5	16°51	n.a.	W23
T 24	7 57 37	1° 2'02	0♍58	15°39	9°12	9°16	14° 5	8° 6	22°25	10°48	6°10	4°21	6° 2	16°57	n.a.	T 24
F 25	8 1 33	2° 2'21	12°48	17°16	10°27	9°19	14° 7	8°12	22°25	10°49	6°11	4°16	5°59	17° 4	n.a.	F 25
S 26	8 5 30	3° 2'39	24°40	18°54	11°42	9°22	14° 8	8°19	22°24	10°51	6°12	4°13	5°56	17°11	n.a.	S 26
S 27	8 9 26	4° 2'56	6♎39	20°33	12°57	9°26	14° 9	8°26	22°24	10°53	6°14	4°D13	5°53	17°17	n.a.	S 27
M28	8 13 23	5° 3'10	18°50	22°13	14°11	9°31	14°10	8°33	22°24	10°54	6°15	4°13	5°49	17°24	n.a.	M28
T 29	8 17 19	6° 3'24	1♏17	23°54	15°26	9°36	14°11	8°39	22°23	10°56	6°16	4°R14	5°46	17°31	n.a.	T 29
W30	8 21 16	7° 3'35	14° 6	25°36	16°41	9°42	14°12	8°46	22°23	10°57	6°17	4°14	5°43	17°37	n.a.	W30
T 31	8 25 12	8♒ 3'45	27♏20	27♉18	17♒56	9♊48	14♎12	8♓53	22♉23	10♐59	6♓19	4♈12	5♈40	17♌44	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23 s29	10 s12	1 s22	21 s47	0n53	24 s21	1 s 3	26n 0	3n34	3 s48	1n23	11 s33	2 s14	18n35	0 s 7	21 s 2	1n12	24 s46	16 s32	2n52	2n55	20n37		n.a.
W 2	23 25	15 49	2 24	22 4	0 44	24 16	1 4	25 57	3 33	3 50	1 23	11 31	2 14	18 34	0 7	21 2	1 12	24 46	16 32	2 51	2 53	20 35		n.a.
T 3	23 21	20 54	3 22	22 21	0 35	24 10	1 6	25 55	3 33	3 52	1 23	11 29	2 14	18 34	0 7	21 2	1 12	24 45	16 32	2 49	2 52	20 32		n.a.
F 4	23 16	25 2	4 9	22 38	0 26	24 4	1 7	25 53	3 33	3 54	1 24	11 27	2 13	18 34	0 7	21 3	1 12	24 44	16 32	2 46	2 51	20 30		n.a.
S 5	23 11	27 47	4 43	22 54	0 17	23 57	1 9	25 50	3 32	3 55	1 24	11 25	2 13	18 33	0 7	21 3	1 12	24 44	16 31	2 43	2 50	20 27		n.a.
S 6	23 5	28 41	4 59	23 9	0 9	23 49	1 10	25 48	3 32	3 57	1 24	11 23	2 13	18 33	0 7	21 3	1 12	24 43	16 31	2 38	2 48	20 25		n.a.
M 7	22 59	27 31	4 55	23 23	0 0	23 41	1 12	25 46	3 32	3 59	1 24	11 20	2 13	18 33	0 7	21 4	1 12	24 43	16 31	2 33	2 47	20 22		n.a.
T 8	22 53	24 19	4 30	23 36	0 s 8	23 32	1 13	25 44	3 31	4 0	1 25	11 18	2 13	18 32	0 7	21 4	1 12	24 42	16 30	2 29	2 46	20 20		n.a.
W 9	22 45	19 28	3 47	23 49	0 16	23 22	1 14	25 42	3 30	4 2	1 25	11 16	2 13	18 32	0 7	21 4	1 12	24 41	16 30	2 25	2 44	20 17		n.a.
T 10	22 38	13 29	2 48	24 0	0 24	23 11	1 15	25 40	3 30	4 3	1 25	11 13	2 13	18 32	0 7	21 4	1 12	24 41	16 30	2 23	2 43	20 15		n.a.
F 11	22 30	6 52	1 40	24 11	0 31	23 0	1 17	25 38	3 29	4 4	1 25	11 11	2 12	18 31	0 7	21 5	1 12	24 40	16 30	2 21	2 42	20 12		n.a.
S 12	22 22	0 5	0 27	24 20	0 39	22 48	1 18	25 36	3 28	4 6	1 26	11 9	2 12	18 31	0 7	21 5	1 12	24 39	16 29	2 21	2 41	20 9		n.a.
S 13	22 13	6n32	0n46	24 28	0 46	22 35	1 19	25 34	3 28	4 7	1 26	11 6	2 12	18 31	0 7	21 5	1 12	24 39	16 29	2 21	2 39	20 7		n.a.
M14	22 4	12 41	1 55	24 35	0 52	22 22	1 20	25 33	3 27	4 8	1 26	11 4	2 12	18 31	0 7	21 5	1 12	24 38	16 29	2 21	2 38	20 4		n.a.
T 15	21 54	18 7	2 55	24 41	0 59	22 8	1 21	25 31	3 26	4 9	1 26	11 2	2 12	18 30	0 7	21 6	1 12	24 37	16 29	2 20	2 37	20 2		n.a.
W16	21 44	22 37	3 46	24 46	1 5	21 53	1 21	25 29	3 25	4 10	1 26	10 59	2 12	18 30	0 7	21 6	1 12	24 37	16 28	2 19	2 36	19 59		n.a.
T 17	21 34	25 59	4 24	24 49	1 11	21 37	1 22	25 28	3 24	4 11	1 27	10 57	2 12	18 30	0 7	21 6	1 12	24 36	16 28	2 16	2 34	19 57		n.a.
F 18	21 23	28 3	4 49	24 51	1 17	21 21	1 23	25 27	3 23	4 12	1 27	10 54	2 12	18 30	0 7	21 6	1 12	24 35	16 28	2 12	2 33	19 54		n.a.
S 19	21 12	28 43	5 1	24 51	1 23	21 5	1 24	25 25	3 22	4 13	1 27	10 52	2 11	18 30	0 7	21 7	1 12	24 35	16 28	2 7	2 32	19 51		n.a.
S 20	21 0	27 59	4 58	24 51	1 28	20 48	1 24	25 24	3 21	4 14	1 27	10 49	2 11	18 29	0 7	21 7	1 12	24 34	16 27	2 2	2 30	19 49		n.a.
M21	20 48	25 56	4 43	24 48	1 33	20 30	1 25	25 23	3 20	4 14	1 28	10 47	2 11	18 29	0 7	21 7	1 12	24 33	16 27	1 57	2 29	19 46		n.a.
T 22	20 35	22 46	4 15	24 44	1 37	20 11	1 25	25 22	3 19	4 15	1 28	10 44	2 11	18 29	0 7	21 7	1 12	24 33	16 27	1 52	2 28	19 43		n.a.
W23	20 23	18 40	3 36	24 39	1 42	19 52	1 26	25 22	3 18	4 15	1 28	10 41	2 11	18 29	0 7	21 7	1 12	24 32	16 27	1 48	2 27	19 41		n.a.
T 24	20 10	13 51	2 47	24 32	1 45	19 33	1 26	25 21	3 17	4 16	1 28	10 39	2 11	18 29	0 7	21 8	1 12	24 31	16 27	1 45	2 25	19 38		n.a.
F 25	19 56	8 33	1 52	24 23	1 49	19 13	1 27	25 20	3 16	4 16	1 29	10 36	2 11	18 29	0 7	21 8	1 12	24 31	16 26	1 43	2 24	19 36		n.a.
S 26	19 42	2 55	0 51	24 13	1 52	18 52	1 27	25 20	3 15	4 16	1 29	10 34	2 11	18 29	0 7	21 8	1 13	24 30	16 26	1 42	2 23	19 33		n.a.
S 27	19 28	2 s52	0 s13	24 1	1 55	18 31	1 27	25 19	3 14	4 17	1 29	10 31	2 11	18 29	0 7	21 8	1 13	24 29	16 26	1 42	2 22	19 30		n.a.
M28	19 13	8 39	1 18	23 48	1 58	18 9	1 27	25 19	3 13	4 17	1 29	10 28	2 11	18 29	0 7	21 8	1 13	24 29	16 26	1 42	2 20	19 28		n.a.
T 29	18 59	14 14	2 20	23 33	2 0	17 47	1 27	25 18	3 12	4 17	1 30	10 26	2 10	18 28	0 7	21 9	1 13	24 28	16 26	1 42	2 19	19 25		n.a.
W30	18 43	19 23	3 17	23 16	2 2	17 24	1 27	25 18	3 11	4 17	1 30	10 23	2 10	18 28	0 7	21 9	1 13	24 27	16 26	1 42	2 18	19 22		n.a.
T 31	18 s28	23 s46	4 s 5	22 s57	2 s 3	17 s 1	1 s27	25n18	3n10	4 s17	1n30	10 s20	2 s10	18n28	0 s 7	21 s 9	1n13	24 s27	16 s25	1n41	2n16	19n20		n.a.

Julian Day Number = 1665174.5, Delta T = 03h23m34s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°11'36, Lahiri = - 6°04'35 Julian Calendar 1 Jan. 154 BCE == Greg. Calendar 29 Dec. 155 BCE

The year -153 astronomical counting style corresponds to year 154 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 154 BCE
geocentric

FEBRUARY 154 BCE (-153) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 29 9	9♒ 3'54	11♐ 3	29♉ 3	19♒11	9♊55	14♎12	9♓ 0	22°R23	11♐ 0	6♓20	4°R 8	5♈37	17♌51	n.a.	F 1
S 2	8 33 6	10° 4'00	25°15	0♒48	20°25	10° 3	14°R12	9° 7	22°D23	11° 1	6°21	4♈ 2	5°33	17°58	n.a.	S 2
S 3	8 37 2	11° 4'05	9♉56	2°34	21°40	10°12	14°12	9°14	22♉23	11° 3	6°23	3°54	5°30	18° 4	n.a.	S 3
M 4	8 40 59	12° 4'09	24°58	4°21	22°55	10°21	14°12	9°21	22°23	11° 4	6°24	3°46	5°27	18°11	n.a.	M 4
T 5	8 44 55	13° 4'10	10♒13	6° 9	24° 9	10°30	14°11	9°28	22°23	11° 5	6°26	3°38	5°24	18°18	n.a.	T 5
W 6	8 48 52	14° 4'09	25°31	7°59	25°24	10°41	14°10	9°36	22°23	11° 7	6°27	3°32	5°21	18°24	n.a.	W 6
T 7	8 52 48	15° 4'06	10♓40	9°49	26°39	10°51	14° 9	9°43	22°24	11° 8	6°28	3°27	5°18	18°31	n.a.	T 7
F 8	8 56 45	16° 4'01	25°31	11°41	27°53	11° 3	14° 8	9°50	22°24	11° 9	6°30	3°25	5°14	18°38	n.a.	F 8
S 9	9 0 41	17° 3'54	9♈58	13°34	29° 8	11°15	14° 7	9°57	22°24	11°10	6°31	3°D25	5°11	18°44	n.a.	S 9
S 10	9 4 38	18° 3'44	23°59	15°27	0♓22	11°27	14° 5	10° 4	22°25	11°11	6°33	3°26	5° 8	18°51	n.a.	S 10
M11	9 8 35	19° 3'32	7♉33	17°22	1°37	11°40	14° 4	10°12	22°25	11°13	6°34	3°28	5° 5	18°58	n.a.	M11
T 12	9 12 31	20° 3'17	20°42	19°18	2°51	11°53	14° 2	10°19	22°26	11°14	6°35	3°R28	5° 2	19° 4	n.a.	T 12
W13	9 16 28	21° 3'01	3♊30	21°15	4° 6	12° 7	14° 0	10°26	22°26	11°15	6°37	3°27	4°59	19°11	n.a.	W13
T 14	9 20 24	22° 2'42	16° 1	23°13	5°20	12°22	13°57	10°34	22°27	11°16	6°38	3°24	4°55	19°18	n.a.	T 14
F 15	9 24 21	23° 2'20	28°17	25°11	6°35	12°37	13°55	10°41	22°27	11°17	6°40	3°20	4°52	19°24	n.a.	F 15
S 16	9 28 17	24° 1'57	10♋24	27°10	7°49	12°52	13°52	10°49	22°28	11°18	6°41	3°14	4°49	19°31	n.a.	S 16
S 17	9 32 14	25° 1'31	22°22	29°10	9° 4	13° 8	13°50	10°56	22°29	11°19	6°43	3° 7	4°46	19°38	n.a.	S 17
M18	9 36 10	26° 1'02	4♌16	1♓10	10°18	13°24	13°47	11° 3	22°30	11°20	6°44	3° 0	4°43	19°45	n.a.	M18
T 19	9 40 7	27° 0'32	16° 7	3°11	11°32	13°41	13°44	11°11	22°31	11°21	6°46	2°53	4°39	19°51	n.a.	T 19
W20	9 44 3	27°59'59	27°57	5°11	12°46	13°58	13°40	11°18	22°31	11°21	6°47	2°47	4°36	19°58	n.a.	W20
T 21	9 48 0	28°59'24	9♍48	7°11	14° 1	14°15	13°37	11°26	22°32	11°22	6°48	2°43	4°33	20° 5	n.a.	T 21
F 22	9 51 57	29°58'47	21°42	9°11	15°15	14°33	13°33	11°34	22°33	11°23	6°50	2°41	4°30	20°11	n.a.	F 22
S 23	9 55 53	0♓58'07	3♎40	11°10	16°29	14°52	13°29	11°41	22°35	11°24	6°51	2°D40	4°27	20°18	n.a.	S 23
S 24	9 59 50	1°57'26	15°46	13° 7	17°43	15°10	13°25	11°49	22°36	11°25	6°53	2°41	4°24	20°25	n.a.	S 24
M25	10 3 46	2°56'43	28° 4	15° 3	18°57	15°30	13°21	11°56	22°37	11°25	6°54	2°43	4°20	20°31	n.a.	M25
T 26	10 7 43	3°55'58	10♏35	16°57	20°12	15°49	13°17	12° 4	22°38	11°26	6°56	2°44	4°17	20°38	n.a.	T 26
W27	10 11 39	4°55'11	23°24	18°49	21°26	16° 9	13°12	12°11	22°39	11°27	6°57	2°46	4°14	20°45	n.a.	W27
T 28	10 15 36	5♓54'23	6♐35	20♓38	22♓40	16♊29	13♎ 8	12♓19	22♉41	11♐27	6♓59	2°R46	4♈11	20♌51	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	18s12	27s 0	4s42	22s36	2s 4	16s37	1s27	25n18	3n 9	4s17	1n30	10s18	2s10	18n28	0s 7	21s 9	1n13	24s26	16s25	1n40	2n15	19n17		n.a.
S 2	17 56	28 40	5 3	22 14	2 4	16 13	1 27	25 18	3 7	4 17	1 31	10 15	2 10	18 28	0 7	21 9	1 13	24 25	16 25	1 37	2 14	19 14		n.a.
S 3	17 39	28 24	5 4	21 50	2 4	15 49	1 27	25 18	3 6	4 16	1 31	10 12	2 10	18 28	0 6	21 10	1 13	24 25	16 25	1 34	2 13	19 12		n.a.
M 4	17 22	26 4	4 46	21 24	2 4	15 24	1 26	25 19	3 5	4 16	1 31	10 9	2 10	18 28	0 6	21 10	1 13	24 24	16 25	1 31	2 11	19 9		n.a.
T 5	17 5	21 50	4 6	20 56	2 3	14 58	1 26	25 19	3 4	4 15	1 31	10 7	2 10	18 28	0 6	21 10	1 13	24 23	16 25	1 28	2 10	19 6		n.a.
W 6	16 48	16 8	3 10	20 26	2 2	14 32	1 25	25 19	3 3	4 15	1 31	10 4	2 10	18 29	0 6	21 10	1 13	24 23	16 24	1 25	2 9	19 4		n.a.
T 7	16 30	9 30	2 0	19 55	2 0	14 6	1 25	25 20	3 2	4 14	1 32	10 1	2 10	18 29	0 6	21 10	1 13	24 22	16 24	1 23	2 8	19 1		n.a.
F 8	16 12	2 27	0 43	19 22	1 57	13 40	1 24	25 20	3 1	4 14	1 32	9 58	2 10	18 29	0 6	21 10	1 13	24 21	16 24	1 23	2 6	18 58		n.a.
S 9	15 54	4n32	0n35	18 46	1 54	13 13	1 24	25 21	3 0	4 13	1 32	9 55	2 10	18 29	0 6	21 10	1 13	24 21	16 24	1 23	2 5	18 55		n.a.
S 10	15 36	11 5	1 49	18 9	1 51	12 46	1 23	25 22	2 58	4 12	1 32	9 52	2 10	18 29	0 6	21 11	1 13	24 20	16 24	1 23	2 4	18 53		n.a.
M11	15 17	16 55	2 54	17 30	1 47	12 18	1 22	25 22	2 57	4 11	1 33	9 50	2 10	18 29	0 6	21 11	1 13	24 20	16 24	1 23	2 2	18 50		n.a.
T 12	14 58	21 47	3 48	16 49	1 42	11 50	1 21	25 23	2 56	4 10	1 33	9 47	2 9	18 29	0 6	21 11	1 13	24 19	16 24	1 24	2 1	18 47		n.a.
W13	14 39	25 29	4 29	16 7	1 37	11 22	1 20	25 24	2 55	4 9	1 33	9 44	2 9	18 29	0 6	21 11	1 13	24 18	16 24	1 23	2 0	18 45		n.a.
T 14	14 19	27 52	4 56	15 23	1 32	10 53	1 19	25 25	2 54	4 8	1 33	9 41	2 9	18 30	0 6	21 11	1 13	24 18	16 24	1 22	1 59	18 42		n.a.
F 15	14 0	28 51	5 8	14 37	1 25	10 25	1 18	25 25	2 53	4 7	1 33	9 38	2 9	18 30	0 6	21 11	1 13	24 17	16 24	1 20	1 57	18 39		n.a.
S 16	13 40	28 24	5 7	13 49	1 18	9 56	1 17	25 26	2 52	4 6	1 34	9 35	2 9	18 30	0 6	21 11	1 13	24 16	16 23	1 18	1 56	18 36		n.a.
S 17	13 20	26 38	4 52	13 0	1 11	9 26	1 16	25 27	2 50	4 5	1 34	9 32	2 9	18 30	0 6	21 11	1 13	24 16	16 23	1 15	1 55	18 34		n.a.
M18	13 0	23 42	4 25	12 9	1 3	8 57	1 15	25 28	2 49	4 3	1 34	9 29	2 9	18 30	0 6	21 11	1 13	24 15	16 23	1 12	1 54	18 31		n.a.
T 19	12 39	19 47	3 46	11 18	0 54	8 27	1 14	25 29	2 48	4 2	1 34	9 27	2 9	18 31	0 6	21 12	1 13	24 14	16 23	1 10	1 52	18 28		n.a.
W20	12 18	15 6	2 58	10 25	0 45	7 57	1 12	25 30	2 47	4 0	1 34	9 24	2 9	18 31	0 6	21 12	1 13	24 14	16 23	1 7	1 51	18 25		n.a.
T 21	11 58	9 51	2 2	9 31	0 35	7 27	1 11	25 31	2 46	3 59	1 35	9 21	2 9	18 31	0 6	21 12	1 13	24 13	16 23	1 6	1 50	18 23		n.a.
F 22	11 37	4 15	1 0	8 36	0 25	6 57	1 9	25 32	2 45	3 57	1 35	9 18	2 9	18 31	0 6	21 12	1 13	24 13	16 23	1 5	1 48	18 20		n.a.
S 23	11 15	1s34	0s 5	7 41	0 14	6 26	1 8	25 34	2 44	3 56	1 35	9 15	2 9	18 32	0 6	21 12	1 13	24 12	16 23	1 5	1 47	18 17		n.a.
S 24	10 54	7 22	1 11	6 45	0 3	5 55	1 6	25 35	2 43	3 54	1 35	9 12	2 9	18 32	0 6	21 12	1 13	24 11	16 23	1 5	1 46	18 14		n.a.
M25	10 32	13 0	2 15	5 49	0n 9	5 25	1 5	25 36	2 42	3 52	1 35	9 9	2 9	18 32	0 6	21 12	1 13	24 11	16 23	1 5	1 45	18 11		n.a.
T 26	10 11	18 13	3 13	4 53	0 21	4 54	1 3	25 37	2 41	3 50	1 36	9 6	2 9	18 33	0 6	21 12	1 13	24 10	16 23	1 6	1 43	18 9		n.a.
W27	9 49	22 45	4 3	3 58	0 33	4 23	1 1	25 38	2 40	3 48	1 36	9 3	2 9	18 33	0 6	21 12	1 13	24 10	16 23	1 7	1 42	18 6		n.a.
T 28	9s27	26s17	4s42	3s 4	0n45	3s51	1s 0	25n39	2n38	3s46	1n36	9s 0	2s 9	18n33	0s 6	21s12	1n13	24s 9	16s23	1n 7	1n41	18n 3		n.a.

Julian Day Number = 1665205.5, Delta T = 03h23m33s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°11'32, Lahiri = - 6°04'31 Julian Calendar 1 Feb. 154 BCE == Greg. Calendar 29 Jan. 154 BCE

The year -153 astronomical counting style corresponds to year 154 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 154 BCE
geocentric

MARCH 154 BCE (-153) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 19 32	6♓53'32	20♐10	22♓24	23♓54	16♊49	13°R 3	12♓27	22♉42	11♐28	7♓ 0	2°R46	4♈ 8	20♌58	n.a.	F 1
S 2	10 23 29	7°52'40	4♑11	24° 6	25° 8	17°10	12♎58	12°34	22°43	11°28	7° 2	2♈44	4° 5	21° 5	n.a.	S 2
S 3	10 27 26	8°51'46	18°37	25°45	26°22	17°31	12°53	12°42	22°45	11°29	7° 3	2°41	4° 1	21°11	n.a.	S 3
M 4	10 31 22	9°50'50	3♒24	27°19	27°36	17°53	12°48	12°50	22°46	11°29	7° 5	2°38	3°58	21°18	n.a.	M 4
T 5	10 35 19	10°49'52	18°27	28°48	28°50	18°15	12°42	12°57	22°48	11°30	7° 6	2°35	3°55	21°25	n.a.	T 5
W 6	10 39 15	11°48'52	3♓37	0♈13	0♈ 3	18°37	12°37	13° 5	22°50	11°30	7° 8	2°33	3°52	21°31	n.a.	W 6
T 7	10 43 12	12°47'50	18°45	1°32	1°17	18°59	12°31	13°12	22°51	11°30	7° 9	2°31	3°49	21°38	n.a.	T 7
F 8	10 47 8	13°46'46	3♈40	2°46	2°31	19°22	12°25	13°20	22°53	11°31	7°11	2°D31	3°45	21°45	n.a.	F 8
S 9	10 51 5	14°45'39	18°16	3°54	3°45	19°45	12°19	13°28	22°55	11°31	7°12	2°31	3°42	21°51	n.a.	S 9
S 10	10 55 1	15°44'30	2♉27	4°56	4°59	20° 9	12°13	13°35	22°56	11°31	7°14	2°32	3°39	21°58	n.a.	S 10
M11	10 58 58	16°43'19	16°11	5°52	6°12	20°32	12° 7	13°43	22°58	11°32	7°15	2°34	3°36	22° 5	n.a.	M11
T 12	11 2 55	17°42'06	29°29	6°42	7°26	20°56	12° 1	13°51	23° 0	11°32	7°17	2°35	3°33	22°12	n.a.	T 12
W13	11 6 51	18°40'50	12♊23	7°25	8°40	21°20	11°54	13°58	23° 2	11°32	7°18	2°35	3°30	22°18	n.a.	W13
T 14	11 10 48	19°39'32	24°56	8° 3	9°53	21°45	11°48	14° 6	23° 4	11°32	7°19	2°R35	3°26	22°25	n.a.	T 14
F 15	11 14 44	20°38'12	7♋12	8°34	11° 7	22° 9	11°41	14°14	23° 6	11°32	7°21	2°35	3°23	22°32	n.a.	F 15
S 16	11 18 41	21°36'49	19°15	8°58	12°21	22°34	11°34	14°21	23° 8	11°32	7°22	2°34	3°20	22°38	n.a.	S 16
S 17	11 22 37	22°35'24	1♌10	9°16	13°34	22°59	11°28	14°29	23°10	11°32	7°24	2°32	3°17	22°45	n.a.	S 17
M18	11 26 34	23°33'57	13° 1	9°28	14°48	23°25	11°21	14°36	23°12	11°R32	7°25	2°31	3°14	22°52	n.a.	M18
T 19	11 30 30	24°32'28	24°50	9°R33	16° 1	23°50	11°14	14°44	23°15	11°32	7°27	2°30	3°10	22°58	n.a.	T 19
W20	11 34 27	25°30'56	6♍41	9°33	17°14	24°16	11° 7	14°52	23°17	11°32	7°28	2°29	3° 7	23° 5	n.a.	W20
T 21	11 38 23	26°29'22	18°36	9°26	18°28	24°42	11° 0	14°59	23°19	11°32	7°29	2°28	3° 4	23°12	n.a.	T 21
F 22	11 42 20	27°27'47	0♎38	9°14	19°41	25° 8	10°52	15° 7	23°21	11°32	7°31	2°D28	3° 1	23°18	n.a.	F 22
S 23	11 46 17	28°26'09	12°47	8°57	20°54	25°35	10°45	15°14	23°24	11°32	7°32	2°28	2°58	23°25	n.a.	S 23
S 24	11 50 13	29°24'30	25° 7	8°34	22° 8	26° 2	10°38	15°22	23°26	11°32	7°34	2°29	2°55	23°32	n.a.	S 24
M25	11 54 10	0♈22'48	7♏38	8° 8	23°21	26°28	10°30	15°29	23°28	11°31	7°35	2°29	2°51	23°38	n.a.	M25
T 26	11 58 6	1°21'05	20°23	7°38	24°34	26°56	10°23	15°37	23°31	11°31	7°36	2°29	2°48	23°45	n.a.	T 26
W27	12 2 3	2°19'21	3♐22	7° 4	25°47	27°23	10°16	15°44	23°33	11°31	7°38	2°R29	2°45	23°52	n.a.	W27
T 28	12 5 59	3°17'35	16°39	6°28	27° 0	27°50	10° 8	15°51	23°36	11°31	7°39	2°29	2°42	23°58	n.a.	T 28
F 29	12 9 56	4°15'47	0♑14	5°50	28°13	28°18	10° 0	15°59	23°38	11°30	7°41	2°D29	2°39	24° 5	n.a.	F 29
S 30	12 13 52	5°13'58	14° 7	5°11	29°26	28°46	9°53	16° 6	23°41	11°30	7°42	2°29	2°36	24°12	n.a.	S 30
S 31	12 17 49	6♈12'07	28♑19	4♈31	0♉39	29♊14	9♎45	16♓14	23♉44	11♐29	7♓43	2♈29	2♈32	24♌18	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	9s 5	28s27	5s 7	2s10	0n58	3s20	0s58	25n40	2n37	3s44	1n36	8s57	2s 9	18n34	0s 6	21s12	1n13	24s 8	16s23	1n 7	1n40	18n 0		n.a.
S 2	8 43	28 53	5 14	1 18	1 10	2 49	0 56	25 41	2 36	3 42	1 36	8 54	2 9	18 34	0 6	21 12	1 13	24 8	16 23	1 6	1 38	17 58		n.a.
S 3	8 20	27 24	5 2	0 27	1 22	2 17	0 54	25 42	2 35	3 40	1 36	8 51	2 9	18 34	0 6	21 12	1 14	24 7	16 23	1 5	1 37	17 55		n.a.
M 4	7 58	24 0	4 30	0n22	1 34	1 46	0 52	25 43	2 34	3 38	1 37	8 48	2 9	18 35	0 6	21 12	1 14	24 7	16 23	1 4	1 36	17 52		n.a.
T 5	7 35	18 57	3 39	1 8	1 46	1 14	0 50	25 44	2 33	3 36	1 37	8 45	2 9	18 35	0 6	21 12	1 14	24 6	16 23	1 2	1 34	17 49		n.a.
W 6	7 13	12 40	2 33	1 53	1 58	0 42	0 48	25 45	2 32	3 33	1 37	8 42	2 9	18 36	0 6	21 12	1 14	24 6	16 23	1 1	1 33	17 46		n.a.
T 7	6 50	5 39	1 15	2 35	2 9	0 11	0 46	25 46	2 31	3 31	1 37	8 39	2 9	18 36	0 6	21 12	1 14	24 5	16 23	1 1	1 32	17 43		n.a.
F 8	6 27	1n34	0n 6	3 14	2 19	0n21	0 44	25 47	2 30	3 29	1 37	8 37	2 9	18 37	0 6	21 12	1 14	24 5	16 23	1 1	1 31	17 41		n.a.
S 9	6 4	8 34	1 26	3 50	2 29	0 52	0 41	25 48	2 29	3 26	1 37	8 34	2 9	18 37	0 6	21 12	1 14	24 4	16 23	1 1	1 29	17 38		n.a.
S 10	5 41	14 56	2 38	4 23	2 38	1 24	0 39	25 48	2 28	3 24	1 37	8 31	2 9	18 38	0 6	21 12	1 14	24 4	16 23	1 1	1 28	17 35		n.a.
M11	5 18	20 21	3 39	4 54	2 46	1 56	0 37	25 49	2 27	3 21	1 37	8 28	2 9	18 38	0 6	21 12	1 14	24 3	16 23	1 2	1 27	17 32		n.a.
T 12	4 55	24 35	4 25	5 20	2 54	2 27	0 35	25 50	2 26	3 18	1 38	8 25	2 9	18 38	0 6	21 12	1 14	24 3	16 23	1 2	1 26	17 29		n.a.
W13	4 32	27 27	4 57	5 44	3 0	2 59	0 32	25 51	2 25	3 16	1 38	8 22	2 9	18 39	0 6	21 12	1 14	24 2	16 23	1 2	1 24	17 26		n.a.
T 14	4 8	28 50	5 14	6 4	3 6	3 30	0 30	25 51	2 24	3 13	1 38	8 19	2 10	18 40	0 6	21 12	1 14	24 1	16 24	1 2	1 23	17 24		n.a.
F 15	3 45	28 46	5 15	6 20	3 10	4 2	0 27	25 52	2 23	3 11	1 38	8 16	2 10	18 40	0 6	21 12	1 14	24 1	16 24	1 2	1 22	17 21		n.a.
S 16	3 22	27 19	5 3	6 33	3 13	4 33	0 25	25 52	2 22	3 8	1 38	8 13	2 10	18 41	0 6	21 12	1 14	24 1	16 24	1 2	1 20	17 18		n.a.
S 17	2 58	24 39	4 38	6 42	3 15	5 4	0 22	25 53	2 21	3 5	1 38	8 10	2 10	18 41	0 6	21 12	1 14	24 0	16 24	1 1	1 19	17 15		n.a.
M18	2 35	20 57	4 1	6 47	3 16	5 35	0 20	25 53	2 20	3 2	1 38	8 7	2 10	18 42	0 6	21 12	1 14	24 0	16 24	1 1	1 18	17 12		n.a.
T 19	2 12	16 26	3 14	6 49	3 15	6 6	0 17	25 54	2 19	2 59	1 38	8 4	2 10	18 42	0 6	21 12	1 14	23 59	16 24	1 0	1 17	17 9		n.a.
W20	1 48	11 18	2 18	6 47	3 13	6 37	0 15	25 54	2 18	2 57	1 38	8 1	2 10	18 43	0 6	21 12	1 14	23 59	16 24	1 0	1 15	17 6		n.a.
T 21	1 25	5 43	1 16	6 41	3 10	7 8	0 12	25 54	2 18	2 54	1 38	7 58	2 10	18 43	0 6	21 12	1 14	23 58	16 24	1 0	1 14	17 3		n.a.
F 22	1 1	0s 6	0 10	6 32	3 5	7 38	0 10	25 54	2 17	2 51	1 38	7 56	2 10	18 44	0 6	21 12	1 14	23 58	16 24	1 0	1 13	17 1		n.a.
S 23	0 38	5 59	0s57	6 19	2 59	8 9	0 7	25 54	2 16	2 48	1 38	7 53	2 10	18 45	0 6	21 12	1 14	23 57	16 24	1 0	1 11	16 58		n.a.
S 24	0 14	11 43	2 2	6 3	2 51	8 39	0 4	25 54	2 15	2 45	1 38	7 50	2 10	18 45	0 6	21 12	1 14	23 57	16 25	1 0	1 10	16 55		n.a.
M25	0n 9	17 6	3 3	5 44	2 42	9 9	0 2	25 54	2 14	2 42	1 38	7 47	2 10	18 46	0 6	21 12	1 14	23 57	16 25	1 0	1 9	16 52		n.a.
T 26	0 33	21 50	3 56	5 22	2 32	9 38	0n 1	25 54	2 13	2 39	1 38	7 44	2 10	18 46	0 6	21 12	1 14	23 56	16 25	1 0	1 8	16 49		n.a.
W27	0 56	25 36	4 37	4 58	2 20	10 8	0 4	25 53	2 12	2 36	1 38	7 41	2 10	18 47	0 6	21 12	1 14	23 56	16 25	1 0	1 6	16 46		n.a.
T 28	1 19	28 6	5 5	4 32	2 7	10 37	0 6	25 53	2 11	2 33	1 38	7 38	2 10	18 48	0 6	21 12	1 14	23 55	16 25	1 0	1 5	16 43		n.a.
F 29	1 43	29 0	5 17	4 4	1 53	11 6	0 9	25 53	2 10	2 30	1 38	7 36	2 11	18 48	0 6	21 12	1 14	23 55	16 25	1 0	1 4	16 40		n.a.
S 30	2 6	28 7	5 11	3 35	1 38	11 35	0 12	25 52	2 9	2 27	1 38	7 33	2 11	18 49	0 6	21 12	1 14	23 55	16 26	1 0	1 3	16 37		n.a.
S 31	2n29	25s24	4s46	3n 5	1n23	12n 4	0n15	25n51	2n 8	2s24	1n38	7s30	2s11	18n50	0s 6	21s12	1n14	23s54	16s26	1n 0	1n 1	16n34		n.a.

Julian Day Number = 1665233.5, Delta T = 03h23m32s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°11'28, Lahiri = - 6°04'27 Julian Calendar 1 March 154 BCE == Greg. Calendar 26 Feb. 154 BCE

The year -153 astronomical counting style corresponds to year 154 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 154 BCE
geocentric

APRIL 154 BCE (-153) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 21 46	7♈10'15	12♒47	3°R52	1♉52	29♊42	9°R38	16♓21	23♉46	11°R29	7♓45	2♈30	2♈29	24♌25	n.a.	M 1
T 2	12 25 42	8° 8'21	27°28	3♈13	3° 5	0♋10	9♎30	16°28	23°49	11♐29	7°46	2°30	2°26	24°32	n.a.	T 2
W 3	12 29 39	9° 6'25	12♓17	2°36	4°18	0°39	9°22	16°36	23°52	11°28	7°47	2°30	2°23	24°38	n.a.	W 3
T 4	12 33 35	10° 4'28	27° 6	2° 2	5°31	1° 8	9°15	16°43	23°55	11°28	7°48	2°R31	2°20	24°45	n.a.	T 4
F 5	12 37 32	11° 2'29	11♈50	1°30	6°44	1°37	9° 7	16°50	23°57	11°27	7°50	2°31	2°16	24°52	n.a.	F 5
S 6	12 41 28	12° 0'29	26°19	1° 1	7°56	2° 6	8°59	16°57	24° 0	11°26	7°51	2°30	2°13	24°58	n.a.	S 6
S 7	12 45 25	12°58'26	10♉30	0°36	9° 9	2°35	8°52	17° 4	24° 3	11°26	7°52	2°29	2°10	25° 5	n.a.	S 7
M 8	12 49 21	13°56'22	24°17	0°15	10°22	3° 4	8°44	17°12	24° 6	11°25	7°54	2°28	2° 7	25°12	n.a.	M 8
T 9	12 53 18	14°54'17	7♊40	29♓58	11°34	3°34	8°36	17°19	24° 9	11°24	7°55	2°26	2° 4	25°18	n.a.	T 9
W10	12 57 15	15°52'09	20°39	29°45	12°47	4° 4	8°29	17°26	24°12	11°24	7°56	2°25	2° 1	25°25	n.a.	W10
T 11	13 1 11	16°50'00	3♋16	29°37	13°59	4°33	8°21	17°33	24°15	11°23	7°57	2°24	1°57	25°32	n.a.	T 11
F 12	13 5 8	17°47'48	15°34	29°D34	15°12	5° 3	8°14	17°40	24°18	11°22	7°58	2°D23	1°54	25°38	n.a.	F 12
S 13	13 9 4	18°45'35	27°39	29°35	16°24	5°34	8° 6	17°47	24°21	11°21	8° 0	2°24	1°51	25°45	n.a.	S 13
S 14	13 13 1	19°43'20	9♌34	29°41	17°37	6° 4	7°59	17°54	24°24	11°21	8° 1	2°24	1°48	25°52	n.a.	S 14
M15	13 16 57	20°41'04	21°24	29°51	18°49	6°34	7°52	18° 1	24°27	11°20	8° 2	2°26	1°45	25°58	n.a.	M15
T 16	13 20 54	21°38'45	3♍13	0♈ 6	20° 1	7° 5	7°44	18° 7	24°30	11°19	8° 3	2°27	1°42	26° 5	n.a.	T 16
W17	13 24 50	22°36'25	15° 7	0°26	21°14	7°36	7°37	18°14	24°33	11°18	8° 4	2°29	1°38	26°12	n.a.	W17
T 18	13 28 47	23°34'03	27° 8	0°50	22°26	8° 6	7°30	18°21	24°36	11°17	8° 5	2°R29	1°35	26°18	n.a.	T 18
F 19	13 32 44	24°31'40	9♎19	1°18	23°38	8°37	7°23	18°28	24°39	11°16	8° 6	2°29	1°32	26°25	n.a.	F 19
S 20	13 36 40	25°29'16	21°42	1°50	24°50	9° 8	7°16	18°34	24°43	11°15	8° 7	2°28	1°29	26°32	n.a.	S 20
S 21	13 40 37	26°26'50	4♏19	2°26	26° 2	9°39	7° 9	18°41	24°46	11°14	8° 8	2°26	1°26	26°39	n.a.	S 21
M22	13 44 33	27°24'22	17°10	3° 7	27°14	10°11	7° 2	18°47	24°49	11°13	8°10	2°23	1°22	26°45	n.a.	M22
T 23	13 48 30	28°21'54	0♐16	3°50	28°26	10°42	6°56	18°54	24°52	11°12	8°11	2°19	1°19	26°52	n.a.	T 23
W24	13 52 26	29°19'25	13°35	4°38	29°38	11°14	6°49	19° 0	24°56	11°11	8°12	2°15	1°16	26°59	n.a.	W24
T 25	13 56 23	0♑16'54	27° 8	5°29	0♊50	11°45	6°43	19° 7	24°59	11°10	8°13	2°11	1°13	27° 5	n.a.	T 25
F 26	14 0 19	1°14'23	10♑52	6°24	2° 2	12°17	6°36	19°13	25° 2	11° 9	8°14	2° 9	1°10	27°12	n.a.	F 26
S 27	14 4 16	2°11'51	24°48	7°22	3°13	12°49	6°30	19°20	25° 6	11° 8	8°15	2° 7	1° 7	27°19	n.a.	S 27
S 28	14 8 13	3° 9'18	8♒54	8°23	4°25	13°21	6°24	19°26	25° 9	11° 6	8°15	2°D 7	1° 3	27°25	n.a.	S 28
M29	14 12 9	4° 6'44	23° 8	9°27	5°37	13°53	6°17	19°32	25°12	11° 5	8°16	2° 8	1° 0	27°32	n.a.	M29
T 30	14 16 6	5♉ 4'09	7♓28	10♈34	6♊48	14♋25	6♎12	19♓38	25♉16	11♐ 4	8♓17	2♈10	0♈57	27♌39	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	2n53	21s 2	4s 2	2n34	1n 7	12n32	0n17	25n51	2n 8	2s21	1n38	7s27	2s11	18n50	0s 6	21s11	1n14	23s54	16s26	1n 0	1n 0	16n31		n.a.
T 2	3 16	15 20	3 2	2 4	0 50	13 0	0 20	25 50	2 7	2 18	1 38	7 24	2 11	18 51	0 6	21 11	1 14	23 53	16 26	1 0	0 59	16 29		n.a.
W 3	3 39	8 43	1 50	1 33	0 33	13 28	0 23	25 49	2 6	2 15	1 38	7 22	2 11	18 52	0 6	21 11	1 14	23 53	16 26	1 0	0 57	16 26		n.a.
T 4	4 2	1 37	0 30	1 4	0 16	13 55	0 26	25 48	2 5	2 12	1 38	7 19	2 11	18 53	0 6	21 11	1 15	23 53	16 26	1 1	0 56	16 23		n.a.
F 5	4 25	5n31	0n51	0 36	0s 0	14 22	0 28	25 46	2 4	2 9	1 38	7 16	2 11	18 53	0 6	21 11	1 15	23 53	16 27	1 1	0 55	16 20		n.a.
S 6	4 48	12 16	2 8	0 9	0 17	14 48	0 31	25 45	2 3	2 6	1 38	7 13	2 11	18 54	0 6	21 11	1 15	23 52	16 27	1 0	0 54	16 17		n.a.
S 7	5 11	18 13	3 15	0s16	0 33	15 15	0 34	25 44	2 2	2 3	1 38	7 11	2 12	18 55	0 6	21 11	1 15	23 52	16 27	1 0	0 52	16 14		n.a.
M 8	5 34	23 5	4 9	0 39	0 49	15 41	0 37	25 42	2 2	2 0	1 38	7 8	2 12	18 55	0 6	21 11	1 15	23 52	16 27	0 59	0 51	16 11		n.a.
T 9	5 56	26 34	4 47	0 59	1 4	16 6	0 39	25 41	2 1	1 57	1 38	7 5	2 12	18 56	0 6	21 11	1 15	23 51	16 27	0 59	0 50	16 8		n.a.
W10	6 19	28 32	5 10	1 18	1 19	16 31	0 42	25 39	2 0	1 54	1 38	7 3	2 12	18 57	0 6	21 10	1 15	23 51	16 28	0 58	0 48	16 5		n.a.
T 11	6 41	28 57	5 16	1 34	1 32	16 56	0 45	25 37	1 59	1 51	1 38	7 0	2 12	18 58	0 6	21 10	1 15	23 51	16 28	0 58	0 47	16 2		n.a.
F 12	7 4	27 54	5 8	1 47	1 45	17 20	0 48	25 35	1 58	1 49	1 38	6 57	2 12	18 58	0 6	21 10	1 15	23 51	16 28	0 58	0 46	15 59		n.a.
S 13	7 26	25 33	4 46	1 58	1 57	17 44	0 50	25 33	1 57	1 46	1 37	6 55	2 12	18 59	0 6	21 10	1 15	23 50	16 28	0 58	0 45	15 56		n.a.
S 14	7 48	22 7	4 12	2 5	2 9	18 8	0 53	25 31	1 57	1 43	1 37	6 52	2 12	19 0	0 6	21 10	1 15	23 50	16 29	0 58	0 43	15 53		n.a.
M15	8 10	17 49	3 28	2 11	2 19	18 31	0 56	25 29	1 56	1 40	1 37	6 49	2 13	19 1	0 6	21 10	1 15	23 50	16 29	0 59	0 42	15 50		n.a.
T 16	8 32	12 50	2 35	2 13	2 29	18 53	0 58	25 26	1 55	1 37	1 37	6 47	2 13	19 2	0 5	21 10	1 15	23 50	16 29	0 59	0 41	15 47		n.a.
W17	8 54	7 23	1 34	2 13	2 37	19 15	1 1	25 24	1 54	1 35	1 37	6 44	2 13	19 2	0 5	21 10	1 15	23 49	16 29	1 0	0 40	15 44		n.a.
T 18	9 15	1 36	0 30	2 11	2 45	19 37	1 3	25 21	1 53	1 32	1 37	6 42	2 13	19 3	0 5	21 9	1 15	23 49	16 30	1 0	0 38	15 41		n.a.
F 19	9 37	4s18	0s38	2 6	2 52	19 58	1 6	25 18	1 52	1 29	1 37	6 39	2 13	19 4	0 5	21 9	1 15	23 49	16 30	1 0	0 37	15 38		n.a.
S 20	9 58	10 9	1 44	1 58	2 57	20 18	1 8	25 15	1 52	1 26	1 37	6 37	2 13	19 5	0 5	21 9	1 15	23 49	16 30	1 0	0 36	15 35		n.a.
S 21	10 19	15 42	2 46	1 48	3 2	20 38	1 11	25 12	1 51	1 24	1 36	6 34	2 13	19 5	0 5	21 9	1 15	23 49	16 30	0 59	0 34	15 32		n.a.
M22	10 40	20 41	3 41	1 36	3 7	20 57	1 13	25 9	1 50	1 21	1 36	6 32	2 14	19 6	0 5	21 9	1 15	23 48	16 31	0 57	0 33	15 29		n.a.
T 23	11 1	24 46	4 26	1 21	3 10	21 16	1 16	25 6	1 49	1 19	1 36	6 29	2 14	19 7	0 5	21 9	1 15	23 48	16 31	0 56	0 32	15 26		n.a.
W24	11 22	27 36	4 57	1 5	3 12	21 34	1 18	25 2	1 48	1 16	1 36	6 27	2 14	19 8	0 5	21 8	1 15	23 48	16 31	0 54	0 31	15 23		n.a.
T 25	11 42	28 53	5 12	0 46	3 14	21 52	1 20	24 59	1 48	1 14	1 36	6 25	2 14	19 9	0 5	21 8	1 15	23 48	16 32	0 53	0 29	15 20		n.a.
F 26	12 2	28 24	5 9	0 25	3 15	22 9	1 23	24 55	1 47	1 11	1 36	6 22	2 14	19 10	0 5	21 8	1 15	23 48	16 32	0 52	0 28	15 17		n.a.
S 27	12 22	26 9	4 49	0 2	3 15	22 26	1 25	24 51	1 46	1 9	1 35	6 20	2 14	19 10	0 5	21 8	1 15	23 48	16 32	0 51	0 27	15 14		n.a.
S 28	12 42	22 16	4 11	0n23	3 14	22 42	1 27	24 47	1 45	1 7	1 35	6 17	2 15	19 11	0 5	21 8	1 15	23 48	16 32	0 51	0 25	15 11		n.a.
M29	13 2	17 4	3 17	0 50	3 13	22 57	1 29	24 43	1 45	1 5	1 35	6 15	2 15	19 12	0 5	21 8	1 15	23 48	16 33	0 52	0 24	15 8		n.a.
T 30	13n22	10s53	2s11	1n19	3s11	23n12	1n31	24n39	1n44	1s 2	1n35	6s13	2s15	19n13	0s 5	21s 7	1n15	23s48	16s33	0n52	0n23	15n 5		n.a.

Julian Day Number = 1665264.5, Delta T = 03h23m31s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°11'24, Lahiri = - 6°04'23 Julian Calendar 1 Apr. 154 BCE == Greg. Calendar 29 March 154 BCE

The year -153 astronomical counting style corresponds to year 154 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 154 BCE
geocentric

MAY 154 BCE (-153) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 20 2	6♉ 1'33	21♓52	11♈45	8♊ 0	14♋58	6°R 6	19♓44	25♉19	11°R 3	8♓18	2♈11	0♈54	27♌45	n.a.	W 1
T 2	14 23 59	6°58'57	6♈16	12°58	9°11	15°30	6♎ 0	19°50	25°23	11♐ 1	8°19	2°R11	0°51	27°52	n.a.	T 2
F 3	14 27 55	7°56'20	20°36	14°14	10°23	16° 3	5°54	19°56	25°26	11° 0	8°20	2°10	0°47	27°59	n.a.	F 3
S 4	14 31 52	8°53'41	4♉46	15°33	11°34	16°35	5°49	20° 2	25°29	10°59	8°21	2° 7	0°44	28° 5	n.a.	S 4
S 5	14 35 48	9°51'02	18°43	16°55	12°46	17° 8	5°44	20° 8	25°33	10°58	8°22	2° 2	0°41	28°12	n.a.	S 5
M 6	14 39 45	10°48'23	2♊22	18°20	13°57	17°41	5°38	20°14	25°36	10°56	8°22	1°56	0°38	28°19	n.a.	M 6
T 7	14 43 42	11°45'42	15°41	19°47	15° 8	18°14	5°33	20°20	25°40	10°55	8°23	1°50	0°35	28°25	n.a.	T 7
W 8	14 47 38	12°43'00	28°39	21°18	16°19	18°47	5°29	20°25	25°43	10°54	8°24	1°44	0°32	28°32	n.a.	W 8
T 9	14 51 35	13°40'17	11♋16	22°50	17°30	19°20	5°24	20°31	25°47	10°52	8°25	1°38	0°28	28°39	n.a.	T 9
F 10	14 55 31	14°37'33	23°35	24°26	18°41	19°53	5°19	20°37	25°50	10°51	8°25	1°34	0°25	28°45	n.a.	F 10
S 11	14 59 28	15°34'49	5♌40	26° 4	19°52	20°27	5°15	20°42	25°54	10°49	8°26	1°32	0°22	28°52	n.a.	S 11
S 12	15 3 24	16°32'03	17°36	27°45	21° 3	21° 0	5°11	20°47	25°57	10°48	8°27	1°D31	0°19	28°59	n.a.	S 12
M13	15 7 21	17°29'16	29°26	29°28	22°14	21°34	5° 7	20°53	26° 1	10°46	8°27	1°32	0°16	29° 5	n.a.	M13
T 14	15 11 17	18°26'28	11♍16	1♉15	23°25	22° 7	5° 3	20°58	26° 4	10°45	8°28	1°33	0°13	29°12	n.a.	T 14
W15	15 15 14	19°23'39	23°12	3° 3	24°36	22°41	4°59	21° 3	26° 8	10°44	8°29	1°35	0° 9	29°19	n.a.	W15
T 16	15 19 11	20°20'50	5♎18	4°54	25°46	23°15	4°55	21° 8	26°12	10°42	8°29	1°R35	0° 6	29°25	n.a.	T 16
F 17	15 23 7	21°17'59	17°37	6°48	26°57	23°49	4°52	21°14	26°15	10°41	8°30	1°33	0° 3	29°32	n.a.	F 17
S 18	15 27 4	22°15'09	0♏13	8°44	28° 7	24°23	4°49	21°19	26°19	10°39	8°30	1°30	29♓59	29°39	n.a.	S 18
S 19	15 31 0	23°12'17	13° 7	10°42	29°18	24°57	4°45	21°23	26°22	10°38	8°31	1°25	29°57	29°45	n.a.	S 19
M20	15 34 57	24° 9'25	26°19	12°43	0♋28	25°31	4°42	21°28	26°26	10°36	8°32	1°17	29°53	29°52	n.a.	M20
T 21	15 38 53	25° 6'33	9♐49	14°45	1°38	26° 5	4°40	21°33	26°29	10°35	8°32	1° 9	29°50	29°59	n.a.	T 21
W22	15 42 50	26° 3'40	23°34	16°50	2°48	26°40	4°37	21°38	26°33	10°33	8°33	1° 0	29°47	0♍ 5	n.a.	W22
T 23	15 46 46	27° 0'48	7♑31	18°56	3°58	27°14	4°35	21°42	26°36	10°31	8°33	0°52	29°44	0°12	n.a.	T 23
F 24	15 50 43	27°57'55	21°35	21° 4	5° 8	27°49	4°32	21°47	26°40	10°30	8°33	0°45	29°41	0°19	n.a.	F 24
S 25	15 54 40	28°55'02	5♒43	23°12	6°18	28°23	4°30	21°51	26°44	10°28	8°34	0°41	29°38	0°25	n.a.	S 25
S 26	15 58 36	29°52'09	19°54	25°22	7°28	28°58	4°29	21°56	26°47	10°27	8°34	0°39	29°34	0°32	n.a.	S 26
M27	16 2 33	0♊49'16	4♓ 3	27°33	8°38	29°33	4°27	22° 0	26°51	10°25	8°35	0°D38	29°31	0°39	n.a.	M27
T 28	16 6 29	1°46'23	18°11	29°43	9°48	0♌ 7	4°25	22° 4	26°54	10°24	8°35	0°39	29°28	0°45	n.a.	T 28
W29	16 10 26	2°43'30	2♈16	1♊54	10°57	0°42	4°24	22° 8	26°58	10°22	8°35	0°R39	29°25	0°52	n.a.	W29
T 30	16 14 22	3°40'38	16°16	4° 5	12° 7	1°17	4°23	22°13	27° 1	10°20	8°36	0°38	29°22	0°59	n.a.	T 30
F 31	16 18 19	4♊37'45	0♉10	6♊15	13♋16	1♌52	4♎22	22♓17	27♉ 5	10♐19	8♓36	0♈35	29♓19	1♍ 5	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	13n41	4s 7	0s56	1n49	3s 8	23n26	1n33	24n34	1n43	1s 0	1n35	6s11	2s15	19n14	0s 5	21s 7	1n15	23s48	16s33	0n53	0n22	15n 2			n.a.
T 2	14 0	2n51	0n22	2 21	3 5	23 39	1 35	24 30	1 42	0 58	1 34	6 8	2 15	19 15	0 5	21 7	1 15	23 47	16 34	0 53	0 20	14 59			n.a.
F 3	14 19	9 39	1 39	2 54	3 1	23 52	1 37	24 25	1 42	0 56	1 34	6 6	2 16	19 15	0 5	21 7	1 15	23 47	16 34	0 52	0 19	14 56			n.a.
S 4	14 38	15 54	2 48	3 29	2 56	24 4	1 39	24 20	1 41	0 54	1 34	6 4	2 16	19 16	0 5	21 7	1 15	23 47	16 34	0 51	0 18	14 53			n.a.
S 5	14 56	21 13	3 46	4 6	2 51	24 15	1 41	24 15	1 40	0 52	1 34	6 2	2 16	19 17	0 5	21 6	1 15	23 47	16 35	0 49	0 17	14 50			n.a.
M 6	15 14	25 17	4 30	4 44	2 45	24 26	1 43	24 10	1 39	0 50	1 33	6 0	2 16	19 18	0 5	21 6	1 15	23 47	16 35	0 47	0 15	14 47			n.a.
T 7	15 32	27 52	4 58	5 23	2 38	24 36	1 44	24 5	1 39	0 49	1 33	5 58	2 16	19 19	0 5	21 6	1 15	23 47	16 35	0 44	0 14	14 44			n.a.
W 8	15 50	28 52	5 9	6 4	2 31	24 46	1 46	24 0	1 38	0 47	1 33	5 56	2 17	19 20	0 5	21 6	1 15	23 47	16 36	0 42	0 13	14 41			n.a.
T 9	16 8	28 18	5 5	6 45	2 24	24 54	1 48	23 54	1 37	0 45	1 33	5 53	2 17	19 20	0 5	21 6	1 15	23 47	16 36	0 39	0 11	14 38			n.a.
F 10	16 25	26 21	4 47	7 28	2 16	25 2	1 49	23 49	1 36	0 44	1 32	5 51	2 17	19 21	0 5	21 5	1 15	23 47	16 36	0 38	0 10	14 34			n.a.
S 11	16 42	23 13	4 17	8 12	2 7	25 10	1 51	23 43	1 36	0 42	1 32	5 49	2 17	19 22	0 5	21 5	1 15	23 47	16 37	0 37	0 9	14 31			n.a.
S 12	16 58	19 9	3 35	8 57	1 59	25 16	1 52	23 37	1 35	0 41	1 32	5 48	2 17	19 23	0 5	21 5	1 15	23 47	16 37	0 37	0 8	14 28			n.a.
M13	17 15	14 22	2 45	9 43	1 49	25 22	1 53	23 31	1 34	0 39	1 32	5 46	2 18	19 24	0 5	21 5	1 15	23 47	16 37	0 37	0 6	14 25			n.a.
T 14	17 31	9 4	1 48	10 29	1 39	25 27	1 54	23 25	1 33	0 38	1 31	5 44	2 18	19 25	0 5	21 5	1 15	23 48	16 38	0 38	0 5	14 22			n.a.
W15	17 47	3 25	0 45	11 16	1 29	25 32	1 56	23 18	1 33	0 37	1 31	5 42	2 18	19 26	0 5	21 4	1 15	23 48	16 38	0 38	0 4	14 19			n.a.
T 16	18 2	2s26	0s20	12 4	1 19	25 35	1 57	23 12	1 32	0 35	1 31	5 40	2 18	19 26	0 5	21 4	1 15	23 48	16 38	0 38	0 2	14 16			n.a.
F 17	18 18	8 18	1 25	12 52	1 8	25 38	1 58	23 5	1 31	0 34	1 31	5 38	2 19	19 27	0 5	21 4	1 15	23 48	16 39	0 38	0 1	14 13			n.a.
S 18	18 33	13 59	2 28	13 40	0 58	25 41	1 59	22 58	1 30	0 33	1 30	5 36	2 19	19 28	0 5	21 4	1 15	23 48	16 39	0 36	0s 0	14 10			n.a.
S 19	18 47	19 12	3 24	14 28	0 47	25 42	1 59	22 51	1 30	0 32	1 30	5 35	2 19	19 29	0 5	21 3	1 15	23 48	16 39	0 34	0 1	14 7			n.a.
M20	19 2	23 37	4 11	15 16	0 35	25 43	2 0	22 44	1 29	0 31	1 30	5 33	2 19	19 30	0 5	21 3	1 15	23 48	16 40	0 31	0 3	14 4			n.a.
T 21	19 16	26 52	4 45	16 4	0 24	25 43	2 1	22 37	1 28	0 30	1 29	5 31	2 20	19 31	0 5	21 3	1 15	23 48	16 40	0 28	0 4	14 0			n.a.
W22	19 30	28 36	5 3	16 51	0 13	25 42	2 1	22 30	1 28	0 30	1 29	5 30	2 20	19 31	0 5	21 3	1 15	23 48	16 40	0 24	0 5	13 57			n.a.
T 23	19 43	28 33	5 3	17 37	0 2	25 41	2 2	22 22	1 27	0 29	1 29	5 28	2 20	19 32	0 5	21 3	1 15	23 49	16 41	0 21	0 6	13 54			n.a.
F 24	19 56	26 40	4 46	18 22	0n 9	25 39	2 2	22 15	1 26	0 28	1 29	5 26	2 20	19 33	0 5	21 2	1 15	23 49	16 41	0 18	0 8	13 51			n.a.
S 25	20 9	23 6	4 10	19 6	0 19	25 36	2 3	22 7	1 25	0 28	1 28	5 25	2 20	19 34	0 5	21 2	1 15	23 49	16 42	0 16	0 9	13 48			n.a.
S 26	20 21	18 10	3 20	19 48	0 29	25 33	2 3	21 59	1 25	0 27	1 28	5 23	2 21	19 35	0 5	21 2	1 15	23 49	16 42	0 16	0 10	13 45			n.a.
M27	20 34	12 16	2 17	20 29	0 39	25 29	2 3	21 51	1 24	0 27	1 28	5 22	2 21	19 36	0 5	21 2	1 15	23 49	16 42	0 15	0 12	13 42			n.a.
T 28	20 45	5 44	1 6	21 7	0 49	25 24	2 3	21 43	1 23	0 27	1 27	5 20	2 21	19 37	0 5	21 1	1 15	23 49	16 43	0 16	0 13	13 39			n.a.
W29	20 57	1n 2	0n 9	21 44	0 58	25 18	2 3	21 34	1 23	0 26	1 27	5 19	2 21	19 37	0 5	21 1	1 15	23 50	16 43	0 16	0 14	13 36			n.a.
T 30	21 8	7 44	1 22	22 18	1 6	25 12	2 3	21 26	1 22	0 26	1 27	5 17	2 22	19 38	0 5	21 1	1 15	23 50	16 43	0 15	0 15	13 32			n.a.
F 31	21n19	14n 0	2n30	22n49	1n14	25n 5	2n 3	21n17	1n21	0s26	1n27	5s16	2s22	19n39	0s 5	21s 1	1n15	23s50	16s44	0n14	0s17	13n29			n.a.

Julian Day Number = 1665294.5, Delta T = 03h23m30s
Ecliptic obliquity = 23°42'59, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°11'19, Lahiri = - 6°04'19 Julian Calendar 1 May 154 BCE == Greg. Calendar 28 Apr. 154 BCE

The year -153 astronomical counting style corresponds to year 154 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 154 BCE
geocentric

JUNE 154 BCE (-153) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 22 16	5♊34'53	13♉56	8♊25	14♋26	2♌27	4°R21	22♓20	27♉ 8	10°R17	8♓36	0°R29	29♓15	1♍12	n.a.	S 1
S 2	16 26 12	6°32'01	27°31	10°34	15°35	3° 3	4♎20	22°24	27°12	10♐15	8°36	0♈21	29°12	1°19	n.a.	S 2
M 3	16 30 9	7°29'09	10♊52	12°42	16°44	3°38	4°20	22°28	27°15	10°14	8°37	0°11	29° 9	1°25	n.a.	M 3
T 4	16 34 5	8°26'17	23°58	14°48	17°53	4°13	4°20	22°32	27°19	10°12	8°37	29♓59	29° 6	1°32	n.a.	T 4
W 5	16 38 2	9°23'25	6♋46	16°53	19° 2	4°49	4°D20	22°35	27°23	10°11	8°37	29°48	29° 3	1°39	n.a.	W 5
T 6	16 41 58	10°20'33	19°18	18°57	20°11	5°24	4°20	22°39	27°26	10° 9	8°37	29°38	28°59	1°45	n.a.	T 6
F 7	16 45 55	11°17'41	1♌34	20°59	21°20	6° 0	4°20	22°42	27°30	10° 7	8°37	29°30	28°56	1°52	n.a.	F 7
S 8	16 49 51	12°14'49	13°37	22°59	22°29	6°36	4°20	22°45	27°33	10° 6	8°37	29°24	28°53	1°59	n.a.	S 8
S 9	16 53 48	13°11'57	25°31	24°57	23°37	7°11	4°21	22°48	27°36	10° 4	8°37	29°21	28°50	2° 5	n.a.	S 9
M10	16 57 45	14° 9'05	7♍20	26°54	24°46	7°47	4°22	22°51	27°40	10° 3	8°38	29°19	28°47	2°12	n.a.	M10
T 11	17 1 41	15° 6'13	19°10	28°49	25°54	8°23	4°23	22°54	27°43	10° 1	8°38	29°D19	28°44	2°18	n.a.	T 11
W12	17 5 38	16° 3'20	1♎ 6	0♋42	27° 3	8°59	4°24	22°57	27°47	9°59	8°R38	29°R19	28°40	2°25	n.a.	W12
T 13	17 9 34	17° 0'28	13°14	2°33	28°11	9°35	4°26	23° 0	27°50	9°58	8°38	29°19	28°37	2°32	n.a.	T 13
F 14	17 13 31	17°57'37	25°37	4°22	29°19	10°11	4°27	23° 3	27°54	9°56	8°38	29°16	28°34	2°38	n.a.	F 14
S 15	17 17 27	18°54'45	8♏21	6° 9	0♌27	10°47	4°29	23° 5	27°57	9°55	8°38	29°12	28°31	2°45	n.a.	S 15
S 16	17 21 24	19°51'54	21°27	7°55	1°34	11°24	4°31	23° 8	28° 0	9°53	8°37	29° 4	28°28	2°52	n.a.	S 16
M17	17 25 20	20°49'03	4♐57	9°38	2°42	12° 0	4°33	23°10	28° 4	9°51	8°37	28°55	28°25	2°58	n.a.	M17
T 18	17 29 17	21°46'12	18°49	11°20	3°50	12°36	4°35	23°13	28° 7	9°50	8°37	28°44	28°21	3° 5	n.a.	T 18
W19	17 33 14	22°43'22	2♑59	12°59	4°57	13°13	4°37	23°15	28°10	9°48	8°37	28°32	28°18	3°12	n.a.	W19
T 20	17 37 10	23°40'33	17°21	14°37	6° 4	13°49	4°40	23°17	28°14	9°47	8°37	28°21	28°15	3°18	n.a.	T 20
F 21	17 41 7	24°37'45	1♒50	16°13	7°11	14°26	4°43	23°19	28°17	9°45	8°37	28°12	28°12	3°25	n.a.	F 21
S 22	17 45 3	25°34'57	16°20	17°47	8°18	15° 3	4°46	23°21	28°20	9°44	8°37	28° 6	28° 9	3°32	n.a.	S 22
S 23	17 49 0	26°32'10	0♓45	19°19	9°25	15°39	4°49	23°23	28°24	9°42	8°36	28° 3	28° 5	3°38	n.a.	S 23
M24	17 52 56	27°29'24	15° 1	20°49	10°32	16°16	4°52	23°25	28°27	9°40	8°36	28° 1	28° 2	3°45	n.a.	M24
T 25	17 56 53	28°26'39	29° 7	22°18	11°38	16°53	4°56	23°26	28°30	9°39	8°36	28° 1	27°59	3°52	n.a.	T 25
W26	18 0 50	29°23'55	13♈ 3	23°44	12°45	17°30	4°59	23°28	28°33	9°37	8°36	28° 1	27°56	3°58	n.a.	W26
T 27	18 4 46	0♋21'13	26°47	25° 8	13°51	18° 7	5° 3	23°29	28°36	9°36	8°35	27°59	27°53	4° 5	n.a.	T 27
F 28	18 8 43	1°18'31	10♉21	26°31	14°57	18°44	5° 7	23°30	28°40	9°34	8°35	27°55	27°50	4°12	n.a.	F 28
S 29	18 12 39	2°15'51	23°44	27°51	16° 3	19°21	5°11	23°32	28°43	9°33	8°35	27°49	27°46	4°18	n.a.	S 29
S 30	18 16 36	3♋13'11	6♊56	29♋ 9	17♌ 8	19♌58	5♎15	23♓33	28♉46	9♐32	8♓34	27♓39	27♓43	4♍25	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n29	19n31	3n29	23n18	1n21	24n57	2n 2	21n 9	1n20	0s26	1n26	5s15	2s22	19n40	0s 5	21s 0	1n15	23s50	16s44	0n12	0s18	13n26		n.a.
S 2	21 39	23 58	4 15	23 44	1 28	24 49	2 2	21 0	1 20	0 26	1 26	5 14	2 23	19 41	0 5	21 0	1 15	23 51	16 45	0 9	0 19	13 23		n.a.
M 3	21 49	27 3	4 46	24 8	1 34	24 39	2 1	20 51	1 19	0 26	1 26	5 12	2 23	19 42	0 5	21 0	1 15	23 51	16 45	0 4	0 21	13 20		n.a.
T 4	21 58	28 35	5 1	24 29	1 39	24 30	2 1	20 42	1 18	0 26	1 25	5 11	2 23	19 42	0 5	21 0	1 15	23 51	16 45	0s 0	0 22	13 17		n.a.
W 5	22 7	28 32	5 0	24 46	1 43	24 19	2 0	20 32	1 18	0 26	1 25	5 10	2 23	19 43	0 5	21 0	1 15	23 51	16 46	0 5	0 23	13 14		n.a.
T 6	22 15	27 0	4 45	25 2	1 47	24 8	1 59	20 23	1 17	0 27	1 25	5 9	2 24	19 44	0 5	20 59	1 15	23 52	16 46	0 9	0 24	13 10		n.a.
F 7	22 24	24 13	4 17	25 14	1 50	23 57	1 58	20 13	1 16	0 27	1 24	5 8	2 24	19 45	0 5	20 59	1 15	23 52	16 46	0 12	0 26	13 7		n.a.
S 8	22 31	20 24	3 38	25 24	1 52	23 44	1 57	20 3	1 16	0 28	1 24	5 7	2 24	19 46	0 5	20 59	1 15	23 52	16 47	0 14	0 27	13 4		n.a.
S 9	22 39	15 49	2 49	25 31	1 54	23 31	1 56	19 54	1 15	0 28	1 24	5 6	2 24	19 46	0 5	20 59	1 15	23 53	16 47	0 16	0 28	13 1		n.a.
M10	22 46	10 40	1 54	25 36	1 55	23 18	1 55	19 44	1 14	0 29	1 24	5 5	2 25	19 47	0 5	20 58	1 15	23 53	16 48	0 16	0 29	12 58		n.a.
T 11	22 52	5 9	0 54	25 38	1 55	23 4	1 53	19 34	1 13	0 29	1 23	5 4	2 25	19 48	0 5	20 58	1 15	23 53	16 48	0 16	0 31	12 55		n.a.
W12	22 59	0s35	0s 9	25 38	1 55	22 49	1 52	19 23	1 13	0 30	1 23	5 3	2 25	19 49	0 5	20 58	1 15	23 54	16 48	0 16	0 32	12 51		n.a.
T 13	23 4	6 24	1 13	25 35	1 54	22 34	1 50	19 13	1 12	0 31	1 23	5 2	2 26	19 50	0 5	20 58	1 15	23 54	16 49	0 17	0 33	12 48		n.a.
F 14	23 10	12 6	2 15	25 31	1 52	22 18	1 48	19 2	1 11	0 32	1 22	5 1	2 26	19 50	0 5	20 58	1 15	23 54	16 49	0 18	0 35	12 45		n.a.
S 15	23 15	17 27	3 11	25 24	1 50	22 1	1 47	18 52	1 11	0 33	1 22	5 0	2 26	19 51	0 5	20 57	1 15	23 55	16 49	0 19	0 36	12 42		n.a.
S 16	23 19	22 10	3 59	25 16	1 47	21 44	1 45	18 41	1 10	0 34	1 22	5 0	2 26	19 52	0 5	20 57	1 15	23 55	16 50	0 22	0 37	12 39		n.a.
M17	23 24	25 52	4 35	25 6	1 44	21 27	1 43	18 30	1 9	0 35	1 21	4 59	2 27	19 53	0 5	20 57	1 15	23 55	16 50	0 26	0 38	12 36		n.a.
T 18	23 27	28 9	4 56	24 53	1 40	21 9	1 41	18 19	1 9	0 36	1 21	4 58	2 27	19 53	0 5	20 57	1 15	23 56	16 50	0 31	0 40	12 32		n.a.
W19	23 31	28 40	5 0	24 40	1 36	20 50	1 38	18 8	1 8	0 37	1 21	4 58	2 27	19 54	0 5	20 56	1 15	23 56	16 51	0 35	0 41	12 29		n.a.
T 20	23 34	27 16	4 44	24 25	1 31	20 31	1 36	17 57	1 7	0 39	1 21	4 57	2 28	19 55	0 5	20 56	1 15	23 56	16 51	0 40	0 42	12 26		n.a.
F 21	23 36	24 3	4 11	24 8	1 26	20 12	1 34	17 45	1 7	0 40	1 20	4 56	2 28	19 56	0 5	20 56	1 15	23 57	16 52	0 43	0 44	12 23		n.a.
S 22	23 38	19 19	3 21	23 50	1 20	19 52	1 31	17 34	1 6	0 42	1 20	4 56	2 28	19 56	0 5	20 56	1 15	23 57	16 52	0 46	0 45	12 20		n.a.
S 23	23 40	13 30	2 19	23 31	1 14	19 31	1 28	17 22	1 5	0 43	1 20	4 55	2 28	19 57	0 5	20 56	1 15	23 58	16 52	0 47	0 46	12 16		n.a.
M24	23 42	7 1	1 8	23 11	1 7	19 10	1 25	17 10	1 5	0 45	1 19	4 55	2 29	19 58	0 5	20 55	1 15	23 58	16 53	0 48	0 47	12 13		n.a.
T 25	23 42	0 16	0n 6	22 50	1 0	18 49	1 23	16 58	1 4	0 46	1 19	4 55	2 29	19 59	0 5	20 55	1 15	23 59	16 53	0 48	0 49	12 10		n.a.
W26	23 43	6n25	1 19	22 28	0 52	18 27	1 20	16 46	1 3	0 48	1 19	4 54	2 29	19 59	0 5	20 55	1 15	23 59	16 53	0 48	0 50	12 7		n.a.
T 27	23 43	12 42	2 26	22 5	0 44	18 5	1 16	16 34	1 3	0 50	1 19	4 54	2 30	20 0	0 5	20 55	1 15	23 59	16 54	0 49	0 51	12 4		n.a.
F 28	23 43	18 19	3 24	21 41	0 36	17 42	1 13	16 22	1 2	0 52	1 18	4 54	2 30	20 1	0 5	20 55	1 15	24 0	16 54	0 50	0 52	12 0		n.a.
S 29	23 42	22 57	4 9	21 17	0 27	17 19	1 10	16 9	1 1	0 54	1 18	4 54	2 30	20 1	0 5	20 54	1 15	24 0	16 54	0 53	0 54	11 57		n.a.
S 30	23n41	26n20	4n41	20n52	0n18	16n56	1n 6	15n57	1n 1	0s55	1n18	4s53	2s30	20n 2	0s 5	20s54	1n15	24s 1	16s55	0s57	0s55	11n54		n.a.

Julian Day Number = 1665325.5, Delta T = 03h23m29s
Ecliptic obliquity = 23°42'58, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°11'15, Lahiri = - 6°04'15 Julian Calendar 1 June 154 BCE == Greg. Calendar 29 May 154 BCE

The year -153 astronomical counting style corresponds to year 154 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 154 BCE
geocentric

JULY 154 BCE (-153) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 20 32	4♋10'33	19♊56	0♌25	18♌14	20♌36	5♎20	23♓34	28♉49	9°R30	8°R34	27°R28	27♓40	4♍32	n.a.	M 1
T 2	18 24 29	5° 7'56	2♋43	1°39	19°19	21°13	5°24	23°35	28°52	9♐29	8♓33	27♓15	27°37	4°38	n.a.	T 2
W 3	18 28 25	6° 5'20	15°17	2°51	20°24	21°50	5°29	23°35	28°55	9°27	8°33	27° 2	27°34	4°45	n.a.	W 3
T 4	18 32 22	7° 2'45	27°38	4° 0	21°29	22°28	5°34	23°36	28°58	9°26	8°33	26°50	27°31	4°52	n.a.	T 4
F 5	18 36 19	8° 0'10	9♌46	5° 7	22°34	23° 5	5°39	23°37	29° 1	9°25	8°32	26°41	27°27	4°58	n.a.	F 5
S 6	18 40 15	8°57'37	21°45	6°12	23°39	23°43	5°44	23°37	29° 4	9°23	8°32	26°33	27°24	5° 5	n.a.	S 6
S 7	18 44 12	9°55'04	3♍36	7°14	24°43	24°21	5°50	23°38	29° 7	9°22	8°31	26°29	27°21	5°12	n.a.	S 7
M 8	18 48 8	10°52'33	15°23	8°13	25°47	24°58	5°55	23°38	29°10	9°21	8°31	26°27	27°18	5°18	n.a.	M 8
T 9	18 52 5	11°50'02	27°11	9° 9	26°51	25°36	6° 1	23°38	29°12	9°19	8°30	26°D26	27°15	5°25	n.a.	T 9
W10	18 56 1	12°47'32	9♎ 6	10° 2	27°55	26°14	6° 7	23°R38	29°15	9°18	8°29	26°R27	27°11	5°32	n.a.	W10
T 11	18 59 58	13°45'04	21°12	10°52	28°58	26°52	6°13	23°38	29°18	9°17	8°29	26°26	27° 8	5°38	n.a.	T 11
F 12	19 3 54	14°42'36	3♏36	11°39	0♍ 2	27°30	6°19	23°38	29°21	9°15	8°28	26°25	27° 5	5°45	n.a.	F 12
S 13	19 7 51	15°40'09	16°21	12°22	1° 5	28° 8	6°25	23°38	29°23	9°14	8°28	26°21	27° 2	5°52	n.a.	S 13
S 14	19 11 48	16°37'44	29°31	13° 2	2° 7	28°46	6°31	23°37	29°26	9°13	8°27	26°15	26°59	5°58	n.a.	S 14
M15	19 15 44	17°35'19	13♐ 9	13°38	3°10	29°25	6°38	23°37	29°29	9°12	8°26	26° 7	26°56	6° 5	n.a.	M15
T 16	19 19 41	18°32'56	27°13	14°10	4°12	0♍ 3	6°45	23°36	29°31	9°11	8°26	25°57	26°52	6°12	n.a.	T 16
W17	19 23 37	19°30'34	11♑40	14°37	5°14	0°41	6°51	23°35	29°34	9° 9	8°25	25°47	26°49	6°18	n.a.	W17
T 18	19 27 34	20°28'14	26°24	15° 0	6°16	1°20	6°58	23°35	29°37	9° 8	8°24	25°38	26°46	6°25	n.a.	T 18
F 19	19 31 30	21°25'55	11♒16	15°19	7°17	1°58	7° 6	23°34	29°39	9° 7	8°23	25°30	26°43	6°32	n.a.	F 19
S 20	19 35 27	22°23'37	26° 9	15°32	8°18	2°37	7°13	23°33	29°42	9° 6	8°23	25°25	26°40	6°38	n.a.	S 20
S 21	19 39 24	23°21'21	10♓55	15°40	9°19	3°15	7°20	23°32	29°44	9° 5	8°22	25°22	26°37	6°45	n.a.	S 21
M22	19 43 20	24°19'07	25°27	15°R43	10°19	3°54	7°28	23°31	29°46	9° 4	8°21	25°D21	26°33	6°51	n.a.	M22
T 23	19 47 17	25°16'54	9♈42	15°40	11°19	4°33	7°35	23°29	29°49	9° 3	8°20	25°22	26°30	6°58	n.a.	T 23
W24	19 51 13	26°14'44	23°40	15°32	12°19	5°11	7°43	23°28	29°51	9° 2	8°20	25°R22	26°27	7° 5	n.a.	W24
T 25	19 55 10	27°12'35	7♉19	15°17	13°18	5°50	7°51	23°26	29°53	9° 1	8°19	25°22	26°24	7°11	n.a.	T 25
F 26	19 59 6	28°10'29	20°42	14°57	14°17	6°29	7°59	23°25	29°56	9° 0	8°18	25°19	26°21	7°18	n.a.	F 26
S 27	20 3 3	29° 8'24	3♊49	14°31	15°16	7° 8	8° 7	23°23	29°58	8°59	8°17	25°15	26°17	7°25	n.a.	S 27
S 28	20 6 59	0♌ 6'21	16°43	13°59	16°14	7°47	8°15	23°21	0♊ 0	8°58	8°16	25° 8	26°14	7°31	n.a.	S 28
M29	20 10 56	1° 4'20	29°24	13°22	17°12	8°26	8°24	23°19	0° 2	8°58	8°15	24°59	26°11	7°38	n.a.	M29
T 30	20 14 53	2° 2'21	11♋53	12°39	18° 9	9° 5	8°32	23°17	0° 4	8°57	8°14	24°50	26° 8	7°45	n.a.	T 30
W31	20 18 49	3♌ 0'24	24♋11	11♌52	19♍ 6	9♍45	8♎41	23♓15	0♊ 6	8♐56	8♓13	24♓40	26♓ 5	7♍51	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	23n39	28n17	4n58	20n27	0n 9	16n32	1n 3	15n44	1n 0	0s58	1n17	4s53	2s31	20n 3	0s 5	20s54	1n15	24s 1	16s55	1s 1	0s56	11n51			n.a.
T 2	23 37	28 40	4 59	20 1	0s 0	16 8	0 59	15 31	0 59	1 0	1 17	4 53	2 31	20 4	0 5	20 54	1 15	24 2	16 55	1 6	0 58	11 47			n.a.
W 3	23 34	27 33	4 45	19 35	0 10	15 44	0 55	15 19	0 58	1 2	1 17	4 53	2 31	20 4	0 5	20 54	1 15	24 2	16 56	1 12	0 59	11 44			n.a.
T 4	23 32	25 6	4 19	19 9	0 20	15 19	0 51	15 6	0 58	1 4	1 17	4 53	2 32	20 5	0 5	20 53	1 15	24 3	16 56	1 16	1 0	11 41			n.a.
F 5	23 28	21 32	3 41	18 42	0 31	14 54	0 47	14 53	0 57	1 6	1 16	4 53	2 32	20 6	0 5	20 53	1 15	24 3	16 56	1 20	1 1	11 38			n.a.
S 6	23 25	17 9	2 53	18 16	0 42	14 28	0 43	14 39	0 56	1 9	1 16	4 53	2 32	20 6	0 5	20 53	1 15	24 4	16 57	1 23	1 3	11 34			n.a.
S 7	23 20	12 8	1 58	17 50	0 52	14 3	0 39	14 26	0 56	1 11	1 16	4 53	2 33	20 7	0 5	20 53	1 15	24 4	16 57	1 25	1 4	11 31			n.a.
M 8	23 16	6 43	0 58	17 24	1 4	13 37	0 35	14 13	0 55	1 13	1 15	4 54	2 33	20 7	0 5	20 53	1 15	24 5	16 57	1 26	1 5	11 28			n.a.
T 9	23 11	1 4	0s 4	16 58	1 15	13 10	0 30	13 59	0 54	1 16	1 15	4 54	2 33	20 8	0 5	20 53	1 14	24 5	16 58	1 26	1 6	11 25			n.a.
W10	23 6	4s40	1 7	16 33	1 26	12 44	0 26	13 45	0 54	1 19	1 15	4 54	2 33	20 9	0 5	20 52	1 14	24 6	16 58	1 26	1 8	11 22			n.a.
T 11	23 0	10 20	2 8	16 8	1 38	12 17	0 21	13 32	0 53	1 21	1 15	4 54	2 34	20 9	0 5	20 52	1 14	24 6	16 58	1 26	1 9	11 18			n.a.
F 12	22 54	15 44	3 4	15 44	1 49	11 50	0 16	13 18	0 52	1 24	1 14	4 55	2 34	20 10	0 5	20 52	1 14	24 7	16 59	1 26	1 10	11 15			n.a.
S 13	22 47	20 38	3 53	15 21	2 1	11 23	0 11	13 4	0 52	1 27	1 14	4 55	2 34	20 11	0 5	20 52	1 14	24 7	16 59	1 28	1 12	11 12			n.a.
S 14	22 40	24 41	4 31	14 58	2 13	10 56	0 6	12 50	0 51	1 29	1 14	4 55	2 35	20 11	0 5	20 52	1 14	24 8	16 59	1 30	1 13	11 9			n.a.
M15	22 33	27 31	4 55	14 37	2 25	10 29	0 1	12 36	0 50	1 32	1 14	4 56	2 35	20 12	0 5	20 52	1 14	24 8	17 0	1 34	1 14	11 5			n.a.
T 16	22 25	28 44	5 3	14 17	2 36	10 1	0s 4	12 22	0 50	1 35	1 13	4 56	2 35	20 12	0 5	20 52	1 14	24 9	17 0	1 37	1 15	11 2			n.a.
W17	22 17	28 2	4 52	13 58	2 48	9 33	0 10	12 7	0 49	1 38	1 13	4 57	2 36	20 13	0 5	20 51	1 14	24 9	17 0	1 42	1 17	10 59			n.a.
T 18	22 8	25 23	4 21	13 40	2 59	9 5	0 15	11 53	0 48	1 41	1 13	4 57	2 36	20 13	0 5	20 51	1 14	24 10	17 1	1 45	1 18	10 55			n.a.
F 19	21 59	20 59	3 32	13 24	3 11	8 37	0 21	11 38	0 48	1 44	1 13	4 58	2 36	20 14	0 5	20 51	1 14	24 11	17 1	1 48	1 19	10 52			n.a.
S 20	21 50	15 17	2 29	13 10	3 21	8 9	0 26	11 24	0 47	1 47	1 12	4 59	2 36	20 15	0 5	20 51	1 14	24 11	17 1	1 51	1 21	10 49			n.a.
S 21	21 40	8 44	1 16	12 57	3 32	7 41	0 32	11 9	0 46	1 51	1 12	4 59	2 37	20 15	0 5	20 51	1 14	24 12	17 1	1 52	1 22	10 46			n.a.
M22	21 30	1 49	0n 1	12 47	3 42	7 12	0 38	10 54	0 46	1 54	1 12	5 0	2 37	20 16	0 5	20 51	1 14	24 12	17 2	1 52	1 23	10 42			n.a.
T 23	21 20	5n 3	1 16	12 39	3 51	6 44	0 44	10 39	0 45	1 57	1 12	5 1	2 37	20 16	0 5	20 51	1 14	24 13	17 2	1 52	1 24	10 39			n.a.
W24	21 9	11 32	2 25	12 33	4 0	6 15	0 50	10 24	0 44	2 0	1 11	5 2	2 37	20 17	0 5	20 51	1 14	24 13	17 2	1 52	1 26	10 36			n.a.
T 25	20 58	17 20	3 25	12 29	4 8	5 47	0 56	10 9	0 44	2 4	1 11	5 3	2 38	20 17	0 5	20 50	1 14	24 14	17 2	1 52	1 27	10 33			n.a.
F 26	20 46	22 11	4 12	12 29	4 15	5 18	1 2	9 54	0 43	2 7	1 11	5 4	2 38	20 18	0 5	20 50	1 14	24 14	17 3	1 53	1 28	10 29			n.a.
S 27	20 34	25 49	4 45	12 31	4 20	4 49	1 8	9 39	0 42	2 11	1 11	5 4	2 38	20 18	0 5	20 50	1 14	24 15	17 3	1 55	1 29	10 26			n.a.
S 28	20 22	28 3	5 2	12 36	4 25	4 21	1 15	9 23	0 42	2 14	1 10	5 5	2 39	20 19	0 5	20 50	1 14	24 16	17 3	1 57	1 31	10 23			n.a.
M29	20 9	28 48	5 5	12 43	4 28	3 52	1 21	9 8	0 41	2 18	1 10	5 6	2 39	20 19	0 5	20 50	1 14	24 16	17 3	2 1	1 32	10 19			n.a.
T 30	19 56	28 2	4 52	12 54	4 29	3 23	1 28	8 52	0 40	2 21	1 10	5 7	2 39	20 19	0 5	20 50	1 14	24 17	17 4	2 5	1 33	10 16			n.a.
W31	19n43	25n54	4n27	13n 7	4s29	2n55	1s35	8n37	0n40	2s25	1n10	5s 9	2s39	20n20	0s 5	20s50	1n14	24s17	17s 4	2s 9	1s35	10n13			n.a.

Julian Day Number = 1665355.5, Delta T = 03h23m28s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°11'11, Lahiri = - 6°04'11 Julian Calendar 1 July 154 BCE == Greg. Calendar 28 June 154 BCE

The year -153 astronomical counting style corresponds to year 154 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 154 BCE
geocentric

AUGUST 154 BCE (-153) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 22 46	3♌58'29	6♌20	11°R 1	20♍ 3	10♍24	8♎49	23°R13	0♊ 8	8°R55	8°R12	24°R31	26♓ 2	7♍58	n.a.	T 1
F 2	20 26 42	4°56'35	18°19	10♌ 7	20°59	11° 3	8°58	23♓11	0°10	8♐55	8♓12	24♓24	25°58	8° 5	n.a.	F 2
S 3	20 30 39	5°54'43	0♍12	9°11	21°55	11°43	9° 7	23° 8	0°12	8°54	8°11	24°19	25°55	8°11	n.a.	S 3
S 4	20 34 35	6°52'52	12° 0	8°13	22°50	12°22	9°16	23° 6	0°14	8°53	8°10	24°16	25°52	8°18	n.a.	S 4
M 5	20 38 32	7°51'03	23°46	7°16	23°44	13° 2	9°25	23° 3	0°16	8°53	8° 9	24°D15	25°49	8°25	n.a.	M 5
T 6	20 42 28	8°49'16	5♎34	6°20	24°39	13°42	9°35	23° 1	0°18	8°52	8° 8	24°15	25°46	8°31	n.a.	T 6
W 7	20 46 25	9°47'31	17°28	5°27	25°32	14°21	9°44	22°58	0°20	8°51	8° 7	24°17	25°43	8°38	n.a.	W 7
T 8	20 50 21	10°45'47	29°33	4°37	26°25	15° 1	9°53	22°55	0°21	8°51	8° 6	24°18	25°39	8°45	n.a.	T 8
F 9	20 54 18	11°44'05	11♏54	3°53	27°17	15°41	10° 3	22°52	0°23	8°50	8° 5	24°R19	25°36	8°51	n.a.	F 9
S 10	20 58 15	12°42'24	24°36	3°15	28° 9	16°21	10°13	22°49	0°24	8°50	8° 3	24°18	25°33	8°58	n.a.	S 10
S 11	21 2 11	13°40'46	7♐43	2°43	29° 0	17° 1	10°23	22°46	0°26	8°49	8° 2	24°16	25°30	9° 5	n.a.	S 11
M12	21 6 8	14°39'08	21°18	2°20	29°51	17°41	10°32	22°43	0°28	8°49	8° 1	24°12	25°27	9°11	n.a.	M12
T 13	21 10 4	15°37'33	5♑22	2° 5	0♎40	18°21	10°42	22°40	0°29	8°48	8° 0	24° 6	25°23	9°18	n.a.	T 13
W14	21 14 1	16°36'00	19°52	1°D59	1°29	19° 1	10°53	22°36	0°30	8°48	7°59	24° 1	25°20	9°25	n.a.	W14
T 15	21 17 57	17°34'28	4♒44	2° 3	2°18	19°41	11° 3	22°33	0°32	8°48	7°58	23°55	25°17	9°31	n.a.	T 15
F 16	21 21 54	18°32'58	19°50	2°15	3° 5	20°21	11°13	22°29	0°33	8°47	7°57	23°51	25°14	9°38	n.a.	F 16
S 17	21 25 50	19°31'30	5♓ 0	2°37	3°52	21° 2	11°23	22°26	0°34	8°47	7°56	23°48	25°11	9°44	n.a.	S 17
S 18	21 29 47	20°30'04	20° 5	3° 8	4°38	21°42	11°34	22°22	0°36	8°47	7°55	23°D47	25° 8	9°51	n.a.	S 18
M19	21 33 44	21°28'40	4♈56	3°48	5°23	22°22	11°44	22°18	0°37	8°47	7°54	23°47	25° 4	9°58	n.a.	M19
T 20	21 37 40	22°27'19	19°28	4°36	6° 7	23° 3	11°55	22°15	0°38	8°46	7°53	23°48	25° 1	10° 4	n.a.	T 20
W21	21 41 37	23°26'00	3♉37	5°33	6°50	23°44	12° 6	22°11	0°39	8°46	7°51	23°50	24°58	10°11	n.a.	W21
T 22	21 45 33	24°24'43	17°22	6°36	7°32	24°24	12°16	22° 7	0°40	8°46	7°50	23°51	24°55	10°18	n.a.	T 22
F 23	21 49 30	25°23'29	0♊44	7°47	8°13	25° 5	12°27	22° 3	0°41	8°46	7°49	23°R51	24°52	10°24	n.a.	F 23
S 24	21 53 26	26°22'17	13°45	9° 3	8°53	25°46	12°38	21°59	0°42	8°46	7°48	23°50	24°49	10°31	n.a.	S 24
S 25	21 57 23	27°21'08	26°28	10°25	9°32	26°26	12°49	21°55	0°43	8°D46	7°47	23°47	24°45	10°38	n.a.	S 25
M26	22 1 19	28°20'00	8♋56	11°52	10°10	27° 7	13° 1	21°51	0°44	8°46	7°46	23°44	24°42	10°44	n.a.	M26
T 27	22 5 16	29°18'56	21°12	13°23	10°46	27°48	13°12	21°46	0°44	8°46	7°44	23°40	24°39	10°51	n.a.	T 27
W28	22 9 13	0♍17'53	3♌18	14°58	11°22	28°29	13°23	21°42	0°45	8°46	7°43	23°36	24°36	10°58	n.a.	W28
T 29	22 13 9	1°16'53	15°15	16°35	11°56	29°10	13°34	21°38	0°46	8°46	7°42	23°32	24°33	11° 4	n.a.	T 29
F 30	22 17 6	2°15'55	27° 8	18°16	12°29	29°52	13°46	21°34	0°46	8°46	7°41	23°29	24°29	11°11	n.a.	F 30
S 31	22 21 2	3♍14'59	8♍56	19♌58	13♎ 0	0♎33	13♎57	21♓29	0♊47	8♐47	7♓40	23♓28	24♓26	11♍18	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	19n29	22n36	3n49	13n23	4s27	2n26	1s41	8n21	0n39	2s28	1n 9	5s10	2s40	20n20	0s 5	20s50	1n14	24s18	17s 4	2s12	1s36	10n10			n.a.
F 2	19 15	18 23	3 1	13 42	4 23	1 58	1 48	8 6	0 38	2 32	1 9	5 11	2 40	20 21	0 5	20 50	1 14	24 18	17 4	2 15	1 37	10 6			n.a.
S 3	19 1	13 30	2 6	14 2	4 17	1 29	1 55	7 50	0 38	2 36	1 9	5 12	2 40	20 21	0 5	20 50	1 13	24 19	17 5	2 17	1 38	10 3			n.a.
S 4	18 46	8 9	1 6	14 25	4 9	1 1	2 2	7 34	0 37	2 40	1 9	5 13	2 40	20 22	0 5	20 50	1 13	24 20	17 5	2 18	1 40	10 0			n.a.
M 5	18 31	2 33	0 3	14 49	3 59	0 32	2 9	7 18	0 36	2 44	1 9	5 14	2 41	20 22	0 5	20 50	1 13	24 20	17 5	2 19	1 41	9 56			n.a.
T 6	18 16	3s10	1s 1	15 14	3 47	0 4	2 17	7 2	0 36	2 47	1 8	5 16	2 41	20 22	0 5	20 50	1 13	24 21	17 5	2 18	1 42	9 53			n.a.
W 7	18 0	8 49	2 3	15 40	3 34	0s24	2 24	6 46	0 35	2 51	1 8	5 17	2 41	20 23	0 5	20 50	1 13	24 21	17 5	2 18	1 43	9 50			n.a.
T 8	17 44	14 14	3 0	16 7	3 19	0 52	2 31	6 30	0 34	2 55	1 8	5 18	2 41	20 23	0 5	20 49	1 13	24 22	17 6	2 17	1 45	9 46			n.a.
F 9	17 28	19 13	3 50	16 33	3 3	1 20	2 39	6 13	0 34	2 59	1 8	5 20	2 42	20 24	0 5	20 49	1 13	24 22	17 6	2 17	1 46	9 43			n.a.
S 10	17 11	23 30	4 30	16 59	2 45	1 47	2 46	5 57	0 33	3 3	1 8	5 21	2 42	20 24	0 5	20 49	1 13	24 23	17 6	2 17	1 47	9 40			n.a.
S 11	16 55	26 45	4 58	17 23	2 27	2 15	2 54	5 41	0 32	3 7	1 7	5 23	2 42	20 24	0 5	20 49	1 13	24 24	17 6	2 18	1 49	9 36			n.a.
M12	16 38	28 35	5 10	17 47	2 9	2 42	3 1	5 24	0 32	3 12	1 7	5 24	2 42	20 25	0 5	20 49	1 13	24 24	17 6	2 20	1 50	9 33			n.a.
T 13	16 20	28 41	5 5	18 8	1 50	3 9	3 9	5 8	0 31	3 16	1 7	5 26	2 43	20 25	0 5	20 49	1 13	24 25	17 6	2 22	1 51	9 30			n.a.
W14	16 3	26 50	4 40	18 28	1 31	3 36	3 17	4 52	0 30	3 20	1 7	5 27	2 43	20 25	0 5	20 49	1 13	24 25	17 7	2 24	1 52	9 26			n.a.
T 15	15 45	23 7	3 56	18 46	1 12	4 3	3 24	4 35	0 30	3 24	1 7	5 29	2 43	20 25	0 5	20 49	1 13	24 26	17 7	2 26	1 54	9 23			n.a.
F 16	15 26	17 48	2 55	19 1	0 54	4 29	3 32	4 18	0 29	3 28	1 6	5 30	2 43	20 26	0 5	20 49	1 13	24 26	17 7	2 28	1 55	9 20			n.a.
S 17	15 8	11 21	1 41	19 13	0 36	4 55	3 40	4 2	0 28	3 33	1 6	5 32	2 43	20 26	0 5	20 49	1 13	24 27	17 7	2 29	1 56	9 16			n.a.
S 18	14 49	4 17	0 20	19 22	0 19	5 20	3 48	3 45	0 28	3 37	1 6	5 34	2 44	20 26	0 5	20 49	1 13	24 27	17 7	2 30	1 57	9 13			n.a.
M19	14 30	2n55	1n 1	19 29	0 3	5 46	3 56	3 28	0 27	3 41	1 6	5 35	2 44	20 27	0 5	20 49	1 13	24 28	17 7	2 30	1 59	9 10			n.a.
T 20	14 11	9 48	2 16	19 32	0n13	6 11	4 4	3 11	0 26	3 46	1 6	5 37	2 44	20 27	0 5	20 49	1 13	24 29	17 7	2 29	2 0	9 6			n.a.
W21	13 52	16 1	3 21	19 32	0 27	6 35	4 12	2 55	0 26	3 50	1 5	5 39	2 44	20 27	0 4	20 49	1 13	24 29	17 7	2 29	2 1	9 3			n.a.
T 22	13 32	21 15	4 13	19 29	0 40	7 0	4 20	2 38	0 25	3 54	1 5	5 40	2 44	20 27	0 4	20 49	1 13	24 30	17 7	2 28	2 3	9 0			n.a.
F 23	13 12	25 15	4 49	19 23	0 52	7 24	4 28	2 21	0 24	3 59	1 5	5 42	2 44	20 27	0 4	20 49	1 13	24 30	17 8	2 28	2 4	8 56			n.a.
S 24	12 52	27 50	5 9	19 13	1 3	7 47	4 36	2 4	0 24	4 3	1 5	5 44	2 45	20 28	0 4	20 50	1 12	24 31	17 8	2 29	2 5	8 53			n.a.
S 25	12 32	28 54	5 14	19 0	1 13	8 10	4 44	1 47	0 23	4 8	1 5	5 46	2 45	20 28	0 4	20 50	1 12	24 31	17 8	2 30	2 6	8 50			n.a.
M26	12 11	28 27	5 3	18 44	1 21	8 32	4 52	1 30	0 22	4 12	1 4	5 47	2 45	20 28	0 4	20 50	1 12	24 32	17 8	2 31	2 8	8 46			n.a.
T 27	11 51	26 37	4 39	18 25	1 29	8 54	5 1	1 13	0 22	4 17	1 4	5 49	2 45	20 28	0 4	20 50	1 12	24 32	17 8	2 33	2 9	8 43			n.a.
W28	11 30	23 34	4 2	18 3	1 35	9 16	5 9	0 56	0 21	4 22	1 4	5 51	2 45	20 28	0 4	20 50	1 12	24 33	17 8	2 34	2 10	8 40			n.a.
T 29	11 9	19 33	3 15	17 38	1 41	9 37	5 17	0 38	0 20	4 26	1 4	5 53	2 45	20 28	0 4	20 50	1 12	24 33	17 8	2 36	2 12	8 36			n.a.
F 30	10 47	14 48	2 20	17 11	1 45	9 57	5 25	0 21	0 20	4 31	1 4	5 55	2 46	20 29	0 4	20 50	1 12	24 34	17 8	2 37	2 13	8 33			n.a.
S 31	10n26	9n32	1n19	16n42	1n48	10s17	5s33	0n 4	0n19	4s35	1n 4	5s57	2s46	20n29	0s 4	20s50	1n12	24s34	17s 8	2s38	2s14	8n30			n.a.

Julian Day Number = 1665386.5, Delta T = 03h23m27s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°11'07, Lahiri = - 6°04'06 Julian Calendar 1 Aug. 154 BCE == Greg. Calendar 29 July 154 BCE

The year -153 astronomical counting style corresponds to year 154 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 154 BCE
geocentric

SEPTEMBER 154 BCE (-153) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 24 59	4♍14'04	20♍43	21♌42	13♎30	1♎14	14♎ 9	21°R25	0♊47	8♐47	7°R39	23°D27	24♓23	11♍24	n.a.	S 1
M 2	22 28 55	5°13'13	2♎30	23°27	13°59	1°56	14°21	21♓20	0°48	8°47	7♓37	23♓27	24°20	11°31	n.a.	M 2
T 3	22 32 52	6°12'23	14°21	25°14	14°26	2°37	14°32	21°16	0°48	8°47	7°36	23°28	24°17	11°37	n.a.	T 3
W 4	22 36 48	7°11'35	26°19	27° 0	14°51	3°18	14°44	21°11	0°49	8°48	7°35	23°29	24°14	11°44	n.a.	W 4
T 5	22 40 45	8°10'49	8♏27	28°48	15°15	4° 0	14°56	21° 6	0°49	8°48	7°34	23°31	24°10	11°51	n.a.	T 5
F 6	22 44 41	9°10'05	20°48	0♍35	15°36	4°42	15° 8	21° 2	0°49	8°48	7°33	23°32	24° 7	11°57	n.a.	F 6
S 7	22 48 38	10° 9'23	3♐28	2°22	15°56	5°23	15°20	20°57	0°49	8°49	7°31	23°33	24° 4	12° 4	n.a.	S 7
S 8	22 52 35	11° 8'43	16°29	4° 9	16°15	6° 5	15°32	20°52	0°49	8°49	7°30	23°R33	24° 1	12°11	n.a.	S 8
M 9	22 56 31	12° 8'04	29°56	5°56	16°31	6°47	15°44	20°48	0°50	8°50	7°29	23°32	23°58	12°17	n.a.	M 9
T 10	23 0 28	13° 7'28	13♑49	7°43	16°45	7°29	15°56	20°43	0°R50	8°50	7°28	23°31	23°54	12°24	n.a.	T 10
W11	23 4 24	14° 6'53	28°10	9°29	16°57	8°10	16° 8	20°38	0°50	8°51	7°27	23°30	23°51	12°31	n.a.	W11
T 12	23 8 21	15° 6'21	12♒54	11°14	17° 7	8°52	16°21	20°33	0°50	8°51	7°26	23°29	23°48	12°37	n.a.	T 12
F 13	23 12 17	16° 5'50	27°56	12°59	17°15	9°34	16°33	20°29	0°49	8°52	7°24	23°28	23°45	12°44	n.a.	F 13
S 14	23 16 14	17° 5'21	13♓ 8	14°44	17°21	10°17	16°45	20°24	0°49	8°53	7°23	23°28	23°42	12°51	n.a.	S 14
S 15	23 20 10	18° 4'54	28°22	16°27	17°24	10°59	16°58	20°19	0°49	8°53	7°22	23°D28	23°39	12°57	n.a.	S 15
M16	23 24 7	19° 4'30	13♈26	18°10	17°R25	11°41	17°10	20°14	0°49	8°54	7°21	23°28	23°35	13° 4	n.a.	M16
T 17	23 28 4	20° 4'07	28°12	19°53	17°24	12°23	17°23	20° 9	0°48	8°55	7°20	23°28	23°32	13°11	n.a.	T 17
W18	23 32 0	21° 3'47	12♉35	21°34	17°20	13° 5	17°35	20° 5	0°48	8°56	7°19	23°29	23°29	13°17	n.a.	W18
T 19	23 35 57	22° 3'30	26°32	23°16	17°14	13°48	17°48	20° 0	0°48	8°56	7°17	23°29	23°26	13°24	n.a.	T 19
F 20	23 39 53	23° 3'15	10♊ 2	24°56	17° 5	14°30	18° 0	19°55	0°47	8°57	7°16	23°29	23°23	13°31	n.a.	F 20
S 21	23 43 50	24° 3'02	23° 6	26°36	16°54	15°13	18°13	19°50	0°46	8°58	7°15	23°29	23°20	13°37	n.a.	S 21
S 22	23 47 46	25° 2'52	5♋48	28°15	16°41	15°55	18°26	19°45	0°46	8°59	7°14	23°29	23°16	13°44	n.a.	S 22
M23	23 51 43	26° 2'44	18°11	29°54	16°25	16°38	18°39	19°41	0°45	9° 0	7°13	23°29	23°13	13°50	n.a.	M23
T 24	23 55 39	27° 2'38	0♌19	1♎32	16° 7	17°21	18°51	19°36	0°45	9° 1	7°12	23°29	23°10	13°57	n.a.	T 24
W25	23 59 36	28° 2'34	12°17	3° 9	15°47	18° 4	19° 4	19°31	0°44	9° 2	7°11	23°30	23° 7	14° 4	n.a.	W25
T 26	0 3 33	29° 2'33	24° 8	4°46	15°25	18°46	19°17	19°26	0°43	9° 3	7°10	23°30	23° 4	14°10	n.a.	T 26
F 27	0 7 29	0♎ 2'34	5♍56	6°22	15° 0	19°29	19°30	19°22	0°42	9° 4	7° 8	23°31	23° 0	14°17	n.a.	F 27
S 28	0 11 26	1° 2'37	17°43	7°58	14°34	20°12	19°43	19°17	0°41	9° 5	7° 7	23°R31	22°57	14°24	n.a.	S 28
S 29	0 15 22	2° 2'41	29°32	9°33	14° 5	20°55	19°56	19°12	0°40	9° 6	7° 6	23°31	22°54	14°30	n.a.	S 29
M30	0 19 19	3♎ 2'48	11♎25	11♎ 8	13♎35	21♎38	20♎ 9	19♓ 8	0♊39	9♐ 7	7♓ 5	23♓31	22♓51	14♍37	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	10n 4	3n57	0n15	16n11	1n51	10s36	5s41	0s13	0n18	4s40	1n 4	5s59	2s46	20n29	0s 4	20s50	1n12	24s35	17s 8	2s38	2s15	8n26		n.a.
M 2	9 42	1s46	0s50	15 37	1 52	10 55	5 48	0 30	0 18	4 45	1 3	6 1	2 46	20 29	0 4	20 50	1 12	24 35	17 8	2 38	2 17	8 23		n.a.
T 3	9 20	7 28	1 53	15 2	1 53	11 13	5 56	0 48	0 17	4 50	1 3	6 2	2 46	20 29	0 4	20 50	1 12	24 36	17 8	2 37	2 18	8 20		n.a.
W 4	8 58	12 56	2 52	14 25	1 53	11 30	6 4	1 5	0 16	4 54	1 3	6 4	2 46	20 29	0 4	20 50	1 12	24 36	17 8	2 37	2 19	8 16		n.a.
T 5	8 36	18 1	3 44	13 47	1 53	11 46	6 12	1 22	0 15	4 59	1 3	6 6	2 46	20 29	0 4	20 50	1 12	24 37	17 8	2 36	2 20	8 13		n.a.
F 6	8 13	22 27	4 27	13 8	1 51	12 1	6 19	1 40	0 15	5 4	1 3	6 8	2 46	20 29	0 4	20 51	1 12	24 37	17 8	2 36	2 22	8 10		n.a.
S 7	7 51	25 58	4 58	12 27	1 49	12 16	6 26	1 57	0 14	5 9	1 3	6 10	2 46	20 29	0 4	20 51	1 12	24 38	17 8	2 36	2 23	8 6		n.a.
S 8	7 28	28 14	5 15	11 45	1 47	12 30	6 33	2 14	0 13	5 13	1 2	6 12	2 46	20 29	0 4	20 51	1 12	24 38	17 8	2 36	2 24	8 3		n.a.
M 9	7 5	28 58	5 15	11 3	1 44	12 42	6 40	2 32	0 13	5 18	1 2	6 14	2 47	20 29	0 4	20 51	1 12	24 38	17 8	2 36	2 26	7 59		n.a.
T 10	6 42	27 55	4 58	10 20	1 41	12 54	6 47	2 49	0 12	5 23	1 2	6 16	2 47	20 29	0 4	20 51	1 12	24 39	17 8	2 36	2 27	7 56		n.a.
W11	6 19	25 2	4 21	9 36	1 37	13 5	6 54	3 6	0 11	5 28	1 2	6 18	2 47	20 29	0 4	20 51	1 12	24 39	17 8	2 37	2 28	7 53		n.a.
T 12	5 56	20 26	3 27	8 52	1 33	13 15	7 0	3 24	0 11	5 33	1 2	6 20	2 47	20 29	0 4	20 51	1 12	24 40	17 8	2 37	2 29	7 49		n.a.
F 13	5 33	14 28	2 17	8 7	1 29	13 23	7 6	3 41	0 10	5 38	1 2	6 22	2 47	20 29	0 4	20 51	1 11	24 40	17 8	2 37	2 31	7 46		n.a.
S 14	5 9	7 35	0 57	7 22	1 24	13 31	7 12	3 58	0 9	5 43	1 2	6 24	2 47	20 29	0 4	20 52	1 11	24 41	17 8	2 37	2 32	7 43		n.a.
S 15	4 46	0 15	0n27	6 37	1 19	13 37	7 17	4 15	0 9	5 48	1 1	6 26	2 47	20 29	0 4	20 52	1 11	24 41	17 8	2 37	2 33	7 39		n.a.
M16	4 22	7n 1	1 49	5 52	1 14	13 42	7 22	4 33	0 8	5 53	1 1	6 28	2 47	20 29	0 4	20 52	1 11	24 41	17 8	2 37	2 34	7 36		n.a.
T 17	3 59	13 47	3 1	5 6	1 9	13 45	7 26	4 50	0 7	5 57	1 1	6 30	2 47	20 29	0 4	20 52	1 11	24 42	17 8	2 37	2 36	7 32		n.a.
W18	3 35	19 36	4 1	4 20	1 3	13 48	7 31	5 7	0 7	6 2	1 1	6 32	2 47	20 29	0 4	20 52	1 11	24 42	17 8	2 37	2 37	7 29		n.a.
T 19	3 11	24 12	4 44	3 35	0 57	13 49	7 34	5 25	0 6	6 7	1 1	6 34	2 47	20 29	0 4	20 52	1 11	24 43	17 8	2 37	2 38	7 26		n.a.
F 20	2 47	27 18	5 9	2 49	0 51	13 48	7 37	5 42	0 5	6 12	1 1	6 36	2 47	20 29	0 4	20 53	1 11	24 43	17 7	2 37	2 39	7 22		n.a.
S 21	2 23	28 50	5 18	2 3	0 45	13 46	7 40	5 59	0 5	6 17	1 1	6 37	2 47	20 29	0 4	20 53	1 11	24 43	17 7	2 37	2 41	7 19		n.a.
S 22	1 59	28 46	5 11	1 18	0 39	13 43	7 42	6 16	0 4	6 22	1 1	6 39	2 47	20 29	0 4	20 53	1 11	24 44	17 7	2 37	2 42	7 15		n.a.
M23	1 35	27 14	4 49	0 32	0 32	13 38	7 43	6 33	0 3	6 27	1 1	6 41	2 47	20 28	0 4	20 53	1 11	24 44	17 7	2 37	2 43	7 12		n.a.
T 24	1 11	24 27	4 15	0s13	0 26	13 31	7 44	6 51	0 3	6 32	1 0	6 43	2 47	20 28	0 4	20 53	1 11	24 44	17 7	2 37	2 45	7 9		n.a.
W25	0 47	20 40	3 30	0 58	0 19	13 23	7 44	7 8	0 2	6 37	1 0	6 45	2 47	20 28	0 4	20 54	1 11	24 45	17 7	2 37	2 46	7 5		n.a.
T 26	0 23	16 5	2 36	1 43	0 13	13 14	7 43	7 25	0 2	6 42	1 0	6 47	2 47	20 28	0 4	20 54	1 11	24 45	17 7	2 36	2 47	7 2		n.a.
F 27	0s 1	10 56	1 36	2 28	0 6	13 3	7 41	7 42	0 1	6 47	1 0	6 49	2 47	20 28	0 4	20 54	1 11	24 45	17 7	2 36	2 48	6 59		n.a.
S 28	0 25	5 24	0 32	3 12	0s 0	12 50	7 39	7 59	0 0	6 53	1 0	6 50	2 47	20 28	0 4	20 54	1 11	24 45	17 6	2 36	2 50	6 55		n.a.
S 29	0 49	0s19	0s33	3 56	0 7	12 36	7 36	8 16	0s 0	6 58	1 0	6 52	2 47	20 27	0 4	20 54	1 11	24 46	17 6	2 36	2 51	6 52		n.a.
M30	1s13	6s 4	1s38	4s40	0s14	12s20	7s32	8s33	0s 1	7s 3	1n 0	6s54	2s47	20n27	0s 4	20s55	1n11	24s46	17s 6	2s36	2s52	6n48		n.a.

Julian Day Number = 1665417.5, Delta T = 03h23m27s
Ecliptic obliquity = 23°42'59, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°11'03, Lahiri = - 6°04'02 Julian Calendar 1 Sept. 154 BCE == Greg. Calendar 29 Aug. 154 BCE

The year -153 astronomical counting style corresponds to year 154 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 154 BCE
geocentric

OCTOBER 154 BCE (-153) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 23 15	4♎ 2'57	23♎24	12♎42	13°R 4	22♎21	20♎22	19°R 3	0°R38	9♐ 9	7°R 4	23°R30	22♓48	14♍44	n.a.	T 1
W 2	0 27 12	5° 3'08	5♏32	14°16	12♎31	23° 5	20°35	18♓59	0♊37	9°10	7♓ 3	23♓28	22°45	14°50	n.a.	W 2
T 3	0 31 8	6° 3'20	17°49	15°49	11°56	23°48	20°49	18°54	0°36	9°11	7° 2	23°26	22°41	14°57	n.a.	T 3
F 4	0 35 5	7° 3'34	0♐19	17°22	11°21	24°31	21° 2	18°50	0°35	9°12	7° 1	23°24	22°38	15° 4	n.a.	F 4
S 5	0 39 2	8° 3'50	13° 3	18°55	10°46	25°15	21°15	18°45	0°34	9°14	7° 0	23°23	22°35	15°10	n.a.	S 5
S 6	0 42 58	9° 4'08	26° 5	20°27	10°10	25°58	21°28	18°41	0°32	9°15	6°59	23°22	22°32	15°17	n.a.	S 6
M 7	0 46 55	10° 4'27	9♑25	21°59	9°33	26°42	21°41	18°36	0°31	9°16	6°58	23°D21	22°29	15°24	n.a.	M 7
T 8	0 50 51	11° 4'48	23° 7	23°30	8°57	27°25	21°55	18°32	0°30	9°18	6°57	23°22	22°26	15°30	n.a.	T 8
W 9	0 54 48	12° 5'10	7♒11	25° 1	8°21	28° 9	22° 8	18°28	0°28	9°19	6°56	23°23	22°22	15°37	n.a.	W 9
T 10	0 58 44	13° 5'34	21°37	26°31	7°45	28°52	22°21	18°24	0°27	9°20	6°55	23°24	22°19	15°43	n.a.	T 10
F 11	1 2 41	14° 5'59	6♓20	28° 1	7°10	29°36	22°34	18°20	0°25	9°22	6°54	23°25	22°16	15°50	n.a.	F 11
S 12	1 6 37	15° 6'26	21°18	29°31	6°36	0♏20	22°48	18°16	0°24	9°23	6°54	23°R26	22°13	15°57	n.a.	S 12
S 13	1 10 34	16° 6'54	6♈21	1♏ 0	6° 4	1° 4	23° 1	18°12	0°22	9°25	6°53	23°25	22°10	16° 3	n.a.	S 13
M14	1 14 30	17° 7'24	21°22	2°28	5°32	1°48	23°14	18° 8	0°20	9°26	6°52	23°24	22° 6	16°10	n.a.	M14
T 15	1 18 27	18° 7'55	6♉12	3°57	5° 3	2°31	23°28	18° 4	0°19	9°28	6°51	23°21	22° 3	16°17	n.a.	T 15
W16	1 22 24	19° 8'29	20°42	5°24	4°35	3°15	23°41	18° 0	0°17	9°30	6°50	23°17	22° 0	16°23	n.a.	W16
T 17	1 26 20	20° 9'04	4♊48	6°52	4° 9	4° 0	23°54	17°57	0°15	9°31	6°49	23°13	21°57	16°30	n.a.	T 17
F 18	1 30 17	21° 9'41	18°27	8°18	3°46	4°44	24° 8	17°53	0°13	9°33	6°49	23° 9	21°54	16°37	n.a.	F 18
S 19	1 34 13	22°10'20	1♋39	9°44	3°24	5°28	24°21	17°49	0°12	9°35	6°48	23° 6	21°51	16°43	n.a.	S 19
S 20	1 38 10	23°11'01	14°25	11°10	3° 5	6°12	24°35	17°46	0°10	9°36	6°47	23° 5	21°47	16°50	n.a.	S 20
M21	1 42 6	24°11'43	26°49	12°34	2°48	6°56	24°48	17°43	0° 8	9°38	6°46	23°D 4	21°44	16°57	n.a.	M21
T 22	1 46 3	25°12'28	8♌57	13°58	2°34	7°41	25° 1	17°39	0° 6	9°40	6°45	23° 5	21°41	17° 3	n.a.	T 22
W23	1 50 0	26°13'13	20°53	15°21	2°22	8°25	25°15	17°36	0° 4	9°41	6°45	23° 7	21°38	17°10	n.a.	W23
T 24	1 53 56	27°14'01	2♍41	16°43	2°13	9° 9	25°28	17°33	0° 2	9°43	6°44	23° 9	21°35	17°16	n.a.	T 24
F 25	1 57 53	28°14'50	14°27	18° 4	2° 6	9°54	25°42	17°30	29♑59	9°45	6°43	23°10	21°31	17°23	n.a.	F 25
S 26	2 1 49	29°15'41	26°16	19°23	2° 1	10°39	25°55	17°27	29°58	9°47	6°43	23°R10	21°28	17°30	n.a.	S 26
S 27	2 5 46	0♏16'33	8♎ 9	20°41	1°D59	11°23	26° 8	17°24	29°56	9°49	6°42	23° 9	21°25	17°36	n.a.	S 27
M28	2 9 42	1°17'27	20°10	21°57	2° 0	12° 8	26°22	17°21	29°53	9°50	6°41	23° 6	21°22	17°43	n.a.	M28
T 29	2 13 39	2°18'22	2♏22	23°11	2° 3	12°53	26°35	17°18	29°51	9°52	6°41	23° 1	21°19	17°50	n.a.	T 29
W30	2 17 35	3°19'18	14°45	24°23	2° 8	13°37	26°49	17°16	29°49	9°54	6°40	22°54	21°16	17°56	n.a.	W30
T 31	2 21 32	4♏20'15	27♏19	25♏32	2♎15	14♏22	27♎ 2	17♓13	29♑47	9♐56	6♓40	22♓46	21♓12	18♍ 3	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	1s38	11s38	2s38	5s23	0s21	12s 3	7s27	8s50	0s 2	7s 8	1n 0	6s56	2s47	20n27	0s 4	20s55	1n11	24s46	17s 6	2s37	2s53	6n45			n.a.
W 2	2 2	16 51	3 32	6 6	0 27	11 45	7 21	9 7	0 2	7 13	1 0	6 58	2 47	20 27	0 4	20 55	1 11	24 46	17 6	2 37	2 55	6 42			n.a.
T 3	2 26	21 27	4 18	6 49	0 34	11 25	7 15	9 23	0 3	7 18	0 59	6 59	2 46	20 27	0 4	20 55	1 11	24 47	17 6	2 38	2 56	6 38			n.a.
F 4	2 50	25 11	4 51	7 31	0 40	11 5	7 7	9 40	0 4	7 23	0 59	7 1	2 46	20 26	0 4	20 56	1 10	24 47	17 5	2 39	2 57	6 35			n.a.
S 5	3 14	27 46	5 11	8 13	0 47	10 43	6 59	9 57	0 4	7 28	0 59	7 3	2 46	20 26	0 4	20 56	1 10	24 47	17 5	2 39	2 59	6 31			n.a.
S 6	3 38	28 55	5 16	8 54	0 53	10 20	6 50	10 13	0 5	7 33	0 59	7 4	2 46	20 26	0 4	20 56	1 10	24 47	17 5	2 40	3 0	6 28			n.a.
M 7	4 2	28 26	5 4	9 35	1 0	9 56	6 40	10 30	0 6	7 38	0 59	7 6	2 46	20 26	0 4	20 56	1 10	24 48	17 5	2 40	3 1	6 24			n.a.
T 8	4 26	26 13	4 35	10 15	1 6	9 32	6 29	10 46	0 6	7 43	0 59	7 8	2 46	20 25	0 4	20 57	1 10	24 48	17 5	2 40	3 2	6 21			n.a.
W 9	4 50	22 22	3 49	10 54	1 12	9 7	6 18	11 3	0 7	7 48	0 59	7 9	2 46	20 25	0 4	20 57	1 10	24 48	17 4	2 40	3 4	6 18			n.a.
T 10	5 14	17 5	2 47	11 34	1 18	8 42	6 6	11 19	0 8	7 53	0 59	7 11	2 46	20 25	0 4	20 57	1 10	24 48	17 4	2 39	3 5	6 14			n.a.
F 11	5 37	10 44	1 33	12 12	1 24	8 16	5 53	11 35	0 8	7 58	0 59	7 12	2 46	20 24	0 4	20 57	1 10	24 48	17 4	2 39	3 6	6 11			n.a.
S 12	6 1	3 40	0 12	12 50	1 30	7 51	5 40	11 52	0 9	8 3	0 59	7 14	2 46	20 24	0 4	20 58	1 10	24 48	17 4	2 38	3 7	6 7			n.a.
S 13	6 25	3n38	1n11	13 27	1 36	7 25	5 27	12 8	0 10	8 8	0 59	7 15	2 45	20 24	0 4	20 58	1 10	24 49	17 4	2 38	3 9	6 4			n.a.
M14	6 48	10 42	2 28	14 3	1 41	7 0	5 12	12 24	0 10	8 14	0 59	7 16	2 45	20 23	0 4	20 58	1 10	24 49	17 3	2 39	3 10	6 1			n.a.
T 15	7 11	17 6	3 34	14 39	1 47	6 35	4 58	12 40	0 11	8 19	0 59	7 18	2 45	20 23	0 4	20 58	1 10	24 49	17 3	2 40	3 11	5 57			n.a.
W16	7 35	22 23	4 25	15 14	1 52	6 10	4 43	12 55	0 12	8 24	0 58	7 19	2 45	20 23	0 4	20 59	1 10	24 49	17 3	2 42	3 13	5 54			n.a.
T 17	7 58	26 13	4 58	15 48	1 57	5 46	4 28	13 11	0 12	8 29	0 58	7 21	2 45	20 22	0 4	20 59	1 10	24 49	17 3	2 43	3 14	5 50			n.a.
F 18	8 21	28 24	5 13	16 21	2 1	5 22	4 13	13 27	0 13	8 34	0 58	7 22	2 45	20 22	0 4	20 59	1 10	24 49	17 2	2 45	3 15	5 47			n.a.
S 19	8 44	28 53	5 10	16 53	2 6	5 0	3 58	13 42	0 14	8 39	0 58	7 23	2 45	20 22	0 4	21 0	1 10	24 49	17 2	2 46	3 16	5 43			n.a.
S 20	9 7	27 46	4 53	17 24	2 10	4 38	3 43	13 58	0 14	8 44	0 58	7 24	2 44	20 21	0 4	21 0	1 10	24 49	17 2	2 47	3 18	5 40			n.a.
M21	9 29	25 18	4 21	17 54	2 14	4 17	3 27	14 13	0 15	8 49	0 58	7 26	2 44	20 21	0 4	21 0	1 10	24 49	17 2	2 47	3 19	5 37			n.a.
T 22	9 52	21 44	3 39	18 24	2 17	3 58	3 12	14 28	0 15	8 54	0 58	7 27	2 44	20 20	0 4	21 0	1 10	24 49	17 1	2 47	3 20	5 33			n.a.
W23	10 14	17 21	2 48	18 52	2 20	3 39	2 57	14 44	0 16	8 59	0 58	7 28	2 44	20 20	0 4	21 1	1 10	24 49	17 1	2 46	3 21	5 30			n.a.
T 24	10 36	12 20	1 50	19 18	2 23	3 22	2 42	14 59	0 17	9 4	0 58	7 29	2 44	20 19	0 4	21 1	1 10	24 49	17 1	2 45	3 23	5 26			n.a.
F 25	10 58	6 55	0 48	19 44	2 25	3 5	2 27	15 14	0 17	9 9	0 58	7 30	2 43	20 19	0 4	21 1	1 10	24 49	17 0	2 45	3 24	5 23			n.a.
S 26	11 20	1 15	0s17	20 8	2 27	2 50	2 13	15 28	0 18	9 14	0 58	7 31	2 43	20 19	0 4	21 2	1 10	24 49	17 0	2 44	3 25	5 19			n.a.
S 27	11 42	4s30	1 21	20 31	2 29	2 36	1 58	15 43	0 19	9 19	0 58	7 32	2 43	20 18	0 4	21 2	1 10	24 49	17 0	2 45	3 26	5 16			n.a.
M28	12 3	10 9	2 22	20 52	2 29	2 24	1 44	15 57	0 19	9 24	0 58	7 33	2 43	20 18	0 4	21 2	1 10	24 49	17 0	2 46	3 28	5 13			n.a.
T 29	12 25	15 30	3 17	21 12	2 30	2 12	1 31	16 12	0 20	9 28	0 58	7 34	2 43	20 17	0 4	21 3	1 10	24 49	16 59	2 48	3 29	5 9			n.a.
W30	12 46	20 19	4 4	21 30	2 29	2 2	1 17	16 26	0 21	9 33	0 58	7 34	2 42	20 17	0 4	21 3	1 9	24 49	16 59	2 51	3 30	5 6			n.a.
T 31	13s 7	24s19	4s39	21s46	2s28	1s53	1s 4	16s40	0s21	9s38	0n58	7s35	2s42	20n16	0s 4	21s 3	1n 9	24s49	16s59	2s54	3s31	5n 2			n.a.

Julian Day Number = 1665447.5, Delta T = 03h23m26s
Ecliptic obliquity = 23°42'59, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'59, Lahiri = - 6°03'58 Julian Calendar 1 Oct. 154 BCE == Greg. Calendar 28 Sept. 154 BCE

The year -153 astronomical counting style corresponds to year 154 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 154 BCE
geocentric

NOVEMBER 154 BCE (-153) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 25 28	5♏21'14	10♐ 6	26♏39	2♎25	15♏ 7	27♎15	17°R11	29°R45	9♐58	6°R39	22°R38	21♓ 9	18♍10	n.a.	F 1
S 2	2 29 25	6°22'14	23° 6	27°41	2°37	15°52	27°29	17♓ 9	29♉42	10° 0	6♓39	22♓31	21° 6	18°16	n.a.	S 2
S 3	2 33 22	7°23'14	6♑18	28°40	2°52	16°37	27°42	17° 6	29°40	10° 2	6°38	22°25	21° 3	18°23	n.a.	S 3
M 4	2 37 18	8°24'15	19°43	29°35	3° 8	17°22	27°55	17° 4	29°38	10° 4	6°38	22°21	21° 0	18°30	n.a.	M 4
T 5	2 41 15	9°25'18	3♒22	0♐24	3°26	18° 7	28° 9	17° 2	29°35	10° 6	6°37	22°D20	20°57	18°36	n.a.	T 5
W 6	2 45 11	10°26'20	17°16	1° 8	3°46	18°52	28°22	17° 0	29°33	10° 8	6°37	22°20	20°53	18°43	n.a.	W 6
T 7	2 49 8	11°27'24	1♓23	1°45	4° 9	19°37	28°35	16°59	29°30	10°10	6°36	22°21	20°50	18°50	n.a.	T 7
F 8	2 53 4	12°28'28	15°44	2°14	4°33	20°23	28°49	16°57	29°28	10°12	6°36	22°R22	20°47	18°56	n.a.	F 8
S 9	2 57 1	13°29'32	0♈16	2°35	4°59	21° 8	29° 2	16°55	29°26	10°14	6°36	22°22	20°44	19° 3	n.a.	S 9
S 10	3 0 58	14°30'37	14°55	2°48	5°26	21°53	29°15	16°54	29°23	10°16	6°35	22°20	20°41	19° 9	n.a.	S 10
M11	3 4 54	15°31'43	29°36	2°R50	5°55	22°39	29°28	16°53	29°21	10°18	6°35	22°15	20°37	19°16	n.a.	M11
T 12	3 8 51	16°32'50	14♉11	2°41	6°26	23°24	29°41	16°51	29°18	10°21	6°35	22° 8	20°34	19°23	n.a.	T 12
W13	3 12 47	17°33'57	28°34	2°22	6°59	24° 9	29°54	16°50	29°16	10°23	6°34	21°59	20°31	19°29	n.a.	W13
T 14	3 16 44	18°35'06	12♊38	1°51	7°33	24°55	0♏ 8	16°49	29°13	10°25	6°34	21°49	20°28	19°36	n.a.	T 14
F 15	3 20 40	19°36'15	26°18	1° 8	8° 8	25°40	0°21	16°48	29°11	10°27	6°34	21°40	20°25	19°43	n.a.	F 15
S 16	3 24 37	20°37'25	9♋33	0°15	8°45	26°26	0°34	16°47	29° 8	10°29	6°34	21°31	20°22	19°49	n.a.	S 16
S 17	3 28 33	21°38'35	22°24	29♏11	9°23	27°12	0°47	16°47	29° 6	10°31	6°34	21°25	20°18	19°56	n.a.	S 17
M18	3 32 30	22°39'47	4♌52	27°59	10° 2	27°57	1° 0	16°46	29° 3	10°33	6°33	21°21	20°15	20° 3	n.a.	M18
T 19	3 36 27	23°40'59	17° 1	26°41	10°43	28°43	1°13	16°46	29° 1	10°36	6°33	21°19	20°12	20° 9	n.a.	T 19
W20	3 40 23	24°42'12	28°58	25°20	11°25	29°29	1°25	16°45	28°58	10°38	6°33	21°D19	20° 9	20°16	n.a.	W20
T 21	3 44 20	25°43'26	10♍47	23°57	12° 8	0♐15	1°38	16°45	28°55	10°40	6°33	21°19	20° 6	20°23	n.a.	T 21
F 22	3 48 16	26°44'40	22°34	22°36	12°52	1° 0	1°51	16°45	28°53	10°42	6°33	21°R19	20° 3	20°29	n.a.	F 22
S 23	3 52 13	27°45'55	4♎23	21°20	13°37	1°46	2° 4	16°D45	28°50	10°44	6°33	21°19	19°59	20°36	n.a.	S 23
S 24	3 56 9	28°47'10	16°21	20°10	14°23	2°32	2°17	16°45	28°48	10°47	6°D33	21°15	19°56	20°42	n.a.	S 24
M25	4 0 6	29°48'26	28°30	19° 9	15°10	3°18	2°29	16°45	28°45	10°49	6°33	21°10	19°53	20°49	n.a.	M25
T 26	4 4 2	0♐49'43	10♏53	18°17	15°58	4° 4	2°42	16°45	28°43	10°51	6°33	21° 1	19°50	20°56	n.a.	T 26
W27	4 7 59	1°50'59	23°32	17°36	16°47	4°50	2°55	16°46	28°40	10°53	6°33	20°50	19°47	21° 2	n.a.	W27
T 28	4 11 56	2°52'16	6♑27	17° 5	17°36	5°37	3° 7	16°46	28°37	10°56	6°33	20°37	19°43	21° 9	n.a.	T 28
F 29	4 15 52	3°53'33	19°38	16°45	18°27	6°23	3°20	16°47	28°35	10°58	6°33	20°24	19°40	21°16	n.a.	F 29
S 30	4 19 49	4♑54'51	3♑ 1	16♏35	19♎18	7♐ 9	3♏32	16♓48	28♉32	11♐ 0	6♓33	20♓12	19♓37	21♍22	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13s27	27s11	5s 1	22s 0	2s27	1s45	0s51	16s54	0s22	9s43	0n58	7s36	2s42	20n16	0s 4	21s 3	1n 9	24s49	16s58	2s57	3s33	4n59		n.a.
S 2	13 48	28 40	5 9	22 12	2 24	1 39	0 39	17 8	0 22	9 48	0 58	7 37	2 42	20 15	0 4	21 4	1 9	24 49	16 58	3 0	3 34	4 55		n.a.
S 3	14 8	28 33	5 0	22 23	2 20	1 33	0 27	17 22	0 23	9 53	0 58	7 37	2 42	20 15	0 4	21 4	1 9	24 49	16 58	3 2	3 35	4 52		n.a.
M 4	14 28	26 46	4 34	22 30	2 16	1 29	0 15	17 35	0 24	9 58	0 58	7 38	2 41	20 14	0 4	21 4	1 9	24 49	16 57	3 4	3 37	4 49		n.a.
T 5	14 48	23 24	3 53	22 36	2 10	1 26	0 4	17 49	0 24	10 3	0 57	7 39	2 41	20 14	0 4	21 5	1 9	24 49	16 57	3 5	3 38	4 45		n.a.
W 6	15 7	18 40	2 58	22 38	2 4	1 24	0n 8	18 2	0 25	10 7	0 57	7 39	2 41	20 13	0 4	21 5	1 9	24 48	16 57	3 5	3 39	4 42		n.a.
T 7	15 27	12 50	1 51	22 38	1 56	1 23	0 18	18 15	0 25	10 12	0 57	7 40	2 41	20 13	0 4	21 5	1 9	24 48	16 56	3 4	3 40	4 38		n.a.
F 8	15 46	6 14	0 36	22 35	1 47	1 23	0 29	18 28	0 26	10 17	0 57	7 40	2 40	20 12	0 4	21 6	1 9	24 48	16 56	3 4	3 42	4 35		n.a.
S 9	16 4	0n45	0n42	22 29	1 36	1 25	0 38	18 41	0 27	10 22	0 57	7 40	2 40	20 12	0 4	21 6	1 9	24 48	16 56	3 4	3 43	4 31		n.a.
S 10	16 23	7 45	1 58	22 20	1 24	1 27	0 48	18 53	0 27	10 26	0 57	7 41	2 40	20 11	0 4	21 6	1 9	24 48	16 55	3 5	3 44	4 28		n.a.
M11	16 41	14 21	3 6	22 7	1 11	1 30	0 57	19 6	0 28	10 31	0 57	7 41	2 40	20 11	0 4	21 7	1 9	24 48	16 55	3 7	3 45	4 24		n.a.
T 12	16 59	20 7	4 1	21 51	0 56	1 34	1 6	19 18	0 28	10 36	0 57	7 41	2 39	20 10	0 4	21 7	1 9	24 47	16 55	3 9	3 47	4 21		n.a.
W13	17 16	24 37	4 40	21 31	0 39	1 40	1 15	19 30	0 29	10 41	0 57	7 42	2 39	20 10	0 4	21 7	1 9	24 47	16 54	3 13	3 48	4 18		n.a.
T 14	17 33	27 33	5 1	21 7	0 22	1 46	1 23	19 42	0 30	10 45	0 57	7 42	2 39	20 9	0 4	21 8	1 9	24 47	16 54	3 17	3 49	4 14		n.a.
F 15	17 50	28 44	5 4	20 40	0 3	1 52	1 31	19 53	0 30	10 50	0 57	7 42	2 39	20 9	0 4	21 8	1 9	24 47	16 54	3 21	3 50	4 11		n.a.
S 16	18 7	28 12	4 50	20 9	0n17	2 0	1 38	20 5	0 31	10 54	0 57	7 42	2 38	20 8	0 4	21 8	1 9	24 46	16 53	3 24	3 52	4 7		n.a.
S 17	18 23	26 8	4 22	19 36	0 37	2 9	1 46	20 16	0 31	10 59	0 57	7 42	2 38	20 7	0 4	21 9	1 9	24 46	16 53	3 27	3 53	4 4		n.a.
M18	18 39	22 51	3 42	19 0	0 58	2 18	1 52	20 27	0 32	11 4	0 57	7 42	2 38	20 7	0 4	21 9	1 9	24 46	16 53	3 28	3 54	4 0		n.a.
T 19	18 55	18 39	2 53	18 23	1 18	2 28	1 59	20 38	0 33	11 8	0 57	7 42	2 38	20 6	0 4	21 9	1 9	24 46	16 52	3 29	3 56	3 57		n.a.
W20	19 10	13 47	1 57	17 45	1 37	2 39	2 5	20 49	0 33	11 13	0 57	7 42	2 37	20 6	0 4	21 10	1 9	24 45	16 52	3 29	3 57	3 53		n.a.
T 21	19 25	8 28	0 56	17 7	1 55	2 50	2 11	20 59	0 34	11 17	0 57	7 42	2 37	20 5	0 4	21 10	1 9	24 45	16 51	3 29	3 58	3 50		n.a.
F 22	19 39	2 53	0s 7	16 32	2 11	3 2	2 17	21 9	0 34	11 22	0 57	7 42	2 37	20 5	0 4	21 10	1 9	24 45	16 51	3 29	3 59	3 46		n.a.
S 23	19 53	2s49	1 9	15 58	2 25	3 15	2 22	21 19	0 35	11 26	0 57	7 41	2 37	20 4	0 4	21 11	1 9	24 44	16 51	3 29	4 1	3 43		n.a.
S 24	20 7	8 29	2 9	15 29	2 37	3 28	2 28	21 29	0 35	11 31	0 57	7 41	2 36	20 4	0 4	21 11	1 9	24 44	16 50	3 30	4 2	3 40		n.a.
M25	20 21	13 55	3 4	15 3	2 46	3 42	2 32	21 39	0 36	11 35	0 57	7 41	2 36	20 3	0 4	21 11	1 9	24 44	16 50	3 33	4 3	3 36		n.a.
T 26	20 34	18 55	3 51	14 42	2 53	3 56	2 37	21 48	0 37	11 39	0 57	7 41	2 36	20 2	0 4	21 12	1 9	24 44	16 50	3 36	4 4	3 33		n.a.
W27	20 46	23 12	4 28	14 26	2 58	4 11	2 41	21 57	0 37	11 44	0 57	7 40	2 36	20 2	0 4	21 12	1 9	24 43	16 49	3 41	4 6	3 29		n.a.
T 28	20 58	26 26	4 52	14 14	3 1	4 27	2 45	22 6	0 38	11 48	0 57	7 40	2 35	20 1	0 4	21 12	1 9	24 43	16 49	3 46	4 7	3 26		n.a.
F 29	21 10	28 18	5 1	14 8	3 2	4 43	2 49	22 15	0 38	11 52	0 57	7 39	2 35	20 1	0 4	21 13	1 9	24 42	16 49	3 51	4 8	3 22		n.a.
S 30	21s22	28s35	4s54	14s 6	3n 1	4s59	2n53	22s24	0s39	11s56	0n57	7s39	2s35	20n 0	0s 4	21s13	1n 9	24s42	16s48	3s56	4s 9	3n19		n.a.

Julian Day Number = 1665478.5, Delta T = 03h23m25s
Ecliptic obliquity = 23°42'59, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'54, Lahiri = - 6°03'54 Julian Calendar 1 Nov. 154 BCE == Greg. Calendar 29 Oct. 154 BCE

The year -153 astronomical counting style corresponds to year 154 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 154 BCE
geocentric

DECEMBER 154 BCE (-153) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 23 45	5♐56'08	16♑35	16°D35	20♎10	7♐55	3♏44	16♓48	28°R30	11♐ 2	6♓33	20°R 2	19♓34	21♍29	n.a.	S 1
M 2	4 27 42	6°57'25	0♒18	16♏44	21° 3	8°41	3°57	16°49	28♉27	11° 5	6°34	19♓54	19°31	21°36	n.a.	M 2
T 3	4 31 38	7°58'41	14° 8	17° 1	21°57	9°28	4° 9	16°50	28°25	11° 7	6°34	19°50	19°28	21°42	n.a.	T 3
W 4	4 35 35	8°59'57	28° 4	17°26	22°51	10°14	4°21	16°52	28°22	11° 9	6°34	19°48	19°24	21°49	n.a.	W 4
T 5	4 39 32	10° 1'13	12♓ 5	17°57	23°45	11° 0	4°33	16°53	28°20	11°12	6°34	19°47	19°21	21°56	n.a.	T 5
F 6	4 43 28	11° 2'28	26°12	18°34	24°41	11°47	4°46	16°54	28°17	11°14	6°35	19°47	19°18	22° 2	n.a.	F 6
S 7	4 47 25	12° 3'43	10♈22	19°17	25°37	12°33	4°58	16°56	28°15	11°16	6°35	19°46	19°15	22° 9	n.a.	S 7
S 8	4 51 21	13° 4'57	24°35	20° 5	26°33	13°20	5°10	16°58	28°12	11°18	6°35	19°43	19°12	22°16	n.a.	S 8
M 9	4 55 18	14° 6'10	8♉48	20°57	27°31	14° 6	5°21	16°59	28°10	11°21	6°35	19°36	19° 9	22°22	n.a.	M 9
T 10	4 59 14	15° 7'24	22°56	21°53	28°28	14°53	5°33	17° 1	28° 7	11°23	6°36	19°27	19° 5	22°29	n.a.	T 10
W11	5 3 11	16° 8'36	6♊56	22°52	29°26	15°39	5°45	17° 3	28° 5	11°25	6°36	19°15	19° 2	22°35	n.a.	W11
T 12	5 7 7	17° 9'49	20°43	23°55	0♏25	16°26	5°57	17° 5	28° 2	11°27	6°37	19° 2	18°59	22°42	n.a.	T 12
F 13	5 11 4	18°11'01	4♋11	25° 0	1°24	17°12	6° 8	17° 7	28° 0	11°30	6°37	18°49	18°56	22°49	n.a.	F 13
S 14	5 15 1	19°12'12	17°20	26° 8	2°24	17°59	6°20	17°10	27°58	11°32	6°37	18°37	18°53	22°55	n.a.	S 14
S 15	5 18 57	20°13'24	0♌ 8	27°18	3°24	18°46	6°31	17°12	27°55	11°34	6°38	18°27	18°49	23° 2	n.a.	S 15
M16	5 22 54	21°14'34	12°36	28°30	4°25	19°32	6°43	17°15	27°53	11°37	6°38	18°20	18°46	23° 9	n.a.	M16
T 17	5 26 50	22°15'45	24°46	29°44	5°26	20°19	6°54	17°17	27°51	11°39	6°39	18°16	18°43	23°15	n.a.	T 17
W18	5 30 47	23°16'55	6♍44	0♐59	6°27	21° 6	7° 5	17°20	27°48	11°41	6°39	18°15	18°40	23°22	n.a.	W18
T 19	5 34 43	24°18'04	18°34	2°16	7°29	21°53	7°17	17°23	27°46	11°43	6°40	18°14	18°37	23°29	n.a.	T 19
F 20	5 38 40	25°19'13	0♎21	3°35	8°31	22°39	7°28	17°26	27°44	11°45	6°41	18°14	18°34	23°35	n.a.	F 20
S 21	5 42 37	26°20'22	12°12	4°55	9°33	23°26	7°39	17°29	27°42	11°48	6°41	18°13	18°30	23°42	n.a.	S 21
S 22	5 46 33	27°21'30	24°11	6°15	10°36	24°13	7°50	17°32	27°40	11°50	6°42	18°10	18°27	23°49	n.a.	S 22
M23	5 50 30	28°22'37	6♏24	7°37	11°39	25° 0	8° 0	17°35	27°38	11°52	6°43	18° 5	18°24	23°55	n.a.	M23
T 24	5 54 26	29°23'44	18°54	9° 0	12°43	25°47	8°11	17°38	27°36	11°54	6°43	17°57	18°21	24° 2	n.a.	T 24
W25	5 58 23	0♑24'51	1♐44	10°24	13°46	26°34	8°22	17°42	27°33	11°56	6°44	17°46	18°18	24° 9	n.a.	W25
T 26	6 2 19	1°25'56	14°55	11°49	14°50	27°21	8°32	17°45	27°31	11°59	6°45	17°34	18°15	24°15	n.a.	T 26
F 27	6 6 16	2°27'01	28°26	13°15	15°55	28° 8	8°43	17°49	27°29	12° 1	6°45	17°21	18°11	24°22	n.a.	F 27
S 28	6 10 12	3°28'05	12♑15	14°41	16°59	28°55	8°53	17°52	27°27	12° 3	6°46	17° 9	18° 8	24°28	n.a.	S 28
S 29	6 14 9	4°29'07	26°16	16° 9	18° 4	29°42	9° 3	17°56	27°26	12° 5	6°47	16°59	18° 5	24°35	n.a.	S 29
M30	6 18 6	5°30'09	10♒26	17°37	19° 9	0♑29	9°14	18° 0	27°24	12° 7	6°48	16°51	18° 2	24°42	n.a.	M30
T 31	6 22 2	6♑31'09	24♒39	19♐ 6	20♏15	1♑16	9♏24	18♓ 4	27♉22	12♐ 9	6♓48	16♓47	17♓59	24♍48	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	21s33	27s 8	4s30	14s 7	2n59	5s16	2n56	22s32	0s39	12s 1	0n57	7s38	2s35	20n 0	0s 4	21s13	1n 9	24s42	16s48	4s 0	4s11	3n15			n.a.
M 2	21 43	24 4	3 50	14 13	2 56	5 33	2 59	22 40	0 40	12 5	0 57	7 37	2 34	19 59	0 4	21 14	1 9	24 41	16 48	4 3	4 12	3 12			n.a.
T 3	21 54	19 35	2 57	14 22	2 52	5 50	3 2	22 47	0 40	12 9	0 57	7 37	2 34	19 59	0 4	21 14	1 9	24 41	16 47	4 4	4 13	3 8			n.a.
W 4	22 3	14 2	1 52	14 34	2 47	6 8	3 5	22 55	0 41	12 13	0 57	7 36	2 34	19 58	0 4	21 14	1 9	24 40	16 47	4 5	4 14	3 5			n.a.
T 5	22 13	7 44	0 41	14 48	2 41	6 26	3 7	23 2	0 41	12 17	0 57	7 35	2 33	19 57	0 4	21 15	1 9	24 40	16 46	4 5	4 16	3 2			n.a.
F 6	22 21	1 1	0n34	15 5	2 34	6 44	3 9	23 9	0 42	12 21	0 57	7 34	2 33	19 57	0 4	21 15	1 9	24 40	16 46	4 5	4 17	2 58			n.a.
S 7	22 30	5n47	1 47	15 23	2 27	7 3	3 11	23 16	0 43	12 25	0 57	7 34	2 33	19 56	0 4	21 15	1 9	24 39	16 46	4 6	4 18	2 55			n.a.
S 8	22 38	12 18	2 53	15 44	2 20	7 22	3 13	23 22	0 43	12 29	0 57	7 33	2 33	19 56	0 4	21 16	1 9	24 39	16 45	4 7	4 19	2 51			n.a.
M 9	22 45	18 11	3 48	16 5	2 12	7 41	3 15	23 29	0 44	12 33	0 57	7 32	2 32	19 55	0 4	21 16	1 9	24 38	16 45	4 10	4 21	2 48			n.a.
T 10	22 52	23 3	4 29	16 27	2 4	8 0	3 16	23 35	0 44	12 37	0 57	7 31	2 32	19 55	0 4	21 16	1 9	24 38	16 45	4 13	4 22	2 44			n.a.
W11	22 59	26 32	4 53	16 50	1 56	8 20	3 17	23 40	0 45	12 41	0 58	7 30	2 32	19 54	0 4	21 17	1 9	24 37	16 44	4 18	4 23	2 41			n.a.
T 12	23 5	28 22	5 0	17 14	1 47	8 40	3 18	23 46	0 45	12 45	0 58	7 29	2 32	19 54	0 4	21 17	1 9	24 37	16 44	4 23	4 24	2 37			n.a.
F 13	23 11	28 28	4 49	17 38	1 39	8 59	3 19	23 51	0 46	12 49	0 58	7 28	2 31	19 53	0 4	21 17	1 9	24 36	16 44	4 29	4 26	2 34			n.a.
S 14	23 16	26 56	4 24	18 3	1 30	9 19	3 20	23 56	0 46	12 53	0 58	7 27	2 31	19 53	0 4	21 18	1 9	24 36	16 43	4 33	4 27	2 30			n.a.
S 15	23 21	24 1	3 45	18 27	1 22	9 39	3 20	24 0	0 47	12 57	0 58	7 25	2 31	19 52	0 4	21 18	1 9	24 35	16 43	4 37	4 28	2 27			n.a.
M16	23 25	20 3	2 57	18 52	1 13	10 0	3 20	24 5	0 47	13 0	0 58	7 24	2 31	19 52	0 4	21 18	1 9	24 35	16 42	4 40	4 30	2 23			n.a.
T 17	23 29	15 19	2 1	19 16	1 5	10 20	3 21	24 9	0 48	13 4	0 58	7 23	2 30	19 51	0 4	21 19	1 9	24 34	16 42	4 41	4 31	2 20			n.a.
W18	23 33	10 5	1 1	19 41	0 56	10 40	3 21	24 13	0 48	13 8	0 58	7 22	2 30	19 51	0 4	21 19	1 9	24 34	16 42	4 42	4 32	2 17			n.a.
T 19	23 35	4 33	0s 2	20 5	0 48	11 1	3 20	24 16	0 49	13 11	0 58	7 20	2 30	19 50	0 4	21 19	1 9	24 33	16 41	4 42	4 33	2 13			n.a.
F 20	23 38	1s 7	1 4	20 28	0 39	11 21	3 20	24 19	0 49	13 15	0 58	7 19	2 30	19 50	0 4	21 19	1 9	24 33	16 41	4 42	4 35	2 10			n.a.
S 21	23 40	6 46	2 3	20 51	0 31	11 41	3 19	24 22	0 49	13 19	0 58	7 17	2 29	19 49	0 4	21 20	1 9	24 32	16 41	4 43	4 36	2 6			n.a.
S 22	23 41	12 14	2 58	21 14	0 23	12 2	3 19	24 25	0 50	13 22	0 58	7 16	2 29	19 49	0 4	21 20	1 9	24 32	16 40	4 44	4 37	2 3			n.a.
M23	23 42	17 21	3 46	21 35	0 15	12 22	3 18	24 28	0 50	13 26	0 58	7 14	2 29	19 48	0 3	21 20	1 9	24 31	16 40	4 46	4 38	1 59			n.a.
T 24	23 43	21 52	4 24	21 56	0 7	12 42	3 17	24 30	0 51	13 29	0 58	7 13	2 29	19 48	0 3	21 21	1 9	24 30	16 40	4 49	4 40	1 56			n.a.
W25	23 43	25 28	4 49	22 17	0s 1	13 2	3 16	24 31	0 51	13 32	0 58	7 11	2 28	19 47	0 3	21 21	1 9	24 30	16 39	4 53	4 41	1 52			n.a.
T 26	23 42	27 50	5 1	22 36	0 8	13 22	3 15	24 33	0 52	13 36	0 58	7 10	2 28	19 47	0 3	21 21	1 9	24 29	16 39	4 58	4 42	1 49			n.a.
F 27	23 42	28 38	4 55	22 55	0 16	13 42	3 14	24 34	0 52	13 39	0 58	7 8	2 28	19 46	0 3	21 22	1 9	24 29	16 39	5 3	4 43	1 45			n.a.
S 28	23 40	27 41	4 33	23 13	0 23	14 2	3 12	24 35	0 53	13 42	0 58	7 6	2 28	19 46	0 3	21 22	1 9	24 28	16 38	5 8	4 45	1 42			n.a.
S 29	23 38	24 58	3 54	23 29	0 30	14 22	3 11	24 36	0 53	13 46	0 58	7 5	2 27	19 45	0 3	21 22	1 9	24 28	16 38	5 12	4 46	1 38			n.a.
M30	23 36	20 43	3 0	23 45	0 37	14 41	3 9	24 36	0 53	13 49	0 58	7 3	2 27	19 45	0 3	21 22	1 9	24 27	16 38	5 15	4 47	1 35			n.a.
T 31	23s33	15s15	1s55	23s59	0s44	15s 0	3n 7	24s36	0s54	13s52	0n58	7s 1	2s27	19n45	0s 3	21s23	1n 9	24s26	16s38	5s17	4s48	1n31			n.a.

Julian Day Number = 1665508.5, Delta T = 03h23m24s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'50, Lahiri = - 6°03'50 Julian Calendar 1 Dec. 154 BCE == Greg. Calendar 28 Nov. 154 BCE

The year -153 astronomical counting style corresponds to year 154 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 153 BCE
geocentric

JANUARY 153 BCE (-152) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 25 59	7♉32'07	8♓53	20♐36	21♏20	2♉ 3	9♏34	18♓ 8	27°R20	12♐12	6♓49	16°R45	17♓55	24♍55	n.a.	W 1
T 2	6 29 55	8°33'04	23° 3	22° 6	22°26	2°50	9°43	18°12	27♉18	12°14	6°50	16°D45	17°52	25° 2	n.a.	T 2
F 3	6 33 52	9°34'00	7♈10	23°37	23°32	3°37	9°53	18°17	27°17	12°16	6°51	16°R45	17°49	25° 8	n.a.	F 3
S 4	6 37 48	10°34'54	21°12	25° 9	24°38	4°24	10° 3	18°21	27°15	12°18	6°52	16♓45	17°46	25°15	n.a.	S 4
S 5	6 41 45	11°35'47	5♉ 8	26°42	25°45	5°11	10°12	18°25	27°13	12°20	6°53	16°42	17°43	25°22	n.a.	S 5
M 6	6 45 41	12°36'37	18°58	28°15	26°51	5°59	10°22	18°30	27°12	12°22	6°54	16°37	17°40	25°28	n.a.	M 6
T 7	6 49 38	13°37'27	2♊40	29°49	27°58	6°46	10°31	18°35	27°10	12°24	6°55	16°30	17°36	25°35	n.a.	T 7
W 8	6 53 35	14°38'15	16°12	1♉24	29° 5	7°33	10°40	18°39	27° 9	12°26	6°56	16°20	17°33	25°42	n.a.	W 8
T 9	6 57 31	15°39'01	29°33	3° 0	0♐12	8°20	10°49	18°44	27° 7	12°28	6°57	16° 9	17°30	25°48	n.a.	T 9
F 10	7 1 28	16°39'46	12♋40	4°36	1°20	9° 7	10°58	18°49	27° 6	12°30	6°58	15°58	17°27	25°55	n.a.	F 10
S 11	7 5 24	17°40'30	25°32	6°14	2°27	9°54	11° 7	18°54	27° 4	12°32	6°59	15°48	17°24	26° 2	n.a.	S 11
S 12	7 9 21	18°41'12	8♌ 8	7°52	3°35	10°42	11°16	18°59	27° 3	12°34	7° 0	15°40	17°21	26° 8	n.a.	S 12
M13	7 13 17	19°41'52	20°29	9°30	4°43	11°29	11°24	19° 4	27° 2	12°36	7° 1	15°35	17°17	26°15	n.a.	M13
T 14	7 17 14	20°42'31	2♍36	11°10	5°51	12°16	11°33	19° 9	27° 0	12°38	7° 2	15°31	17°14	26°21	n.a.	T 14
W15	7 21 11	21°43'09	14°33	12°51	6°59	13° 3	11°41	19°14	26°59	12°39	7° 3	15°D30	17°11	26°28	n.a.	W15
T 16	7 25 7	22°43'45	26°22	14°32	8° 7	13°50	11°49	19°20	26°58	12°41	7° 4	15°31	17° 8	26°35	n.a.	T 16
F 17	7 29 4	23°44'20	8♎10	16°14	9°16	14°38	11°57	19°25	26°57	12°43	7° 5	15°32	17° 5	26°41	n.a.	F 17
S 18	7 33 0	24°44'53	20° 0	17°57	10°24	15°25	12° 5	19°31	26°56	12°45	7° 6	15°R33	17° 1	26°48	n.a.	S 18
S 19	7 36 57	25°45'25	1♏59	19°41	11°33	16°12	12°13	19°36	26°55	12°47	7° 7	15°33	16°58	26°55	n.a.	S 19
M20	7 40 53	26°45'56	14°11	21°26	12°42	16°59	12°21	19°42	26°54	12°48	7° 9	15°31	16°55	27° 1	n.a.	M20
T 21	7 44 50	27°46'25	26°42	23°12	13°51	17°47	12°28	19°47	26°53	12°50	7°10	15°27	16°52	27° 8	n.a.	T 21
W22	7 48 46	28°46'53	9♐35	24°59	15° 0	18°34	12°36	19°53	26°52	12°52	7°11	15°22	16°49	27°15	n.a.	W22
T 23	7 52 43	29°47'19	22°52	26°47	16° 9	19°21	12°43	19°59	26°51	12°54	7°12	15°14	16°46	27°21	n.a.	T 23
F 24	7 56 40	0♒47'44	6♉34	28°36	17°18	20° 8	12°50	20° 5	26°51	12°55	7°13	15° 7	16°42	27°28	n.a.	F 24
S 25	8 0 36	1°48'07	20°38	0♒25	18°28	20°56	12°57	20°11	26°50	12°57	7°15	14°59	16°39	27°35	n.a.	S 25
S 26	8 4 33	2°48'28	5♒ 1	2°16	19°37	21°43	13° 4	20°17	26°49	12°59	7°16	14°53	16°36	27°41	n.a.	S 26
M27	8 8 29	3°48'48	19°36	4° 7	20°47	22°30	13°10	20°23	26°49	13° 0	7°17	14°49	16°33	27°48	n.a.	M27
T 28	8 12 26	4°49'05	4♓17	5°59	21°56	23°18	13°17	20°29	26°48	13° 2	7°18	14°46	16°30	27°55	n.a.	T 28
W29	8 16 22	5°49'20	18°57	7°52	23° 6	24° 5	13°23	20°35	26°48	13° 3	7°20	14°D46	16°27	28° 1	n.a.	W29
T 30	8 20 19	6°49'33	3♈29	9°46	24°16	24°52	13°29	20°42	26°47	13° 5	7°21	14°47	16°23	28° 8	n.a.	T 30
F 31	8 24 15	7♒49'44	17♈51	11♒41	25♐26	25♉39	13♏36	20♓48	26♉47	13♐ 6	7♓22	14♓48	16♓20	28♍15	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
W 1	23s30	8s59	0s42	24s13	0s50	15s20	3n 5	24s36	0s54	13s55	0n59	6s59	2s27	19n44	0s 3	21s23	1n 9	24s26	16s37	5s17	4s50	1n28		n.a.	
T 2	23 26	2 16	0n34	24 25	0 57	15 38	3 3	24 36	0 55	13 58	0 59	6 57	2 26	19 44	0 3	21 23	1 9	24 25	16 37	5 17	4 51	1 25		n.a.	
F 3	23 22	4n30	1 46	24 36	1 3	15 57	3 1	24 35	0 55	14 1	0 59	6 56	2 26	19 43	0 3	21 23	1 9	24 25	16 37	5 17	4 52	1 21		n.a.	
S 4	23 17	11 1	2 53	24 46	1 8	16 15	2 59	24 34	0 55	14 4	0 59	6 54	2 26	19 43	0 3	21 24	1 9	24 24	16 36	5 17	4 53	1 18		n.a.	
S 5	23 12	16 57	3 48	24 55	1 14	16 34	2 57	24 33	0 56	14 7	0 59	6 52	2 26	19 43	0 3	21 24	1 9	24 23	16 36	5 18	4 55	1 14		n.a.	
M 6	23 7	21 58	4 29	25 2	1 19	16 51	2 54	24 31	0 56	14 10	0 59	6 50	2 26	19 42	0 3	21 24	1 9	24 23	16 36	5 20	4 56	1 11		n.a.	
T 7	23 1	25 45	4 55	25 7	1 24	17 9	2 52	24 29	0 57	14 13	0 59	6 48	2 25	19 42	0 3	21 24	1 9	24 22	16 35	5 23	4 57	1 7		n.a.	
W 8	22 54	28 1	5 4	25 12	1 29	17 26	2 49	24 27	0 57	14 16	0 59	6 46	2 25	19 42	0 3	21 25	1 9	24 21	16 35	5 27	4 58	1 4		n.a.	
T 9	22 47	28 38	4 55	25 15	1 34	17 43	2 46	24 24	0 57	14 18	0 59	6 43	2 25	19 41	0 3	21 25	1 9	24 21	16 35	5 31	5 0	1 0		n.a.	
F 10	22 40	27 37	4 32	25 16	1 38	18 0	2 44	24 21	0 58	14 21	0 59	6 41	2 25	19 41	0 3	21 25	1 9	24 20	16 35	5 36	5 1	0 57		n.a.	
S 11	22 32	25 7	3 55	25 16	1 42	18 16	2 41	24 18	0 58	14 24	0 59	6 39	2 25	19 41	0 3	21 25	1 9	24 19	16 34	5 40	5 2	0 53		n.a.	
S 12	22 24	21 26	3 6	25 14	1 46	18 32	2 38	24 15	0 58	14 27	0 59	6 37	2 24	19 40	0 3	21 26	1 9	24 19	16 34	5 43	5 3	0 50		n.a.	
M13	22 15	16 53	2 10	25 11	1 49	18 47	2 35	24 11	0 59	14 29	0 59	6 35	2 24	19 40	0 3	21 26	1 9	24 18	16 34	5 45	5 5	0 46		n.a.	
T 14	22 6	11 44	1 9	25 6	1 52	19 2	2 32	24 7	0 59	14 32	0 59	6 33	2 24	19 40	0 3	21 26	1 9	24 18	16 34	5 46	5 6	0 43		n.a.	
W15	21 56	6 14	0 5	24 59	1 55	19 17	2 29	24 3	0 59	14 34	1 0	6 30	2 24	19 39	0 3	21 26	1 9	24 17	16 33	5 47	5 7	0 39		n.a.	
T 16	21 47	0 34	0s58	24 51	1 57	19 31	2 26	23 59	1 0	14 37	1 0	6 28	2 24	19 39	0 3	21 27	1 9	24 16	16 33	5 46	5 8	0 36		n.a.	
F 17	21 36	5s 6	1 59	24 41	1 59	19 45	2 22	23 54	1 0	14 39	1 0	6 26	2 23	19 39	0 3	21 27	1 9	24 16	16 33	5 46	5 10	0 32		n.a.	
S 18	21 25	10 36	2 55	24 29	2 0	19 58	2 19	23 49	1 0	14 41	1 0	6 23	2 23	19 39	0 3	21 27	1 9	24 15	16 33	5 46	5 11	0 29		n.a.	
S 19	21 14	15 48	3 44	24 15	2 1	20 11	2 16	23 43	1 1	14 44	1 0	6 21	2 23	19 39	0 3	21 27	1 9	24 14	16 32	5 46	5 12	0 26		n.a.	
M20	21 3	20 28	4 24	24 0	2 2	20 24	2 12	23 38	1 1	14 46	1 0	6 19	2 23	19 38	0 3	21 27	1 9	24 14	16 32	5 46	5 13	0 22		n.a.	
T 21	20 51	24 22	4 52	23 42	2 2	20 36	2 9	23 32	1 1	14 48	1 0	6 16	2 23	19 38	0 3	21 28	1 9	24 13	16 32	5 48	5 15	0 19		n.a.	
W22	20 38	27 12	5 7	23 23	2 2	20 47	2 5	23 26	1 2	14 50	1 0	6 14	2 22	19 38	0 3	21 28	1 9	24 12	16 32	5 50	5 16	0 15		n.a.	
T 23	20 26	28 37	5 6	23 2	2 1	20 58	2 2	23 19	1 2	14 53	1 0	6 11	2 22	19 38	0 3	21 28	1 9	24 12	16 31	5 53	5 17	0 12		n.a.	
F 24	20 13	28 20	4 47	22 39	2 0	21 8	1 58	23 13	1 2	14 55	1 0	6 9	2 22	19 38	0 3	21 28	1 9	24 11	16 31	5 56	5 18	0 8		n.a.	
S 25	19 59	26 15	4 11	22 13	1 59	21 18	1 55	23 6	1 2	14 57	1 0	6 6	2 22	19 37	0 3	21 28	1 9	24 10	16 31	5 59	5 20	0 5		n.a.	
S 26	19 45	22 26	3 19	21 46	1 57	21 28	1 51	22 58	1 3	14 59	1 1	6 4	2 22	19 37	0 3	21 29	1 9	24 10	16 31	6 1	5 21	0 1		n.a.	
M27	19 31	17 12	2 12	21 18	1 54	21 36	1 47	22 51	1 3	15 1	1 1	6 1	2 22	19 37	0 3	21 29	1 9	24 9	16 31	6 3	5 22	0s 2		n.a.	
T 28	19 17	10 56	0 57	20 47	1 51	21 45	1 44	22 43	1 3	15 3	1 1	5 58	2 21	19 37	0 3	21 29	1 9	24 8	16 30	6 4	5 23	0 6		n.a.	
W29	19 2	4 5	0n23	20 14	1 47	21 52	1 40	22 35	1 3	15 4	1 1	5 56	2 21	19 37	0 3	21 29	1 9	24 8	16 30	6 4	5 25	0 9		n.a.	
T 30	18 47	2n56	1 40	19 39	1 42	21 59	1 36	22 27	1 4	15 6	1 1	5 53	2 21	19 37	0 3	21 29	1 9	24 7	16 30	6 4	5 26	0 13		n.a.	
F 31	18s31	9n42	2n50	19s 2	1s38	22s 6	1n33	22s18	1s 4	15s 8	1n 1	5s51	2s21	19n37	0s 3	21s30	1n 9	24s 6	16s30	6s 3	5s27	0s16		n.a.	

Julian Day Number = 1665539.5, Delta T = 03h23m23s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'46, Lahiri = - 6°03'46 Julian Calendar 1 Jan. 153 BCE == Greg. Calendar 29 Dec. 154 BCE

The year -152 astronomical counting style corresponds to year 153 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 153 BCE
geocentric

FEBRUARY 153 BCE (-152) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 28 12	8♒49'53	1♉59	13♒36	26♐36	26♑26	13♏41	20♓54	26°R46	13♐ 8	7♓24	14♓50	16♓17	28♍21	n.a.	S 1
S 2	8 32 9	9°50'00	15°53	15°31	27°46	27°14	13°47	21° 1	26♉46	13° 9	7°25	14°R50	16°14	28°28	n.a.	S 2
M 3	8 36 5	10°50'04	29°32	17°27	28°56	28° 1	13°53	21° 7	26°46	13°11	7°26	14°48	16°11	28°34	n.a.	M 3
T 4	8 40 2	11°50'06	12♊56	19°23	0♑ 6	28°48	13°58	21°14	26°46	13°12	7°28	14°45	16° 7	28°41	n.a.	T 4
W 5	8 43 58	12°50'06	26° 7	21°19	1°17	29°35	14° 3	21°20	26°46	13°14	7°29	14°41	16° 4	28°48	n.a.	W 5
T 6	8 47 55	13°50'03	9♋ 4	23°14	2°27	0♒22	14° 9	21°27	26°46	13°15	7°30	14°36	16° 1	28°54	n.a.	T 6
F 7	8 51 51	14°49'59	21°48	25° 9	3°37	1°10	14°13	21°34	26°D46	13°16	7°32	14°30	15°58	29° 1	n.a.	F 7
S 8	8 55 48	15°49'52	4♌20	27° 4	4°48	1°57	14°18	21°40	26°46	13°18	7°33	14°26	15°55	29° 8	n.a.	S 8
S 9	8 59 44	16°49'43	16°40	28°57	5°58	2°44	14°23	21°47	26°46	13°19	7°35	14°22	15°52	29°14	n.a.	S 9
M10	9 3 41	17°49'32	28°49	0♓48	7° 9	3°31	14°27	21°54	26°46	13°20	7°36	14°19	15°48	29°21	n.a.	M10
T 11	9 7 38	18°49'19	10♍49	2°37	8°20	4°18	14°32	22° 1	26°46	13°21	7°37	14°D18	15°45	29°28	n.a.	T 11
W12	9 11 34	19°49'03	22°42	4°24	9°31	5° 5	14°36	22° 8	26°46	13°23	7°39	14°19	15°42	29°34	n.a.	W12
T 13	9 15 31	20°48'46	4♎31	6° 8	10°41	5°52	14°40	22°15	26°47	13°24	7°40	14°20	15°39	29°41	n.a.	T 13
F 14	9 19 27	21°48'27	16°19	7°48	11°52	6°39	14°43	22°22	26°47	13°25	7°42	14°21	15°36	29°48	n.a.	F 14
S 15	9 23 24	22°48'06	28°10	9°25	13° 3	7°26	14°47	22°29	26°47	13°26	7°43	14°23	15°33	29°54	n.a.	S 15
S 16	9 27 20	23°47'44	10♏ 8	10°57	14°14	8°13	14°50	22°36	26°48	13°27	7°44	14°24	15°29	0♎ 1	n.a.	S 16
M17	9 31 17	24°47'19	22°19	12°24	15°25	9° 0	14°53	22°43	26°48	13°28	7°46	14°R25	15°26	0° 8	n.a.	M17
T 18	9 35 13	25°46'53	4♐47	13°46	16°36	9°47	14°57	22°50	26°49	13°29	7°47	14°25	15°23	0°14	n.a.	T 18
W19	9 39 10	26°46'25	17°36	15° 2	17°47	10°34	14°59	22°57	26°50	13°30	7°49	14°24	15°20	0°21	n.a.	W19
T 20	9 43 6	27°45'55	0♑50	16°12	18°59	11°21	15° 2	23° 5	26°50	13°31	7°50	14°22	15°17	0°27	n.a.	T 20
F 21	9 47 3	28°45'23	14°30	17°15	20°10	12° 8	15° 5	23°12	26°51	13°32	7°52	14°20	15°13	0°34	n.a.	F 21
S 22	9 51 0	29°44'49	28°37	18°12	21°21	12°55	15° 7	23°19	26°52	13°33	7°53	14°18	15°10	0°41	n.a.	S 22
S 23	9 54 56	0♓44'13	13♒ 8	19° 1	22°32	13°42	15° 9	23°26	26°53	13°33	7°55	14°16	15° 7	0°47	n.a.	S 23
M24	9 58 53	1°43'35	27°57	19°44	23°44	14°29	15°11	23°34	26°53	13°34	7°56	14°15	15° 4	0°54	n.a.	M24
T 25	10 2 49	2°42'55	12♓57	20°18	24°55	15°16	15°13	23°41	26°54	13°35	7°58	14°D15	15° 1	1° 1	n.a.	T 25
W26	10 6 46	3°42'13	27°59	20°45	26° 7	16° 3	15°14	23°49	26°55	13°36	7°59	14°15	14°58	1° 7	n.a.	W26
T 27	10 10 42	4°41'28	12♈56	21° 5	27°18	16°50	15°16	23°56	26°56	13°37	8° 1	14°16	14°54	1°14	n.a.	T 27
F 28	10 14 39	5°40'41	27°39	21°17	28°30	17°36	15°17	24° 4	26°58	13°37	8° 2	14°16	14°51	1°21	n.a.	F 28
S 29	10 18 35	6♓39'52	12♉ 4	21°R22	29♑41	18♒23	15♏18	24♓11	26♉59	13♐38	8♓ 3	14♓17	14♓48	1♎27	n.a.	S 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s16	15n53	3n49	18s24	1s32	22s12	1n29	22s 9	1s 4	15s10	1n 1	5s48	2s21	19n37	0s 3	21s30	1n 9	24s 6	16s30	6s 3	5s28	0s20		n.a.
S 2	17 59	21 8	4 33	17 44	1 26	22 17	1 25	22 0	1 4	15 11	1 1	5 45	2 21	19 37	0 3	21 30	1 9	24 5	16 30	6 3	5 30	0 23		n.a.
M 3	17 43	25 11	5 1	17 2	1 19	22 21	1 21	21 51	1 5	15 13	1 1	5 42	2 21	19 37	0 3	21 30	1 9	24 4	16 29	6 3	5 31	0 26		n.a.
T 4	17 26	27 46	5 12	16 18	1 11	22 26	1 17	21 42	1 5	15 14	1 1	5 40	2 20	19 37	0 3	21 30	1 9	24 4	16 29	6 4	5 32	0 30		n.a.
W 5	17 9	28 45	5 6	15 33	1 3	22 29	1 14	21 32	1 5	15 16	1 2	5 37	2 20	19 37	0 3	21 30	1 9	24 3	16 29	6 6	5 33	0 33		n.a.
T 6	16 52	28 8	4 44	14 47	0 54	22 32	1 10	21 22	1 5	15 17	1 2	5 34	2 20	19 37	0 3	21 30	1 9	24 2	16 29	6 8	5 35	0 37		n.a.
F 7	16 34	26 1	4 9	13 59	0 45	22 34	1 6	21 12	1 5	15 19	1 2	5 31	2 20	19 37	0 3	21 31	1 9	24 2	16 29	6 10	5 36	0 40		n.a.
S 8	16 16	22 40	3 22	13 11	0 35	22 36	1 2	21 1	1 5	15 20	1 2	5 29	2 20	19 37	0 3	21 31	1 9	24 1	16 29	6 12	5 37	0 44		n.a.
S 9	15 58	18 20	2 26	12 21	0 24	22 36	0 58	20 50	1 6	15 21	1 2	5 26	2 20	19 37	0 3	21 31	1 9	24 0	16 29	6 13	5 38	0 47		n.a.
M10	15 40	13 20	1 24	11 31	0 13	22 37	0 55	20 39	1 6	15 22	1 2	5 23	2 20	19 37	0 3	21 31	1 9	24 0	16 28	6 14	5 40	0 51		n.a.
T 11	15 21	7 53	0 19	10 41	0 1	22 36	0 51	20 28	1 6	15 24	1 2	5 20	2 19	19 37	0 3	21 31	1 9	23 59	16 28	6 15	5 41	0 54		n.a.
W12	15 2	2 13	0s46	9 50	0n11	22 35	0 47	20 17	1 6	15 25	1 2	5 17	2 19	19 37	0 3	21 31	1 9	23 58	16 28	6 15	5 42	0 58		n.a.
T 13	14 43	3s29	1 49	9 0	0 23	22 34	0 43	20 5	1 6	15 26	1 2	5 14	2 19	19 37	0 3	21 31	1 9	23 58	16 28	6 14	5 43	1 1		n.a.
F 14	14 24	9 3	2 47	8 11	0 36	22 31	0 39	19 54	1 6	15 27	1 2	5 11	2 19	19 37	0 3	21 31	1 9	23 57	16 28	6 14	5 45	1 5		n.a.
S 15	14 4	14 20	3 39	7 22	0 50	22 29	0 36	19 42	1 7	15 28	1 3	5 8	2 19	19 37	0 3	21 32	1 9	23 56	16 28	6 13	5 46	1 8		n.a.
S 16	13 45	19 9	4 21	6 34	1 3	22 25	0 32	19 29	1 7	15 29	1 3	5 6	2 19	19 37	0 3	21 32	1 9	23 56	16 28	6 12	5 47	1 11		n.a.
M17	13 25	23 16	4 53	5 49	1 16	22 21	0 28	19 17	1 7	15 29	1 3	5 3	2 19	19 37	0 3	21 32	1 9	23 55	16 28	6 12	5 48	1 15		n.a.
T 18	13 4	26 26	5 12	5 5	1 30	22 16	0 25	19 4	1 7	15 30	1 3	5 0	2 19	19 38	0 3	21 32	1 10	23 54	16 28	6 12	5 50	1 18		n.a.
W19	12 44	28 22	5 16	4 23	1 43	22 10	0 21	18 52	1 7	15 31	1 3	4 57	2 19	19 38	0 3	21 32	1 10	23 54	16 28	6 13	5 51	1 22		n.a.
T 20	12 23	28 46	5 3	3 43	1 56	22 4	0 17	18 39	1 7	15 32	1 3	4 54	2 19	19 38	0 3	21 32	1 10	23 53	16 28	6 13	5 52	1 25		n.a.
F 21	12 2	27 27	4 34	3 7	2 9	21 57	0 14	18 25	1 7	15 32	1 3	4 51	2 18	19 38	0 3	21 32	1 10	23 53	16 28	6 14	5 53	1 29		n.a.
S 22	11 41	24 22	3 47	2 33	2 21	21 50	0 10	18 12	1 7	15 33	1 3	4 48	2 18	19 38	0 3	21 32	1 10	23 52	16 27	6 15	5 54	1 32		n.a.
S 23	11 20	19 41	2 44	2 3	2 33	21 42	0 7	17 59	1 7	15 33	1 3	4 45	2 18	19 38	0 3	21 32	1 10	23 51	16 27	6 16	5 56	1 36		n.a.
M24	10 59	13 43	1 29	1 36	2 44	21 33	0 3	17 45	1 7	15 34	1 4	4 42	2 18	19 39	0 3	21 32	1 10	23 51	16 27	6 16	5 57	1 39		n.a.
T 25	10 37	6 53	0 7	1 13	2 54	21 24	0s 0	17 31	1 7	15 34	1 4	4 39	2 18	19 39	0 3	21 32	1 10	23 50	16 27	6 16	5 58	1 43		n.a.
W26	10 16	0n21	1n16	0 54	3 3	21 14	0 4	17 17	1 7	15 35	1 4	4 36	2 18	19 39	0 3	21 33	1 10	23 50	16 27	6 16	5 59	1 46		n.a.
T 27	9 54	7 30	2 33	0 39	3 12	21 3	0 7	17 3	1 7	15 35	1 4	4 33	2 18	19 39	0 3	21 33	1 10	23 49	16 27	6 16	6 1	1 49		n.a.
F 28	9 32	14 9	3 38	0 27	3 19	20 52	0 10	16 48	1 7	15 35	1 4	4 30	2 18	19 40	0 3	21 33	1 10	23 48	16 27	6 15	6 2	1 53		n.a.
S 29	9s10	19n53	4n29	0s20	3n24	20s41	0s14	16s34	1s 8	15s35	1n 4	4s26	2s18	19n40	0s 3	21s33	1n10	23s48	16s27	6s15	6s 3	1s56		n.a.

Julian Day Number = 1665570.5, Delta T = 03h23m22s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'42, Lahiri = - 6°03'41 Julian Calendar 1 Feb. 153 BCE == Greg. Calendar 29 Jan. 153 BCE

The year -152 astronomical counting style corresponds to year 153 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 153 BCE
geocentric

MARCH 153 BCE (-152) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 22 32	7♓39'00	26♉ 7	21°R19	0♒53	19♒10	15♏19	24♓19	27♉ 0	13♐38	8♓ 5	14♓18	14♓45	1♎34	n.a.	S 1
M 2	10 26 29	8°38'06	9♊48	21♓ 9	2° 4	19°56	15°19	24°26	27° 1	13°39	8° 6	14°R18	14°42	1°41	n.a.	M 2
T 3	10 30 25	9°37'09	23° 7	20°53	3°16	20°43	15°20	24°34	27° 2	13°40	8° 8	14°18	14°39	1°47	n.a.	T 3
W 4	10 34 22	10°36'10	6♋ 7	20°30	4°27	21°30	15°20	24°41	27° 4	13°40	8° 9	14°17	14°35	1°54	n.a.	W 4
T 5	10 38 18	11°35'09	18°49	20° 2	5°39	22°16	15°R20	24°49	27° 5	13°41	8°11	14°17	14°32	2° 1	n.a.	T 5
F 6	10 42 15	12°34'05	1♌16	19°28	6°51	23° 3	15°20	24°56	27° 7	13°41	8°12	14°17	14°29	2° 7	n.a.	F 6
S 7	10 46 11	13°32'59	13°31	18°51	8° 3	23°49	15°20	25° 4	27° 8	13°41	8°14	14°16	14°26	2°14	n.a.	S 7
S 8	10 50 8	14°31'51	25°37	18° 9	9°14	24°36	15°19	25°12	27°10	13°42	8°15	14°D16	14°23	2°21	n.a.	S 8
M 9	10 54 4	15°30'40	7♍35	17°26	10°26	25°22	15°19	25°19	27°11	13°42	8°17	14°16	14°19	2°27	n.a.	M 9
T 10	10 58 1	16°29'27	19°27	16°40	11°38	26° 9	15°18	25°27	27°13	13°43	8°18	14°R16	14°16	2°34	n.a.	T 10
W11	11 1 57	17°28'13	1♎17	15°54	12°50	26°55	15°17	25°35	27°14	13°43	8°20	14°16	14°13	2°41	n.a.	W11
T 12	11 5 54	18°26'56	13° 5	15° 7	14° 2	27°42	15°16	25°42	27°16	13°43	8°21	14°16	14°10	2°47	n.a.	T 12
F 13	11 9 51	19°25'37	24°55	14°22	15°13	28°28	15°14	25°50	27°18	13°43	8°23	14°15	14° 7	2°54	n.a.	F 13
S 14	11 13 47	20°24'16	6♏49	13°38	16°25	29°14	15°13	25°58	27°20	13°43	8°24	14°15	14° 4	3° 0	n.a.	S 14
S 15	11 17 44	21°22'54	18°50	12°57	17°37	0♓ 1	15°11	26° 5	27°22	13°44	8°25	14°14	14° 0	3° 7	n.a.	S 15
M16	11 21 40	22°21'29	1♐ 2	12°19	18°49	0°47	15° 9	26°13	27°24	13°44	8°27	14°13	13°57	3°14	n.a.	M16
T 17	11 25 37	23°20'03	13°29	11°45	20° 1	1°33	15° 7	26°21	27°25	13°44	8°28	14°12	13°54	3°20	n.a.	T 17
W18	11 29 33	24°18'36	26°14	11°14	21°13	2°19	15° 4	26°29	27°27	13°44	8°30	14°D12	13°51	3°27	n.a.	W18
T 19	11 33 30	25°17'06	9♑22	10°48	22°25	3° 5	15° 2	26°36	27°29	13°R44	8°31	14°13	13°48	3°34	n.a.	T 19
F 20	11 37 26	26°15'35	22°54	10°27	23°38	3°51	14°59	26°44	27°32	13°44	8°33	14°13	13°44	3°40	n.a.	F 20
S 21	11 41 23	27°14'02	6♒52	10°11	24°50	4°37	14°56	26°52	27°34	13°44	8°34	14°14	13°41	3°47	n.a.	S 21
S 22	11 45 20	28°12'28	21°17	10° 0	26° 2	5°23	14°53	27° 0	27°36	13°44	8°35	14°15	13°38	3°54	n.a.	S 22
M23	11 49 16	29°10'51	6♓ 4	9°53	27°14	6° 9	14°50	27° 7	27°38	13°44	8°37	14°16	13°35	4° 0	n.a.	M23
T 24	11 53 13	0♈ 9'13	21° 7	9°D52	28°26	6°55	14°47	27°15	27°40	13°44	8°38	14°R16	13°32	4° 7	n.a.	T 24
W25	11 57 9	1° 7'33	6♈20	9°56	29°38	7°41	14°43	27°23	27°43	13°43	8°40	14°15	13°29	4°14	n.a.	W25
T 26	12 1 6	2° 5'50	21°30	10° 5	0♓50	8°27	14°39	27°30	27°45	13°43	8°41	14°14	13°25	4°20	n.a.	T 26
F 27	12 5 2	3° 4'06	6♉31	10°19	2° 3	9°13	14°35	27°38	27°47	13°43	8°42	14°11	13°22	4°27	n.a.	F 27
S 28	12 8 59	4° 2'20	21°12	10°37	3°15	9°59	14°31	27°46	27°50	13°43	8°44	14° 9	13°19	4°34	n.a.	S 28
S 29	12 12 55	5° 0'32	5♊29	11° 0	4°27	10°44	14°27	27°54	27°52	13°42	8°45	14° 6	13°16	4°40	n.a.	S 29
M30	12 16 52	5°58'42	19°19	11°27	5°39	11°30	14°23	28° 1	27°55	13°42	8°46	14° 5	13°13	4°47	n.a.	M30
T 31	12 20 49	6♈56'50	2♋42	11♓58	6♓52	12♓16	14♏18	28♓ 9	27♉57	13♐42	8♓48	14°D 4	13♓10	4♎54	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	8s48	24n23	5n 2	0s17	3n29	20s28	0s17	16s19	1s 8	15s36	1n 4	4s23	2s18	19n40	0s 3	21s33	1n10	23s47	16s27	6s15	6s 4	2s 0			n.a.
M 2	8 26	27 23	5 17	0 19	3 32	20 15	0 20	16 4	1 8	15 36	1 4	4 20	2 18	19 41	0 3	21 33	1 10	23 47	16 27	6 15	6 6	2 3			n.a.
T 3	8 3	28 45	5 14	0 24	3 33	20 2	0 23	15 49	1 8	15 36	1 4	4 17	2 18	19 41	0 3	21 33	1 10	23 46	16 27	6 15	6 7	2 7			n.a.
W 4	7 41	28 29	4 55	0 33	3 33	19 48	0 26	15 34	1 8	15 36	1 4	4 14	2 18	19 41	0 3	21 33	1 10	23 45	16 27	6 15	6 8	2 10			n.a.
T 5	7 18	26 42	4 22	0 46	3 31	19 33	0 30	15 19	1 8	15 36	1 5	4 11	2 18	19 41	0 3	21 33	1 10	23 45	16 27	6 15	6 9	2 14			n.a.
F 6	6 55	23 38	3 37	1 3	3 27	19 18	0 33	15 3	1 8	15 36	1 5	4 8	2 18	19 42	0 3	21 33	1 10	23 44	16 27	6 15	6 11	2 17			n.a.
S 7	6 32	19 33	2 43	1 22	3 22	19 2	0 35	14 48	1 7	15 35	1 5	4 5	2 18	19 42	0 3	21 33	1 10	23 44	16 27	6 15	6 12	2 20			n.a.
S 8	6 9	14 44	1 42	1 45	3 15	18 46	0 38	14 32	1 7	15 35	1 5	4 2	2 18	19 43	0 3	21 33	1 10	23 43	16 27	6 16	6 13	2 24			n.a.
M 9	5 47	9 24	0 37	2 10	3 6	18 29	0 41	14 16	1 7	15 35	1 5	3 59	2 17	19 43	0 3	21 33	1 10	23 43	16 28	6 15	6 14	2 27			n.a.
T 10	5 23	3 47	0s29	2 37	2 56	18 12	0 44	14 0	1 7	15 35	1 5	3 56	2 17	19 43	0 3	21 33	1 10	23 42	16 28	6 15	6 16	2 31			n.a.
W11	5 0	1s56	1 33	3 5	2 45	17 54	0 47	13 44	1 7	15 34	1 5	3 53	2 17	19 44	0 3	21 33	1 10	23 42	16 28	6 16	6 17	2 34			n.a.
T 12	4 37	7 34	2 33	3 35	2 33	17 36	0 49	13 28	1 7	15 34	1 5	3 49	2 17	19 44	0 3	21 33	1 10	23 41	16 28	6 16	6 18	2 38			n.a.
F 13	4 14	12 57	3 27	4 5	2 19	17 17	0 52	13 11	1 7	15 33	1 5	3 46	2 17	19 45	0 3	21 33	1 10	23 41	16 28	6 16	6 19	2 41			n.a.
S 14	3 51	17 54	4 12	4 36	2 5	16 58	0 54	12 55	1 7	15 33	1 5	3 43	2 17	19 45	0 3	21 33	1 10	23 40	16 28	6 16	6 21	2 45			n.a.
S 15	3 27	22 13	4 47	5 5	1 49	16 38	0 57	12 39	1 7	15 32	1 5	3 40	2 17	19 45	0 2	21 33	1 10	23 40	16 28	6 17	6 22	2 48			n.a.
M16	3 4	25 38	5 9	5 35	1 34	16 18	0 59	12 22	1 7	15 31	1 6	3 37	2 17	19 46	0 2	21 33	1 10	23 39	16 28	6 17	6 23	2 51			n.a.
T 17	2 41	27 55	5 17	6 3	1 18	15 57	1 2	12 5	1 7	15 31	1 6	3 34	2 17	19 46	0 2	21 33	1 10	23 39	16 28	6 17	6 24	2 55			n.a.
W18	2 17	28 50	5 10	6 29	1 1	15 36	1 4	11 48	1 7	15 30	1 6	3 31	2 17	19 47	0 2	21 33	1 10	23 38	16 28	6 17	6 25	2 58			n.a.
T 19	1 54	28 9	4 47	6 54	0 45	15 14	1 6	11 31	1 7	15 29	1 6	3 28	2 17	19 47	0 2	21 33	1 10	23 38	16 28	6 17	6 27	3 2			n.a.
F 20	1 30	25 49	4 8	7 17	0 29	14 52	1 8	11 14	1 6	15 28	1 6	3 25	2 17	19 48	0 2	21 33	1 10	23 37	16 28	6 17	6 28	3 5			n.a.
S 21	1 7	21 52	3 13	7 38	0 13	14 30	1 10	10 57	1 6	15 27	1 6	3 21	2 17	19 48	0 2	21 33	1 10	23 37	16 29	6 16	6 29	3 9			n.a.
S 22	0 43	16 32	2 4	7 57	0s 2	14 7	1 12	10 40	1 6	15 26	1 6	3 18	2 17	19 49	0 2	21 33	1 10	23 36	16 29	6 16	6 30	3 12			n.a.
M23	0 20	10 6	0 45	8 13	0 17	13 44	1 14	10 23	1 6	15 25	1 6	3 15	2 17	19 49	0 2	21 33	1 11	23 36	16 29	6 16	6 32	3 16			n.a.
T 24	0n 4	2 59	0n38	8 27	0 32	13 20	1 16	10 5	1 6	15 24	1 6	3 12	2 17	19 50	0 2	21 33	1 11	23 36	16 29	6 16	6 33	3 19			n.a.
W25	0 27	4n21	1 59	8 38	0 46	12 57	1 18	9 48	1 6	15 23	1 6	3 9	2 17	19 50	0 2	21 33	1 11	23 35	16 29	6 16	6 34	3 22			n.a.
T 26	0 51	11 26	3 12	8 47	0 59	12 32	1 19	9 30	1 6	15 22	1 6	3 6	2 17	19 51	0 2	21 33	1 11	23 35	16 29	6 17	6 35	3 26			n.a.
F 27	1 14	17 46	4 10	8 53	1 11	12 8	1 21	9 13	1 5	15 21	1 6	3 3	2 17	19 51	0 2	21 33	1 11	23 34	16 29	6 17	6 37	3 29			n.a.
S 28	1 37	22 56	4 51	8 57	1 23	11 43	1 23	8 55	1 5	15 20	1 6	3 0	2 18	19 52	0 2	21 32	1 11	23 34	16 29	6 18	6 38	3 33			n.a.
S 29	2 1	26 35	5 12	8 59	1 35	11 18	1 24	8 38	1 5	15 18	1 6	2 57	2 18	19 53	0 2	21 32	1 11	23 34	16 30	6 19	6 39	3 36			n.a.
M30	2 24	28 30	5 14	8 58	1 45	10 52	1 26	8 20	1 5	15 17	1 6	2 54	2 18	19 53	0 2	21 32	1 11	23 33	16 30	6 20	6 40	3 40			n.a.
T 31	2n47	28n40	4n59	8s55	1s55	10s26	1s27	8s 2	1s 5	15s15	1n 6	2s51	2s18	19n54	0s 2	21s32	1n11	23s33	16s30	6s20	6s42	3s43			n.a.

Julian Day Number = 1665599.5, Delta T = 03h23m21s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'38, Lahiri = - 6°03'37 Julian Calendar 1 March 153 BCE == Greg. Calendar 27 Feb. 153 BCE

The year -152 astronomical counting style corresponds to year 153 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 153 BCE
geocentric

APRIL 153 BCE (-152) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 24 45	7♈54'55	15♋40	12♓34	8♓ 4	13♓ 1	14°R13	28♓17	28♉ 0	13°R41	8♓49	14♓ 4	13♓ 6	5♎ 0	n.a.	W 1
T 2	12 28 42	8°52'59	28°17	13°13	9°16	13°47	14♏ 9	28°24	28° 2	13♐41	8°50	14° 5	13° 3	5° 7	n.a.	T 2
F 3	12 32 38	9°51'01	10♌36	13°56	10°28	14°32	14° 4	28°32	28° 5	13°40	8°52	14° 7	13° 0	5°14	n.a.	F 3
S 4	12 36 35	10°49'00	22°42	14°42	11°41	15°18	13°58	28°40	28° 7	13°40	8°53	14° 8	12°57	5°20	n.a.	S 4
S 5	12 40 31	11°46'58	4♍38	15°32	12°53	16° 3	13°53	28°47	28°10	13°39	8°54	14°10	12°54	5°27	n.a.	S 5
M 6	12 44 28	12°44'53	16°29	16°26	14° 5	16°48	13°48	28°55	28°13	13°39	8°56	14°R10	12°50	5°34	n.a.	M 6
T 7	12 48 24	13°42'47	28°17	17°22	15°18	17°34	13°42	29° 2	28°16	13°38	8°57	14° 9	12°47	5°40	n.a.	T 7
W 8	12 52 21	14°40'39	10♎ 5	18°22	16°30	18°19	13°36	29°10	28°18	13°38	8°58	14° 7	12°44	5°47	n.a.	W 8
T 9	12 56 17	15°38'30	21°55	19°24	17°42	19° 4	13°31	29°17	28°21	13°37	8°59	14° 3	12°41	5°54	n.a.	T 9
F 10	13 0 14	16°36'19	3♏50	20°30	18°55	19°49	13°25	29°25	28°24	13°36	9° 1	13°58	12°38	6° 0	n.a.	F 10
S 11	13 4 11	17°34'06	15°51	21°38	20° 7	20°34	13°18	29°33	28°27	13°36	9° 2	13°52	12°35	6° 7	n.a.	S 11
S 12	13 8 7	18°31'52	28° 0	22°49	21°20	21°19	13°12	29°40	28°30	13°35	9° 3	13°46	12°31	6°13	n.a.	S 12
M13	13 12 4	19°29'37	10♐19	24° 2	22°32	22° 4	13° 6	29°47	28°33	13°34	9° 4	13°40	12°28	6°20	n.a.	M13
T 14	13 16 0	20°27'21	22°51	25°18	23°45	22°49	13° 0	29°55	28°36	13°33	9° 5	13°36	12°25	6°27	n.a.	T 14
W15	13 19 57	21°25'03	5♑38	26°37	24°57	23°34	12°53	0♈ 2	28°39	13°33	9° 6	13°33	12°22	6°33	n.a.	W15
T 16	13 23 53	22°22'44	18°42	27°58	26°10	24°19	12°46	0°10	28°42	13°32	9° 8	13°D32	12°19	6°40	n.a.	T 16
F 17	13 27 50	23°20'24	2♒ 8	29°21	27°22	25° 4	12°40	0°17	28°45	13°31	9° 9	13°32	12°16	6°47	n.a.	F 17
S 18	13 31 47	24°18'03	15°56	0♈47	28°35	25°49	12°33	0°24	28°48	13°30	9°10	13°33	12°12	6°53	n.a.	S 18
S 19	13 35 43	25°15'41	0♓ 7	2°15	29°47	26°33	12°26	0°32	28°51	13°29	9°11	13°34	12° 9	7° 0	n.a.	S 19
M20	13 39 40	26°13'17	14°41	3°45	1♈ 0	27°18	12°19	0°39	28°54	13°28	9°12	13°R35	12° 6	7° 7	n.a.	M20
T 21	13 43 36	27°10'53	29°33	5°18	2°12	28° 3	12°12	0°46	28°57	13°27	9°13	13°34	12° 3	7°13	n.a.	T 21
W22	13 47 33	28° 8'27	14♈39	6°53	3°25	28°47	12° 5	0°53	29° 0	13°26	9°14	13°31	12° 0	7°20	n.a.	W22
T 23	13 51 29	29° 6'00	29°48	8°30	4°38	29°32	11°57	1° 0	29° 4	13°25	9°15	13°26	11°56	7°27	n.a.	T 23
F 24	13 55 26	0♉ 3'32	14♉52	10° 9	5°50	0♈16	11°50	1° 8	29° 7	13°24	9°16	13°20	11°53	7°33	n.a.	F 24
S 25	13 59 22	1° 1'03	29°40	11°51	7° 3	1° 0	11°43	1°15	29°10	13°23	9°17	13°13	11°50	7°40	n.a.	S 25
S 26	14 3 19	1°58'33	14♊ 5	13°35	8°16	1°45	11°35	1°22	29°13	13°22	9°18	13° 6	11°47	7°47	n.a.	S 26
M27	14 7 16	2°56'01	28° 3	15°21	9°28	2°29	11°28	1°29	29°17	13°21	9°19	13° 0	11°44	7°53	n.a.	M27
T 28	14 11 12	3°53'27	11♋32	17°10	10°41	3°13	11°20	1°36	29°20	13°20	9°20	12°55	11°41	8° 0	n.a.	T 28
W29	14 15 9	4°50'53	24°34	19° 0	11°54	3°57	11°13	1°43	29°23	13°19	9°21	12°53	11°37	8° 7	n.a.	W29
T 30	14 19 5	5♉48'17	7♌11	20♈53	13♈ 6	4♈41	11♏ 5	1♈50	29♉26	13♐17	9♓22	12°D53	11♓34	8♎13	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	3n11	27n14	4n29	8s49	2s 4	10s 0	1s28	7s44	1s 4	15s14	1n 6	2s48	2s18	19n54	0s 2	21s32	1n11	23s32	16s30	6s20	6s43	3s46		n.a.
T 2	3 34	24 26	3 46	8 42	2 12	9 34	1 29	7 26	1 4	15 13	1 7	2 45	2 18	19 55	0 2	21 32	1 11	23 32	16 30	6 20	6 44	3 50		n.a.
F 3	3 57	20 34	2 54	8 32	2 19	9 7	1 30	7 8	1 4	15 11	1 7	2 42	2 18	19 55	0 2	21 32	1 11	23 32	16 30	6 19	6 45	3 53		n.a.
S 4	4 20	15 55	1 55	8 20	2 26	8 40	1 31	6 50	1 4	15 9	1 7	2 39	2 18	19 56	0 2	21 32	1 11	23 31	16 31	6 19	6 46	3 57		n.a.
S 5	4 43	10 44	0 52	8 6	2 32	8 13	1 32	6 32	1 4	15 8	1 7	2 35	2 18	19 57	0 2	21 32	1 11	23 31	16 31	6 18	6 48	4 0		n.a.
M 6	5 6	5 12	0s13	7 50	2 38	7 46	1 33	6 14	1 3	15 6	1 7	2 32	2 18	19 57	0 2	21 32	1 11	23 31	16 31	6 18	6 49	4 3		n.a.
T 7	5 28	0s29	1 17	7 32	2 42	7 18	1 34	5 56	1 3	15 5	1 7	2 30	2 18	19 58	0 2	21 32	1 11	23 30	16 31	6 18	6 50	4 7		n.a.
W 8	5 51	6 8	2 17	7 12	2 46	6 50	1 35	5 38	1 3	15 3	1 7	2 27	2 18	19 59	0 2	21 32	1 11	23 30	16 31	6 19	6 51	4 10		n.a.
T 9	6 14	11 36	3 12	6 50	2 49	6 23	1 36	5 20	1 3	15 1	1 7	2 24	2 18	19 59	0 2	21 31	1 11	23 30	16 32	6 21	6 53	4 14		n.a.
F 10	6 36	16 40	3 59	6 26	2 52	5 54	1 36	5 2	1 2	14 59	1 7	2 21	2 18	20 0	0 2	21 31	1 11	23 30	16 32	6 23	6 54	4 17		n.a.
S 11	6 58	21 9	4 35	6 0	2 54	5 26	1 37	4 44	1 2	14 57	1 7	2 18	2 18	20 1	0 2	21 31	1 11	23 29	16 32	6 25	6 55	4 21		n.a.
S 12	7 21	24 48	5 0	5 33	2 55	4 58	1 37	4 25	1 2	14 56	1 7	2 15	2 18	20 1	0 2	21 31	1 11	23 29	16 32	6 27	6 56	4 24		n.a.
M13	7 43	27 22	5 11	5 4	2 55	4 29	1 37	4 7	1 2	14 54	1 7	2 12	2 18	20 2	0 2	21 31	1 11	23 29	16 33	6 30	6 57	4 27		n.a.
T 14	8 5	28 38	5 7	4 34	2 55	4 0	1 38	3 49	1 1	14 52	1 7	2 9	2 19	20 3	0 2	21 31	1 11	23 29	16 33	6 31	6 59	4 31		n.a.
W15	8 27	28 24	4 48	4 1	2 54	3 31	1 38	3 31	1 1	14 50	1 7	2 6	2 19	20 3	0 2	21 31	1 11	23 28	16 33	6 32	7 0	4 34		n.a.
T 16	8 48	26 36	4 15	3 27	2 53	3 2	1 38	3 12	1 1	14 48	1 7	2 3	2 19	20 4	0 2	21 31	1 11	23 28	16 33	6 33	7 1	4 38		n.a.
F 17	9 10	23 15	3 26	2 52	2 51	2 33	1 38	2 54	1 0	14 46	1 7	2 0	2 19	20 5	0 2	21 31	1 11	23 28	16 34	6 33	7 2	4 41		n.a.
S 18	9 32	18 33	2 25	2 15	2 48	2 4	1 38	2 36	1 0	14 44	1 7	1 57	2 19	20 5	0 2	21 30	1 11	23 28	16 34	6 32	7 4	4 44		n.a.
S 19	9 53	12 41	1 13	1 37	2 45	1 35	1 38	2 18	1 0	14 42	1 6	1 55	2 19	20 6	0 2	21 30	1 11	23 28	16 34	6 32	7 5	4 48		n.a.
M20	10 14	6 1	0n 6	0 57	2 41	1 6	1 38	1 59	0 59	14 39	1 6	1 52	2 19	20 7	0 2	21 30	1 11	23 27	16 34	6 32	7 6	4 51		n.a.
T 21	10 35	1n 8	1 26	0 16	2 37	0 36	1 38	1 41	0 59	14 37	1 6	1 49	2 19	20 7	0 2	21 30	1 11	23 27	16 35	6 32	7 7	4 55		n.a.
W22	10 56	8 17	2 40	0n27	2 32	0 7	1 37	1 23	0 59	14 35	1 6	1 46	2 19	20 8	0 2	21 30	1 11	23 27	16 35	6 33	7 9	4 58		n.a.
T 23	11 17	15 1	3 44	1 10	2 26	0n23	1 37	1 5	0 58	14 33	1 6	1 43	2 19	20 9	0 2	21 30	1 11	23 27	16 35	6 35	7 10	5 1		n.a.
F 24	11 37	20 47	4 31	1 55	2 20	0 52	1 37	0 47	0 58	14 31	1 6	1 41	2 20	20 9	0 2	21 30	1 11	23 27	16 35	6 38	7 11	5 5		n.a.
S 25	11 58	25 11	4 59	2 42	2 13	1 22	1 36	0 28	0 58	14 29	1 6	1 38	2 20	20 10	0 2	21 29	1 11	23 27	16 36	6 40	7 12	5 8		n.a.
S 26	12 18	27 51	5 8	3 29	2 6	1 51	1 35	0 10	0 57	14 26	1 6	1 35	2 20	20 11	0 2	21 29	1 11	23 26	16 36	6 43	7 13	5 12		n.a.
M27	12 38	28 39	4 57	4 17	1 59	2 21	1 35	0n 8	0 57	14 24	1 6	1 32	2 20	20 12	0 2	21 29	1 11	23 26	16 36	6 45	7 15	5 15		n.a.
T 28	12 58	27 42	4 31	5 7	1 51	2 50	1 34	0 26	0 56	14 22	1 6	1 30	2 20	20 12	0 2	21 29	1 11	23 26	16 37	6 47	7 16	5 18		n.a.
W29	13 17	25 14	3 50	5 57	1 42	3 20	1 33	0 44	0 56	14 20	1 6	1 27	2 20	20 13	0 2	21 29	1 11	23 26	16 37	6 48	7 17	5 22		n.a.
T 30	13n37	21n35	3n 0	6n48	1s33	3n49	1s33	1n 2	0s56	14s17	1n 6	1s24	2s20	20n14	0s 2	21s29	1n11	23s26	16s37	6s48	7s18	5s25		n.a.

Julian Day Number = 1665630.5, Delta T = 03h23m20s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'34, Lahiri = - 6°03'33 Julian Calendar 1 Apr. 153 BCE == Greg. Calendar 29 March 153 BCE

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ASTRODIENST EPHEMERIS for the year 153 BCE
geocentric

MAY 153 BCE (-152) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 23 2	6♉45'39	19♌29	22♈48	14♈19	5♈25	10°R58	1♈56	29♉30	13°R16	9♓23	12♓53	11♓31	8♎20	n.a.	F 1
S 2	14 26 58	7°43'00	1♍32	24°46	15°32	6° 9	10♏50	2° 3	29°33	13♐15	9°24	12°54	11°28	8°27	n.a.	S 2
S 3	14 30 55	8°40'20	13°25	26°45	16°45	6°53	10°43	2°10	29°37	13°14	9°25	12°R55	11°25	8°33	n.a.	S 3
M 4	14 34 51	9°37'39	25°13	28°46	17°57	7°37	10°35	2°17	29°40	13°12	9°25	12°54	11°21	8°40	n.a.	M 4
T 5	14 38 48	10°34'57	7♎ 0	0♉49	19°10	8°21	10°27	2°23	29°43	13°11	9°26	12°51	11°18	8°47	n.a.	T 5
W 6	14 42 45	11°32'14	18°50	2°54	20°23	9° 5	10°20	2°30	29°47	13°10	9°27	12°46	11°15	8°53	n.a.	W 6
T 7	14 46 41	12°29'30	0♏46	5° 0	21°36	9°48	10°12	2°37	29°50	13° 9	9°28	12°38	11°12	9° 0	n.a.	T 7
F 8	14 50 38	13°26'45	12°49	7° 8	22°48	10°32	10° 4	2°43	29°54	13° 7	9°29	12°28	11° 9	9° 7	n.a.	F 8
S 9	14 54 34	14°23'59	25° 1	9°17	24° 1	11°15	9°57	2°50	29°57	13° 6	9°29	12°18	11° 6	9°13	n.a.	S 9
S 10	14 58 31	15°21'12	7♐23	11°28	25°14	11°59	9°49	2°56	0♊ 1	13° 4	9°30	12° 6	11° 2	9°20	n.a.	S 10
M11	15 2 27	16°18'25	19°55	13°38	26°27	12°42	9°42	3° 2	0° 4	13° 3	9°31	11°56	10°59	9°27	n.a.	M11
T 12	15 6 24	17°15'38	2♑39	15°50	27°40	13°26	9°34	3° 9	0° 8	13° 2	9°31	11°47	10°56	9°33	n.a.	T 12
W13	15 10 20	18°12'50	15°35	18° 2	28°53	14° 9	9°27	3°15	0°11	13° 0	9°32	11°41	10°53	9°40	n.a.	W13
T 14	15 14 17	19°10'01	28°45	20°13	0♉ 6	14°52	9°19	3°21	0°15	12°59	9°33	11°37	10°50	9°47	n.a.	T 14
F 15	15 18 14	20° 7'12	12♒11	22°25	1°18	15°36	9°12	3°27	0°18	12°57	9°33	11°35	10°47	9°53	n.a.	F 15
S 16	15 22 10	21° 4'23	25°53	24°36	2°31	16°19	9° 4	3°33	0°22	12°56	9°34	11°D35	10°43	10° 0	n.a.	S 16
S 17	15 26 7	22° 1'34	9♓54	26°46	3°44	17° 2	8°57	3°39	0°25	12°54	9°35	11°R35	10°40	10° 7	n.a.	S 17
M18	15 30 3	22°58'44	24°12	28°55	4°57	17°45	8°50	3°45	0°29	12°53	9°35	11°35	10°37	10°13	n.a.	M18
T 19	15 34 0	23°55'54	8♈47	1♊ 2	6°10	18°28	8°43	3°51	0°32	12°51	9°36	11°32	10°34	10°20	n.a.	T 19
W20	15 37 56	24°53'04	23°34	3° 9	7°23	19°11	8°36	3°57	0°36	12°50	9°36	11°27	10°31	10°27	n.a.	W20
T 21	15 41 53	25°50'14	8♉27	5°13	8°36	19°53	8°29	4° 3	0°40	12°48	9°37	11°20	10°27	10°33	n.a.	T 21
F 22	15 45 49	26°47'24	23°18	7°16	9°50	20°36	8°22	4° 9	0°43	12°47	9°37	11°10	10°24	10°40	n.a.	F 22
S 23	15 49 46	27°44'33	7♊59	9°18	11° 3	21°19	8°15	4°14	0°47	12°45	9°38	11° 0	10°21	10°47	n.a.	S 23
S 24	15 53 43	28°41'42	22°20	11°17	12°16	22° 2	8° 8	4°20	0°50	12°44	9°38	10°49	10°18	10°53	n.a.	S 24
M25	15 57 39	29°38'51	6♋18	13°14	13°29	22°44	8° 1	4°25	0°54	12°42	9°39	10°39	10°15	11° 0	n.a.	M25
T 26	16 1 36	0♊35'59	19°49	15° 9	14°42	23°27	7°55	4°31	0°57	12°41	9°39	10°32	10°12	11° 7	n.a.	T 26
W27	16 5 32	1°33'07	2♌52	17° 3	15°55	24° 9	7°48	4°36	1° 1	12°39	9°39	10°27	10° 8	11°13	n.a.	W27
T 28	16 9 29	2°30'14	15°32	18°54	17° 8	24°52	7°42	4°42	1° 5	12°38	9°40	10°24	10° 5	11°20	n.a.	T 28
F 29	16 13 25	3°27'21	27°51	20°43	18°21	25°34	7°36	4°47	1° 8	12°36	9°40	10°23	10° 2	11°27	n.a.	F 29
S 30	16 17 22	4°24'27	9♍54	22°30	19°35	26°16	7°29	4°52	1°12	12°34	9°40	10°23	9°59	11°33	n.a.	S 30
S 31	16 21 19	5♊21'33	21♍48	24♊14	20♉48	26♈58	7♏23	4♈57	1♊15	12♐33	9♓41	10♓23	9♓56	11♎40	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13n56	17n 5	2n 3	7n40	1s24	4n18	1s32	1n20	0s55	14s15	1n 6	1s22	2s20	20n15	0s 2	21s28	1n11	23s26	16s38	6s48	7s20	5s28		n.a.
S 2	14 15	12 0	1 1	8 33	1 14	4 47	1 31	1 38	0 55	14 13	1 6	1 19	2 21	20 15	0 2	21 28	1 11	23 26	16 38	6 47	7 21	5 32		n.a.
S 3	14 33	6 33	0s 3	9 26	1 4	5 17	1 30	1 56	0 54	14 10	1 5	1 17	2 21	20 16	0 2	21 28	1 11	23 26	16 38	6 47	7 22	5 35		n.a.
M 4	14 52	0 55	1 6	10 19	0 54	5 46	1 29	2 14	0 54	14 8	1 5	1 14	2 21	20 17	0 2	21 28	1 11	23 26	16 38	6 48	7 23	5 39		n.a.
T 5	15 10	4s44	2 5	11 13	0 44	6 15	1 27	2 32	0 54	14 6	1 5	1 11	2 21	20 18	0 2	21 28	1 11	23 26	16 39	6 49	7 24	5 42		n.a.
W 6	15 28	10 14	3 0	12 6	0 33	6 43	1 26	2 49	0 53	14 3	1 5	1 9	2 21	20 18	0 2	21 28	1 11	23 26	16 39	6 51	7 26	5 45		n.a.
T 7	15 46	15 24	3 47	12 59	0 22	7 12	1 25	3 7	0 53	14 1	1 5	1 6	2 21	20 19	0 2	21 27	1 11	23 26	16 39	6 54	7 27	5 49		n.a.
F 8	16 3	20 3	4 24	13 52	0 12	7 41	1 24	3 25	0 52	13 59	1 5	1 4	2 21	20 20	0 2	21 27	1 11	23 26	16 40	6 57	7 28	5 52		n.a.
S 9	16 21	23 55	4 50	14 44	0 1	8 9	1 22	3 43	0 52	13 57	1 5	1 2	2 22	20 21	0 2	21 27	1 11	23 26	16 40	7 2	7 29	5 56		n.a.
S 10	16 38	26 45	5 2	15 36	0n10	8 37	1 21	4 0	0 51	13 54	1 5	0 59	2 22	20 21	0 2	21 27	1 12	23 26	16 40	7 6	7 31	5 59		n.a.
M11	16 54	28 19	5 0	16 26	0 20	9 5	1 19	4 18	0 51	13 52	1 5	0 57	2 22	20 22	0 2	21 27	1 12	23 26	16 41	7 10	7 32	6 2		n.a.
T 12	17 11	28 25	4 44	17 15	0 30	9 33	1 18	4 35	0 51	13 50	1 4	0 54	2 22	20 23	0 2	21 27	1 12	23 26	16 41	7 13	7 33	6 6		n.a.
W13	17 27	26 58	4 12	18 3	0 40	10 1	1 16	4 53	0 50	13 47	1 4	0 52	2 22	20 24	0 2	21 26	1 12	23 26	16 41	7 16	7 34	6 9		n.a.
T 14	17 43	24 1	3 27	18 48	0 50	10 28	1 15	5 10	0 50	13 45	1 4	0 50	2 22	20 24	0 2	21 26	1 12	23 26	16 42	7 17	7 35	6 12		n.a.
F 15	17 59	19 44	2 30	19 32	0 59	10 56	1 13	5 27	0 49	13 43	1 4	0 47	2 23	20 25	0 2	21 26	1 12	23 26	16 42	7 18	7 37	6 16		n.a.
S 16	18 14	14 20	1 22	20 14	1 8	11 23	1 11	5 44	0 49	13 41	1 4	0 45	2 23	20 26	0 2	21 26	1 12	23 26	16 42	7 18	7 38	6 19		n.a.
S 17	18 29	8 5	0 9	20 53	1 16	11 49	1 9	6 2	0 48	13 39	1 4	0 43	2 23	20 27	0 2	21 26	1 12	23 26	16 43	7 18	7 39	6 22		n.a.
M18	18 44	1 19	1n 7	21 30	1 23	12 16	1 8	6 19	0 48	13 36	1 3	0 41	2 23	20 27	0 2	21 25	1 12	23 26	16 43	7 18	7 40	6 26		n.a.
T 19	18 58	5n39	2 19	22 4	1 30	12 42	1 6	6 36	0 47	13 34	1 3	0 38	2 23	20 28	0 2	21 25	1 12	23 26	16 44	7 19	7 41	6 29		n.a.
W20	19 12	12 24	3 23	22 36	1 36	13 8	1 4	6 52	0 47	13 32	1 3	0 36	2 24	20 29	0 2	21 25	1 12	23 26	16 44	7 21	7 43	6 33		n.a.
T 21	19 26	18 29	4 14	23 5	1 42	13 34	1 2	7 9	0 46	13 30	1 3	0 34	2 24	20 30	0 2	21 25	1 12	23 27	16 44	7 24	7 44	6 36		n.a.
F 22	19 40	23 26	4 47	23 32	1 47	13 59	1 0	7 26	0 46	13 28	1 3	0 32	2 24	20 30	0 2	21 25	1 12	23 27	16 45	7 27	7 45	6 39		n.a.
S 23	19 53	26 50	5 1	23 56	1 51	14 24	0 58	7 43	0 45	13 26	1 3	0 30	2 24	20 31	0 2	21 24	1 12	23 27	16 45	7 32	7 46	6 43		n.a.
S 24	20 6	28 24	4 55	24 17	1 54	14 48	0 56	7 59	0 45	13 24	1 2	0 28	2 24	20 32	0 2	21 24	1 12	23 27	16 45	7 36	7 48	6 46		n.a.
M25	20 19	28 6	4 32	24 35	1 57	15 13	0 54	8 16	0 44	13 22	1 2	0 26	2 25	20 33	0 2	21 24	1 12	23 27	16 46	7 39	7 49	6 49		n.a.
T 26	20 31	26 6	3 54	24 51	1 59	15 37	0 52	8 32	0 43	13 20	1 2	0 24	2 25	20 34	0 2	21 24	1 12	23 27	16 46	7 42	7 50	6 53		n.a.
W27	20 43	22 44	3 5	25 4	2 0	16 0	0 49	8 49	0 43	13 18	1 2	0 22	2 25	20 34	0 2	21 24	1 12	23 28	16 46	7 44	7 51	6 56		n.a.
T 28	20 54	18 24	2 8	25 15	2 1	16 23	0 47	9 5	0 42	13 16	1 2	0 20	2 25	20 35	0 2	21 23	1 12	23 28	16 47	7 45	7 52	6 59		n.a.
F 29	21 5	13 23	1 6	25 24	2 1	16 46	0 45	9 21	0 42	13 14	1 1	0 18	2 25	20 36	0 2	21 23	1 12	23 28	16 47	7 45	7 54	7 3		n.a.
S 30	21 16	7 59	0 3	25 30	2 0	17 9	0 43	9 37	0 41	13 12	1 1	0 16	2 26	20 37	0 2	21 23	1 12	23 28	16 48	7 45	7 55	7 6		n.a.
S 31	21n27	2n22	1s 0	25n34	1n59	17n30	0s41	9n53	0s41	13s11	1n 1	0s14	2s26	20n37	0s 2	21s23	1n12	23s28	16s48	7s46	7s56	7s 9		n.a.

Julian Day Number = 1665660.5, Delta T = 03h23m19s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'30, Lahiri = - 6°03'29 Julian Calendar 1 May 153 BCE == Greg. Calendar 28 Apr. 153 BCE

The year -152 astronomical counting style corresponds to year 153 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 153 BCE
geocentric

JUNE 153 BCE (-152) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 25 15	6♊18'39	3♎36	25♊57	22♉ 1	27♈40	7°R18	5♈ 2	1♊19	12°R31	9♓41	10°R21	9♓53	11♎47	n.a.	M 1
T 2	16 29 12	7°15'45	15°25	27°37	23°14	28°22	7♏12	5° 7	1°22	12♐30	9°41	10♓18	9°49	11°53	n.a.	T 2
W 3	16 33 8	8°12'50	27°19	29°15	24°27	29° 4	7° 6	5°12	1°26	12°28	9°41	10°11	9°46	12° 0	n.a.	W 3
T 4	16 37 5	9° 9'55	9♏21	0♋51	25°41	29°46	7° 1	5°17	1°30	12°26	9°42	10° 3	9°43	12° 7	n.a.	T 4
F 5	16 41 1	10° 7'01	21°34	2°25	26°54	0♉28	6°55	5°22	1°33	12°25	9°42	9°51	9°40	12°13	n.a.	F 5
S 6	16 44 58	11° 4'06	3♐58	3°57	28° 7	1°10	6°50	5°26	1°37	12°23	9°42	9°39	9°37	12°20	n.a.	S 6
S 7	16 48 54	12° 1'12	16°36	5°26	29°21	1°52	6°45	5°31	1°40	12°21	9°42	9°26	9°33	12°27	n.a.	S 7
M 8	16 52 51	12°58'18	29°27	6°53	0♊34	2°33	6°40	5°35	1°44	12°20	9°42	9°13	9°30	12°33	n.a.	M 8
T 9	16 56 48	13°55'24	12♑29	8°18	1°47	3°15	6°35	5°40	1°47	12°18	9°42	9° 3	9°27	12°40	n.a.	T 9
W10	17 0 44	14°52'31	25°44	9°41	3° 1	3°57	6°31	5°44	1°51	12°17	9°42	8°55	9°24	12°47	n.a.	W10
T 11	17 4 41	15°49'38	9♒ 8	11° 1	4°14	4°38	6°26	5°48	1°54	12°15	9°42	8°50	9°21	12°53	n.a.	T 11
F 12	17 8 37	16°46'45	22°44	12°19	5°28	5°19	6°22	5°52	1°58	12°13	9°42	8°48	9°18	13° 0	n.a.	F 12
S 13	17 12 34	17°43'53	6♓31	13°35	6°41	6° 1	6°18	5°57	2° 1	12°12	9°R42	8°D47	9°14	13° 7	n.a.	S 13
S 14	17 16 30	18°41'02	20°28	14°48	7°55	6°42	6°14	6° 1	2° 5	12°10	9°42	8°R47	9°11	13°13	n.a.	S 14
M15	17 20 27	19°38'12	4♈37	15°59	9° 8	7°23	6°10	6° 4	2° 8	12° 9	9°42	8°47	9° 8	13°20	n.a.	M15
T 16	17 24 23	20°35'22	18°56	17° 7	10°22	8° 4	6° 6	6° 8	2°12	12° 7	9°42	8°44	9° 5	13°27	n.a.	T 16
W17	17 28 20	21°32'33	3♉22	18°12	11°35	8°45	6° 3	6°12	2°15	12° 5	9°42	8°40	9° 2	13°33	n.a.	W17
T 18	17 32 17	22°29'45	17°52	19°15	12°49	9°26	5°59	6°16	2°18	12° 4	9°42	8°32	8°59	13°40	n.a.	T 18
F 19	17 36 13	23°26'58	2♊20	20°14	14° 3	10° 7	5°56	6°19	2°22	12° 2	9°42	8°23	8°55	13°47	n.a.	F 19
S 20	17 40 10	24°24'12	16°40	21°11	15°16	10°48	5°53	6°23	2°25	12° 1	9°42	8°12	8°52	13°53	n.a.	S 20
S 21	17 44 6	25°21'26	0♋45	22° 5	16°30	11°29	5°50	6°26	2°29	11°59	9°42	8° 1	8°49	14° 0	n.a.	S 21
M22	17 48 3	26°18'41	14°30	22°55	17°44	12°10	5°48	6°29	2°32	11°57	9°42	7°51	8°46	14° 7	n.a.	M22
T 23	17 51 59	27°15'57	27°54	23°42	18°57	12°50	5°45	6°32	2°35	11°56	9°41	7°43	8°43	14°13	n.a.	T 23
W24	17 55 56	28°13'13	10♌54	24°26	20°11	13°31	5°43	6°36	2°39	11°54	9°41	7°38	8°39	14°20	n.a.	W24
T 25	17 59 53	29°10'29	23°32	25° 5	21°25	14°11	5°41	6°39	2°42	11°53	9°41	7°35	8°36	14°27	n.a.	T 25
F 26	18 3 49	0♍ 7'46	5♍50	25°41	22°39	14°52	5°39	6°41	2°45	11°51	9°41	7°D34	8°33	14°33	n.a.	F 26
S 27	18 7 46	1° 5'04	17°55	26°13	23°52	15°32	5°37	6°44	2°49	11°50	9°40	7°35	8°30	14°40	n.a.	S 27
S 28	18 11 42	2° 2'22	29°49	26°41	25° 6	16°12	5°36	6°47	2°52	11°48	9°40	7°R35	8°27	14°47	n.a.	S 28
M29	18 15 39	2°59'41	11♎39	27° 5	26°20	16°53	5°34	6°50	2°55	11°47	9°40	7°35	8°24	14°53	n.a.	M29
T 30	18 19 35	3♍57'01	23♎30	27♍23	27♊34	17♉33	5♏33	6♈52	2♊58	11♐45	9♓39	7♓33	8♓20	15♎ 0	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21n37	3s17	2s 0	25n36	1n57	17n52	0s38	10n 9	0s40	13s 9	1n 1	0s12	2s26	20n38	0s 2	21s23	1n12	23s29	16s48	7s46	7s57	7s13		n.a.
T 2	21 46	8 49	2 54	25 36	1 54	18 13	0 36	10 24	0 40	13 7	1 0	0 11	2 26	20 39	0 2	21 22	1 12	23 29	16 49	7 48	7 58	7 16		n.a.
W 3	21 56	14 4	3 41	25 34	1 51	18 34	0 34	10 40	0 39	13 6	1 0	0 9	2 27	20 39	0 2	21 22	1 12	23 29	16 49	7 50	8 0	7 19		n.a.
T 4	22 5	18 51	4 19	25 30	1 47	18 54	0 31	10 55	0 38	13 4	1 0	0 7	2 27	20 40	0 2	21 22	1 12	23 29	16 49	7 53	8 1	7 23		n.a.
F 5	22 13	22 56	4 45	25 24	1 42	19 13	0 29	11 11	0 38	13 2	1 0	0 6	2 27	20 41	0 2	21 22	1 12	23 30	16 50	7 58	8 2	7 26		n.a.
S 6	22 22	26 4	4 59	25 17	1 37	19 32	0 27	11 26	0 37	13 1	1 0	0 4	2 27	20 42	0 2	21 22	1 12	23 30	16 50	8 3	8 3	7 29		n.a.
S 7	22 30	27 58	4 58	25 8	1 32	19 51	0 24	11 41	0 37	13 0	0 59	0 2	2 28	20 42	0 2	21 21	1 12	23 30	16 50	8 7	8 5	7 33		n.a.
M 8	22 37	28 25	4 42	24 58	1 26	20 9	0 22	11 56	0 36	12 58	0 59	0 1	2 28	20 43	0 2	21 21	1 11	23 31	16 51	8 12	8 6	7 36		n.a.
T 9	22 44	27 17	4 11	24 46	1 19	20 26	0 19	12 11	0 35	12 57	0 59	0n 1	2 28	20 44	0 2	21 21	1 11	23 31	16 51	8 16	8 7	7 39		n.a.
W10	22 51	24 37	3 27	24 33	1 12	20 43	0 17	12 26	0 35	12 55	0 59	0 2	2 28	20 45	0 2	21 21	1 11	23 31	16 52	8 19	8 8	7 43		n.a.
T 11	22 57	20 35	2 30	24 19	1 4	21 0	0 15	12 41	0 34	12 54	0 58	0 4	2 28	20 45	0 2	21 21	1 11	23 31	16 52	8 21	8 9	7 46		n.a.
F 12	23 3	15 25	1 24	24 4	0 56	21 16	0 12	12 55	0 34	12 53	0 58	0 5	2 29	20 46	0 2	21 20	1 11	23 32	16 52	8 22	8 11	7 49		n.a.
S 13	23 9	9 25	0 12	23 48	0 48	21 31	0 10	13 10	0 33	12 52	0 58	0 7	2 29	20 47	0 2	21 20	1 11	23 32	16 53	8 22	8 12	7 52		n.a.
S 14	23 14	2 53	1n 1	23 31	0 39	21 46	0 7	13 24	0 32	12 51	0 58	0 8	2 29	20 47	0 2	21 20	1 11	23 32	16 53	8 22	8 13	7 56		n.a.
M15	23 18	3n52	2 12	23 14	0 29	22 0	0 5	13 38	0 32	12 50	0 57	0 9	2 29	20 48	0 2	21 20	1 11	23 33	16 53	8 22	8 14	7 59		n.a.
T 16	23 23	10 30	3 15	22 55	0 19	22 13	0 2	13 52	0 31	12 49	0 57	0 11	2 30	20 49	0 2	21 20	1 11	23 33	16 54	8 23	8 15	8 2		n.a.
W17	23 27	16 38	4 7	22 37	0 9	22 26	0 0	14 6	0 30	12 48	0 57	0 12	2 30	20 50	0 2	21 19	1 11	23 34	16 54	8 25	8 17	8 6		n.a.
T 18	23 30	21 52	4 42	22 17	0s 2	22 38	0n 2	14 20	0 30	12 47	0 57	0 13	2 30	20 50	0 2	21 19	1 11	23 34	16 55	8 28	8 18	8 9		n.a.
F 19	23 33	25 46	5 0	21 57	0 13	22 50	0 5	14 34	0 29	12 46	0 56	0 14	2 31	20 51	0 2	21 19	1 11	23 34	16 55	8 31	8 19	8 12		n.a.
S 20	23 36	27 59	4 58	21 37	0 24	23 1	0 7	14 47	0 28	12 45	0 56	0 15	2 31	20 52	0 2	21 19	1 11	23 35	16 55	8 35	8 20	8 16		n.a.
S 21	23 38	28 21	4 38	21 17	0 36	23 11	0 10	15 1	0 28	12 45	0 56	0 17	2 31	20 52	0 2	21 19	1 11	23 35	16 56	8 40	8 21	8 19		n.a.
M22	23 40	26 56	4 3	20 57	0 48	23 20	0 12	15 14	0 27	12 44	0 56	0 18	2 31	20 53	0 2	21 18	1 11	23 35	16 56	8 43	8 23	8 22		n.a.
T 23	23 41	24 0	3 14	20 37	1 1	23 29	0 14	15 27	0 26	12 43	0 55	0 19	2 32	20 54	0 2	21 18	1 11	23 36	16 56	8 46	8 24	8 25		n.a.
W24	23 42	19 53	2 17	20 17	1 13	23 38	0 17	15 40	0 26	12 43	0 55	0 20	2 32	20 54	0 1	21 18	1 11	23 36	16 57	8 48	8 25	8 29		n.a.
T 25	23 43	15 0	1 14	19 57	1 26	23 45	0 19	15 53	0 25	12 42	0 55	0 21	2 32	20 55	0 1	21 18	1 11	23 37	16 57	8 49	8 26	8 32		n.a.
F 26	23 43	9 37	0 9	19 38	1 39	23 52	0 21	16 6	0 24	12 42	0 55	0 21	2 32	20 56	0 1	21 18	1 11	23 37	16 57	8 50	8 27	8 35		n.a.
S 27	23 43	3 59	0s55	19 19	1 52	23 58	0 24	16 18	0 24	12 42	0 54	0 22	2 33	20 56	0 1	21 17	1 11	23 38	16 58	8 50	8 29	8 39		n.a.
S 28	23 42	1s42	1 56	19 0	2 6	24 3	0 26	16 31	0 23	12 41	0 54	0 23	2 33	20 57	0 1	21 17	1 11	23 38	16 58	8 49	8 30	8 42		n.a.
M29	23 41	7 17	2 51	18 43	2 19	24 8	0 28	16 43	0 22	12 41	0 54	0 24	2 33	20 58	0 1	21 17	1 11	23 39	16 59	8 49	8 31	8 45		n.a.
T 30	23n39	12s37	3s40	18n26	2s32	24n12	0n30	16n55	0s22	12s41	0n53	0n25	2s34	20n58	0s 1	21s17	1n11	23s39	16s59	8s50	8s32	8s48		n.a.

Julian Day Number = 1665691.5, Delta T = 03h23m18s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'25, Lahiri = - 6°03'25 Julian Calendar 1 June 153 BCE == Greg. Calendar 29 May 153 BCE

The year -152 astronomical counting style corresponds to year 153 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 153 BCE
geocentric

JULY 153 BCE (-152) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 23 32	4♋54'21	5♏27	27♋38	28♊48	18♉13	5°R32	6♈54	3♊ 1	11°R44	9°R39	7°R28	8♓17	15♎ 7	n.a.	W 1
T 2	18 27 28	5°51'42	17°34	27°47	0♋ 2	18°53	5♏31	6°57	3° 4	11♐42	9♓38	7♓22	8°14	15°13	n.a.	T 2
F 3	18 31 25	6°49'04	29°54	27°R51	1°16	19°33	5°31	6°59	3° 8	11°41	9°38	7°14	8°11	15°20	n.a.	F 3
S 4	18 35 22	7°46'27	12♐30	27°50	2°29	20°12	5°30	7° 1	3°11	11°40	9°38	7° 4	8° 8	15°27	n.a.	S 4
S 5	18 39 18	8°43'51	25°23	27°44	3°43	20°52	5°30	7° 3	3°14	11°38	9°37	6°54	8° 5	15°33	n.a.	S 5
M 6	18 43 15	9°41'15	8♑32	27°33	4°57	21°32	5°D30	7° 5	3°17	11°37	9°37	6°44	8° 1	15°40	n.a.	M 6
T 7	18 47 11	10°38'41	21°57	27°16	6°11	22°11	5°30	7° 7	3°20	11°35	9°36	6°36	7°58	15°47	n.a.	T 7
W 8	18 51 8	11°36'09	5♒34	26°54	7°25	22°51	5°30	7° 9	3°23	11°34	9°36	6°30	7°55	15°53	n.a.	W 8
T 9	18 55 4	12°33'37	19°22	26°27	8°40	23°30	5°31	7°10	3°26	11°33	9°35	6°27	7°52	16° 0	n.a.	T 9
F 10	18 59 1	13°31'07	3♓18	25°56	9°54	24°10	5°31	7°12	3°29	11°31	9°35	6°D25	7°49	16° 7	n.a.	F 10
S 11	19 2 57	14°28'38	17°20	25°19	11° 8	24°49	5°32	7°13	3°32	11°30	9°34	6°26	7°45	16°14	n.a.	S 11
S 12	19 6 54	15°26'11	1♈26	24°39	12°22	25°28	5°33	7°14	3°35	11°29	9°33	6°27	7°42	16°20	n.a.	S 12
M13	19 10 51	16°23'45	15°35	23°55	13°36	26° 7	5°34	7°15	3°37	11°28	9°33	6°R27	7°39	16°27	n.a.	M13
T 14	19 14 47	17°21'21	29°45	23° 8	14°50	26°46	5°36	7°17	3°40	11°26	9°32	6°27	7°36	16°34	n.a.	T 14
W15	19 18 44	18°18'59	13♉55	22°19	16° 4	27°25	5°37	7°18	3°43	11°25	9°31	6°24	7°33	16°40	n.a.	W15
T 16	19 22 40	19°16'38	28° 3	21°29	17°19	28° 4	5°39	7°18	3°46	11°24	9°31	6°20	7°30	16°47	n.a.	T 16
F 17	19 26 37	20°14'20	12♊ 5	20°39	18°33	28°43	5°41	7°19	3°49	11°23	9°30	6°14	7°26	16°54	n.a.	F 17
S 18	19 30 33	21°12'02	25°58	19°49	19°47	29°22	5°43	7°20	3°51	11°22	9°29	6° 6	7°23	17° 0	n.a.	S 18
S 19	19 34 30	22° 9'47	9♋38	19° 0	21° 1	0♊ 1	5°46	7°20	3°54	11°20	9°29	5°59	7°20	17° 7	n.a.	S 19
M20	19 38 26	23° 7'33	23° 3	18°15	22°16	0°39	5°48	7°21	3°57	11°19	9°28	5°53	7°17	17°14	n.a.	M20
T 21	19 42 23	24° 5'20	6♌10	17°33	23°30	1°18	5°51	7°21	3°59	11°18	9°27	5°47	7°14	17°20	n.a.	T 21
W22	19 46 20	25° 3'09	18°59	16°55	24°44	1°56	5°54	7°21	4° 2	11°17	9°26	5°44	7°11	17°27	n.a.	W22
T 23	19 50 16	26° 0'59	1♍30	16°23	25°59	2°35	5°57	7°21	4° 4	11°16	9°26	5°D43	7° 7	17°34	n.a.	T 23
F 24	19 54 13	26°58'51	13°46	15°57	27°13	3°13	6° 0	7°R21	4° 7	11°15	9°25	5°43	7° 4	17°40	n.a.	F 24
S 25	19 58 9	27°56'44	25°48	15°37	28°27	3°51	6° 3	7°21	4° 9	11°14	9°24	5°44	7° 1	17°47	n.a.	S 25
S 26	20 2 6	28°54'38	7♎43	15°25	29°42	4°29	6° 7	7°21	4°12	11°13	9°23	5°46	6°58	17°54	n.a.	S 26
M27	20 6 2	29°52'34	19°33	15°D20	0♌56	5° 7	6°10	7°21	4°14	11°12	9°22	5°47	6°55	18° 0	n.a.	M27
T 28	20 9 59	0♌50'31	1♏25	15°23	2°11	5°45	6°14	7°20	4°16	11°11	9°21	5°R48	6°51	18° 7	n.a.	T 28
W29	20 13 55	1°48'30	13°22	15°34	3°25	6°23	6°18	7°20	4°19	11°10	9°20	5°47	6°48	18°14	n.a.	W29
T 30	20 17 52	2°46'30	25°30	15°54	4°40	7° 0	6°22	7°19	4°21	11°10	9°20	5°45	6°45	18°20	n.a.	T 30
F 31	20 21 49	3♌44'32	7♐53	16♋21	5♌54	7♊38	6♏27	7♈18	4♊23	11♐ 9	9♓19	5♓41	6♓42	18♎27	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	23n37	17s33	4s19	18n10	2s45	24n15	0n33	17n 7	0s21	12s41	0n53	0n25	2s34	20n59	0s 1	21s17	1n11	23s39	16s59	8s52	8s33	8s52			n.a.
T 2	23 35	21 50	4 47	17 56	2 59	24 18	0 35	17 19	0 20	12 41	0 53	0 26	2 34	20 59	0 1	21 17	1 11	23 40	17 0	8 54	8 35	8 55			n.a.
F 3	23 32	25 16	5 2	17 42	3 11	24 19	0 37	17 30	0 19	12 41	0 53	0 27	2 34	21 0	0 1	21 16	1 11	23 40	17 0	8 57	8 36	8 58			n.a.
S 4	23 29	27 34	5 3	17 30	3 24	24 21	0 39	17 42	0 19	12 41	0 52	0 27	2 35	21 1	0 1	21 16	1 11	23 41	17 0	9 1	8 37	9 2			n.a.
S 5	23 25	28 27	4 49	17 20	3 36	24 21	0 41	17 53	0 18	12 41	0 52	0 28	2 35	21 1	0 1	21 16	1 11	23 41	17 1	9 5	8 38	9 5			n.a.
M 6	23 21	27 45	4 19	17 11	3 47	24 20	0 43	18 5	0 17	12 41	0 52	0 28	2 35	21 2	0 1	21 16	1 11	23 42	17 1	9 8	8 39	9 8			n.a.
T 7	23 17	25 26	3 35	17 3	3 58	24 19	0 45	18 16	0 17	12 42	0 52	0 29	2 36	21 2	0 1	21 16	1 11	23 42	17 1	9 11	8 41	9 11			n.a.
W 8	23 12	21 38	2 38	16 58	4 8	24 17	0 47	18 27	0 16	12 42	0 51	0 29	2 36	21 3	0 1	21 16	1 11	23 43	17 2	9 14	8 42	9 15			n.a.
T 9	23 7	16 37	1 30	16 54	4 17	24 15	0 49	18 37	0 15	12 43	0 51	0 29	2 36	21 4	0 1	21 16	1 11	23 43	17 2	9 15	8 43	9 18			n.a.
F 10	23 1	10 40	0 17	16 53	4 24	24 11	0 51	18 48	0 14	12 43	0 51	0 30	2 36	21 4	0 1	21 15	1 11	23 44	17 2	9 15	8 44	9 21			n.a.
S 11	22 55	4 10	0n58	16 53	4 31	24 7	0 53	18 58	0 14	12 44	0 51	0 30	2 37	21 5	0 1	21 15	1 11	23 44	17 3	9 15	8 45	9 24			n.a.
S 12	22 49	2n34	2 10	16 55	4 36	24 2	0 55	19 9	0 13	12 44	0 50	0 30	2 37	21 5	0 1	21 15	1 11	23 45	17 3	9 15	8 47	9 28			n.a.
M13	22 42	9 11	3 15	16 59	4 39	23 57	0 56	19 19	0 12	12 45	0 50	0 31	2 37	21 6	0 1	21 15	1 11	23 45	17 3	9 15	8 48	9 31			n.a.
T 14	22 34	15 22	4 7	17 5	4 41	23 51	0 58	19 29	0 11	12 45	0 50	0 31	2 38	21 6	0 1	21 15	1 11	23 46	17 3	9 15	8 49	9 34			n.a.
W15	22 27	20 43	4 45	17 13	4 41	23 44	1 0	19 38	0 11	12 46	0 50	0 31	2 38	21 7	0 1	21 15	1 11	23 47	17 4	9 16	8 50	9 37			n.a.
T 16	22 19	24 54	5 5	17 23	4 39	23 36	1 2	19 48	0 10	12 47	0 49	0 31	2 38	21 8	0 1	21 15	1 11	23 47	17 4	9 18	8 51	9 40			n.a.
F 17	22 10	27 33	5 6	17 34	4 35	23 27	1 3	19 58	0 9	12 48	0 49	0 31	2 38	21 8	0 1	21 14	1 11	23 48	17 4	9 20	8 53	9 44			n.a.
S 18	22 1	28 29	4 50	17 47	4 30	23 18	1 5	20 7	0 8	12 49	0 49	0 31	2 39	21 9	0 1	21 14	1 11	23 48	17 5	9 23	8 54	9 47			n.a.
S 19	21 52	27 38	4 17	18 1	4 22	23 8	1 6	20 16	0 7	12 50	0 49	0 31	2 39	21 9	0 1	21 14	1 10	23 49	17 5	9 25	8 55	9 50			n.a.
M20	21 42	25 10	3 30	18 17	4 13	22 58	1 8	20 25	0 7	12 51	0 48	0 31	2 39	21 10	0 1	21 14	1 10	23 49	17 5	9 28	8 56	9 53			n.a.
T 21	21 32	21 25	2 33	18 33	4 2	22 47	1 9	20 34	0 6	12 52	0 48	0 31	2 40	21 10	0 1	21 14	1 10	23 50	17 5	9 30	8 57	9 57			n.a.
W22	21 22	16 43	1 30	18 50	3 50	22 35	1 10	20 42	0 5	12 53	0 48	0 31	2 40	21 11	0 1	21 14	1 10	23 50	17 6	9 31	8 59	10 0			n.a.
T 23	21 11	11 25	0 23	19 7	3 36	22 22	1 12	20 51	0 4	12 55	0 47	0 30	2 40	21 11	0 1	21 14	1 10	23 51	17 6	9 31	9 0	10 3			n.a.
F 24	21 0	5 47	0s44	19 25	3 21	22 9	1 13	20 59	0 3	12 56	0 47	0 30	2 40	21 12	0 1	21 14	1 10	23 51	17 6	9 31	9 1	10 6			n.a.
S 25	20 49	0 3	1 47	19 43	3 6	21 55	1 14	21 7	0 3	12 57	0 47	0 30	2 41	21 12	0 1	21 14	1 10	23 52	17 7	9 31	9 2	10 10			n.a.
S 26	20 37	5s37	2 46	20 1	2 49	21 40	1 15	21 15	0 2	12 59	0 47	0 29	2 41	21 13	0 1	21 13	1 10	23 53	17 7	9 30	9 3	10 13			n.a.
M27	20 25	11 4	3 36	20 19	2 32	21 25	1 16	21 23	0 1	13 0	0 46	0 29	2 41	21 13	0 1	21 13	1 10	23 53	17 7	9 30	9 5	10 16			n.a.
T 28	20 12	16 7	4 18	20 36	2 14	21 9	1 17	21 31	0 0	13 2	0 46	0 29	2 42	21 13	0 1	21 13	1 10	23 54	17 7	9 29	9 6	10 19			n.a.
W29	19 59	20 37	4 49	20 52	1 57	20 53	1 18	21 38	0n 1	13 3	0 46	0 28	2 42	21 14	0 1	21 13	1 10	23 54	17 8	9 30	9 7	10 22			n.a.
T 30	19 46	24 19	5 7	21 7	1 39	20 36	1 19	21 45	0 2	13 5	0 46	0 28	2 42	21 14	0 1	21 13	1 10	23 55	17 8	9 31	9 8	10 26			n.a.
F 31	19n32	27s 0	5s12	21n21	1s21	20n18	1n20	21n53	0n 2	13s 7	0n45	0n27	2s42	21n15	0s 1	21s13	1n10	23s55	17s 8	9s32	9s 9	10s29			n.a.

Julian Day Number = 1665721.5, Delta T = 03h23m17s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'21, Lahiri = - 6°03'21 Julian Calendar 1 July 153 BCE == Greg. Calendar 28 June 153 BCE

The year -152 astronomical counting style corresponds to year 153 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 153 BCE
geocentric

AUGUST 153 BCE (-152) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 25 45	4♌42'36	20♐35	16♋57	7♌ 9	8♊16	6♏31	7°R18	4♊25	11°R 8	9°R18	5°R37	6♓39	18♎34	n.a.	S 1
S 2	20 29 42	5°40'40	3♑37	17°41	8°23	8°53	6°36	7♈17	4°27	11♐ 7	9♓17	5♓32	6°36	18°40	n.a.	S 2
M 3	20 33 38	6°38'47	17° 0	18°32	9°38	9°30	6°41	7°16	4°29	11° 6	9°16	5°28	6°32	18°47	n.a.	M 3
T 4	20 37 35	7°36'55	0♒43	19°31	10°52	10° 8	6°46	7°14	4°32	11° 6	9°15	5°24	6°29	18°54	n.a.	T 4
W 5	20 41 31	8°35'05	14°44	20°36	12° 7	10°45	6°51	7°13	4°34	11° 5	9°14	5°21	6°26	19° 1	n.a.	W 5
T 6	20 45 28	9°33'17	28°57	21°48	13°21	11°22	6°57	7°12	4°35	11° 4	9°13	5°D20	6°23	19° 7	n.a.	T 6
F 7	20 49 24	10°31'31	13♓20	23° 6	14°36	11°59	7° 2	7°10	4°37	11° 4	9°12	5°20	6°20	19°14	n.a.	F 7
S 8	20 53 21	11°29'47	27°46	24°30	15°51	12°36	7° 8	7° 9	4°39	11° 3	9°11	5°21	6°17	19°21	n.a.	S 8
S 9	20 57 18	12°28'05	12♈11	25°59	17° 5	13°13	7°14	7° 7	4°41	11° 3	9°10	5°23	6°13	19°27	n.a.	S 9
M10	21 1 14	13°26'25	26°32	27°32	18°20	13°49	7°20	7° 5	4°43	11° 2	9° 9	5°24	6°10	19°34	n.a.	M10
T 11	21 5 11	14°24'47	10♉45	29° 9	19°34	14°26	7°26	7° 3	4°45	11° 2	9° 8	5°R24	6° 7	19°41	n.a.	T 11
W12	21 9 7	15°23'12	24°49	0♌50	20°49	15° 3	7°32	7° 1	4°46	11° 1	9° 7	5°24	6° 4	19°47	n.a.	W12
T 13	21 13 4	16°21'39	8♊42	2°34	22° 4	15°39	7°38	6°59	4°48	11° 1	9° 6	5°23	6° 1	19°54	n.a.	T 13
F 14	21 17 0	17°20'09	22°23	4°20	23°19	16°15	7°45	6°57	4°50	11° 0	9° 4	5°21	5°57	20° 1	n.a.	F 14
S 15	21 20 57	18°18'41	5♋51	6° 8	24°33	16°51	7°52	6°55	4°51	11° 0	9° 3	5°19	5°54	20° 7	n.a.	S 15
S 16	21 24 53	19°17'14	19° 6	7°58	25°48	17°28	7°59	6°53	4°53	10°59	9° 2	5°17	5°51	20°14	n.a.	S 16
M17	21 28 50	20°15'50	2♌ 6	9°48	27° 3	18° 4	8° 6	6°50	4°54	10°59	9° 1	5°15	5°48	20°21	n.a.	M17
T 18	21 32 47	21°14'29	14°53	11°40	28°17	18°40	8°13	6°47	4°56	10°59	9° 0	5°13	5°45	20°27	n.a.	T 18
W19	21 36 43	22°13'09	27°26	13°32	29°32	19°15	8°20	6°45	4°57	10°59	8°59	5°12	5°42	20°34	n.a.	W19
T 20	21 40 40	23°11'51	9♍45	15°24	0♍47	19°51	8°28	6°42	4°58	10°58	8°58	5°D12	5°38	20°41	n.a.	T 20
F 21	21 44 36	24°10'35	21°54	17°17	2° 2	20°27	8°35	6°39	4°59	10°58	8°57	5°13	5°35	20°47	n.a.	F 21
S 22	21 48 33	25° 9'21	3♎53	19° 9	3°17	21° 2	8°43	6°36	5° 1	10°58	8°56	5°13	5°32	20°54	n.a.	S 22
S 23	21 52 29	26° 8'09	15°45	21° 1	4°31	21°37	8°51	6°33	5° 2	10°58	8°54	5°14	5°29	21° 1	n.a.	S 23
M24	21 56 26	27° 6'59	27°35	22°52	5°46	22°13	8°59	6°30	5° 3	10°58	8°53	5°15	5°26	21° 8	n.a.	M24
T 25	22 0 22	28° 5'50	9♏26	24°43	7° 1	22°48	9° 7	6°27	5° 4	10°58	8°52	5°16	5°22	21°14	n.a.	T 25
W26	22 4 19	29° 4'44	21°22	26°33	8°16	23°23	9°15	6°24	5° 5	10°D58	8°51	5°16	5°19	21°21	n.a.	W26
T 27	22 8 16	0♍ 3'40	3♐28	28°22	9°30	23°58	9°23	6°20	5° 6	10°58	8°50	5°R16	5°16	21°28	n.a.	T 27
F 28	22 12 12	1° 2'37	15°49	0♍11	10°45	24°32	9°32	6°17	5° 7	10°58	8°49	5°16	5°13	21°34	n.a.	F 28
S 29	22 16 9	2° 1'36	28°29	1°59	12° 0	25° 7	9°41	6°13	5° 8	10°58	8°47	5°16	5°10	21°41	n.a.	S 29
S 30	22 20 5	3° 0'38	11♑31	3°46	13°15	25°41	9°49	6°10	5° 9	10°58	8°46	5°16	5° 7	21°48	n.a.	S 30
M31	22 24 2	3♍59'41	24♑58	5♍32	14♍30	26♊16	9♏58	6♈ 6	5♊ 9	10♐58	8♓45	5♓15	5♓ 3	21♎54	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	19n18	28s24	5s 2	21n34	1s 4	20n 0	1n21	21n59	0n 3	13s 8	0n45	0n26	2s43	21n15	0s 1	21s13	1n10	23s56	17s 8	9s33	9s10	10s32		n.a.
S 2	19 4	28 16	4 36	21 45	0 47	19 41	1 21	22 6	0 4	13 10	0 45	0 26	2 43	21 16	0 1	21 13	1 10	23 57	17 8	9 35	9 12	10 35		n.a.
M 3	18 50	26 30	3 54	21 54	0 31	19 22	1 22	22 13	0 5	13 12	0 45	0 25	2 43	21 16	0 1	21 13	1 10	23 57	17 9	9 37	9 13	10 38		n.a.
T 4	18 35	23 8	2 59	22 1	0 16	19 2	1 23	22 19	0 6	13 14	0 45	0 24	2 44	21 16	0 1	21 13	1 10	23 58	17 9	9 38	9 14	10 41		n.a.
W 5	18 19	18 22	1 51	22 6	0 1	18 41	1 23	22 26	0 7	13 16	0 44	0 24	2 44	21 17	0 1	21 13	1 10	23 58	17 9	9 39	9 15	10 45		n.a.
T 6	18 4	12 31	0 35	22 9	0n13	18 20	1 24	22 32	0 8	13 18	0 44	0 23	2 44	21 17	0 1	21 13	1 10	23 59	17 9	9 40	9 16	10 48		n.a.
F 7	17 48	5 57	0n44	22 9	0 27	17 59	1 24	22 38	0 9	13 20	0 44	0 22	2 44	21 17	0 1	21 13	1 10	23 59	17 9	9 40	9 18	10 51		n.a.
S 8	17 32	0n56	2 0	22 6	0 39	17 37	1 24	22 43	0 9	13 22	0 44	0 21	2 45	21 18	0 1	21 13	1 10	24 0	17 10	9 39	9 19	10 54		n.a.
S 9	17 16	7 46	3 9	22 1	0 50	17 14	1 25	22 49	0 10	13 24	0 43	0 20	2 45	21 18	0 1	21 13	1 10	24 1	17 10	9 39	9 20	10 57		n.a.
M10	16 59	14 9	4 6	21 53	1 0	16 51	1 25	22 55	0 11	13 26	0 43	0 19	2 45	21 18	0 1	21 13	1 10	24 1	17 10	9 38	9 21	11 1		n.a.
T 11	16 42	19 45	4 47	21 42	1 9	16 28	1 25	23 0	0 12	13 28	0 43	0 18	2 45	21 19	0 1	21 12	1 10	24 2	17 10	9 38	9 22	11 4		n.a.
W12	16 24	24 12	5 10	21 28	1 18	16 4	1 25	23 5	0 13	13 31	0 43	0 17	2 46	21 19	0 1	21 12	1 9	24 2	17 10	9 38	9 24	11 7		n.a.
T 13	16 7	27 11	5 15	21 11	1 25	15 39	1 25	23 10	0 14	13 33	0 42	0 16	2 46	21 19	0 1	21 12	1 9	24 3	17 11	9 39	9 25	11 10		n.a.
F 14	15 49	28 31	5 1	20 52	1 31	15 14	1 25	23 15	0 15	13 35	0 42	0 15	2 46	21 20	0 1	21 12	1 9	24 3	17 11	9 39	9 26	11 13		n.a.
S 15	15 31	28 7	4 32	20 31	1 36	14 49	1 25	23 19	0 16	13 38	0 42	0 14	2 46	21 20	0 1	21 12	1 9	24 4	17 11	9 40	9 27	11 16		n.a.
S 16	15 13	26 6	3 48	20 6	1 41	14 23	1 25	23 24	0 17	13 40	0 42	0 13	2 47	21 20	0 1	21 12	1 9	24 4	17 11	9 41	9 28	11 20		n.a.
M17	14 54	22 43	2 53	19 40	1 44	13 57	1 24	23 28	0 18	13 43	0 42	0 12	2 47	21 21	0 1	21 12	1 9	24 5	17 11	9 42	9 29	11 23		n.a.
T 18	14 35	18 19	1 50	19 12	1 47	13 31	1 24	23 32	0 19	13 45	0 41	0 10	2 47	21 21	0 1	21 12	1 9	24 6	17 11	9 42	9 31	11 26		n.a.
W19	14 16	13 11	0 43	18 41	1 48	13 4	1 24	23 36	0 20	13 48	0 41	0 9	2 47	21 21	0 1	21 12	1 9	24 6	17 11	9 43	9 32	11 29		n.a.
T 20	13 57	7 37	0s25	18 9	1 50	12 37	1 23	23 40	0 21	13 51	0 41	0 8	2 48	21 21	0 1	21 12	1 9	24 7	17 11	9 43	9 33	11 32		n.a.
F 21	13 37	1 51	1 31	17 35	1 50	12 9	1 23	23 43	0 21	13 53	0 41	0 6	2 48	21 22	0 1	21 12	1 9	24 7	17 12	9 43	9 34	11 35		n.a.
S 22	13 17	3s53	2 32	16 59	1 49	11 42	1 22	23 47	0 22	13 56	0 40	0 5	2 48	21 22	0 1	21 13	1 9	24 8	17 12	9 42	9 35	11 38		n.a.
S 23	12 57	9 26	3 26	16 22	1 49	11 13	1 21	23 50	0 23	13 59	0 40	0 4	2 48	21 22	0 1	21 13	1 9	24 8	17 12	9 42	9 37	11 41		n.a.
M24	12 37	14 38	4 11	15 44	1 47	10 45	1 21	23 53	0 24	14 1	0 40	0 2	2 48	21 22	0 1	21 13	1 9	24 9	17 12	9 42	9 38	11 45		n.a.
T 25	12 16	19 18	4 46	15 5	1 45	10 16	1 20	23 56	0 25	14 4	0 40	0 1	2 49	21 22	0 1	21 13	1 9	24 9	17 12	9 41	9 39	11 48		n.a.
W26	11 56	23 15	5 8	14 25	1 42	9 47	1 19	23 59	0 26	14 7	0 40	0s 1	2 49	21 23	0 1	21 13	1 9	24 10	17 12	9 41	9 40	11 51		n.a.
T 27	11 35	26 16	5 17	13 43	1 39	9 18	1 18	24 2	0 27	14 10	0 39	0 2	2 49	21 23	0 1	21 13	1 9	24 10	17 12	9 41	9 41	11 54		n.a.
F 28	11 14	28 7	5 12	13 2	1 36	8 48	1 17	24 5	0 28	14 13	0 39	0 4	2 49	21 23	0 1	21 13	1 9	24 11	17 12	9 41	9 42	11 57		n.a.
S 29	10 52	28 34	4 52	12 19	1 32	8 19	1 16	24 7	0 29	14 16	0 39	0 5	2 49	21 23	0 1	21 13	1 9	24 11	17 12	9 41	9 44	12 0		n.a.
S 30	10 31	27 28	4 16	11 36	1 28	7 49	1 15	24 9	0 30	14 19	0 39	0 7	2 50	21 23	0 1	21 13	1 9	24 12	17 12	9 41	9 45	12 3		n.a.
M31	10n 9	24s45	3s26	10n53	1n23	7n18	1n14	24n11	0n32	14s22	0n39	0s 9	2s50	21n23	0s 1	21s13	1n 9	24s12	17s12	9s41	9s46	12s 6		n.a.

Julian Day Number = 1665752.5, Delta T = 03h23m16s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'17, Lahiri = - 6°03'17 Julian Calendar 1 Aug. 153 BCE == Greg. Calendar 29 July 153 BCE

The year -152 astronomical counting style corresponds to year 153 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 153 BCE
geocentric

SEPTEMBER 153 BCE (-152) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 27 58	4♍58'46	8♒50	7♍18	15♍45	26♊50	10♏ 7	6°R 2	5♊10	10♐58	8°R44	5°D15	5♓ 0	22♎ 1	n.a.	T 1
W 2	22 31 55	5°57'53	23° 5	9° 2	16°59	27°24	10°16	5♈59	5°11	10°58	8♓43	5♓15	4°57	22° 8	n.a.	W 2
T 3	22 35 51	6°57'02	7♓39	10°46	18°14	27°58	10°26	5°55	5°11	10°59	8°42	5°R15	4°54	22°14	n.a.	T 3
F 4	22 39 48	7°56'13	22°26	12°28	19°29	28°32	10°35	5°51	5°12	10°59	8°40	5°15	4°51	22°21	n.a.	F 4
S 5	22 43 44	8°55'26	7♈19	14°10	20°44	29° 6	10°44	5°47	5°12	10°59	8°39	5°15	4°48	22°28	n.a.	S 5
S 6	22 47 41	9°54'42	22°10	15°52	21°59	29°39	10°54	5°43	5°13	10°59	8°38	5°15	4°44	22°34	n.a.	S 6
M 7	22 51 38	10°54'00	6♉52	17°32	23°14	0♋13	11° 4	5°38	5°13	11° 0	8°37	5°14	4°41	22°41	n.a.	M 7
T 8	22 55 34	11°53'20	21°20	19°11	24°28	0°46	11°13	5°34	5°14	11° 0	8°36	5°14	4°38	22°48	n.a.	T 8
W 9	22 59 31	12°52'43	5♊29	20°50	25°43	1°19	11°23	5°30	5°14	11° 1	8°34	5°13	4°35	22°55	n.a.	W 9
T 10	23 3 27	13°52'09	19°19	22°28	26°58	1°53	11°33	5°26	5°14	11° 1	8°33	5°D13	4°32	23° 1	n.a.	T 10
F 11	23 7 24	14°51'37	2♋49	24° 5	28°13	2°25	11°43	5°21	5°14	11° 2	8°32	5°14	4°28	23° 8	n.a.	F 11
S 12	23 11 20	15°51'07	16° 0	25°42	29°28	2°58	11°53	5°17	5°14	11° 2	8°31	5°14	4°25	23°15	n.a.	S 12
S 13	23 15 17	16°50'40	28°54	27°18	0♎43	3°31	12° 4	5°13	5°14	11° 3	8°30	5°15	4°22	23°21	n.a.	S 13
M14	23 19 13	17°50'15	11♌34	28°53	1°58	4° 3	12°14	5° 8	5°R14	11° 3	8°29	5°16	4°19	23°28	n.a.	M14
T 15	23 23 10	18°49'53	24° 1	0♎27	3°12	4°36	12°25	5° 3	5°14	11° 4	8°27	5°17	4°16	23°35	n.a.	T 15
W16	23 27 7	19°49'32	6♍17	2° 1	4°27	5° 8	12°35	4°59	5°14	11° 5	8°26	5°R18	4°13	23°41	n.a.	W16
T 17	23 31 3	20°49'14	18°24	3°34	5°42	5°40	12°46	4°54	5°14	11° 5	8°25	5°17	4° 9	23°48	n.a.	T 17
F 18	23 35 0	21°48'58	0♎24	5° 7	6°57	6°12	12°57	4°50	5°14	11° 6	8°24	5°16	4° 6	23°55	n.a.	F 18
S 19	23 38 56	22°48'43	12°18	6°38	8°12	6°43	13° 8	4°45	5°14	11° 7	8°23	5°14	4° 3	24° 1	n.a.	S 19
S 20	23 42 53	23°48'31	24° 9	8°10	9°27	7°15	13°19	4°40	5°13	11° 8	8°22	5°11	4° 0	24° 8	n.a.	S 20
M21	23 46 49	24°48'21	5♏58	9°40	10°42	7°46	13°30	4°35	5°13	11° 8	8°21	5° 7	3°57	24°15	n.a.	M21
T 22	23 50 46	25°48'13	17°49	11°10	11°56	8°17	13°41	4°31	5°13	11° 9	8°19	5° 4	3°54	24°21	n.a.	T 22
W23	23 54 42	26°48'07	29°45	12°40	13°11	8°48	13°52	4°26	5°12	11°10	8°18	5° 1	3°50	24°28	n.a.	W23
T 24	23 58 39	27°48'02	11♐49	14° 8	14°26	9°19	14° 3	4°21	5°12	11°11	8°17	4°59	3°47	24°35	n.a.	T 24
F 25	0 2 36	28°47'59	24° 6	15°36	15°41	9°49	14°15	4°16	5°11	11°12	8°16	4°D58	3°44	24°42	n.a.	F 25
S 26	0 6 32	29°47'58	6♑40	17° 4	16°56	10°20	14°26	4°11	5°10	11°13	8°15	4°58	3°41	24°48	n.a.	S 26
S 27	0 10 29	0♎47'59	19°36	18°31	18°11	10°50	14°38	4° 6	5°10	11°14	8°14	4°59	3°38	24°55	n.a.	S 27
M28	0 14 25	1°48'02	2♒56	19°57	19°26	11°20	14°50	4° 2	5° 9	11°15	8°13	5° 1	3°34	25° 2	n.a.	M28
T 29	0 18 22	2°48'06	16°43	21°22	20°40	11°50	15° 1	3°57	5° 8	11°16	8°12	5° 2	3°31	25° 8	n.a.	T 29
W30	0 22 18	3♎48'12	0♓59	22♎47	21♎55	12♋19	15♏13	3♈52	5♊ 8	11♐17	8♓11	5°R 3	3♓28	25♎15	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n48	20s32	2s22	10n 9	1n18	6n48	1n13	24n13	0n33	14s25	0n38	0s10	2s50	21n24	0s 1	21s13	1n 9	24s13	17s12	9s41	9s47	12s10		n.a.
W 2	9 26	15 2	1 7	9 24	1 13	6 17	1 12	24 15	0 34	14 28	0 38	0 12	2 50	21 24	0 1	21 13	1 8	24 13	17 12	9 41	9 48	12 13		n.a.
T 3	9 4	8 36	0n13	8 40	1 8	5 47	1 10	24 17	0 35	14 31	0 38	0 14	2 50	21 24	0 1	21 13	1 8	24 14	17 12	9 41	9 49	12 16		n.a.
F 4	8 41	1 36	1 34	7 55	1 2	5 16	1 9	24 18	0 36	14 34	0 38	0 15	2 51	21 24	0 1	21 13	1 8	24 14	17 12	9 42	9 51	12 19		n.a.
S 5	8 19	5n31	2 49	7 10	0 57	4 45	1 7	24 20	0 37	14 37	0 38	0 17	2 51	21 24	0 1	21 13	1 8	24 15	17 12	9 42	9 52	12 22		n.a.
S 6	7 56	12 19	3 52	6 25	0 51	4 13	1 6	24 21	0 38	14 40	0 37	0 19	2 51	21 24	0 1	21 13	1 8	24 15	17 12	9 42	9 53	12 25		n.a.
M 7	7 34	18 21	4 39	5 40	0 45	3 42	1 4	24 22	0 39	14 44	0 37	0 21	2 51	21 24	0 1	21 14	1 8	24 16	17 12	9 42	9 54	12 28		n.a.
T 8	7 11	23 15	5 8	4 55	0 38	3 11	1 3	24 23	0 40	14 47	0 37	0 23	2 51	21 24	0 1	21 14	1 8	24 16	17 12	9 42	9 55	12 31		n.a.
W 9	6 48	26 40	5 17	4 10	0 32	2 39	1 1	24 24	0 41	14 50	0 37	0 24	2 51	21 24	0 1	21 14	1 8	24 17	17 12	9 42	9 56	12 34		n.a.
T 10	6 25	28 23	5 8	3 25	0 25	2 8	0 59	24 24	0 42	14 53	0 37	0 26	2 51	21 24	0 1	21 14	1 8	24 17	17 12	9 42	9 58	12 37		n.a.
F 11	6 2	28 22	4 41	2 40	0 19	1 36	0 58	24 25	0 43	14 57	0 37	0 28	2 51	21 24	0 1	21 14	1 8	24 18	17 12	9 42	9 59	12 40		n.a.
S 12	5 39	26 43	4 0	1 55	0 12	1 4	0 56	24 25	0 45	15 0	0 36	0 30	2 52	21 25	0 1	21 14	1 8	24 18	17 12	9 42	10 0	12 43		n.a.
S 13	5 15	23 41	3 8	1 10	0 5	0 32	0 54	24 26	0 46	15 4	0 36	0 32	2 52	21 25	0 1	21 14	1 8	24 18	17 12	9 41	10 1	12 47		n.a.
M14	4 52	19 33	2 8	0 26	0s 1	0 1	0 52	24 26	0 47	15 7	0 36	0 34	2 52	21 25	0 1	21 14	1 8	24 19	17 12	9 41	10 2	12 50		n.a.
T 15	4 28	14 39	1 2	0s18	0 8	0s31	0 50	24 26	0 48	15 10	0 36	0 36	2 52	21 25	0 1	21 14	1 8	24 19	17 12	9 41	10 4	12 53		n.a.
W16	4 4	9 13	0s 5	1 2	0 15	1 3	0 48	24 26	0 49	15 14	0 36	0 38	2 52	21 25	0 1	21 15	1 8	24 20	17 12	9 41	10 5	12 56		n.a.
T 17	3 41	3 32	1 12	1 46	0 22	1 35	0 46	24 26	0 50	15 17	0 35	0 39	2 52	21 25	0 1	21 15	1 8	24 20	17 12	9 41	10 6	12 59		n.a.
F 18	3 17	2s13	2 14	2 30	0 29	2 7	0 44	24 26	0 52	15 21	0 35	0 41	2 52	21 24	0 1	21 15	1 8	24 20	17 12	9 41	10 7	13 2		n.a.
S 19	2 53	7 50	3 10	3 13	0 36	2 39	0 42	24 25	0 53	15 24	0 35	0 43	2 52	21 24	0 1	21 15	1 8	24 21	17 12	9 42	10 8	13 5		n.a.
S 20	2 29	13 9	3 58	3 55	0 43	3 10	0 40	24 25	0 54	15 28	0 35	0 45	2 52	21 24	0 1	21 15	1 8	24 21	17 12	9 43	10 9	13 8		n.a.
M21	2 5	17 59	4 35	4 38	0 49	3 42	0 38	24 24	0 55	15 31	0 35	0 47	2 52	21 24	0 1	21 15	1 8	24 21	17 12	9 44	10 11	13 11		n.a.
T 22	1 41	22 8	5 0	5 20	0 56	4 14	0 36	24 23	0 56	15 35	0 35	0 49	2 52	21 24	0 1	21 16	1 8	24 22	17 11	9 46	10 12	13 14		n.a.
W23	1 17	25 25	5 13	6 1	1 3	4 45	0 33	24 23	0 58	15 38	0 34	0 51	2 52	21 24	0 1	21 16	1 7	24 22	17 11	9 47	10 13	13 17		n.a.
T 24	0 53	27 37	5 12	6 42	1 10	5 17	0 31	24 22	0 59	15 42	0 34	0 53	2 53	21 24	0 1	21 16	1 7	24 22	17 11	9 47	10 14	13 20		n.a.
F 25	0 29	28 32	4 57	7 23	1 16	5 48	0 29	24 21	1 0	15 45	0 34	0 55	2 53	21 24	0 1	21 16	1 7	24 23	17 11	9 48	10 15	13 23		n.a.
S 26	0 5	28 0	4 28	8 3	1 23	6 19	0 26	24 20	1 1	15 49	0 34	0 57	2 53	21 24	0 1	21 16	1 7	24 23	17 11	9 48	10 16	13 26		n.a.
S 27	0s19	25 58	3 44	8 42	1 29	6 50	0 24	24 19	1 3	15 53	0 34	0 59	2 53	21 24	0 1	21 16	1 7	24 23	17 11	9 47	10 18	13 29		n.a.
M28	0 43	22 26	2 47	9 21	1 35	7 21	0 22	24 17	1 4	15 56	0 34	1 1	2 53	21 24	0 1	21 17	1 7	24 24	17 11	9 47	10 19	13 32		n.a.
T 29	1 8	17 34	1 39	9 59	1 41	7 52	0 19	24 16	1 5	16 0	0 34	1 3	2 53	21 24	0 1	21 17	1 7	24 24	17 11	9 46	10 20	13 35		n.a.
W30	1s32	11s36	0s22	10s37	1s47	8s23	0n17	24n15	1n 7	16s 3	0n33	1s 5	2s53	21n23	0s 1	21s17	1n 7	24s24	17s10	9s46	10s21	13s38		n.a.

Julian Day Number = 1665783.5, Delta T = 03h23m15s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'13, Lahiri = - 6°03'12 Julian Calendar 1 Sept. 153 BCE == Greg. Calendar 29 Aug. 153 BCE

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ASTRODIENST EPHEMERIS for the year 153 BCE
geocentric

OCTOBER 153 BCE (-152) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 26 15	4♎48'19	15♓39	24♎10	23♎10	12♋49	15♏25	3°R47	5°R 7	11♐18	8°R10	5°R 3	3♓25	25♎22	n.a.	T 1
F 2	0 30 11	5°48'29	0♈39	25°33	24°25	13°18	15°37	3♈42	5♊ 6	11°20	8♓ 9	5♓ 1	3°22	25°28	n.a.	F 2
S 3	0 34 8	6°48'40	15°51	26°55	25°40	13°47	15°49	3°37	5° 5	11°21	8° 8	4°58	3°19	25°35	n.a.	S 3
S 4	0 38 4	7°48'53	1♉ 5	28°17	26°54	14°16	16° 1	3°32	5° 4	11°22	8° 7	4°53	3°15	25°42	n.a.	S 4
M 5	0 42 1	8°49'09	16°10	29°37	28° 9	14°44	16°13	3°27	5° 3	11°23	8° 6	4°48	3°12	25°48	n.a.	M 5
T 6	0 45 58	9°49'26	0♊57	0♏56	29°24	15°13	16°25	3°23	5° 2	11°25	8° 5	4°43	3° 9	25°55	n.a.	T 6
W 7	0 49 54	10°49'46	15°21	2°13	0♏39	15°41	16°38	3°18	5° 0	11°26	8° 4	4°40	3° 6	26° 2	n.a.	W 7
T 8	0 53 51	11°50'08	29°18	3°29	1°53	16° 9	16°50	3°13	4°59	11°27	8° 3	4°37	3° 3	26° 9	n.a.	T 8
F 9	0 57 47	12°50'32	12♋49	4°44	3° 8	16°36	17° 2	3° 8	4°58	11°29	8° 2	4°D36	3° 0	26°15	n.a.	F 9
S 10	1 1 44	13°50'57	25°54	5°57	4°23	17° 4	17°15	3° 3	4°57	11°30	8° 1	4°37	2°56	26°22	n.a.	S 10
S 11	1 5 40	14°51'25	8♌39	7° 8	5°38	17°31	17°27	2°59	4°55	11°31	8° 0	4°39	2°53	26°29	n.a.	S 11
M12	1 9 37	15°51'55	21° 6	8°17	6°52	17°58	17°40	2°54	4°54	11°33	7°59	4°40	2°50	26°35	n.a.	M12
T 13	1 13 33	16°52'27	3♍19	9°24	8° 7	18°25	17°53	2°49	4°52	11°34	7°58	4°R41	2°47	26°42	n.a.	T 13
W14	1 17 30	17°53'00	15°23	10°28	9°22	18°51	18° 5	2°45	4°51	11°36	7°57	4°40	2°44	26°49	n.a.	W14
T 15	1 21 27	18°53'36	27°19	11°29	10°37	19°17	18°18	2°40	4°49	11°37	7°56	4°37	2°40	26°55	n.a.	T 15
F 16	1 25 23	19°54'13	9♎12	12°26	11°51	19°43	18°31	2°36	4°48	11°39	7°56	4°33	2°37	27° 2	n.a.	F 16
S 17	1 29 20	20°54'52	21° 3	13°20	13° 6	20° 8	18°44	2°31	4°46	11°40	7°55	4°25	2°34	27° 9	n.a.	S 17
S 18	1 33 16	21°55'32	2♏53	14° 9	14°21	20°34	18°57	2°27	4°45	11°42	7°54	4°16	2°31	27°16	n.a.	S 18
M19	1 37 13	22°56'14	14°45	14°53	15°36	20°59	19°10	2°22	4°43	11°44	7°53	4° 7	2°28	27°22	n.a.	M19
T 20	1 41 9	23°56'57	26°39	15°32	16°50	21°23	19°23	2°18	4°41	11°45	7°52	3°56	2°25	27°29	n.a.	T 20
W21	1 45 6	24°57'42	8♐38	16° 4	18° 5	21°48	19°36	2°13	4°39	11°47	7°52	3°47	2°21	27°36	n.a.	W21
T 22	1 49 2	25°58'28	20°45	16°30	19°20	22°12	19°49	2° 9	4°37	11°49	7°51	3°40	2°18	27°42	n.a.	T 22
F 23	1 52 59	26°59'16	3♑ 2	16°48	20°34	22°35	20° 2	2° 5	4°36	11°50	7°50	3°34	2°15	27°49	n.a.	F 23
S 24	1 56 56	28° 0'04	15°33	16°57	21°49	22°59	20°15	2° 1	4°34	11°52	7°49	3°31	2°12	27°56	n.a.	S 24
S 25	2 0 52	29° 0'54	28°21	16°R57	23° 4	23°22	20°28	1°57	4°32	11°54	7°49	3°D30	2° 9	28° 2	n.a.	S 25
M26	2 4 49	0♏ 1'45	11♒31	16°47	24°18	23°45	20°42	1°53	4°30	11°56	7°48	3°31	2° 5	28° 9	n.a.	M26
T 27	2 8 45	1° 2'36	25° 7	16°27	25°33	24° 7	20°55	1°49	4°28	11°58	7°47	3°32	2° 2	28°16	n.a.	T 27
W28	2 12 42	2° 3'29	9♓10	15°56	26°47	24°29	21° 8	1°45	4°26	11°59	7°47	3°R32	1°59	28°23	n.a.	W28
T 29	2 16 38	3° 4'23	23°41	15°14	28° 2	24°51	21°22	1°41	4°24	12° 1	7°46	3°30	1°56	28°29	n.a.	T 29
F 30	2 20 35	4° 5'17	8♈35	14°21	29°17	25°12	21°35	1°37	4°22	12° 3	7°46	3°26	1°53	28°36	n.a.	F 30
S 31	2 24 31	5♏ 6'13	23♈48	13♏18	0♐31	25♋33	21♏48	1♈34	4♊19	12♐ 5	7♓45	3♓19	1♓50	28♎43	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	1s56	4s50	0n58	11s14	1s53	8s53	0n14	24n13	1n 8	16s 7	0n33	1s 7	2s53	21n23	0s 1	21s17	1n 7	24s24	17s10	9s46	10s22	13s41		n.a.
F 2	2 20	2n20	2 16	11 50	1 59	9 23	0 12	24 11	1 9	16 11	0 33	1 9	2 53	21 23	0 1	21 17	1 7	24 25	17 10	9 47	10 23	13 44		n.a.
S 3	2 44	9 27	3 25	12 25	2 4	9 53	0 9	24 10	1 11	16 14	0 33	1 11	2 53	21 23	0 1	21 18	1 7	24 25	17 10	9 48	10 24	13 47		n.a.
S 4	3 8	16 1	4 19	12 59	2 9	10 23	0 7	24 8	1 12	16 18	0 33	1 13	2 53	21 23	0 1	21 18	1 7	24 25	17 10	9 50	10 26	13 50		n.a.
M 5	3 32	21 34	4 55	13 33	2 14	10 52	0 4	24 6	1 13	16 22	0 33	1 15	2 53	21 23	0 1	21 18	1 7	24 25	17 9	9 52	10 27	13 53		n.a.
T 6	3 56	25 39	5 11	14 5	2 19	11 22	0 2	24 5	1 15	16 25	0 32	1 17	2 52	21 22	0 1	21 18	1 7	24 26	17 9	9 53	10 28	13 56		n.a.
W 7	4 20	27 58	5 6	14 37	2 23	11 51	0s 1	24 3	1 16	16 29	0 32	1 18	2 52	21 22	0 1	21 19	1 7	24 26	17 9	9 55	10 29	13 59		n.a.
T 8	4 44	28 26	4 43	15 7	2 27	12 19	0 4	24 1	1 18	16 33	0 32	1 20	2 52	21 22	0 1	21 19	1 7	24 26	17 9	9 56	10 30	14 2		n.a.
F 9	5 8	27 9	4 5	15 36	2 31	12 48	0 6	23 59	1 19	16 36	0 32	1 22	2 52	21 22	0 1	21 19	1 7	24 26	17 9	9 56	10 31	14 5		n.a.
S 10	5 31	24 24	3 15	16 4	2 34	13 16	0 9	23 57	1 21	16 40	0 32	1 24	2 52	21 22	0 1	21 19	1 7	24 26	17 8	9 56	10 33	14 8		n.a.
S 11	5 55	20 30	2 17	16 31	2 36	13 44	0 11	23 55	1 22	16 44	0 32	1 26	2 52	21 21	0 1	21 19	1 7	24 27	17 8	9 55	10 34	14 11		n.a.
M12	6 19	15 47	1 13	16 56	2 39	14 11	0 14	23 52	1 23	16 47	0 32	1 28	2 52	21 21	0 1	21 20	1 7	24 27	17 8	9 55	10 35	14 14		n.a.
T 13	6 42	10 31	0 7	17 19	2 41	14 38	0 17	23 50	1 25	16 51	0 31	1 29	2 52	21 21	0 1	21 20	1 7	24 27	17 8	9 54	10 36	14 17		n.a.
W14	7 6	4 57	0s58	17 41	2 42	15 5	0 19	23 48	1 26	16 55	0 31	1 31	2 52	21 21	0 1	21 20	1 7	24 27	17 8	9 55	10 37	14 20		n.a.
T 15	7 29	0s45	1 59	18 1	2 42	15 31	0 22	23 46	1 28	16 59	0 31	1 33	2 52	21 20	0 0	21 20	1 7	24 27	17 7	9 56	10 38	14 23		n.a.
F 16	7 52	6 22	2 55	18 19	2 42	15 57	0 24	23 44	1 30	17 2	0 31	1 35	2 52	21 20	0 0	21 21	1 6	24 27	17 7	9 57	10 40	14 26		n.a.
S 17	8 15	11 45	3 44	18 35	2 41	16 23	0 27	23 41	1 31	17 6	0 31	1 36	2 52	21 20	0 0	21 21	1 6	24 27	17 7	10 0	10 41	14 29		n.a.
S 18	8 38	16 42	4 22	18 48	2 39	16 48	0 30	23 39	1 33	17 10	0 31	1 38	2 52	21 19	0 0	21 21	1 6	24 27	17 7	10 3	10 42	14 32		n.a.
M19	9 1	21 2	4 49	18 59	2 37	17 13	0 32	23 37	1 34	17 13	0 31	1 40	2 51	21 19	0 0	21 21	1 6	24 27	17 6	10 7	10 43	14 35		n.a.
T 20	9 24	24 33	5 4	19 7	2 33	17 37	0 35	23 34	1 36	17 17	0 31	1 41	2 51	21 19	0 0	21 22	1 6	24 27	17 6	10 11	10 44	14 38		n.a.
W21	9 46	27 1	5 5	19 12	2 28	18 1	0 37	23 32	1 38	17 21	0 30	1 43	2 51	21 18	0 0	21 22	1 6	24 28	17 6	10 14	10 45	14 41		n.a.
T 22	10 9	28 15	4 53	19 13	2 22	18 24	0 40	23 30	1 39	17 25	0 30	1 45	2 51	21 18	0 0	21 22	1 6	24 28	17 5	10 17	10 46	14 43		n.a.
F 23	10 31	28 8	4 27	19 12	2 14	18 47	0 43	23 27	1 41	17 28	0 30	1 46	2 51	21 18	0 0	21 22	1 6	24 28	17 5	10 19	10 48	14 46		n.a.
S 24	10 53	26 34	3 48	19 6	2 6	19 9	0 45	23 25	1 43	17 32	0 30	1 48	2 51	21 17	0 0	21 23	1 6	24 28	17 5	10 20	10 49	14 49		n.a.
S 25	11 15	23 37	2 57	18 56	1 55	19 31	0 48	23 23	1 44	17 36	0 30	1 49	2 51	21 17	0 0	21 23	1 6	24 28	17 5	10 20	10 50	14 52		n.a.
M26	11 37	19 22	1 55	18 42	1 43	19 52	0 50	23 20	1 46	17 39	0 30	1 51	2 50	21 17	0 0	21 23	1 6	24 28	17 4	10 20	10 51	14 55		n.a.
T 27	11 58	14 0	0 45	18 23	1 30	20 13	0 52	23 18	1 48	17 43	0 30	1 52	2 50	21 16	0 0	21 24	1 6	24 28	17 4	10 20	10 52	14 58		n.a.
W28	12 20	7 46	0n30	17 59	1 15	20 33	0 55	23 16	1 49	17 47	0 30	1 53	2 50	21 16	0 0	21 24	1 6	24 28	17 4	10 20	10 53	15 1		n.a.
T 29	12 41	0 56	1 45	17 31	0 58	20 53	0 57	23 14	1 51	17 50	0 29	1 55	2 50	21 16	0 0	21 24	1 6	24 27	17 3	10 20	10 55	15 4		n.a.
F 30	13 2	6n 8	2 56	16 58	0 40	21 12	1 0	23 12	1 53	17 54	0 29	1 56	2 50	21 15	0 0	21 24	1 6	24 27	17 3	10 22	10 56	15 7		n.a.
S 31	13s22	12n58	3n55	16s20	0s20	21s30	1s 2	23n 9	1n55	17s57	0n29	1s57	2s49	21n15	0s 0	21s25	1n 6	24s27	17s 3	10s24	10s57	15s10		n.a.

Julian Day Number = 1665813.5, Delta T = 03h23m14s
Ecliptic obliquity = 23°42'58, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'09, Lahiri = - 6°03'08 Julian Calendar 1 Oct. 153 BCE == Greg. Calendar 28 Sept. 153 BCE

The year -152 astronomical counting style corresponds to year 153 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 153 BCE
geocentric

NOVEMBER 153 BCE (-152) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 28 28	6♏ 7'09	9♉ 9	12°R 8	1♐46	25♋54	22♏ 2	1°R30	4°R17	12♐ 7	7°R45	3°R10	1♓46	28♎49	n.a.	S 1
M 2	2 32 25	7° 8'07	24°26	10♏50	3° 0	26°14	22°15	1♈27	4♊15	12° 9	7♓44	3♓ 0	1°43	28°56	n.a.	M 2
T 3	2 36 21	8° 9'07	9♊28	9°29	4°15	26°34	22°29	1°23	4°13	12°11	7°43	2°50	1°40	29° 3	n.a.	T 3
W 4	2 40 18	9°10'07	24° 7	8° 6	5°29	26°53	22°42	1°20	4°11	12°13	7°43	2°42	1°37	29° 9	n.a.	W 4
T 5	2 44 14	10°11'09	8♋17	6°45	6°44	27°12	22°56	1°17	4° 8	12°15	7°43	2°35	1°34	29°16	n.a.	T 5
F 6	2 48 11	11°12'12	21°57	5°27	7°58	27°30	23°10	1°14	4° 6	12°17	7°42	2°31	1°31	29°23	n.a.	F 6
S 7	2 52 7	12°13'16	5♌ 7	4°17	9°13	27°49	23°23	1°11	4° 4	12°19	7°42	2°30	1°27	29°30	n.a.	S 7
S 8	2 56 4	13°14'22	17°52	3°15	10°27	28° 6	23°37	1° 8	4° 1	12°21	7°41	2°D29	1°24	29°36	n.a.	S 8
M 9	3 0 1	14°15'28	0♍16	2°22	11°41	28°23	23°51	1° 5	3°59	12°23	7°41	2°R30	1°21	29°43	n.a.	M 9
T 10	3 3 57	15°16'36	12°24	1°41	12°56	28°40	24° 4	1° 2	3°57	12°25	7°41	2°29	1°18	29°50	n.a.	T 10
W11	3 7 54	16°17'44	24°21	1°11	14°10	28°56	24°18	0°59	3°54	12°27	7°40	2°27	1°15	29°56	n.a.	W11
T 12	3 11 50	17°18'54	6♎13	0°52	15°25	29°12	24°32	0°57	3°52	12°29	7°40	2°22	1°11	0♏ 3	n.a.	T 12
F 13	3 15 47	18°20'04	18° 2	0°D44	16°39	29°27	24°45	0°54	3°49	12°31	7°40	2°14	1° 8	0°10	n.a.	F 13
S 14	3 19 43	19°21'16	29°51	0°47	17°53	29°42	24°59	0°52	3°47	12°33	7°39	2° 4	1° 5	0°16	n.a.	S 14
S 15	3 23 40	20°22'28	11♏44	0°59	19° 8	29°56	25°13	0°49	3°44	12°35	7°39	1°50	1° 2	0°23	n.a.	S 15
M16	3 27 36	21°23'41	23°40	1°19	20°22	0♌10	25°27	0°47	3°42	12°38	7°39	1°36	0°59	0°30	n.a.	M16
T 17	3 31 33	22°24'54	5♐42	1°48	21°36	0°23	25°40	0°45	3°39	12°40	7°39	1°21	0°56	0°37	n.a.	T 17
W18	3 35 30	23°26'08	17°51	2°24	22°50	0°36	25°54	0°43	3°37	12°42	7°39	1° 7	0°52	0°43	n.a.	W18
T 19	3 39 26	24°27'22	0♑ 7	3° 6	24° 5	0°48	26° 8	0°41	3°34	12°44	7°38	0°55	0°49	0°50	n.a.	T 19
F 20	3 43 23	25°28'37	12°32	3°54	25°19	0°59	26°22	0°40	3°32	12°46	7°38	0°46	0°46	0°57	n.a.	F 20
S 21	3 47 19	26°29'52	25° 8	4°47	26°33	1°10	26°35	0°38	3°29	12°49	7°38	0°40	0°43	1° 3	n.a.	S 21
S 22	3 51 16	27°31'07	7♒58	5°44	27°47	1°20	26°49	0°36	3°27	12°51	7°38	0°37	0°40	1°10	n.a.	S 22
M23	3 55 12	28°32'22	21° 4	6°45	29° 1	1°30	27° 3	0°35	3°24	12°53	7°38	0°36	0°37	1°17	n.a.	M23
T 24	3 59 9	29°33'37	4♓31	7°49	0♑16	1°39	27°17	0°33	3°22	12°55	7°38	0°36	0°33	1°24	n.a.	T 24
W25	4 3 5	0♐34'51	18°20	8°57	1°30	1°48	27°31	0°32	3°19	12°57	7°D38	0°35	0°30	1°30	n.a.	W25
T 26	4 7 2	1°36'06	2♈34	10° 7	2°44	1°55	27°44	0°31	3°16	13° 0	7°38	0°33	0°27	1°37	n.a.	T 26
F 27	4 10 59	2°37'21	17°10	11°19	3°58	2° 3	27°58	0°30	3°14	13° 2	7°38	0°28	0°24	1°44	n.a.	F 27
S 28	4 14 55	3°38'35	2♉ 5	12°34	5°12	2° 9	28°12	0°29	3°11	13° 4	7°38	0°20	0°21	1°50	n.a.	S 28
S 29	4 18 52	4°39'50	17°13	13°50	6°26	2°15	28°26	0°28	3° 9	13° 6	7°38	0°10	0°17	1°57	n.a.	S 29
M30	4 22 48	5♐41'04	2♊22	15♏ 8	7♑39	2♌20	28♏39	0♈28	3♊ 6	13♐ 9	7♓38	29♒58	0♓14	2♏ 4	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s43	19n 4	4n37	15s39	0s 0	21s48	1s 4	23n 7	1n57	18s 1	0n29	1s59	2s49	21n14	0s 0	21s25	1n 6	24s27	17s 3	10s27	10s58	15s13		n.a.
M 2	14 3	23 56	5 0	14 56	0n20	22 5	1 7	23 5	1 59	18 5	0 29	2 0	2 49	21 14	0 0	21 25	1 6	24 27	17 2	10 31	10 59	15 15		n.a.
T 3	14 23	27 5	5 1	14 10	0 41	22 22	1 9	23 3	2 0	18 8	0 29	2 1	2 49	21 14	0 0	21 26	1 6	24 27	17 2	10 35	11 0	15 18		n.a.
W 4	14 43	28 17	4 42	13 25	1 1	22 38	1 11	23 1	2 2	18 12	0 29	2 2	2 49	21 13	0 0	21 26	1 6	24 27	17 2	10 38	11 1	15 21		n.a.
T 5	15 3	27 33	4 7	12 40	1 20	22 53	1 13	22 59	2 4	18 15	0 29	2 3	2 48	21 13	0 0	21 26	1 6	24 27	17 1	10 40	11 3	15 24		n.a.
F 6	15 22	25 9	3 18	11 58	1 37	23 8	1 15	22 58	2 6	18 19	0 29	2 4	2 48	21 12	0 0	21 26	1 6	24 27	17 1	10 42	11 4	15 27		n.a.
S 7	15 41	21 28	2 20	11 19	1 53	23 22	1 17	22 56	2 8	18 23	0 28	2 5	2 48	21 12	0 0	21 27	1 6	24 27	17 1	10 42	11 5	15 30		n.a.
S 8	16 0	16 52	1 17	10 45	2 7	23 35	1 19	22 54	2 10	18 26	0 28	2 6	2 48	21 12	0 0	21 27	1 6	24 26	17 0	10 42	11 6	15 33		n.a.
M 9	16 18	11 42	0 12	10 16	2 18	23 47	1 21	22 53	2 12	18 30	0 28	2 7	2 48	21 11	0 0	21 27	1 6	24 26	17 0	10 42	11 7	15 35		n.a.
T 10	16 36	6 11	0s52	9 53	2 28	23 59	1 23	22 51	2 14	18 33	0 28	2 8	2 47	21 11	0 0	21 28	1 6	24 26	17 0	10 42	11 8	15 38		n.a.
W11	16 54	0 32	1 53	9 36	2 35	24 10	1 25	22 50	2 16	18 37	0 28	2 9	2 47	21 10	0 0	21 28	1 6	24 26	16 59	10 43	11 9	15 41		n.a.
T 12	17 12	5s 4	2 48	9 24	2 40	24 21	1 27	22 48	2 18	18 40	0 28	2 10	2 47	21 10	0 0	21 28	1 6	24 26	16 59	10 45	11 11	15 44		n.a.
F 13	17 29	10 28	3 36	9 18	2 44	24 31	1 29	22 47	2 20	18 44	0 28	2 11	2 47	21 9	0 0	21 29	1 6	24 26	16 59	10 48	11 12	15 47		n.a.
S 14	17 46	15 30	4 14	9 18	2 46	24 39	1 30	22 46	2 22	18 47	0 28	2 11	2 46	21 9	0 0	21 29	1 6	24 25	16 58	10 52	11 13	15 50		n.a.
S 15	18 3	19 59	4 42	9 21	2 46	24 48	1 32	22 45	2 25	18 51	0 28	2 12	2 46	21 8	0 0	21 29	1 6	24 25	16 58	10 56	11 14	15 53		n.a.
M16	18 19	23 41	4 57	9 30	2 45	24 55	1 34	22 44	2 27	18 54	0 27	2 13	2 46	21 8	0 0	21 29	1 6	24 25	16 57	11 2	11 15	15 55		n.a.
T 17	18 35	26 24	4 59	9 42	2 43	25 2	1 35	22 43	2 29	18 57	0 27	2 13	2 46	21 7	0 0	21 30	1 5	24 25	16 57	11 7	11 16	15 58		n.a.
W18	18 51	27 55	4 47	9 57	2 40	25 8	1 37	22 43	2 31	19 1	0 27	2 14	2 45	21 7	0 0	21 30	1 5	24 24	16 57	11 12	11 17	16 1		n.a.
T 19	19 6	28 5	4 22	10 15	2 36	25 13	1 38	22 42	2 33	19 4	0 27	2 14	2 45	21 6	0 0	21 30	1 5	24 24	16 56	11 16	11 19	16 4		n.a.
F 20	19 21	26 51	3 44	10 36	2 31	25 17	1 40	22 42	2 36	19 7	0 27	2 15	2 45	21 6	0 0	21 31	1 5	24 24	16 56	11 20	11 20	16 7		n.a.
S 21	19 36	24 14	2 55	10 59	2 26	25 21	1 41	22 42	2 38	19 11	0 27	2 15	2 44	21 6	0 0	21 31	1 5	24 24	16 56	11 22	11 21	16 9		n.a.
S 22	19 50	20 22	1 56	11 23	2 20	25 24	1 42	22 41	2 40	19 14	0 27	2 16	2 44	21 5	0 0	21 31	1 5	24 23	16 55	11 23	11 22	16 12		n.a.
M23	20 4	15 26	0 50	11 49	2 14	25 26	1 43	22 41	2 42	19 17	0 27	2 16	2 44	21 5	0 0	21 32	1 5	24 23	16 55	11 23	11 23	16 15		n.a.
T 24	20 17	9 39	0n21	12 17	2 7	25 27	1 44	22 42	2 45	19 21	0 27	2 16	2 44	21 4	0 0	21 32	1 5	24 23	16 55	11 23	11 24	16 18		n.a.
W25	20 30	3 15	1 32	12 45	2 0	25 28	1 45	22 42	2 47	19 24	0 27	2 17	2 43	21 4	0 0	21 32	1 5	24 22	16 54	11 23	11 25	16 21		n.a.
T 26	20 43	3n28	2 40	13 14	1 53	25 28	1 46	22 43	2 49	19 27	0 27	2 17	2 43	21 3	0 0	21 32	1 5	24 22	16 54	11 24	11 26	16 23		n.a.
F 27	20 56	10 11	3 39	13 44	1 45	25 27	1 47	22 43	2 52	19 30	0 26	2 17	2 43	21 3	0 0	21 33	1 5	24 22	16 54	11 26	11 28	16 26		n.a.
S 28	21 7	16 28	4 25	14 14	1 38	25 25	1 48	22 44	2 54	19 34	0 26	2 17	2 43	21 2	0 0	21 33	1 5	24 21	16 53	11 29	11 29	16 29		n.a.
S 29	21 19	21 50	4 52	14 44	1 30	25 22	1 49	22 45	2 57	19 37	0 26	2 17	2 42	21 2	0 0	21 33	1 5	24 21	16 53	11 32	11 30	16 32		n.a.
M30	21s30	25n46	5n 0	15s15	1n23	25s19	1s49	22n46	2n59	19s40	0n26	2s17	2s42	21n 1	0s 0	21s34	1n 5	24s20	16s52	11s37	11s31	16s35		n.a.

Julian Day Number = 1665844.5, Delta T = 03h23m13s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'04, Lahiri = - 6°03'04 Julian Calendar 1 Nov. 153 BCE == Greg. Calendar 29 Oct. 153 BCE

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ASTRODIENST EPHEMERIS for the year 153 BCE
geocentric

DECEMBER 153 BCE (-152) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 26 45	6♐42'19	17♊22	16♏27	8♑53	2♌25	28♏53	0°R27	3°R 4	13♐11	7♓39	29°R46	0♓11	2♏10	n.a.	T 1
W 2	4 30 41	7°43'34	2♋ 5	17°48	10° 7	2°28	29° 7	0♈27	3♊ 1	13°13	7°39	29♒36	0° 8	2°17	n.a.	W 2
T 3	4 34 38	8°44'49	16°21	19° 9	11°21	2°31	29°21	0°26	2°58	13°15	7°39	29°28	0° 5	2°24	n.a.	T 3
F 4	4 38 35	9°46'03	0♌ 9	20°32	12°35	2°34	29°34	0°26	2°56	13°18	7°39	29°22	0° 2	2°31	n.a.	F 4
S 5	4 42 31	10°47'18	13°27	21°56	13°48	2°35	29°48	0°26	2°53	13°20	7°39	29°19	29♒58	2°37	n.a.	S 5
S 6	4 46 28	11°48'33	26°18	23°21	15° 2	2°36	0♐ 2	0°D26	2°51	13°22	7°40	29°D18	29°55	2°44	n.a.	S 6
M 7	4 50 24	12°49'48	8♍46	24°46	16°16	2°R36	0°15	0°26	2°48	13°25	7°40	29°R18	29°52	2°51	n.a.	M 7
T 8	4 54 21	13°51'03	20°56	26°12	17°29	2°35	0°29	0°26	2°46	13°27	7°40	29°18	29°49	2°57	n.a.	T 8
W 9	4 58 17	14°52'18	2♎54	27°39	18°43	2°34	0°43	0°27	2°43	13°29	7°40	29°17	29°46	3° 4	n.a.	W 9
T 10	5 2 14	15°53'33	14°45	29° 6	19°56	2°32	0°56	0°27	2°41	13°31	7°41	29°13	29°43	3°11	n.a.	T 10
F 11	5 6 10	16°54'47	26°34	0♐35	21°10	2°29	1°10	0°28	2°38	13°34	7°41	29° 6	29°39	3°18	n.a.	F 11
S 12	5 10 7	17°56'02	8♏25	2° 3	22°23	2°25	1°23	0°28	2°36	13°36	7°42	28°57	29°36	3°24	n.a.	S 12
S 13	5 14 4	18°57'16	20°21	3°33	23°37	2°20	1°37	0°29	2°33	13°38	7°42	28°45	29°33	3°31	n.a.	S 13
M14	5 18 0	19°58'30	2♐24	5° 2	24°50	2°15	1°50	0°30	2°31	13°40	7°42	28°32	29°30	3°38	n.a.	M14
T 15	5 21 57	20°59'43	14°36	6°33	26° 3	2° 8	2° 4	0°31	2°28	13°43	7°43	28°19	29°27	3°44	n.a.	T 15
W16	5 25 53	22° 0'56	26°57	8° 4	27°17	2° 1	2°17	0°32	2°26	13°45	7°43	28° 6	29°23	3°51	n.a.	W16
T 17	5 29 50	23° 2'08	9♑28	9°35	28°30	1°53	2°31	0°34	2°24	13°47	7°44	27°55	29°20	3°58	n.a.	T 17
F 18	5 33 46	24° 3'20	22°10	11° 7	29°43	1°45	2°44	0°35	2°21	13°49	7°44	27°47	29°17	4° 5	n.a.	F 18
S 19	5 37 43	25° 4'31	5♒ 2	12°40	0♒56	1°35	2°57	0°36	2°19	13°52	7°45	27°42	29°14	4°11	n.a.	S 19
S 20	5 41 39	26° 5'40	18° 5	14°13	2° 9	1°25	3°11	0°38	2°17	13°54	7°46	27°39	29°11	4°18	n.a.	S 20
M21	5 45 36	27° 6'49	1♓21	15°46	3°22	1°14	3°24	0°40	2°14	13°56	7°46	27°D39	29° 8	4°25	n.a.	M21
T 22	5 49 33	28° 7'57	14°51	17°20	4°35	1° 2	3°37	0°41	2°12	13°58	7°47	27°40	29° 4	4°31	n.a.	T 22
W23	5 53 29	29° 9'03	28°36	18°55	5°48	0°49	3°50	0°43	2°10	14° 1	7°47	27°R40	29° 1	4°38	n.a.	W23
T 24	5 57 26	0♑10'08	12♈38	20°30	7° 0	0°36	4° 3	0°45	2° 8	14° 3	7°48	27°39	28°58	4°45	n.a.	T 24
F 25	6 1 22	1°11'12	26°56	22° 6	8°13	0°22	4°16	0°48	2° 5	14° 5	7°49	27°37	28°55	4°52	n.a.	F 25
S 26	6 5 19	2°12'15	11♉27	23°43	9°26	0° 7	4°29	0°50	2° 3	14° 7	7°49	27°32	28°52	4°58	n.a.	S 26
S 27	6 9 15	3°13'16	26° 9	25°20	10°38	29♋51	4°42	0°52	2° 1	14° 9	7°50	27°24	28°49	5° 5	n.a.	S 27
M28	6 13 12	4°14'17	10♊53	26°58	11°50	29°35	4°55	0°55	1°59	14°12	7°51	27°16	28°45	5°12	n.a.	M28
T 29	6 17 9	5°15'16	25°32	28°36	13° 3	29°18	5° 8	0°57	1°57	14°14	7°52	27° 7	28°42	5°18	n.a.	T 29
W30	6 21 5	6°16'14	10♋ 0	0♑15	14°15	29° 0	5°21	1° 0	1°55	14°16	7°53	26°59	28°39	5°25	n.a.	W30
T 31	6 25 2	7♑17'11	24♋ 8	1♑55	15♒27	28♋42	5♐34	1♈ 3	1♊53	14♐18	7♓53	26♒53	28♒36	5♏32	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	21 s41	27n51	4n46	15 s45	1n15	25 s15	1 s50	22n48	3n 1	19 s43	0n26	2 s17	2 s42	21n 1	0 s 0	21 s34	1n 5	24 s20	16 s52	11 s41	11 s32	16 s37			n.a.
W 2	21 51	27 56	4 14	16 16	1 7	25 10	1 51	22 49	3 4	19 46	0 26	2 17	2 41	21 0	0 0	21 34	1 5	24 20	16 52	11 45	11 33	16 40			n.a.
T 3	22 1	26 7	3 26	16 46	0 59	25 4	1 51	22 51	3 6	19 49	0 26	2 17	2 41	21 0	0 0	21 34	1 5	24 19	16 51	11 48	11 34	16 43			n.a.
F 4	22 10	22 45	2 28	17 16	0 51	24 58	1 51	22 53	3 9	19 52	0 26	2 17	2 41	20 59	0n 0	21 35	1 5	24 19	16 51	11 50	11 36	16 46			n.a.
S 5	22 19	18 18	1 23	17 46	0 44	24 50	1 52	22 55	3 11	19 55	0 26	2 16	2 41	20 59	0 0	21 35	1 5	24 18	16 51	11 51	11 37	16 48			n.a.
S 6	22 28	13 9	0 16	18 15	0 36	24 42	1 52	22 57	3 14	19 58	0 26	2 16	2 40	20 58	0 0	21 35	1 5	24 18	16 50	11 51	11 38	16 51			n.a.
M 7	22 36	7 36	0 s50	18 43	0 28	24 34	1 52	22 59	3 16	20 1	0 26	2 16	2 40	20 58	0 0	21 36	1 5	24 18	16 50	11 51	11 39	16 54			n.a.
T 8	22 44	1 55	1 52	19 12	0 21	24 24	1 52	23 2	3 19	20 4	0 26	2 16	2 40	20 57	0 0	21 36	1 5	24 17	16 50	11 51	11 40	16 57			n.a.
W 9	22 51	3 s44	2 48	19 39	0 13	24 14	1 52	23 5	3 21	20 7	0 25	2 15	2 39	20 57	0 0	21 36	1 5	24 17	16 49	11 51	11 41	16 59			n.a.
T 10	22 58	9 12	3 36	20 6	0 6	24 3	1 52	23 8	3 24	20 10	0 25	2 15	2 39	20 56	0 0	21 37	1 5	24 16	16 49	11 53	11 42	17 2			n.a.
F 11	23 4	14 19	4 15	20 32	0 s 2	23 52	1 52	23 11	3 27	20 13	0 25	2 14	2 39	20 56	0 0	21 37	1 5	24 16	16 48	11 55	11 43	17 5			n.a.
S 12	23 10	18 55	4 42	20 57	0 9	23 40	1 51	23 14	3 29	20 16	0 25	2 14	2 38	20 55	0 0	21 37	1 5	24 15	16 48	11 58	11 45	17 7			n.a.
S 13	23 15	22 49	4 58	21 22	0 16	23 27	1 51	23 18	3 32	20 19	0 25	2 13	2 38	20 55	0 0	21 37	1 5	24 15	16 48	12 3	11 46	17 10			n.a.
M14	23 20	25 47	5 1	21 46	0 23	23 13	1 50	23 22	3 34	20 22	0 25	2 12	2 38	20 54	0 0	21 38	1 5	24 14	16 47	12 7	11 47	17 13			n.a.
T 15	23 24	27 36	4 49	22 8	0 30	22 59	1 50	23 25	3 37	20 24	0 25	2 12	2 38	20 54	0 0	21 38	1 5	24 14	16 47	12 12	11 48	17 16			n.a.
W16	23 28	28 5	4 25	22 30	0 36	22 44	1 49	23 30	3 39	20 27	0 25	2 11	2 37	20 53	0 0	21 38	1 5	24 13	16 47	12 16	11 49	17 18			n.a.
T 17	23 32	27 8	3 47	22 51	0 43	22 28	1 48	23 34	3 42	20 30	0 25	2 10	2 37	20 53	0 0	21 38	1 5	24 13	16 46	12 20	11 50	17 21			n.a.
F 18	23 35	24 47	2 57	23 11	0 49	22 12	1 47	23 38	3 44	20 33	0 25	2 9	2 37	20 52	0 0	21 39	1 5	24 12	16 46	12 23	11 51	17 24			n.a.
S 19	23 37	21 8	1 57	23 29	0 55	21 55	1 47	23 43	3 47	20 35	0 25	2 9	2 36	20 52	0 0	21 39	1 5	24 12	16 46	12 25	11 52	17 26			n.a.
S 20	23 39	16 23	0 51	23 47	1 1	21 37	1 45	23 47	3 49	20 38	0 25	2 8	2 36	20 52	0 0	21 39	1 5	24 11	16 45	12 26	11 54	17 29			n.a.
M21	23 41	10 49	0n20	24 3	1 7	21 19	1 44	23 52	3 51	20 41	0 25	2 7	2 36	20 51	0 0	21 40	1 5	24 11	16 45	12 26	11 55	17 32			n.a.
T 22	23 42	4 39	1 31	24 18	1 12	21 0	1 43	23 57	3 54	20 43	0 24	2 6	2 35	20 51	0 0	21 40	1 5	24 10	16 45	12 25	11 56	17 34			n.a.
W23	23 43	1n50	2 38	24 32	1 17	20 41	1 42	24 2	3 56	20 46	0 24	2 5	2 35	20 50	0 0	21 40	1 5	24 9	16 44	12 25	11 57	17 37			n.a.
T 24	23 43	8 22	3 36	24 44	1 22	20 21	1 41	24 8	3 58	20 48	0 24	2 4	2 35	20 50	0 0	21 40	1 5	24 9	16 44	12 26	11 58	17 40			n.a.
F 25	23 43	14 34	4 23	24 56	1 27	20 1	1 39	24 13	4 1	20 51	0 24	2 2	2 35	20 49	0 0	21 41	1 5	24 8	16 44	12 26	11 59	17 42			n.a.
S 26	23 42	20 5	4 54	25 5	1 32	19 40	1 37	24 19	4 3	20 53	0 24	2 1	2 34	20 49	0 0	21 41	1 5	24 8	16 43	12 28	12 0	17 45			n.a.
S 27	23 41	24 27	5 5	25 14	1 36	19 18	1 36	24 24	4 5	20 56	0 24	2 0	2 34	20 49	0 0	21 41	1 5	24 7	16 43	12 31	12 1	17 48			n.a.
M28	23 39	27 14	4 57	25 21	1 40	18 56	1 34	24 30	4 7	20 58	0 24	1 59	2 34	20 48	0 0	21 41	1 5	24 7	16 43	12 34	12 2	17 50			n.a.
T 29	23 37	28 7	4 29	25 26	1 44	18 34	1 32	24 35	4 9	21 1	0 24	1 57	2 33	20 48	0 0	21 42	1 5	24 6	16 42	12 37	12 4	17 53			n.a.
W30	23 34	27 4	3 44	25 30	1 47	18 11	1 30	24 41	4 11	21 3	0 24	1 56	2 33	20 47	0 0	21 42	1 5	24 5	16 42	12 40	12 5	17 56			n.a.
T 31	23 s31	24n16	2n46	25 s32	1 s50	17 s48	1 s28	24n47	4n13	21 s 5	0n24	1 s55	2 s33	20n47	0n 0	21 s42	1n 5	24 s 5	16 s42	12 s42	12 s 6	17 s58			n.a.

Julian Day Number = 1665874.5, Delta T = 03h23m12s
Ecliptic obliquity = 23°42'56, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°10'00, Lahiri = - 6°03'00 Julian Calendar 1 Dec. 153 BCE == Greg. Calendar 28 Nov. 153 BCE

The year -152 astronomical counting style corresponds to year 153 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 152 BCE
geocentric

JANUARY 152 BCE (-151) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 28 58	8♉18'07	7♌52	3♉35	16♒39	28°R23	5♐47	1♈ 5	1°R51	14♐20	7♓54	26°R49	28♒33	5♏39	n.a.	F 1
S 2	6 32 55	9°19'02	21°12	5°16	17°51	28♋ 3	5°59	1° 8	1♊49	14°22	7°55	26°D47	28°29	5°45	n.a.	S 2
S 3	6 36 51	10°19'56	4♍ 7	6°58	19° 3	27°43	6°12	1°12	1°47	14°24	7°56	26♒47	28°26	5°52	n.a.	S 3
M 4	6 40 48	11°20'48	16°40	8°40	20°15	27°23	6°24	1°15	1°46	14°26	7°57	26°48	28°23	5°59	n.a.	M 4
T 5	6 44 44	12°21'40	28°55	10°24	21°27	27° 2	6°37	1°18	1°44	14°29	7°58	26°50	28°20	6° 5	n.a.	T 5
W 6	6 48 41	13°22'30	10♎57	12° 8	22°39	26°40	6°49	1°21	1°42	14°31	7°59	26°R51	28°17	6°12	n.a.	W 6
T 7	6 52 38	14°23'20	22°50	13°53	23°50	26°18	7° 2	1°25	1°40	14°33	7°59	26°50	28°14	6°19	n.a.	T 7
F 8	6 56 34	15°24'08	4♏41	15°38	25° 2	25°55	7°14	1°28	1°39	14°35	8° 0	26°48	28°10	6°26	n.a.	F 8
S 9	7 0 31	16°24'55	16°34	17°24	26°13	25°33	7°26	1°32	1°37	14°37	8° 1	26°44	28° 7	6°32	n.a.	S 9
S 10	7 4 27	17°25'41	28°32	19°11	27°24	25°10	7°39	1°36	1°35	14°39	8° 2	26°39	28° 4	6°39	n.a.	S 10
M11	7 8 24	18°26'26	10♐40	20°59	28°35	24°46	7°51	1°40	1°34	14°41	8° 3	26°32	28° 1	6°46	n.a.	M11
T 12	7 12 20	19°27'10	23° 1	22°48	29°46	24°23	8° 3	1°44	1°32	14°43	8° 4	26°25	27°58	6°52	n.a.	T 12
W13	7 16 17	20°27'52	5♉34	24°37	0♓57	23°59	8°15	1°48	1°31	14°45	8° 6	26°18	27°55	6°59	n.a.	W13
T 14	7 20 13	21°28'32	18°22	26°26	2° 8	23°35	8°27	1°52	1°29	14°46	8° 7	26°12	27°51	7° 6	n.a.	T 14
F 15	7 24 10	22°29'11	1♒24	28°16	3°19	23°11	8°38	1°56	1°28	14°48	8° 8	26° 8	27°48	7°13	n.a.	F 15
S 16	7 28 7	23°29'49	14°39	0♒ 7	4°29	22°47	8°50	2° 0	1°27	14°50	8° 9	26° 6	27°45	7°19	n.a.	S 16
S 17	7 32 3	24°30'24	28° 5	1°58	5°40	22°23	9° 2	2° 5	1°25	14°52	8°10	26°D 5	27°42	7°26	n.a.	S 17
M18	7 36 0	25°30'58	11♓43	3°49	6°50	21°59	9°13	2° 9	1°24	14°54	8°11	26° 6	27°39	7°33	n.a.	M18
T 19	7 39 56	26°31'29	25°30	5°40	8° 0	21°36	9°25	2°14	1°23	14°56	8°12	26° 8	27°35	7°39	n.a.	T 19
W20	7 43 53	27°31'59	9♈27	7°31	9°10	21°12	9°36	2°19	1°22	14°58	8°13	26° 9	27°32	7°46	n.a.	W20
T 21	7 47 49	28°32'27	23°30	9°21	10°20	20°49	9°48	2°23	1°21	14°59	8°14	26°R10	27°29	7°53	n.a.	T 21
F 22	7 51 46	29°32'52	7♉41	11°11	11°30	20°25	9°59	2°28	1°20	15° 1	8°16	26°10	27°26	8° 0	n.a.	F 22
S 23	7 55 42	0♒33'16	21°56	13° 0	12°40	20° 3	10°10	2°33	1°19	15° 3	8°17	26° 9	27°23	8° 6	n.a.	S 23
S 24	7 59 39	1°33'38	6♊13	14°47	13°49	19°40	10°21	2°38	1°18	15° 5	8°18	26° 6	27°20	8°13	n.a.	S 24
M25	8 3 36	2°33'57	20°28	16°33	14°58	19°18	10°32	2°43	1°17	15° 6	8°19	26° 3	27°16	8°20	n.a.	M25
T 26	8 7 32	3°34'15	4♋37	18°16	16° 8	18°56	10°43	2°48	1°16	15° 8	8°21	25°59	27°13	8°26	n.a.	T 26
W27	8 11 29	4°34'30	18°37	19°57	17°17	18°35	10°54	2°54	1°15	15°10	8°22	25°56	27°10	8°33	n.a.	W27
T 28	8 15 25	5°34'43	2♌22	21°35	18°25	18°14	11° 4	2°59	1°15	15°11	8°23	25°54	27° 7	8°40	n.a.	T 28
F 29	8 19 22	6°34'55	15°50	23° 9	19°34	17°54	11°15	3° 4	1°14	15°13	8°24	25°53	27° 4	8°47	n.a.	F 29
S 30	8 23 18	7°35'04	28°59	24°39	20°42	17°34	11°26	3°10	1°13	15°14	8°26	25°D53	27° 1	8°53	n.a.	S 30
S 31	8 27 15	8♒35'12	11♍50	26♒ 4	21♓51	17♋14	11♐36	3♈15	1♊13	15♐16	8♓27	25♒53	26♒57	9♏ 0	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s27	20n 7	1n40	25s33	1s53	17s24	1s26	24n53	4n15	21s 8	0n24	1s53	2s33	20n47	0n 0	21s42	1n 5	24s 4	16s41	12s43	12s 7	18s 1		n.a.
S 2	23 23	15 4	0 30	25 32	1 55	16 59	1 24	24 59	4 17	21 10	0 24	1 52	2 32	20 46	0 0	21 43	1 5	24 4	16 41	12 44	12 8	18 3		n.a.
S 3	23 18	9 30	0s39	25 29	1 57	16 35	1 22	25 4	4 18	21 12	0 24	1 50	2 32	20 46	0 0	21 43	1 5	24 3	16 41	12 44	12 9	18 6		n.a.
M 4	23 13	3 43	1 45	25 24	1 59	16 9	1 19	25 10	4 20	21 15	0 24	1 49	2 32	20 45	0 0	21 43	1 5	24 2	16 40	12 43	12 10	18 9		n.a.
T 5	23 8	2s 5	2 45	25 18	2 0	15 44	1 17	25 16	4 21	21 17	0 23	1 47	2 31	20 45	0 0	21 43	1 5	24 2	16 40	12 43	12 11	18 11		n.a.
W 6	23 2	7 41	3 36	25 10	2 1	15 18	1 14	25 22	4 23	21 19	0 23	1 46	2 31	20 45	0 0	21 44	1 5	24 1	16 40	12 42	12 12	18 14		n.a.
T 7	22 56	12 57	4 17	25 0	2 2	14 52	1 12	25 27	4 24	21 21	0 23	1 44	2 31	20 44	0 0	21 44	1 5	24 0	16 40	12 43	12 14	18 16		n.a.
F 8	22 49	17 43	4 47	24 48	2 2	14 25	1 9	25 33	4 26	21 23	0 23	1 42	2 31	20 44	0 0	21 44	1 5	24 0	16 39	12 43	12 15	18 19		n.a.
S 9	22 42	21 50	5 5	24 34	2 1	13 58	1 6	25 39	4 27	21 25	0 23	1 41	2 30	20 44	0 0	21 44	1 5	23 59	16 39	12 45	12 16	18 22		n.a.
S 10	22 34	25 5	5 9	24 19	2 0	13 30	1 4	25 44	4 28	21 27	0 23	1 39	2 30	20 43	0 0	21 44	1 5	23 59	16 39	12 47	12 17	18 24		n.a.
M11	22 26	27 15	5 0	24 1	1 59	13 3	1 1	25 49	4 29	21 29	0 23	1 37	2 30	20 43	0 0	21 45	1 5	23 58	16 38	12 49	12 18	18 27		n.a.
T 12	22 17	28 9	4 37	23 41	1 57	12 35	0 58	25 55	4 30	21 31	0 23	1 35	2 30	20 43	0 0	21 45	1 5	23 57	16 38	12 51	12 19	18 29		n.a.
W13	22 8	27 36	4 0	23 20	1 55	12 6	0 54	26 0	4 30	21 33	0 23	1 33	2 29	20 43	0 0	21 45	1 5	23 57	16 38	12 54	12 20	18 32		n.a.
T 14	21 59	25 35	3 11	22 56	1 52	11 38	0 51	26 5	4 31	21 35	0 23	1 31	2 29	20 42	0 0	21 45	1 5	23 56	16 38	12 56	12 21	18 35		n.a.
F 15	21 49	22 12	2 11	22 30	1 48	11 9	0 48	26 9	4 32	21 37	0 23	1 30	2 29	20 42	0 0	21 46	1 5	23 55	16 37	12 57	12 22	18 37		n.a.
S 16	21 39	17 37	1 2	22 3	1 44	10 40	0 45	26 14	4 32	21 39	0 23	1 28	2 29	20 42	0 0	21 46	1 5	23 55	16 37	12 58	12 24	18 40		n.a.
S 17	21 28	12 6	0n11	21 33	1 39	10 11	0 41	26 18	4 32	21 41	0 23	1 26	2 28	20 41	0 0	21 46	1 5	23 54	16 37	12 58	12 25	18 42		n.a.
M18	21 17	5 57	1 24	21 2	1 33	9 41	0 38	26 23	4 33	21 43	0 23	1 24	2 28	20 41	0 0	21 46	1 5	23 53	16 37	12 58	12 26	18 45		n.a.
T 19	21 5	0n33	2 34	20 29	1 27	9 11	0 34	26 27	4 33	21 45	0 23	1 21	2 28	20 41	0 0	21 46	1 5	23 53	16 36	12 57	12 27	18 47		n.a.
W20	20 54	7 4	3 35	19 54	1 20	8 41	0 30	26 31	4 33	21 47	0 23	1 19	2 28	20 41	0 0	21 47	1 5	23 52	16 36	12 57	12 28	18 50		n.a.
T 21	20 41	13 19	4 24	19 17	1 13	8 11	0 27	26 34	4 33	21 48	0 22	1 17	2 27	20 41	0 0	21 47	1 5	23 51	16 36	12 56	12 29	18 52		n.a.
F 22	20 29	18 55	4 58	18 39	1 4	7 41	0 23	26 38	4 32	21 50	0 22	1 15	2 27	20 40	0 0	21 47	1 5	23 51	16 36	12 56	12 30	18 55		n.a.
S 23	20 16	23 29	5 13	18 0	0 55	7 11	0 19	26 41	4 32	21 52	0 22	1 13	2 27	20 40	0 1	21 47	1 5	23 50	16 36	12 57	12 31	18 57		n.a.
S 24	20 2	26 39	5 9	17 19	0 46	6 40	0 15	26 44	4 32	21 53	0 22	1 11	2 27	20 40	0 1	21 47	1 5	23 49	16 35	12 58	12 32	19 0		n.a.
M25	19 49	28 7	4 46	16 37	0 35	6 9	0 11	26 47	4 31	21 55	0 22	1 8	2 26	20 40	0 1	21 47	1 5	23 49	16 35	12 59	12 34	19 2		n.a.
T 26	19 35	27 43	4 5	15 54	0 24	5 39	0 7	26 49	4 30	21 57	0 22	1 6	2 26	20 40	0 1	21 48	1 5	23 48	16 35	13 0	12 35	19 5		n.a.
W27	19 20	25 33	3 11	15 11	0 12	5 8	0 3	26 52	4 30	21 58	0 22	1 4	2 26	20 39	0 1	21 48	1 5	23 47	16 35	13 1	12 36	19 7		n.a.
T 28	19 6	21 54	2 6	14 28	0n 0	4 37	0n 1	26 54	4 29	22 0	0 22	1 1	2 26	20 39	0 1	21 48	1 5	23 47	16 35	13 2	12 37	19 10		n.a.
F 29	18 51	17 9	0 55	13 45	0 13	4 6	0 5	26 56	4 28	22 1	0 22	0 59	2 25	20 39	0 1	21 48	1 5	23 46	16 34	13 2	12 38	19 12		n.a.
S 30	18 35	11 41	0s17	13 2	0 27	3 34	0 10	26 57	4 27	22 3	0 22	0 57	2 25	20 39	0 1	21 48	1 5	23 45	16 34	13 2	12 39	19 15		n.a.
S 31	18s19	5n52	1s27	12s20	0n41	3s 3	0n14	26n59	4n26	22s 4	0n22	0s54	2s25	20n39	0n 1	21s48	1n 5	23s45	16s34	13s 2	12s40	19s17		n.a.

Julian Day Number = 1665905.5, Delta T = 03h23m11s
Ecliptic obliquity = 23°42'56, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°09'56, Lahiri = - 6°02'56 Julian Calendar 1 Jan. 152 BCE == Greg. Calendar 29 Dec. 153 BCE

The year -151 astronomical counting style corresponds to year 152 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 152 BCE
geocentric

FEBRUARY 152 BCE (-151) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 31 11	9♒35'18	24♍22	27♒24	22♓59	16°R56	11♐46	3♈21	1°R12	15♐17	8♓28	25♒54	26♒54	9♏ 7	n.a.	M 1
T 2	8 35 8	10°35'22	6♎38	28°37	24° 7	16♋38	11°56	3°27	1♊12	15°19	8°30	25°56	26°51	9°13	n.a.	T 2
W 3	8 39 5	11°35'24	18°43	29°44	25°14	16°20	12° 7	3°32	1°11	15°20	8°31	25°57	26°48	9°20	n.a.	W 3
T 4	8 43 1	12°35'25	0♏39	0♓44	26°22	16° 4	12°17	3°38	1°11	15°22	8°32	25°58	26°45	9°27	n.a.	T 4
F 5	8 46 58	13°35'24	12°32	1°36	27°29	15°48	12°26	3°44	1°11	15°23	8°34	25°R58	26°41	9°34	n.a.	F 5
S 6	8 50 54	14°35'21	24°25	2°20	28°36	15°32	12°36	3°50	1°10	15°25	8°35	25°58	26°38	9°40	n.a.	S 6
S 7	8 54 51	15°35'16	6♐25	2°56	29°43	15°18	12°46	3°56	1°10	15°26	8°36	25°57	26°35	9°47	n.a.	S 7
M 8	8 58 47	16°35'10	18°35	3°23	0♈50	15° 4	12°55	4° 2	1°10	15°27	8°38	25°56	26°32	9°54	n.a.	M 8
T 9	9 2 44	17°35'02	0♑58	3°41	1°56	14°51	13° 5	4° 8	1°10	15°29	8°39	25°55	26°29	10° 0	n.a.	T 9
W10	9 6 40	18°34'52	13°39	3°51	3° 3	14°38	13°14	4°14	1°D10	15°30	8°40	25°54	26°26	10° 7	n.a.	W10
T 11	9 10 37	19°34'40	26°38	3°R51	4° 9	14°27	13°23	4°21	1°10	15°31	8°42	25°53	26°22	10°14	n.a.	T 11
F 12	9 14 34	20°34'26	9♒57	3°44	5°14	14°16	13°32	4°27	1°10	15°32	8°43	25°53	26°19	10°21	n.a.	F 12
S 13	9 18 30	21°34'10	23°34	3°28	6°20	14° 6	13°41	4°33	1°10	15°34	8°45	25°D53	26°16	10°27	n.a.	S 13
S 14	9 22 27	22°33'51	7♓27	3° 4	7°25	13°57	13°50	4°40	1°10	15°35	8°46	25°53	26°13	10°34	n.a.	S 14
M15	9 26 23	23°33'31	21°33	2°33	8°30	13°48	13°59	4°46	1°10	15°36	8°47	25°53	26°10	10°41	n.a.	M15
T 16	9 30 20	24°33'08	5♈48	1°56	9°35	13°41	14° 7	4°53	1°11	15°37	8°49	25°53	26° 7	10°47	n.a.	T 16
W17	9 34 16	25°32'43	20° 7	1°13	10°39	13°34	14°16	5° 0	1°11	15°38	8°50	25°R53	26° 3	10°54	n.a.	W17
T 18	9 38 13	26°32'15	4♉27	0°26	11°43	13°28	14°24	5° 6	1°11	15°39	8°52	25°53	26° 0	11° 1	n.a.	T 18
F 19	9 42 9	27°31'45	18°45	29♒35	12°47	13°23	14°32	5°13	1°12	15°40	8°53	25°53	25°57	11° 8	n.a.	F 19
S 20	9 46 6	28°31'13	2♊56	28°42	13°51	13°18	14°40	5°20	1°12	15°41	8°55	25°D53	25°54	11°14	n.a.	S 20
S 21	9 50 3	29°30'39	16°59	27°48	14°54	13°14	14°48	5°26	1°13	15°42	8°56	25°53	25°51	11°21	n.a.	S 21
M22	9 53 59	0♓30'02	0♋53	26°54	15°57	13°11	14°56	5°33	1°13	15°43	8°58	25°53	25°47	11°28	n.a.	M22
T 23	9 57 56	1°29'22	14°35	26° 2	16°59	13° 9	15° 4	5°40	1°14	15°44	8°59	25°54	25°44	11°35	n.a.	T 23
W24	10 1 52	2°28'40	28° 6	25°11	18° 2	13° 8	15°11	5°47	1°15	15°45	9° 0	25°55	25°41	11°41	n.a.	W24
T 25	10 5 49	3°27'56	11♌24	24°23	19° 4	13°D 7	15°19	5°54	1°16	15°46	9° 2	25°55	25°38	11°48	n.a.	T 25
F 26	10 9 45	4°27'09	24°29	23°39	20° 5	13° 7	15°26	6° 1	1°16	15°46	9° 3	25°R55	25°35	11°55	n.a.	F 26
S 27	10 13 42	5°26'20	7♍20	23° 0	21° 6	13° 8	15°33	6° 8	1°17	15°47	9° 5	25°55	25°32	12° 1	n.a.	S 27
S 28	10 17 38	6♓25'29	19♍57	22♒25	22♈ 7	13♋10	15♐40	6♈15	1♊18	15♐48	9♓ 6	25♒54	25♒28	12♏ 8	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
M 1	18s 3	0s 2	2s31	11s39	0n55	2s32	0n19	27n 0	4n25	22s 6	0n22	0s52	2s25	20n39	0n 1	21s49	1n 5	23s44	16s34	13s 2	12s41	19s20		n.a.	M 1
T 2	17 47	5 49	3 27	11 0	1 10	2 1	0 23	27 1	4 23	22 7	0 22	0 49	2 25	20 39	0 1	21 49	1 5	23 43	16 34	13 1	12 42	19 22		n.a.	T 2
W 3	17 30	11 17	4 12	10 23	1 24	1 30	0 28	27 2	4 22	22 9	0 22	0 47	2 24	20 39	0 1	21 49	1 6	23 43	16 33	13 1	12 43	19 25		n.a.	W 3
T 4	17 13	16 17	4 46	9 48	1 39	0 58	0 32	27 3	4 21	22 10	0 22	0 44	2 24	20 39	0 1	21 49	1 6	23 42	16 33	13 1	12 45	19 27		n.a.	T 4
F 5	16 56	20 39	5 8	9 16	1 54	0 27	0 37	27 4	4 19	22 11	0 22	0 42	2 24	20 39	0 1	21 49	1 6	23 41	16 33	13 0	12 46	19 30		n.a.	F 5
S 6	16 39	24 12	5 16	8 46	2 8	0n 4	0 41	27 4	4 18	22 13	0 22	0 39	2 24	20 39	0 1	21 49	1 6	23 41	16 33	13 0	12 47	19 32		n.a.	S 6
S 7	16 21	26 44	5 11	8 20	2 22	0 35	0 46	27 4	4 16	22 14	0 21	0 37	2 24	20 38	0 1	21 49	1 6	23 40	16 33	13 1	12 48	19 35		n.a.	S 7
M 8	16 3	28 4	4 52	7 58	2 36	1 7	0 51	27 4	4 15	22 15	0 21	0 34	2 23	20 38	0 1	21 49	1 6	23 39	16 33	13 1	12 49	19 37		n.a.	M 8
T 9	15 44	28 2	4 19	7 39	2 49	1 38	0 56	27 4	4 13	22 17	0 21	0 31	2 23	20 38	0 1	21 50	1 6	23 39	16 33	13 1	12 50	19 39		n.a.	T 9
W10	15 26	26 32	3 33	7 25	3 1	2 9	1 0	27 4	4 11	22 18	0 21	0 29	2 23	20 38	0 1	21 50	1 6	23 38	16 32	13 2	12 51	19 42		n.a.	W10
T 11	15 7	23 36	2 35	7 14	3 11	2 40	1 5	27 3	4 9	22 19	0 21	0 26	2 23	20 38	0 1	21 50	1 6	23 37	16 32	13 2	12 52	19 44		n.a.	T 11
F 12	14 48	19 21	1 27	7 8	3 21	3 11	1 10	27 3	4 8	22 20	0 21	0 23	2 23	20 38	0 1	21 50	1 6	23 37	16 32	13 2	12 53	19 47		n.a.	F 12
S 13	14 29	14 1	0 13	7 6	3 29	3 41	1 15	27 2	4 6	22 21	0 21	0 21	2 22	20 39	0 1	21 50	1 6	23 36	16 32	13 2	12 54	19 49		n.a.	S 13
S 14	14 9	7 53	1n 4	7 9	3 36	4 12	1 20	27 1	4 4	22 23	0 21	0 18	2 22	20 39	0 1	21 50	1 6	23 35	16 32	13 2	12 55	19 51		n.a.	S 14
M15	13 49	1 17	2 18	7 15	3 41	4 42	1 25	27 0	4 2	22 24	0 21	0 15	2 22	20 39	0 1	21 50	1 6	23 35	16 32	13 2	12 57	19 54		n.a.	M15
T 16	13 29	5n26	3 24	7 26	3 44	5 13	1 30	26 59	4 0	22 25	0 21	0 12	2 22	20 39	0 1	21 50	1 6	23 34	16 32	13 2	12 58	19 56		n.a.	T 16
W17	13 9	11 55	4 17	7 40	3 45	5 43	1 35	26 58	3 58	22 26	0 21	0 10	2 22	20 39	0 1	21 50	1 6	23 33	16 32	13 2	12 59	19 59		n.a.	W17
T 18	12 49	17 46	4 55	7 57	3 45	6 13	1 40	26 56	3 56	22 27	0 21	0 7	2 22	20 39	0 1	21 51	1 6	23 33	16 32	13 2	13 0	20 1		n.a.	T 18
F 19	12 28	22 38	5 14	8 17	3 42	6 43	1 45	26 55	3 54	22 28	0 21	0 4	2 21	20 39	0 1	21 51	1 6	23 32	16 32	13 2	13 1	20 3		n.a.	F 19
S 20	12 7	26 7	5 15	8 40	3 38	7 13	1 50	26 53	3 52	22 29	0 21	0 1	2 21	20 39	0 1	21 51	1 6	23 32	16 32	13 2	13 2	20 6		n.a.	S 20
S 21	11 46	27 59	4 56	9 4	3 31	7 42	1 55	26 52	3 50	22 30	0 21	0n 2	2 21	20 39	0 1	21 51	1 6	23 31	16 32	13 2	13 3	20 8		n.a.	S 21
M22	11 25	28 3	4 20	9 30	3 23	8 11	2 0	26 50	3 48	22 31	0 21	0 5	2 21	20 39	0 1	21 51	1 6	23 30	16 31	13 2	13 4	20 10		n.a.	M22
T 23	11 4	26 23	3 30	9 57	3 14	8 41	2 5	26 48	3 46	22 32	0 21	0 8	2 21	20 39	0 1	21 51	1 6	23 30	16 31	13 2	13 5	20 13		n.a.	T 23
W24	10 43	23 12	2 28	10 24	3 3	9 9	2 10	26 46	3 44	22 33	0 21	0 10	2 21	20 40	0 1	21 51	1 6	23 29	16 31	13 2	13 6	20 15		n.a.	W24
T 25	10 21	18 50	1 20	10 52	2 51	9 38	2 16	26 44	3 41	22 33	0 20	0 13	2 21	20 40	0 1	21 51	1 6	23 29	16 31	13 2	13 7	20 18		n.a.	T 25
F 26	9 59	13 38	0 8	11 18	2 38	10 6	2 21	26 42	3 39	22 34	0 20	0 16	2 20	20 40	0 1	21 51	1 6	23 28	16 31	13 1	13 8	20 20		n.a.	F 26
S 27	9 37	7 57	1s 3	11 45	2 24	10 34	2 26	26 40	3 37	22 35	0 20	0 19	2 20	20 40	0 1	21 51	1 6	23 27	16 31	13 2	13 10	20 22		n.a.	S 27
S 28	9s15	2n 3	2s 9	12s10	2n 9	11n 2	2n31	26n37	3n35	22s36	0n20	0n22	2s20	20n40	0n 1	21s51	1n 6	23s27	16s31	13s 2	13s11	20s25		n.a.	S 28

Julian Day Number = 1665936.5, Delta T = 03h23m10s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°09'52, Lahiri = - 6°02'51 Julian Calendar 1 Feb. 152 BCE == Greg. Calendar 29 Jan. 152 BCE

The year -151 astronomical counting style corresponds to year 152 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 152 BCE
geocentric

MARCH 152 BCE (-151) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 21 35	7♓24'36	2♎21	21°R56	23♈ 7	13♋12	15♐47	6♈22	1♊19	15♐49	9♓ 8	25°R53	25♒25	12♏15	n.a.	M 1
T 2	10 25 31	8°23'41	14°34	21♒32	24° 7	13°15	15°53	6°30	1°20	15°49	9° 9	25♒51	25°22	12°22	n.a.	T 2
W 3	10 29 28	9°22'44	26°37	21°14	25° 7	13°19	16° 0	6°37	1°21	15°50	9°11	25°49	25°19	12°28	n.a.	W 3
T 4	10 33 25	10°21'45	8♏33	21° 1	26° 6	13°23	16° 6	6°44	1°22	15°50	9°12	25°47	25°16	12°35	n.a.	T 4
F 5	10 37 21	11°20'44	20°26	20°55	27° 4	13°28	16°12	6°51	1°23	15°51	9°14	25°46	25°12	12°42	n.a.	F 5
S 6	10 41 18	12°19'41	2♐20	20°D53	28° 3	13°34	16°18	6°59	1°25	15°52	9°15	25°45	25° 9	12°48	n.a.	S 6
S 7	10 45 14	13°18'37	14°18	20°58	29° 0	13°40	16°24	7° 6	1°26	15°52	9°17	25°D44	25° 6	12°55	n.a.	S 7
M 8	10 49 11	14°17'30	26°27	21° 7	29°57	13°47	16°30	7°14	1°27	15°53	9°18	25°45	25° 3	13° 2	n.a.	M 8
T 9	10 53 7	15°16'22	8♑49	21°22	0♉54	13°55	16°35	7°21	1°29	15°53	9°20	25°46	25° 0	13° 9	n.a.	T 9
W10	10 57 4	16°15'12	21°30	21°41	1°50	14° 3	16°41	7°28	1°30	15°53	9°21	25°47	24°57	13°15	n.a.	W10
T 11	11 1 0	17°14'00	4♒33	22° 5	2°46	14°12	16°46	7°36	1°31	15°54	9°23	25°49	24°53	13°22	n.a.	T 11
F 12	11 4 57	18°12'46	18° 0	22°34	3°41	14°21	16°51	7°43	1°33	15°54	9°24	25°50	24°50	13°29	n.a.	F 12
S 13	11 8 54	19°11'30	1♓51	23° 7	4°36	14°31	16°56	7°51	1°34	15°54	9°25	25°R50	24°47	13°36	n.a.	S 13
S 14	11 12 50	20°10'12	16° 4	23°44	5°29	14°42	17° 0	7°58	1°36	15°55	9°27	25°49	24°44	13°42	n.a.	S 14
M15	11 16 47	21° 8'52	0♈35	24°24	6°23	14°53	17° 5	8° 6	1°38	15°55	9°28	25°47	24°41	13°49	n.a.	M15
T 16	11 20 43	22° 7'30	15°18	25° 9	7°15	15° 4	17° 9	8°14	1°39	15°55	9°30	25°43	24°38	13°56	n.a.	T 16
W17	11 24 40	23° 6'06	0♉ 5	25°57	8° 7	15°17	17°14	8°21	1°41	15°55	9°31	25°39	24°34	14° 2	n.a.	W17
T 18	11 28 36	24° 4'40	14°49	26°48	8°59	15°29	17°18	8°29	1°43	15°55	9°33	25°36	24°31	14° 9	n.a.	T 18
F 19	11 32 33	25° 3'11	29°24	27°43	9°49	15°43	17°21	8°37	1°45	15°56	9°34	25°33	24°28	14°16	n.a.	F 19
S 20	11 36 29	26° 1'40	13♊43	28°40	10°39	15°57	17°25	8°44	1°47	15°56	9°36	25°31	24°25	14°23	n.a.	S 20
S 21	11 40 26	27° 0'07	27°46	29°40	11°28	16°11	17°29	8°52	1°49	15°56	9°37	25°D30	24°22	14°29	n.a.	S 21
M22	11 44 23	27°58'32	11♋30	0♓43	12°16	16°26	17°32	9° 0	1°51	15°R56	9°38	25°31	24°18	14°36	n.a.	M22
T 23	11 48 19	28°56'54	24°57	1°49	13° 4	16°41	17°35	9° 7	1°53	15°56	9°40	25°32	24°15	14°43	n.a.	T 23
W24	11 52 16	29°55'14	8♌ 7	2°58	13°50	16°57	17°38	9°15	1°55	15°56	9°41	25°34	24°12	14°49	n.a.	W24
T 25	11 56 12	0♈53'32	21° 3	4° 8	14°36	17°13	17°41	9°23	1°57	15°55	9°43	25°R35	24° 9	14°56	n.a.	T 25
F 26	12 0 9	1°51'48	3♍46	5°22	15°21	17°30	17°43	9°31	1°59	15°55	9°44	25°34	24° 6	15° 3	n.a.	F 26
S 27	12 4 5	2°50'02	16°17	6°37	16° 5	17°47	17°46	9°38	2° 1	15°55	9°45	25°33	24° 3	15°10	n.a.	S 27
S 28	12 8 2	3°48'13	28°39	7°55	16°47	18° 4	17°48	9°46	2° 3	15°55	9°47	25°29	23°59	15°16	n.a.	S 28
M29	12 11 58	4°46'23	10♎52	9°15	17°29	18°22	17°50	9°54	2° 5	15°55	9°48	25°23	23°56	15°23	n.a.	M29
T 30	12 15 55	5°44'31	22°57	10°37	18°10	18°40	17°52	10° 2	2° 8	15°54	9°49	25°16	23°53	15°30	n.a.	T 30
W31	12 19 51	6♈42'38	4♏56	12♓ 1	18♉49	18♋59	17♐54	10♈ 9	2♊10	15♐54	9♓51	25♒ 9	23♒50	15♏37	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	8s53	3s49	3s 8	12s33	1n55	11n30	2n36	26n35	3n33	22s37	0n20	0n25	2s20	20n41	0n 1	21s51	1n 6	23s26	16s31	13s 2	13s12	20s27		n.a.
T 2	8 31	9 27	3 58	12 55	1 39	11 57	2 41	26 33	3 31	22 37	0 20	0 28	2 20	20 41	0 1	21 51	1 6	23 26	16 31	13 3	13 13	20 29		n.a.
W 3	8 9	14 39	4 36	13 16	1 24	12 24	2 46	26 30	3 29	22 38	0 20	0 31	2 20	20 41	0 1	21 51	1 6	23 25	16 31	13 3	13 14	20 31		n.a.
T 4	7 46	19 16	5 1	13 34	1 9	12 50	2 51	26 28	3 27	22 39	0 20	0 34	2 20	20 41	0 1	21 51	1 6	23 24	16 31	13 4	13 15	20 34		n.a.
F 5	7 23	23 6	5 14	13 51	0 54	13 17	2 56	26 25	3 25	22 40	0 20	0 37	2 20	20 41	0 1	21 51	1 6	23 24	16 31	13 5	13 16	20 36		n.a.
S 6	7 1	25 59	5 13	14 5	0 39	13 42	3 1	26 22	3 23	22 40	0 20	0 40	2 20	20 42	0 1	21 51	1 6	23 23	16 31	13 5	13 17	20 38		n.a.
S 7	6 38	27 44	4 59	14 18	0 24	14 8	3 6	26 20	3 20	22 41	0 20	0 43	2 19	20 42	0 1	21 51	1 6	23 23	16 31	13 5	13 18	20 41		n.a.
M 8	6 15	28 11	4 31	14 28	0 10	14 33	3 11	26 17	3 18	22 42	0 20	0 46	2 19	20 42	0 1	21 51	1 6	23 22	16 31	13 5	13 19	20 43		n.a.
T 9	5 52	27 15	3 51	14 36	0s 4	14 58	3 15	26 14	3 16	22 42	0 20	0 49	2 19	20 43	0 1	21 51	1 6	23 22	16 31	13 5	13 20	20 45		n.a.
W10	5 29	24 54	2 58	14 42	0 17	15 22	3 20	26 11	3 14	22 43	0 20	0 52	2 19	20 43	0 1	21 52	1 6	23 21	16 31	13 4	13 21	20 47		n.a.
T 11	5 6	21 12	1 55	14 46	0 29	15 46	3 25	26 8	3 12	22 43	0 20	0 55	2 19	20 43	0 1	21 52	1 6	23 21	16 31	13 4	13 22	20 50		n.a.
F 12	4 43	16 18	0 43	14 48	0 42	16 10	3 30	26 5	3 10	22 44	0 20	0 59	2 19	20 43	0 1	21 52	1 6	23 20	16 32	13 3	13 24	20 52		n.a.
S 13	4 20	10 26	0n33	14 48	0 53	16 33	3 34	26 2	3 8	22 45	0 19	1 2	2 19	20 44	0 1	21 52	1 6	23 20	16 32	13 3	13 25	20 54		n.a.
S 14	3 56	3 53	1 49	14 46	1 4	16 56	3 39	25 59	3 6	22 45	0 19	1 5	2 19	20 44	0 1	21 52	1 6	23 19	16 32	13 4	13 26	20 57		n.a.
M15	3 33	2n58	2 59	14 42	1 15	17 18	3 43	25 55	3 4	22 46	0 19	1 8	2 19	20 44	0 1	21 52	1 7	23 19	16 32	13 4	13 27	20 59		n.a.
T 16	3 10	9 45	3 59	14 37	1 24	17 40	3 48	25 52	3 2	22 46	0 19	1 11	2 19	20 45	0 1	21 52	1 7	23 18	16 32	13 6	13 28	21 1		n.a.
W17	2 46	16 1	4 42	14 29	1 34	18 2	3 52	25 49	3 0	22 47	0 19	1 14	2 19	20 45	0 1	21 52	1 7	23 18	16 32	13 7	13 29	21 3		n.a.
T 18	2 23	21 21	5 7	14 19	1 42	18 23	3 57	25 45	2 58	22 47	0 19	1 17	2 18	20 46	0 1	21 52	1 7	23 17	16 32	13 8	13 30	21 5		n.a.
F 19	1 59	25 19	5 12	14 8	1 50	18 43	4 1	25 42	2 56	22 47	0 19	1 20	2 18	20 46	0 1	21 51	1 7	23 17	16 32	13 9	13 31	21 8		n.a.
S 20	1 36	27 38	4 57	13 54	1 57	19 3	4 5	25 38	2 54	22 48	0 19	1 23	2 18	20 46	0 1	21 51	1 7	23 16	16 32	13 10	13 32	21 10		n.a.
S 21	1 12	28 6	4 25	13 39	2 4	19 23	4 9	25 35	2 53	22 48	0 19	1 26	2 18	20 47	0 1	21 51	1 7	23 16	16 32	13 10	13 33	21 12		n.a.
M22	0 49	26 49	3 38	13 22	2 10	19 42	4 13	25 31	2 51	22 49	0 19	1 30	2 18	20 47	0 1	21 51	1 7	23 15	16 32	13 10	13 34	21 14		n.a.
T 23	0 25	24 0	2 39	13 4	2 16	20 1	4 17	25 27	2 49	22 49	0 19	1 33	2 18	20 48	0 1	21 51	1 7	23 15	16 33	13 9	13 35	21 16		n.a.
W24	0 2	19 57	1 34	12 43	2 21	20 18	4 20	25 23	2 47	22 49	0 19	1 36	2 18	20 48	0 1	21 51	1 7	23 14	16 33	13 9	13 36	21 19		n.a.
T 25	0n22	15 2	0 25	12 21	2 25	20 36	4 24	25 19	2 45	22 50	0 19	1 39	2 18	20 48	0 1	21 51	1 7	23 14	16 33	13 8	13 37	21 21		n.a.
F 26	0 45	9 33	0s44	11 58	2 29	20 53	4 27	25 15	2 43	22 50	0 19	1 42	2 18	20 49	0 1	21 51	1 7	23 13	16 33	13 9	13 39	21 23		n.a.
S 27	1 8	3 47	1 50	11 32	2 32	21 9	4 31	25 11	2 41	22 50	0 19	1 45	2 18	20 49	0 1	21 51	1 7	23 13	16 33	13 9	13 40	21 25		n.a.
S 28	1 32	2s 3	2 50	11 5	2 35	21 25	4 34	25 7	2 40	22 51	0 18	1 48	2 18	20 50	0 1	21 51	1 7	23 13	16 33	13 10	13 41	21 27		n.a.
M29	1 55	7 43	3 41	10 37	2 37	21 40	4 37	25 3	2 38	22 51	0 18	1 51	2 18	20 50	0 1	21 51	1 7	23 12	16 33	13 12	13 42	21 30		n.a.
T 30	2 18	13 3	4 21	10 7	2 38	21 55	4 40	24 58	2 36	22 51	0 18	1 54	2 18	20 51	0 1	21 51	1 7	23 12	16 33	13 15	13 43	21 32		n.a.
W31	2n42	17s51	4s50	9s35	2s39	22n 9	4n43	24n54	2n34	22s51	0n18	1n58	2s18	20n51	0n 1	21s51	1n 7	23s11	16s34	13s17	13s44	21s34		n.a.

Julian Day Number = 1665964.5, Delta T = 03h23m10s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°09'48, Lahiri = - 6°02'48 Julian Calendar 1 March 152 BCE == Greg. Calendar 26 Feb. 152 BCE

The year -151 astronomical counting style corresponds to year 152 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 152 BCE
geocentric

APRIL 152 BCE (-151) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 23 48	7♈40'42	16♏50	13♓27	19♉28	19♋18	17♐55	10♈17	2♊12	15°R54	9♓52	25°R 1	23♒47	15♏43	n.a.	T 1
F 2	12 27 45	8°38'46	28°42	14°55	20° 5	19°38	17°57	10°25	2°15	15♐54	9°53	24♒54	23°44	15°50	n.a.	F 2
S 3	12 31 41	9°36'47	10♐35	16°25	20°41	19°58	17°58	10°33	2°17	15°53	9°55	24°49	23°40	15°57	n.a.	S 3
S 4	12 35 38	10°34'47	22°33	17°58	21°15	20°18	17°59	10°41	2°20	15°53	9°56	24°45	23°37	16° 3	n.a.	S 4
M 5	12 39 34	11°32'46	4♑39	19°32	21°48	20°38	17°59	10°49	2°22	15°52	9°57	24°43	23°34	16°10	n.a.	M 5
T 6	12 43 31	12°30'43	16°58	21° 8	22°20	20°59	18° 0	10°56	2°25	15°52	9°59	24°D43	23°31	16°17	n.a.	T 6
W 7	12 47 27	13°28'39	29°36	22°46	22°51	21°21	18° 0	11° 4	2°28	15°51	10° 0	24°44	23°28	16°24	n.a.	W 7
T 8	12 51 24	14°26'34	12♒36	24°26	23°20	21°42	18° 1	11°12	2°30	15°51	10° 1	24°45	23°24	16°30	n.a.	T 8
F 9	12 55 20	15°24'27	26° 1	26° 8	23°47	22° 4	18°R 1	11°20	2°33	15°50	10° 2	24°R45	23°21	16°37	n.a.	F 9
S 10	12 59 17	16°22'18	9♓55	27°52	24°13	22°27	18° 0	11°28	2°36	15°50	10° 4	24°44	23°18	16°44	n.a.	S 10
S 11	13 3 14	17°20'08	24°16	29°38	24°37	22°49	18° 0	11°35	2°38	15°49	10° 5	24°41	23°15	16°50	n.a.	S 11
M12	13 7 10	18°17'57	9♈ 0	1♈26	24°59	23°12	17°59	11°43	2°41	15°48	10° 6	24°36	23°12	16°57	n.a.	M12
T 13	13 11 7	19°15'44	24° 2	3°15	25°20	23°36	17°59	11°51	2°44	15°48	10° 7	24°29	23° 9	17° 4	n.a.	T 13
W14	13 15 3	20°13'30	9♉11	5° 7	25°39	23°59	17°58	11°59	2°47	15°47	10° 8	24°21	23° 5	17°11	n.a.	W14
T 15	13 19 0	21°11'14	24°18	7° 1	25°56	24°23	17°57	12° 6	2°50	15°46	10°10	24°12	23° 2	17°17	n.a.	T 15
F 16	13 22 56	22° 8'57	9♊12	8°56	26°10	24°47	17°55	12°14	2°52	15°45	10°11	24° 5	22°59	17°24	n.a.	F 16
S 17	13 26 53	23° 6'38	23°47	10°54	26°23	25°12	17°54	12°22	2°55	15°45	10°12	24° 0	22°56	17°31	n.a.	S 17
S 18	13 30 49	24° 4'17	7♋58	12°53	26°34	25°36	17°52	12°30	2°58	15°44	10°13	23°57	22°53	17°38	n.a.	S 18
M19	13 34 46	25° 1'55	21°44	14°54	26°43	26° 1	17°50	12°37	3° 1	15°43	10°14	23°D55	22°49	17°44	n.a.	M19
T 20	13 38 43	25°59'31	5♌ 6	16°57	26°49	26°27	17°48	12°45	3° 4	15°42	10°15	23°56	22°46	17°51	n.a.	T 20
W21	13 42 39	26°57'05	18° 7	19° 1	26°53	26°52	17°46	12°53	3° 7	15°41	10°16	23°R56	22°43	17°58	n.a.	W21
T 22	13 46 36	27°54'38	0♍50	21° 7	26°R55	27°18	17°43	13° 0	3°10	15°40	10°17	23°56	22°40	18° 4	n.a.	T 22
F 23	13 50 32	28°52'09	13°18	23°15	26°54	27°44	17°41	13° 8	3°13	15°39	10°18	23°54	22°37	18°11	n.a.	F 23
S 24	13 54 29	29°49'39	25°35	25°24	26°51	28°10	17°38	13°16	3°17	15°38	10°19	23°50	22°34	18°18	n.a.	S 24
S 25	13 58 25	0♉47'07	7♎44	27°33	26°46	28°37	17°35	13°23	3°20	15°37	10°20	23°43	22°30	18°25	n.a.	S 25
M26	14 2 22	1°44'34	19°46	29°44	26°38	29° 4	17°32	13°31	3°23	15°36	10°21	23°34	22°27	18°31	n.a.	M26
T 27	14 6 18	2°42'00	1♏44	1♉55	26°28	29°31	17°29	13°38	3°26	15°35	10°22	23°23	22°24	18°38	n.a.	T 27
W28	14 10 15	3°39'24	13°39	4° 7	26°15	29°58	17°25	13°46	3°29	15°34	10°23	23°10	22°21	18°45	n.a.	W28
T 29	14 14 12	4°36'48	25°32	6°18	26° 0	0♌25	17°21	13°53	3°32	15°33	10°24	22°57	22°18	18°51	n.a.	T 29
F 30	14 18 8	5♉34'11	7♐24	8♉30	25♉43	0♌53	17♐18	14♈ 1	3♊36	15♐32	10♓25	22♒46	22♒15	18♏58	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n 5	21s55	5s 5	9s 2	2s39	22n22	4n45	24n49	2n33	22s51	0n18	2n 1	2s18	20n52	0n 1	21s51	1n 7	23s11	16s34	13s20	13s45	21s36		n.a.
F 2	3 28	25 6	5 8	8 27	2 39	22 35	4 48	24 45	2 31	22 52	0 18	2 4	2 18	20 52	0 1	21 51	1 7	23 11	16 34	13 22	13 46	21 38		n.a.
S 3	3 51	27 11	4 57	7 50	2 38	22 47	4 50	24 40	2 29	22 52	0 18	2 7	2 18	20 53	0 1	21 51	1 7	23 10	16 34	13 24	13 47	21 40		n.a.
S 4	4 14	28 3	4 33	7 13	2 37	22 58	4 52	24 35	2 27	22 52	0 18	2 10	2 18	20 53	0 1	21 51	1 7	23 10	16 34	13 25	13 48	21 42		n.a.
M 5	4 37	27 35	3 57	6 33	2 35	23 9	4 54	24 31	2 26	22 52	0 18	2 13	2 18	20 54	0 1	21 51	1 7	23 10	16 35	13 26	13 49	21 44		n.a.
T 6	5 0	25 45	3 9	5 53	2 32	23 19	4 56	24 26	2 24	22 52	0 18	2 16	2 18	20 54	0 1	21 51	1 7	23 9	16 35	13 26	13 50	21 47		n.a.
W 7	5 23	22 36	2 11	5 11	2 29	23 29	4 57	24 21	2 22	22 52	0 18	2 19	2 18	20 55	0 1	21 51	1 7	23 9	16 35	13 26	13 51	21 49		n.a.
T 8	5 45	18 16	1 5	4 27	2 25	23 37	4 58	24 16	2 21	22 53	0 18	2 22	2 18	20 55	0 1	21 50	1 7	23 9	16 35	13 25	13 52	21 51		n.a.
F 9	6 8	12 53	0n 7	3 42	2 21	23 45	4 59	24 10	2 19	22 53	0 18	2 25	2 18	20 56	0 1	21 50	1 7	23 8	16 35	13 25	13 53	21 53		n.a.
S 10	6 31	6 42	1 21	2 56	2 16	23 53	5 0	24 5	2 18	22 53	0 17	2 28	2 18	20 56	0 1	21 50	1 7	23 8	16 36	13 26	13 54	21 55		n.a.
S 11	6 53	0n 1	2 32	2 9	2 11	23 59	5 0	24 0	2 16	22 53	0 17	2 32	2 18	20 57	0 1	21 50	1 7	23 8	16 36	13 27	13 56	21 57		n.a.
M12	7 15	6 53	3 34	1 20	2 5	24 5	5 0	23 54	2 14	22 53	0 17	2 35	2 18	20 57	0 1	21 50	1 7	23 8	16 36	13 28	13 57	21 59		n.a.
T 13	7 37	13 30	4 23	0 30	1 59	24 10	5 0	23 48	2 13	22 53	0 17	2 38	2 18	20 58	0 1	21 50	1 7	23 7	16 36	13 31	13 58	22 1		n.a.
W14	8 0	19 22	4 54	0n21	1 52	24 14	5 0	23 43	2 11	22 53	0 17	2 41	2 18	20 59	0 1	21 50	1 7	23 7	16 36	13 34	13 59	22 3		n.a.
T 15	8 22	23 59	5 5	1 13	1 45	24 17	4 59	23 37	2 10	22 53	0 17	2 44	2 18	20 59	0 1	21 50	1 7	23 7	16 37	13 36	14 0	22 5		n.a.
F 16	8 43	26 56	4 54	2 6	1 37	24 20	4 57	23 31	2 8	22 53	0 17	2 47	2 18	21 0	0 1	21 50	1 7	23 7	16 37	13 39	14 1	22 7		n.a.
S 17	9 5	27 59	4 25	3 0	1 28	24 21	4 56	23 25	2 7	22 53	0 17	2 50	2 18	21 0	0 1	21 50	1 7	23 6	16 37	13 41	14 2	22 9		n.a.
S 18	9 27	27 8	3 40	3 55	1 20	24 22	4 54	23 19	2 5	22 53	0 17	2 53	2 18	21 1	0 1	21 50	1 7	23 6	16 37	13 42	14 3	22 11		n.a.
M19	9 48	24 37	2 43	4 51	1 11	24 22	4 52	23 13	2 4	22 53	0 17	2 56	2 18	21 1	0 1	21 49	1 7	23 6	16 38	13 42	14 4	22 14		n.a.
T 20	10 9	20 48	1 39	5 48	1 1	24 21	4 49	23 6	2 2	22 52	0 17	2 59	2 18	21 2	0 1	21 49	1 7	23 6	16 38	13 42	14 5	22 16		n.a.
W21	10 30	16 4	0 31	6 44	0 51	24 19	4 46	23 0	2 1	22 52	0 16	3 2	2 18	21 3	0 1	21 49	1 7	23 6	16 38	13 42	14 6	22 18		n.a.
T 22	10 51	10 44	0s37	7 42	0 41	24 15	4 42	22 53	1 59	22 52	0 16	3 5	2 18	21 3	0 1	21 49	1 7	23 5	16 38	13 42	14 7	22 20		n.a.
F 23	11 12	5 5	1 41	8 39	0 31	24 11	4 38	22 47	1 58	22 52	0 16	3 8	2 18	21 4	0 1	21 49	1 7	23 5	16 39	13 42	14 8	22 22		n.a.
S 24	11 32	0s40	2 40	9 37	0 21	24 6	4 33	22 40	1 56	22 52	0 16	3 11	2 18	21 4	0 1	21 49	1 7	23 5	16 39	13 44	14 9	22 24		n.a.
S 25	11 53	6 19	3 30	10 34	0 10	24 0	4 28	22 33	1 55	22 52	0 16	3 13	2 18	21 5	0 1	21 49	1 7	23 5	16 39	13 46	14 10	22 26		n.a.
M26	12 13	11 41	4 11	11 31	0n 0	23 52	4 22	22 26	1 54	22 52	0 16	3 16	2 18	21 6	0 1	21 49	1 8	23 5	16 40	13 49	14 11	22 28		n.a.
T 27	12 33	16 35	4 40	12 27	0 11	23 44	4 16	22 19	1 52	22 51	0 16	3 19	2 18	21 6	0 1	21 48	1 8	23 5	16 40	13 53	14 12	22 30		n.a.
W28	12 53	20 50	4 57	13 22	0 21	23 34	4 10	22 12	1 51	22 51	0 16	3 22	2 18	21 7	0 1	21 48	1 8	23 4	16 40	13 57	14 13	22 32		n.a.
T 29	13 12	24 13	5 1	14 17	0 32	23 24	4 2	22 4	1 50	22 51	0 16	3 25	2 18	21 8	0 1	21 48	1 8	23 4	16 40	14 1	14 14	22 34		n.a.
F 30	13n32	26s35	4s51	15n 9	0n42	23n12	3n54	21n57	1n48	22s51	0n16	3n28	2s18	21n 8	0n 1	21s48	1n 8	23s 4	16s41	14s 5	14s15	22s36		n.a.

Julian Day Number = 1665995.5, Delta T = 03h23m09s
Ecliptic obliquity = 23°42'57, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°09'44, Lahiri = - 6°02'43 Julian Calendar 1 Apr. 152 BCE == Greg. Calendar 29 March 152 BCE

The year -151 astronomical counting style corresponds to year 152 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 152 BCE
geocentric

MAY 152 BCE (-151) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 22 5	6♉31'33	19♐19	10♉41	25°R23	1♌21	17°R14	14♈ 8	3♊39	15°R31	10♓26	22°R36	22♒11	19♏ 5	n.a.	S 1
S 2	14 26 1	7°28'54	1♑17	12°51	25♉ 1	1°49	17♐ 9	14°16	3°42	15♐30	10°27	22♒28	22° 8	19°12	n.a.	S 2
M 3	14 29 58	8°26'14	13°24	15° 0	24°37	2°17	17° 5	14°23	3°46	15°28	10°28	22°23	22° 5	19°18	n.a.	M 3
T 4	14 33 54	9°23'34	25°42	17° 9	24°11	2°46	17° 1	14°30	3°49	15°27	10°29	22°21	22° 2	19°25	n.a.	T 4
W 5	14 37 51	10°20'52	8♒17	19°15	23°43	3°15	16°56	14°38	3°52	15°26	10°30	22°D20	21°59	19°32	n.a.	W 5
T 6	14 41 47	11°18'11	21°12	21°20	23°13	3°43	16°51	14°45	3°56	15°25	10°31	22°R20	21°55	19°39	n.a.	T 6
F 7	14 45 44	12°15'28	4♓32	23°24	22°41	4°13	16°46	14°52	3°59	15°24	10°31	22°20	21°52	19°45	n.a.	F 7
S 8	14 49 41	13°12'45	18°21	25°25	22° 8	4°42	16°41	14°59	4° 2	15°22	10°32	22°18	21°49	19°52	n.a.	S 8
S 9	14 53 37	14°10'02	2♈38	27°24	21°34	5°11	16°36	15° 7	4° 6	15°21	10°33	22°14	21°46	19°59	n.a.	S 9
M10	14 57 34	15° 7'18	17°21	29°21	20°58	5°41	16°30	15°14	4° 9	15°20	10°34	22° 7	21°43	20° 5	n.a.	M10
T 11	15 1 30	16° 4'33	2♉27	1♊16	20°22	6°11	16°25	15°21	4°13	15°18	10°34	21°58	21°40	20°12	n.a.	T 11
W12	15 5 27	17° 1'48	17°44	3° 9	19°45	6°41	16°19	15°28	4°16	15°17	10°35	21°47	21°36	20°19	n.a.	W12
T 13	15 9 23	17°59'02	3♊ 2	4°59	19° 8	7°11	16°13	15°35	4°20	15°15	10°36	21°37	21°33	20°26	n.a.	T 13
F 14	15 13 20	18°56'16	18°10	6°47	18°30	7°42	16° 7	15°42	4°23	15°14	10°36	21°27	21°30	20°32	n.a.	F 14
S 15	15 17 16	19°53'29	2♋58	8°32	17°52	8°12	16° 1	15°49	4°27	15°13	10°37	21°20	21°27	20°39	n.a.	S 15
S 16	15 21 13	20°50'41	17°20	10°15	17°15	8°43	15°55	15°56	4°30	15°11	10°38	21°15	21°24	20°46	n.a.	S 16
M17	15 25 10	21°47'52	1♌13	11°55	16°39	9°14	15°49	16° 3	4°34	15°10	10°38	21°12	21°21	20°53	n.a.	M17
T 18	15 29 6	22°45'02	14°39	13°33	16° 3	9°45	15°42	16°10	4°37	15° 8	10°39	21°11	21°17	20°59	n.a.	T 18
W19	15 33 3	23°42'12	27°39	15° 8	15°27	10°16	15°36	16°16	4°41	15° 7	10°40	21°11	21°14	21° 6	n.a.	W19
T 20	15 36 59	24°39'20	10♍18	16°41	14°54	10°48	15°29	16°23	4°44	15° 5	10°40	21°11	21°11	21°13	n.a.	T 20
F 21	15 40 56	25°36'28	22°41	18°12	14°21	11°19	15°23	16°30	4°48	15° 4	10°41	21° 9	21° 8	21°19	n.a.	F 21
S 22	15 44 52	26°33'36	4♎50	19°39	13°50	11°51	15°16	16°36	4°51	15° 2	10°41	21° 4	21° 5	21°26	n.a.	S 22
S 23	15 48 49	27°30'43	16°52	21° 4	13°21	12°23	15° 9	16°43	4°55	15° 1	10°42	20°57	21° 1	21°33	n.a.	S 23
M24	15 52 46	28°27'49	28°48	22°27	12°54	12°55	15° 2	16°49	4°58	14°59	10°42	20°47	20°58	21°40	n.a.	M24
T 25	15 56 42	29°24'55	10♏41	23°47	12°28	13°27	14°55	16°56	5° 2	14°58	10°43	20°35	20°55	21°46	n.a.	T 25
W26	16 0 39	0♊22'01	22°34	25° 4	12° 5	14° 0	14°48	17° 2	5° 6	14°56	10°43	20°22	20°52	21°53	n.a.	W26
T 27	16 4 35	1°19'07	4♐27	26°18	11°44	14°32	14°40	17° 9	5° 9	14°55	10°43	20° 8	20°49	22° 0	n.a.	T 27
F 28	16 8 32	2°16'12	16°23	27°30	11°25	15° 5	14°33	17°15	5°13	14°53	10°44	19°56	20°46	22° 7	n.a.	F 28
S 29	16 12 28	3°13'18	28°22	28°39	11° 9	15°37	14°26	17°21	5°16	14°52	10°44	19°45	20°42	22°13	n.a.	S 29
S 30	16 16 25	4°10'23	10♑27	29°45	10°55	16°10	14°18	17°28	5°20	14°50	10°44	19°37	20°39	22°20	n.a.	S 30
M31	16 20 21	5♊ 7'29	22♑39	0♋47	10♉43	16♌43	14♐11	17♈34	5♊24	14♐48	10♓45	19♒32	20♒36	22♏27	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13n51	27s45	4s29	16n 1	0n52	22n59	3n46	21n49	1n47	22s50	0n15	3n31	2s19	21n 9	0n 1	21s48	1n 8	23s 4	16s41	14s 8	14s16	22s37		n.a.
S 2	14 10	27 38	3 55	16 50	1 1	22 45	3 37	21 42	1 45	22 50	0 15	3 34	2 19	21 9	0 1	21 48	1 8	23 4	16 41	14 11	14 18	22 39		n.a.
M 3	14 29	26 11	3 10	17 38	1 10	22 30	3 28	21 34	1 44	22 50	0 15	3 36	2 19	21 10	0 1	21 48	1 8	23 4	16 42	14 13	14 19	22 41		n.a.
T 4	14 47	23 28	2 16	18 24	1 18	22 13	3 18	21 26	1 43	22 49	0 15	3 39	2 19	21 11	0 1	21 47	1 8	23 4	16 42	14 13	14 20	22 43		n.a.
W 5	15 6	19 35	1 14	19 7	1 26	21 56	3 7	21 18	1 42	22 49	0 15	3 42	2 19	21 11	0 1	21 47	1 8	23 4	16 42	14 14	14 21	22 45		n.a.
T 6	15 24	14 41	0 6	19 48	1 33	21 38	2 56	21 10	1 40	22 49	0 15	3 45	2 19	21 12	0 1	21 47	1 8	23 4	16 43	14 14	14 22	22 47		n.a.
F 7	15 42	8 58	1n 4	20 27	1 40	21 19	2 45	21 2	1 39	22 48	0 15	3 47	2 19	21 13	0 1	21 47	1 8	23 4	16 43	14 14	14 23	22 49		n.a.
S 8	15 59	2 38	2 13	21 3	1 46	20 58	2 33	20 53	1 38	22 48	0 15	3 50	2 19	21 13	0 1	21 47	1 8	23 4	16 43	14 14	14 24	22 51		n.a.
S 9	16 16	4n 2	3 16	21 37	1 51	20 37	2 21	20 45	1 36	22 47	0 15	3 53	2 19	21 14	0 1	21 47	1 8	23 4	16 44	14 16	14 25	22 53		n.a.
M10	16 34	10 41	4 7	22 8	1 56	20 16	2 8	20 36	1 35	22 47	0 14	3 56	2 19	21 15	0 1	21 47	1 8	23 4	16 44	14 18	14 26	22 55		n.a.
T 11	16 50	16 53	4 43	22 36	2 0	19 53	1 55	20 27	1 34	22 47	0 14	3 58	2 19	21 15	0 1	21 46	1 8	23 4	16 44	14 21	14 27	22 57		n.a.
W12	17 7	22 6	4 59	23 2	2 3	19 30	1 41	20 19	1 33	22 46	0 14	4 1	2 20	21 16	0 1	21 46	1 8	23 4	16 45	14 24	14 28	22 59		n.a.
T 13	17 23	25 49	4 54	23 26	2 6	19 7	1 28	20 10	1 31	22 46	0 14	4 4	2 20	21 17	0 1	21 46	1 8	23 4	16 45	14 28	14 29	23 0		n.a.
F 14	17 39	27 38	4 29	23 47	2 7	18 43	1 14	20 1	1 30	22 45	0 14	4 6	2 20	21 17	0 1	21 46	1 8	23 4	16 45	14 31	14 30	23 2		n.a.
S 15	17 55	27 26	3 45	24 6	2 8	18 19	1 0	19 51	1 29	22 45	0 14	4 9	2 20	21 18	0 1	21 46	1 8	23 4	16 46	14 33	14 31	23 4		n.a.
S 16	18 10	25 22	2 49	24 22	2 9	17 55	0 46	19 42	1 28	22 44	0 14	4 11	2 20	21 19	0 2	21 46	1 8	23 4	16 46	14 35	14 32	23 6		n.a.
M17	18 25	21 48	1 43	24 36	2 8	17 31	0 32	19 32	1 27	22 44	0 14	4 14	2 20	21 19	0 2	21 45	1 8	23 4	16 46	14 36	14 33	23 8		n.a.
T 18	18 40	17 11	0 35	24 47	2 7	17 7	0 18	19 23	1 25	22 43	0 13	4 16	2 20	21 20	0 2	21 45	1 8	23 4	16 47	14 36	14 34	23 10		n.a.
W19	18 55	11 54	0s34	24 57	2 5	16 43	0 4	19 13	1 24	22 42	0 13	4 19	2 20	21 21	0 2	21 45	1 8	23 4	16 47	14 36	14 35	23 12		n.a.
T 20	19 9	6 16	1 39	25 5	2 3	16 20	0s10	19 3	1 23	22 42	0 13	4 21	2 20	21 21	0 2	21 45	1 8	23 4	16 47	14 36	14 36	23 14		n.a.
F 21	19 23	0 31	2 38	25 10	1 59	15 57	0 23	18 53	1 22	22 41	0 13	4 24	2 21	21 22	0 2	21 45	1 8	23 5	16 48	14 37	14 37	23 15		n.a.
S 22	19 37	5s 8	3 29	25 14	1 56	15 35	0 37	18 43	1 21	22 41	0 13	4 26	2 21	21 23	0 2	21 45	1 8	23 5	16 48	14 38	14 38	23 17		n.a.
S 23	19 50	10 32	4 9	25 15	1 51	15 14	0 50	18 33	1 19	22 40	0 13	4 29	2 21	21 23	0 2	21 44	1 8	23 5	16 48	14 41	14 39	23 19		n.a.
M24	20 3	15 30	4 38	25 16	1 46	14 54	1 3	18 23	1 18	22 39	0 13	4 31	2 21	21 24	0 2	21 44	1 8	23 5	16 49	14 44	14 40	23 21		n.a.
T 25	20 15	19 52	4 55	25 14	1 40	14 34	1 15	18 12	1 17	22 39	0 12	4 33	2 21	21 25	0 2	21 44	1 8	23 5	16 49	14 48	14 41	23 23		n.a.
W26	20 28	23 27	5 0	25 11	1 33	14 16	1 27	18 2	1 16	22 38	0 12	4 36	2 21	21 25	0 2	21 44	1 8	23 5	16 49	14 52	14 42	23 24		n.a.
T 27	20 40	26 2	4 51	25 6	1 26	13 58	1 39	17 51	1 15	22 37	0 12	4 38	2 21	21 26	0 2	21 44	1 8	23 5	16 50	14 56	14 43	23 26		n.a.
F 28	20 51	27 28	4 29	25 0	1 19	13 41	1 50	17 40	1 14	22 37	0 12	4 40	2 22	21 27	0 2	21 44	1 8	23 6	16 50	15 0	14 44	23 28		n.a.
S 29	21 3	27 38	3 55	24 53	1 10	13 26	2 1	17 30	1 13	22 36	0 12	4 43	2 22	21 27	0 2	21 43	1 8	23 6	16 51	15 4	14 45	23 30		n.a.
S 30	21 13	26 28	3 11	24 44	1 1	13 12	2 11	17 19	1 12	22 35	0 12	4 45	2 22	21 28	0 2	21 43	1 8	23 6	16 51	15 6	14 46	23 32		n.a.
M31	21n24	24s 2	2s17	24n35	0n52	12n59	2s21	17n 7	1n11	22s34	0n12	4n47	2s22	21n29	0n 2	21s43	1n 8	23s 6	16s51	15s 8	14s47	23s33		n.a.

Julian Day Number = 1666025.5, Delta T = 03h23m08s
Ecliptic obliquity = 23°42'56, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°09'40, Lahiri = - 6°02'39 Julian Calendar 1 May 152 BCE == Greg. Calendar 28 Apr. 152 BCE

The year -151 astronomical counting style corresponds to year 152 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 152 BCE
geocentric

JUNE 152 BCE (-151) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 24 18	6♊ 4'34	5♒ 2	1♋47	10°R34	17♌16	14°R 3	17♈40	5♊27	14°R47	10♓45	19°R29	20♒33	22♏33	n.a.	T 1
W 2	16 28 15	7° 1'40	17°39	2°44	10♉27	17°50	13♐56	17°46	5°31	14♐45	10°45	19°D28	20°30	22°40	n.a.	W 2
T 3	16 32 11	7°58'46	0♓34	3°37	10°23	18°23	13°48	17°52	5°34	14°44	10°46	19♒28	20°27	22°47	n.a.	T 3
F 4	16 36 8	8°55'53	13°50	4°27	10°D21	18°57	13°40	17°58	5°38	14°42	10°46	19°R28	20°23	22°54	n.a.	F 4
S 5	16 40 4	9°52'59	27°31	5°13	10°21	19°30	13°33	18° 4	5°42	14°40	10°46	19°27	20°20	23° 0	n.a.	S 5
S 6	16 44 1	10°50'07	11♈39	5°55	10°24	20° 4	13°25	18° 9	5°45	14°39	10°46	19°24	20°17	23° 7	n.a.	S 6
M 7	16 47 57	11°47'14	26°12	6°34	10°29	20°38	13°17	18°15	5°49	14°37	10°46	19°18	20°14	23°14	n.a.	M 7
T 8	16 51 54	12°44'23	11♉ 7	7° 9	10°36	21°12	13°10	18°21	5°52	14°36	10°47	19°11	20°11	23°20	n.a.	T 8
W 9	16 55 50	13°41'31	26°16	7°40	10°45	21°47	13° 2	18°26	5°56	14°34	10°47	19° 2	20° 7	23°27	n.a.	W 9
T 10	16 59 47	14°38'40	11♊29	8° 7	10°56	22°21	12°54	18°32	5°59	14°32	10°47	18°52	20° 4	23°34	n.a.	T 10
F 11	17 3 44	15°35'50	26°37	8°29	11° 9	22°55	12°47	18°37	6° 3	14°31	10°47	18°44	20° 1	23°41	n.a.	F 11
S 12	17 7 40	16°33'00	11♋28	8°47	11°25	23°30	12°39	18°43	6° 7	14°29	10°47	18°37	19°58	23°47	n.a.	S 12
S 13	17 11 37	17°30'10	25°55	9° 0	11°42	24° 5	12°31	18°48	6°10	14°27	10°47	18°33	19°55	23°54	n.a.	S 13
M14	17 15 33	18°27'20	9♌55	9° 9	12° 1	24°40	12°24	18°53	6°14	14°26	10°R47	18°31	19°52	24° 1	n.a.	M14
T 15	17 19 30	19°24'30	23°26	9°R12	12°22	25°15	12°16	18°58	6°17	14°24	10°47	18°D31	19°48	24° 8	n.a.	T 15
W16	17 23 26	20°21'40	6♍31	9°11	12°44	25°50	12° 8	19° 3	6°21	14°23	10°47	18°31	19°45	24°14	n.a.	W16
T 17	17 27 23	21°18'51	19°13	9° 6	13° 9	26°25	12° 1	19° 8	6°24	14°21	10°47	18°R32	19°42	24°21	n.a.	T 17
F 18	17 31 20	22°16'02	1♎35	8°55	13°35	27° 0	11°53	19°13	6°28	14°19	10°47	18°32	19°39	24°28	n.a.	F 18
S 19	17 35 16	23°13'13	13°44	8°39	14° 2	27°36	11°46	19°18	6°31	14°18	10°47	18°29	19°36	24°34	n.a.	S 19
S 20	17 39 13	24°10'24	25°43	8°19	14°31	28°11	11°38	19°23	6°35	14°16	10°47	18°25	19°33	24°41	n.a.	S 20
M21	17 43 9	25° 7'36	7♏37	7°55	15° 1	28°47	11°31	19°28	6°38	14°15	10°46	18°18	19°29	24°48	n.a.	M21
T 22	17 47 6	26° 4'49	19°29	7°26	15°33	29°23	11°24	19°32	6°42	14°13	10°46	18°10	19°26	24°55	n.a.	T 22
W23	17 51 2	27° 2'02	1♐22	6°54	16° 6	29°58	11°17	19°37	6°45	14°12	10°46	18° 1	19°23	25° 1	n.a.	W23
T 24	17 54 59	27°59'15	13°19	6°18	16°41	0♍34	11°10	19°41	6°48	14°10	10°46	17°52	19°20	25° 8	n.a.	T 24
F 25	17 58 55	28°56'30	25°20	5°39	17°16	1°10	11° 3	19°46	6°52	14° 8	10°46	17°43	19°17	25°15	n.a.	F 25
S 26	18 2 52	29°53'45	7♑28	4°58	17°53	1°47	10°56	19°50	6°55	14° 7	10°45	17°35	19°13	25°22	n.a.	S 26
S 27	18 6 49	0♋51'01	19°43	4°15	18°31	2°23	10°49	19°54	6°59	14° 5	10°45	17°30	19°10	25°28	n.a.	S 27
M28	18 10 45	1°48'18	2♒ 8	3°31	19°11	2°59	10°42	19°58	7° 2	14° 4	10°45	17°27	19° 7	25°35	n.a.	M28
T 29	18 14 42	2°45'36	14°43	2°48	19°51	3°36	10°35	20° 2	7° 5	14° 2	10°45	17°D26	19° 4	25°42	n.a.	T 29
W30	18 18 38	3♋42'55	27♒31	2♋ 4	20♉32	4♍12	10♐29	20♈ 6	7♊ 9	14♐ 1	10♓44	17♒26	19♒ 1	25♏48	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	21n34	20s27	1s16	24n24	0n42	12n47	2s30	16n56	1n 9	22s34	0n11	4n49	2s22	21n29	0n 2	21s43	1n 8	23s 6	16s52	15s 9	14s48	23s35			n.a.
W 2	21 44	15 52	0 10	24 12	0 31	12 36	2 39	16 45	1 8	22 33	0 11	4 51	2 22	21 30	0 2	21 43	1 8	23 7	16 52	15 9	14 49	23 37			n.a.
T 3	21 53	10 29	0n59	24 0	0 20	12 27	2 48	16 33	1 7	22 32	0 11	4 54	2 23	21 31	0 2	21 42	1 8	23 7	16 52	15 9	14 50	23 39			n.a.
F 4	22 3	4 30	2 6	23 47	0 9	12 19	2 56	16 22	1 6	22 31	0 11	4 56	2 23	21 31	0 2	21 42	1 8	23 7	16 53	15 9	14 51	23 40			n.a.
S 5	22 11	1n52	3 7	23 33	0s 4	12 12	3 3	16 10	1 5	22 31	0 11	4 58	2 23	21 32	0 2	21 42	1 8	23 7	16 53	15 9	14 53	23 42			n.a.
S 6	22 20	8 20	4 0	23 19	0 16	12 6	3 11	15 58	1 4	22 30	0 11	5 0	2 23	21 32	0 2	21 42	1 8	23 8	16 53	15 10	14 54	23 44			n.a.
M 7	22 28	14 33	4 39	23 4	0 29	12 1	3 17	15 46	1 3	22 29	0 11	5 2	2 23	21 33	0 2	21 42	1 8	23 8	16 54	15 12	14 55	23 45			n.a.
T 8	22 35	20 4	5 0	22 49	0 43	11 57	3 24	15 34	1 2	22 28	0 10	5 4	2 23	21 34	0 2	21 42	1 8	23 8	16 54	15 15	14 56	23 47			n.a.
W 9	22 42	24 24	5 0	22 33	0 56	11 54	3 30	15 22	1 1	22 27	0 10	5 6	2 24	21 34	0 2	21 41	1 8	23 8	16 55	15 17	14 57	23 49			n.a.
T 10	22 49	27 2	4 40	22 17	1 11	11 53	3 35	15 10	1 0	22 26	0 10	5 8	2 24	21 35	0 2	21 41	1 8	23 9	16 55	15 20	14 58	23 51			n.a.
F 11	22 56	27 40	4 0	22 2	1 25	11 52	3 40	14 57	0 59	22 26	0 10	5 10	2 24	21 36	0 2	21 41	1 8	23 9	16 55	15 23	14 59	23 52			n.a.
S 12	23 2	26 16	3 4	21 46	1 40	11 52	3 45	14 45	0 58	22 25	0 10	5 12	2 24	21 36	0 2	21 41	1 8	23 9	16 56	15 25	15 0	23 54			n.a.
S 13	23 7	23 8	1 57	21 30	1 54	11 53	3 49	14 32	0 57	22 24	0 10	5 13	2 24	21 37	0 2	21 41	1 8	23 10	16 56	15 26	15 1	23 56			n.a.
M14	23 12	18 42	0 46	21 15	2 9	11 55	3 53	14 20	0 56	22 23	0 9	5 15	2 25	21 38	0 2	21 41	1 8	23 10	16 56	15 27	15 2	23 57			n.a.
T 15	23 17	13 27	0s26	21 0	2 24	11 58	3 57	14 7	0 55	22 22	0 9	5 17	2 25	21 38	0 2	21 40	1 8	23 10	16 57	15 27	15 3	23 59			n.a.
W16	23 22	7 45	1 35	20 45	2 39	12 2	4 0	13 54	0 54	22 21	0 9	5 19	2 25	21 39	0 2	21 40	1 8	23 11	16 57	15 27	15 4	24 1			n.a.
T 17	23 26	1 55	2 37	20 31	2 53	12 6	4 3	13 41	0 53	22 21	0 9	5 20	2 25	21 39	0 2	21 40	1 8	23 11	16 58	15 27	15 5	24 2			n.a.
F 18	23 29	3s50	3 29	20 18	3 7	12 12	4 5	13 28	0 52	22 20	0 9	5 22	2 25	21 40	0 2	21 40	1 8	23 11	16 58	15 27	15 6	24 4			n.a.
S 19	23 32	9 20	4 12	20 5	3 21	12 18	4 8	13 14	0 51	22 19	0 9	5 24	2 26	21 41	0 2	21 40	1 8	23 12	16 58	15 28	15 7	24 6			n.a.
S 20	23 35	14 25	4 42	19 53	3 34	12 24	4 10	13 1	0 50	22 18	0 8	5 25	2 26	21 41	0 2	21 40	1 8	23 12	16 59	15 29	15 8	24 7			n.a.
M21	23 37	18 56	5 0	19 42	3 47	12 31	4 11	12 48	0 49	22 17	0 8	5 27	2 26	21 42	0 2	21 39	1 8	23 13	16 59	15 31	15 9	24 9			n.a.
T 22	23 39	22 42	5 6	19 32	3 59	12 39	4 13	12 34	0 48	22 16	0 8	5 29	2 26	21 42	0 2	21 39	1 8	23 13	16 59	15 34	15 10	24 10			n.a.
W23	23 41	25 31	4 57	19 23	4 9	12 48	4 14	12 20	0 47	22 16	0 8	5 30	2 27	21 43	0 2	21 39	1 7	23 13	17 0	15 36	15 11	24 12			n.a.
T 24	23 42	27 14	4 36	19 16	4 19	12 56	4 15	12 7	0 46	22 15	0 8	5 32	2 27	21 44	0 2	21 39	1 7	23 14	17 0	15 39	15 12	24 14			n.a.
F 25	23 43	27 41	4 3	19 9	4 27	13 6	4 16	11 53	0 45	22 14	0 8	5 33	2 27	21 44	0 2	21 39	1 7	23 14	17 1	15 42	15 13	24 15			n.a.
S 26	23 43	26 48	3 18	19 4	4 33	13 16	4 16	11 39	0 44	22 13	0 7	5 34	2 27	21 45	0 2	21 39	1 7	23 15	17 1	15 44	15 14	24 17			n.a.
S 27	23 43	24 37	2 24	19 0	4 39	13 26	4 16	11 25	0 43	22 12	0 7	5 36	2 27	21 45	0 2	21 38	1 7	23 15	17 1	15 46	15 15	24 18			n.a.
M28	23 42	21 14	1 22	18 58	4 42	13 37	4 16	11 11	0 42	22 11	0 7	5 37	2 28	21 46	0 2	21 38	1 7	23 16	17 2	15 47	15 16	24 20			n.a.
T 29	23 41	16 50	0 15	18 57	4 44	13 48	4 16	10 56	0 41	22 11	0 7	5 38	2 28	21 47	0 2	21 38	1 7	23 16	17 2	15 47	15 17	24 22			n.a.
W30	23n40	11s37	0n54	18n58	4s44	13n59	4s16	10n42	0n40	22s10	0n 7	5n40	2s28	21n47	0n 2	21s38	1n 7	23s16	17s 2	15s47	15s18	24s23			n.a.

Julian Day Number = 1666056.5, Delta T = 03h23m07s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°09'36, Lahiri = - 6°02'35 Julian Calendar 1 June 152 BCE == Greg. Calendar 29 May 152 BCE

The year -151 astronomical counting style corresponds to year 152 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 152 BCE
geocentric

JULY 152 BCE (-151) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 22 35	4♋40'15	10♓34	1°R23	21♉15	4♍49	10°R22	20♈10	7♊12	13°R59	10°R44	17♒27	18♒58	25♏55	n.a.	T 1
F 2	18 26 31	5°37'36	23°54	0♋43	21°58	5°26	10♐16	20°14	7°15	13♐58	10♓44	17°29	18°54	26° 2	n.a.	F 2
S 3	18 30 28	6°34'59	7♈33	0° 7	22°42	6° 3	10°10	20°17	7°18	13°56	10°43	17°R29	18°51	26° 9	n.a.	S 3
S 4	18 34 24	7°32'23	21°33	29♊34	23°27	6°40	10° 4	20°21	7°22	13°55	10°43	17°28	18°48	26°15	n.a.	S 4
M 5	18 38 21	8°29'48	5♉53	29° 5	24°13	7°17	9°58	20°24	7°25	13°53	10°42	17°26	18°45	26°22	n.a.	M 5
T 6	18 42 18	9°27'15	20°30	28°42	25° 0	7°54	9°52	20°28	7°28	13°52	10°42	17°22	18°42	26°29	n.a.	T 6
W 7	18 46 14	10°24'43	5♊19	28°24	25°48	8°31	9°46	20°31	7°31	13°51	10°41	17°17	18°39	26°36	n.a.	W 7
T 8	18 50 11	11°22'13	20°14	28°11	26°36	9° 9	9°41	20°34	7°34	13°49	10°41	17°11	18°35	26°42	n.a.	T 8
F 9	18 54 7	12°19'44	5♋ 5	28°D 6	27°25	9°46	9°35	20°37	7°37	13°48	10°40	17° 7	18°32	26°49	n.a.	F 9
S 10	18 58 4	13°17'16	19°45	28° 6	28°15	10°24	9°30	20°40	7°40	13°46	10°40	17° 3	18°29	26°56	n.a.	S 10
S 11	19 2 0	14°14'49	4♌ 7	28°13	29° 6	11° 2	9°25	20°43	7°44	13°45	10°39	17° 1	18°26	27° 2	n.a.	S 11
M12	19 5 57	15°12'24	18° 5	28°28	29°57	11°39	9°20	20°46	7°47	13°44	10°39	17°D 0	18°23	27° 9	n.a.	M12
T 13	19 9 54	16° 9'59	1♍38	28°49	0♊49	12°17	9°15	20°49	7°50	13°42	10°38	17° 1	18°19	27°16	n.a.	T 13
W14	19 13 50	17° 7'36	14°46	29°17	1°41	12°55	9°11	20°52	7°53	13°41	10°37	17° 2	18°16	27°23	n.a.	W14
T 15	19 17 47	18° 5'14	27°32	29°52	2°35	13°33	9° 6	20°54	7°56	13°40	10°37	17° 4	18°13	27°29	n.a.	T 15
F 16	19 21 43	19° 2'53	9♎57	0♋34	3°28	14°12	9° 2	20°56	7°58	13°39	10°36	17° 5	18°10	27°36	n.a.	F 16
S 17	19 25 40	20° 0'33	22° 8	1°23	4°22	14°50	8°57	20°59	8° 1	13°37	10°36	17°R 5	18° 7	27°43	n.a.	S 17
S 18	19 29 36	20°58'14	4♏ 8	2°19	5°17	15°28	8°53	21° 1	8° 4	13°36	10°35	17° 5	18° 4	27°49	n.a.	S 18
M19	19 33 33	21°55'56	16° 3	3°21	6°12	16° 7	8°50	21° 3	8° 7	13°35	10°34	17° 3	18° 0	27°56	n.a.	M19
T 20	19 37 29	22°53'40	27°55	4°29	7° 8	16°45	8°46	21° 5	8°10	13°34	10°33	17° 0	17°57	28° 3	n.a.	T 20
W21	19 41 26	23°51'25	9♐50	5°44	8° 4	17°24	8°42	21° 7	8°13	13°33	10°33	16°56	17°54	28°10	n.a.	W21
T 22	19 45 23	24°49'11	21°50	7° 4	9° 1	18° 3	8°39	21° 9	8°15	13°32	10°32	16°53	17°51	28°16	n.a.	T 22
F 23	19 49 19	25°46'59	3♑59	8°29	9°58	18°41	8°36	21°11	8°18	13°31	10°31	16°49	17°48	28°23	n.a.	F 23
S 24	19 53 16	26°44'48	16°17	9°59	10°56	19°20	8°33	21°12	8°21	13°29	10°30	16°47	17°45	28°30	n.a.	S 24
S 25	19 57 12	27°42'39	28°47	11°34	11°54	19°59	8°30	21°14	8°23	13°28	10°30	16°45	17°41	28°37	n.a.	S 25
M26	20 1 9	28°40'32	11♒29	13°13	12°53	20°38	8°28	21°15	8°26	13°27	10°29	16°D44	17°38	28°43	n.a.	M26
T 27	20 5 5	29°38'26	24°23	14°56	13°52	21°18	8°25	21°16	8°28	13°26	10°28	16°44	17°35	28°50	n.a.	T 27
W28	20 9 2	0♌36'21	7♓31	16°42	14°51	21°57	8°23	21°18	8°31	13°25	10°27	16°45	17°32	28°57	n.a.	W28
T 29	20 12 58	1°34'19	20°52	18°31	15°51	22°36	8°21	21°19	8°33	13°24	10°26	16°46	17°29	29° 3	n.a.	T 29
F 30	20 16 55	2°32'19	4♈26	20°22	16°51	23°16	8°19	21°20	8°36	13°24	10°25	16°47	17°25	29°10	n.a.	F 30
S 31	20 20 52	3♌30'20	18♈13	22♋15	17♊52	23♍55	8♐17	21♈20	8♊38	13♐23	10♓24	16♒48	17♒22	29♏17	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23n38	5s49	2n 2	19n 0	4s42	14n11	4s15	10n28	0n39	22s 9	0n 7	5n41	2s28	21n48	0n 2	21s38	1n 7	23s17	17s 3	15s47	15s19	24s25			n.a.
F 2	23 36	0n22	3 5	19 4	4 39	14 23	4 14	10 13	0 38	22 8	0 7	5 42	2 29	21 48	0 2	21 38	1 7	23 17	17 3	15 46	15 20	24 26			n.a.
S 3	23 33	6 40	3 58	19 9	4 34	14 35	4 13	9 58	0 37	22 8	0 6	5 43	2 29	21 49	0 2	21 37	1 7	23 18	17 3	15 46	15 21	24 28			n.a.
S 4	23 30	12 48	4 39	19 16	4 27	14 47	4 12	9 44	0 36	22 7	0 6	5 45	2 29	21 49	0 2	21 37	1 7	23 18	17 4	15 47	15 22	24 29			n.a.
M 5	23 26	18 24	5 4	19 24	4 19	15 0	4 11	9 29	0 35	22 6	0 6	5 46	2 29	21 50	0 2	21 37	1 7	23 19	17 4	15 47	15 23	24 31			n.a.
T 6	23 22	23 3	5 10	19 34	4 9	15 12	4 9	9 14	0 34	22 5	0 6	5 47	2 30	21 50	0 2	21 37	1 7	23 19	17 4	15 49	15 24	24 32			n.a.
W 7	23 18	26 16	4 55	19 44	3 58	15 25	4 8	8 59	0 33	22 5	0 6	5 48	2 30	21 51	0 2	21 37	1 7	23 20	17 5	15 50	15 25	24 34			n.a.
T 8	23 13	27 41	4 21	19 56	3 46	15 38	4 6	8 44	0 33	22 4	0 6	5 49	2 30	21 51	0 2	21 37	1 7	23 20	17 5	15 52	15 26	24 35			n.a.
F 9	23 8	27 5	3 28	20 9	3 33	15 51	4 4	8 29	0 32	22 3	0 5	5 50	2 30	21 52	0 2	21 37	1 7	23 21	17 5	15 53	15 27	24 37			n.a.
S 10	23 3	24 36	2 23	20 23	3 19	16 4	4 2	8 14	0 31	22 3	0 5	5 51	2 31	21 53	0 2	21 36	1 7	23 21	17 6	15 54	15 28	24 38			n.a.
S 11	22 57	20 35	1 10	20 38	3 4	16 17	4 0	7 58	0 30	22 2	0 5	5 51	2 31	21 53	0 2	21 36	1 7	23 22	17 6	15 55	15 29	24 40			n.a.
M12	22 50	15 29	0s 6	20 53	2 49	16 31	3 57	7 43	0 29	22 1	0 5	5 52	2 31	21 54	0 2	21 36	1 7	23 22	17 6	15 55	15 30	24 41			n.a.
T 13	22 43	9 47	1 19	21 9	2 33	16 44	3 55	7 28	0 28	22 1	0 5	5 53	2 31	21 54	0 2	21 36	1 7	23 23	17 7	15 55	15 31	24 43			n.a.
W14	22 36	3 49	2 26	21 25	2 17	16 57	3 52	7 12	0 27	22 0	0 5	5 54	2 32	21 55	0 2	21 36	1 7	23 23	17 7	15 54	15 32	24 44			n.a.
T 15	22 29	2s 7	3 24	21 42	2 1	17 10	3 49	6 56	0 26	22 0	0 4	5 54	2 32	21 55	0 2	21 36	1 7	23 24	17 7	15 54	15 33	24 46			n.a.
F 16	22 21	7 49	4 10	21 58	1 45	17 23	3 47	6 41	0 25	21 59	0 4	5 55	2 32	21 56	0 2	21 36	1 7	23 24	17 8	15 54	15 34	24 47			n.a.
S 17	22 12	13 6	4 44	22 14	1 29	17 36	3 44	6 25	0 24	21 59	0 4	5 56	2 32	21 56	0 2	21 36	1 7	23 25	17 8	15 54	15 35	24 49			n.a.
S 18	22 3	17 49	5 6	22 29	1 13	17 49	3 41	6 9	0 24	21 58	0 4	5 56	2 33	21 56	0 2	21 35	1 7	23 25	17 8	15 54	15 36	24 50			n.a.
M19	21 54	21 49	5 13	22 43	0 57	18 1	3 38	5 53	0 23	21 58	0 4	5 57	2 33	21 57	0 2	21 35	1 7	23 26	17 8	15 54	15 37	24 52			n.a.
T 20	21 45	24 55	5 8	22 56	0 42	18 14	3 34	5 37	0 22	21 57	0 4	5 57	2 33	21 57	0 2	21 35	1 7	23 27	17 9	15 55	15 38	24 53			n.a.
W21	21 35	26 57	4 49	23 8	0 27	18 26	3 31	5 21	0 21	21 57	0 3	5 58	2 33	21 58	0 2	21 35	1 7	23 27	17 9	15 56	15 39	24 54			n.a.
T 22	21 25	27 45	4 17	23 19	0 13	18 38	3 28	5 5	0 20	21 57	0 3	5 58	2 34	21 58	0 2	21 35	1 7	23 28	17 9	15 57	15 40	24 56			n.a.
F 23	21 14	27 13	3 34	23 27	0n 1	18 50	3 24	4 49	0 19	21 56	0 3	5 59	2 34	21 59	0 2	21 35	1 7	23 28	17 10	15 58	15 41	24 57			n.a.
S 24	21 3	25 21	2 40	23 34	0 14	19 2	3 21	4 33	0 18	21 56	0 3	5 59	2 34	21 59	0 2	21 35	1 7	23 29	17 10	15 59	15 42	24 59			n.a.
S 25	20 52	22 14	1 37	23 38	0 26	19 13	3 17	4 17	0 17	21 56	0 3	5 59	2 34	22 0	0 2	21 35	1 7	23 29	17 10	16 0	15 42	25 0			n.a.
M26	20 40	18 0	0 29	23 41	0 38	19 25	3 13	4 0	0 17	21 55	0 3	6 0	2 35	22 0	0 2	21 35	1 7	23 30	17 10	16 0	15 43	25 1			n.a.
T 27	20 28	12 53	0n42	23 40	0 48	19 36	3 9	3 44	0 16	21 55	0 3	6 0	2 35	22 0	0 2	21 35	1 6	23 30	17 11	16 0	15 44	25 3			n.a.
W28	20 15	7 7	1 52	23 37	0 58	19 46	3 6	3 27	0 15	21 55	0 2	6 0	2 35	22 1	0 2	21 34	1 6	23 31	17 11	16 0	15 45	25 4			n.a.
T 29	20 2	0 57	2 57	23 32	1 7	19 57	3 2	3 11	0 14	21 55	0 2	6 0	2 35	22 1	0 2	21 34	1 6	23 32	17 11	16 0	15 46	25 6			n.a.
F 30	19 49	5n21	3 54	23 23	1 15	20 7	2 58	2 54	0 13	21 55	0 2	6 0	2 36	22 2	0 2	21 34	1 6	23 32	17 11	15 59	15 47	25 7			n.a.
S 31	19n36	11n29	4n38	23n12	1n22	20n16	2s54	2n38	0n12	21s55	0n 2	6n 1	2s36	22n 2	0n 2	21s34	1n 6	23s33	17s12	15s59	15s48	25s 8			n.a.

Julian Day Number = 1666086.5, Delta T = 03h23m06s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°09'31, Lahiri = - 6°02'31 Julian Calendar 1 July 152 BCE == Greg. Calendar 28 June 152 BCE

The year -151 astronomical counting style corresponds to year 152 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 152 BCE
geocentric

AUGUST 152 BCE (-151) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 24 48	4♌28'24	2♉13	24♋10	18♊53	24♍35	8°R16	21♈21	8♊41	13°R22	10°R24	16°R48	17♒19	29♏24	n.a.	S 1
M 2	20 28 45	5°26'30	16°24	26° 5	19°54	25°14	8♐15	21°22	8°43	13♐21	10♓23	16♒48	17°16	29°30	n.a.	M 2
T 3	20 32 41	6°24'38	0♊44	28° 2	20°55	25°54	8°14	21°22	8°45	13°20	10°22	16°47	17°13	29°37	n.a.	T 3
W 4	20 36 38	7°22'48	15°11	29°59	21°57	26°34	8°13	21°23	8°48	13°19	10°21	16°46	17°10	29°44	n.a.	W 4
T 5	20 40 34	8°21'00	29°39	1♌56	23° 0	27°14	8°12	21°23	8°50	13°19	10°20	16°45	17° 6	29°50	n.a.	T 5
F 6	20 44 31	9°19'14	14♋ 5	3°53	24° 2	27°54	8°11	21°23	8°52	13°18	10°19	16°45	17° 3	29°57	n.a.	F 6
S 7	20 48 27	10°17'30	28°22	5°49	25° 5	28°34	8°11	21°R23	8°54	13°17	10°18	16°44	17° 0	0♐ 4	n.a.	S 7
S 8	20 52 24	11°15'49	12♌25	7°46	26° 8	29°14	8°D11	21°23	8°56	13°16	10°17	16°D44	16°57	0°11	n.a.	S 8
M 9	20 56 21	12°14'09	26°11	9°41	27°12	29°55	8°11	21°23	8°58	13°16	10°16	16°44	16°54	0°17	n.a.	M 9
T 10	21 0 17	13°12'30	9♍37	11°36	28°15	0♎35	8°11	21°23	9° 0	13°15	10°15	16°44	16°51	0°24	n.a.	T 10
W11	21 4 14	14°10'54	22°43	13°31	29°19	1°16	8°12	21°23	9° 2	13°15	10°14	16°44	16°47	0°31	n.a.	W11
T 12	21 8 10	15° 9'19	5♎28	15°24	0♋23	1°56	8°12	21°22	9° 4	13°14	10°13	16°45	16°44	0°38	n.a.	T 12
F 13	21 12 7	16° 7'46	17°56	17°16	1°28	2°37	8°13	21°22	9° 6	13°13	10°12	16°45	16°41	0°44	n.a.	F 13
S 14	21 16 3	17° 6'15	0♏ 8	19° 8	2°33	3°18	8°14	21°21	9° 8	13°13	10°11	16°R45	16°38	0°51	n.a.	S 14
S 15	21 20 0	18° 4'46	12°10	20°58	3°38	3°58	8°15	21°20	9°10	13°13	10° 9	16°D45	16°35	0°58	n.a.	S 15
M16	21 23 56	19° 3'18	24° 4	22°48	4°43	4°39	8°17	21°19	9°11	13°12	10° 8	16°45	16°31	1° 4	n.a.	M16
T 17	21 27 53	20° 1'52	5♐58	24°36	5°48	5°20	8°18	21°18	9°13	13°12	10° 7	16°45	16°28	1°11	n.a.	T 17
W18	21 31 49	21° 0'28	17°53	26°23	6°54	6° 1	8°20	21°17	9°15	13°11	10° 6	16°45	16°25	1°18	n.a.	W18
T 19	21 35 46	21°59'06	29°56	28° 9	8° 0	6°42	8°22	21°16	9°16	13°11	10° 5	16°46	16°22	1°25	n.a.	T 19
F 20	21 39 43	22°57'46	12♑ 9	29°54	9° 6	7°24	8°24	21°15	9°18	13°11	10° 4	16°46	16°19	1°31	n.a.	F 20
S 21	21 43 39	23°56'27	24°36	1♍39	10°13	8° 5	8°27	21°13	9°19	13°10	10° 3	16°47	16°16	1°38	n.a.	S 21
S 22	21 47 36	24°55'11	7♒19	3°22	11°19	8°46	8°29	21°12	9°21	13°10	10° 2	16°47	16°12	1°45	n.a.	S 22
M23	21 51 32	25°53'56	20°19	5° 4	12°26	9°28	8°32	21°10	9°22	13°10	10° 1	16°R47	16° 9	1°51	n.a.	M23
T 24	21 55 29	26°52'43	3♓36	6°45	13°33	10° 9	8°35	21° 8	9°24	13°10	9°59	16°47	16° 6	1°58	n.a.	T 24
W25	21 59 25	27°51'33	17° 9	8°25	14°40	10°51	8°38	21° 6	9°25	13°10	9°58	16°46	16° 3	2° 5	n.a.	W25
T 26	22 3 22	28°50'24	0♈57	10° 4	15°48	11°32	8°41	21° 4	9°26	13° 9	9°57	16°45	16° 0	2°12	n.a.	T 26
F 27	22 7 18	29°49'18	14°55	11°43	16°55	12°14	8°44	21° 2	9°27	13° 9	9°56	16°43	15°56	2°18	n.a.	F 27
S 28	22 11 15	0♍48'15	29° 1	13°20	18° 3	12°56	8°48	21° 0	9°29	13° 9	9°55	16°41	15°53	2°25	n.a.	S 28
S 29	22 15 12	1°47'13	13♉12	14°56	19°11	13°38	8°52	20°58	9°30	13°D 9	9°54	16°40	15°50	2°32	n.a.	S 29
M30	22 19 8	2°46'15	27°25	16°32	20°19	14°20	8°56	20°56	9°31	13° 9	9°53	16°D39	15°47	2°38	n.a.	M30
T 31	22 23 5	3♍45'18	11♊38	18♍ 6	21♋28	15♎ 2	9♐ 0	20♈53	9♊32	13♐ 9	9♓51	16♒40	15♒44	2♐45	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	19n22	17n 9	5n 6	22n58	1n28	20n26	2s50	2n21	0n12	21s54	0n 2	6n 1	2s36	22n 2	0n 2	21s34	1n 6	23s33	17s12	15s59	15s49	25s10			n.a.
M 2	19 8	21 58	5 16	22 42	1 33	20 35	2 45	2 5	0 11	21 54	0 2	6 1	2 37	22 3	0 2	21 34	1 6	23 34	17 12	15 59	15 50	25 11			n.a.
T 3	18 53	25 32	5 7	22 23	1 38	20 43	2 41	1 48	0 10	21 54	0 2	6 0	2 37	22 3	0 2	21 34	1 6	23 34	17 12	15 59	15 51	25 12			n.a.
W 4	18 38	27 29	4 38	22 2	1 41	20 51	2 37	1 31	0 9	21 54	0 1	6 0	2 37	22 4	0 2	21 34	1 6	23 35	17 12	15 59	15 52	25 14			n.a.
T 5	18 23	27 35	3 52	21 39	1 44	20 59	2 33	1 14	0 8	21 54	0 1	6 0	2 37	22 4	0 2	21 34	1 6	23 36	17 13	16 0	15 53	25 15			n.a.
F 6	18 8	25 48	2 51	21 13	1 46	21 6	2 29	0 57	0 7	21 54	0 1	6 0	2 38	22 4	0 2	21 34	1 6	23 36	17 13	16 0	15 54	25 16			n.a.
S 7	17 52	22 22	1 40	20 46	1 47	21 13	2 24	0 41	0 7	21 55	0 1	6 0	2 38	22 5	0 2	21 34	1 6	23 37	17 13	16 0	15 55	25 17			n.a.
S 8	17 36	17 39	0 24	20 16	1 48	21 20	2 20	0 24	0 6	21 55	0 1	6 0	2 38	22 5	0 2	21 34	1 6	23 37	17 13	16 0	15 56	25 19			n.a.
M 9	17 19	12 7	0s52	19 45	1 48	21 25	2 16	0 7	0 5	21 55	0 1	5 59	2 38	22 5	0 2	21 34	1 6	23 38	17 13	16 0	15 57	25 20			n.a.
T 10	17 3	6 9	2 4	19 13	1 47	21 31	2 11	0s10	0 4	21 55	0 1	5 59	2 39	22 6	0 2	21 34	1 6	23 38	17 14	16 0	15 58	25 21			n.a.
W11	16 46	0 4	3 6	18 39	1 46	21 36	2 7	0 27	0 3	21 55	0 0	5 59	2 39	22 6	0 2	21 34	1 6	23 39	17 14	16 0	15 59	25 23			n.a.
T 12	16 29	5s50	3 58	18 3	1 44	21 40	2 2	0 44	0 3	21 55	0 0	5 58	2 39	22 6	0 2	21 34	1 6	23 40	17 14	16 0	16 0	25 24			n.a.
F 13	16 11	11 23	4 38	17 27	1 41	21 44	1 58	1 1	0 2	21 56	0 0	5 58	2 39	22 7	0 2	21 34	1 6	23 40	17 14	16 0	16 1	25 25			n.a.
S 14	15 53	16 22	5 4	16 49	1 39	21 48	1 54	1 19	0 1	21 56	0s 0	5 57	2 40	22 7	0 2	21 34	1 6	23 41	17 14	16 0	16 2	25 26			n.a.
S 15	15 35	20 40	5 16	16 11	1 35	21 51	1 49	1 36	0 0	21 56	0 0	5 57	2 40	22 7	0 2	21 34	1 6	23 41	17 14	16 0	16 3	25 28			n.a.
M16	15 17	24 4	5 14	15 31	1 32	21 53	1 45	1 53	0s 1	21 57	0 0	5 56	2 40	22 7	0 2	21 34	1 6	23 42	17 15	16 0	16 4	25 29			n.a.
T 17	14 58	26 27	4 59	14 51	1 28	21 55	1 40	2 10	0 1	21 57	0 0	5 56	2 40	22 8	0 2	21 34	1 6	23 42	17 15	16 0	16 5	25 30			n.a.
W18	14 40	27 40	4 31	14 10	1 23	21 56	1 36	2 27	0 2	21 58	0 1	5 55	2 41	22 8	0 2	21 34	1 6	23 43	17 15	16 0	16 6	25 31			n.a.
T 19	14 20	27 34	3 51	13 29	1 19	21 57	1 31	2 44	0 3	21 58	0 1	5 54	2 41	22 8	0 2	21 34	1 6	23 43	17 15	16 0	16 7	25 32			n.a.
F 20	14 1	26 9	3 0	12 47	1 14	21 57	1 27	3 1	0 4	21 58	0 1	5 54	2 41	22 8	0 2	21 34	1 5	23 44	17 15	15 59	16 8	25 34			n.a.
S 21	13 42	23 25	2 0	12 4	1 8	21 57	1 22	3 19	0 4	21 59	0 1	5 53	2 41	22 9	0 2	21 34	1 5	23 45	17 15	15 59	16 9	25 35			n.a.
S 22	13 22	19 30	0 52	11 22	1 3	21 56	1 18	3 36	0 5	21 59	0 1	5 52	2 42	22 9	0 3	21 34	1 5	23 45	17 15	15 59	16 10	25 36			n.a.
M23	13 2	14 34	0n20	10 39	0 57	21 55	1 13	3 53	0 6	22 0	0 1	5 51	2 42	22 9	0 3	21 34	1 5	23 46	17 15	15 59	16 11	25 37			n.a.
T 24	12 42	8 53	1 32	9 55	0 51	21 52	1 9	4 10	0 7	22 1	0 1	5 50	2 42	22 9	0 3	21 34	1 5	23 46	17 16	15 59	16 12	25 38			n.a.
W25	12 21	2 40	2 40	9 12	0 45	21 50	1 5	4 27	0 8	22 1	0 2	5 49	2 42	22 10	0 3	21 34	1 5	23 47	17 16	15 59	16 13	25 39			n.a.
T 26	12 1	3n45	3 40	8 28	0 38	21 46	1 0	4 45	0 8	22 2	0 2	5 48	2 43	22 10	0 3	21 34	1 5	23 47	17 16	16 0	16 14	25 41			n.a.
F 27	11 40	10 3	4 28	7 45	0 32	21 43	0 56	5 2	0 9	22 3	0 2	5 47	2 43	22 10	0 3	21 34	1 5	23 48	17 16	16 0	16 14	25 42			n.a.
S 28	11 19	15 55	5 1	7 1	0 25	21 38	0 51	5 19	0 10	22 3	0 2	5 46	2 43	22 10	0 3	21 34	1 5	23 48	17 16	16 1	16 15	25 43			n.a.
S 29	10 58	20 58	5 15	6 17	0 19	21 33	0 47	5 36	0 11	22 4	0 2	5 45	2 43	22 10	0 3	21 34	1 5	23 49	17 16	16 1	16 16	25 44			n.a.
M30	10 36	24 50	5 10	5 33	0 12	21 27	0 43	5 53	0 11	22 5	0 2	5 44	2 43	22 11	0 3	21 34	1 5	23 49	17 16	16 1	16 17	25 45			n.a.
T 31	10n15	27n10	4n46	4n50	0n 5	21n21	0s38	6s10	0s12	22s 5	0s 2	5n43	2s44	22n11	0n 3	21s34	1n 5	23s50	17s16	16s 1	16s18	25s46			n.a.

Julian Day Number = 1666117.5, Delta T = 03h23m05s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°09'27, Lahiri = - 6°02'27 Julian Calendar 1 Aug. 152 BCE == Greg. Calendar 29 July 152 BCE

The year -151 astronomical counting style corresponds to year 152 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 152 BCE
geocentric

SEPTEMBER 152 BCE (-151) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 27 1	4♍44'25	25♊47	19♍40	22♋36	15♎44	9♐ 4	20°R51	9♊33	13♐ 9	9°R50	16♒40	15♒41	2♐52	n.a.	W 1
T 2	22 30 58	5°43'33	9♋52	21°13	23°45	16°26	9° 9	20♈48	9°34	13°10	9♓49	16°42	15°37	2°59	n.a.	T 2
F 3	22 34 54	6°42'44	23°49	22°45	24°54	17° 9	9°13	20°45	9°35	13°10	9°48	16°43	15°34	3° 5	n.a.	F 3
S 4	22 38 51	7°41'58	7♌38	24°17	26° 3	17°51	9°18	20°42	9°35	13°10	9°47	16°44	15°31	3°12	n.a.	S 4
S 5	22 42 47	8°41'13	21°16	25°47	27°12	18°33	9°23	20°39	9°36	13°10	9°45	16°R44	15°28	3°19	n.a.	S 5
M 6	22 46 44	9°40'31	4♍41	27°17	28°21	19°16	9°29	20°36	9°37	13°10	9°44	16°43	15°25	3°25	n.a.	M 6
T 7	22 50 41	10°39'51	17°51	28°45	29°31	19°58	9°34	20°33	9°37	13°11	9°43	16°41	15°22	3°32	n.a.	T 7
W 8	22 54 37	11°39'13	0♎46	0♎13	0♌41	20°41	9°39	20°30	9°38	13°11	9°42	16°37	15°18	3°39	n.a.	W 8
T 9	22 58 34	12°38'37	13°26	1°40	1°50	21°24	9°45	20°27	9°39	13°11	9°41	16°33	15°15	3°46	n.a.	T 9
F 10	23 2 30	13°38'03	25°50	3° 6	3° 0	22° 7	9°51	20°24	9°39	13°12	9°40	16°29	15°12	3°52	n.a.	F 10
S 11	23 6 27	14°37'31	8♏ 1	4°32	4°11	22°50	9°57	20°20	9°39	13°12	9°38	16°24	15° 9	3°59	n.a.	S 11
S 12	23 10 23	15°37'01	20° 2	5°56	5°21	23°33	10° 3	20°17	9°40	13°13	9°37	16°21	15° 6	4° 6	n.a.	S 12
M13	23 14 20	16°36'33	1♐57	7°19	6°31	24°16	10°10	20°13	9°40	13°13	9°36	16°18	15° 2	4°12	n.a.	M13
T 14	23 18 16	17°36'07	13°48	8°42	7°42	24°59	10°16	20° 9	9°40	13°14	9°35	16°D17	14°59	4°19	n.a.	T 14
W15	23 22 13	18°35'43	25°42	10° 3	8°52	25°42	10°23	20° 6	9°41	13°14	9°34	16°17	14°56	4°26	n.a.	W15
T 16	23 26 9	19°35'21	7♑44	11°23	10° 3	26°25	10°29	20° 2	9°41	13°15	9°33	16°19	14°53	4°33	n.a.	T 16
F 17	23 30 6	20°35'00	19°57	12°43	11°14	27° 8	10°36	19°58	9°41	13°15	9°31	16°20	14°50	4°39	n.a.	F 17
S 18	23 34 3	21°34'42	2♒27	14° 1	12°25	27°52	10°44	19°54	9°41	13°16	9°30	16°22	14°47	4°46	n.a.	S 18
S 19	23 37 59	22°34'25	15°17	15°17	13°36	28°35	10°51	19°50	9°R41	13°17	9°29	16°R23	14°43	4°53	n.a.	S 19
M20	23 41 56	23°34'10	28°30	16°32	14°47	29°19	10°58	19°46	9°41	13°17	9°28	16°22	14°40	5° 0	n.a.	M20
T 21	23 45 52	24°33'57	12♓ 6	17°46	15°59	0♏ 2	11° 6	19°42	9°41	13°18	9°27	16°19	14°37	5° 6	n.a.	T 21
W22	23 49 49	25°33'46	26° 3	18°58	17°10	0°46	11°14	19°37	9°41	13°19	9°26	16°15	14°34	5°13	n.a.	W22
T 23	23 53 45	26°33'37	10♈18	20° 9	18°22	1°30	11°21	19°33	9°40	13°20	9°25	16° 9	14°31	5°20	n.a.	T 23
F 24	23 57 42	27°33'30	24°46	21°17	19°34	2°14	11°29	19°29	9°40	13°21	9°23	16° 3	14°28	5°26	n.a.	F 24
S 25	0 1 38	28°33'25	9♉20	22°24	20°45	2°57	11°37	19°24	9°40	13°21	9°22	15°56	14°24	5°33	n.a.	S 25
S 26	0 5 35	29°33'23	23°53	23°28	21°57	3°41	11°46	19°20	9°40	13°22	9°21	15°51	14°21	5°40	n.a.	S 26
M27	0 9 32	0♎33'23	8♊21	24°29	23° 9	4°25	11°54	19°15	9°39	13°23	9°20	15°47	14°18	5°47	n.a.	M27
T 28	0 13 28	1°33'25	22°37	25°28	24°22	5° 9	12° 3	19°11	9°39	13°24	9°19	15°45	14°15	5°53	n.a.	T 28
W29	0 17 25	2°33'30	6♋42	26°23	25°34	5°54	12°11	19° 6	9°38	13°25	9°18	15°D44	14°12	6° 0	n.a.	W29
T 30	0 21 21	3♎33'37	20♋32	27♎15	26♌46	6♏38	12♐20	19♈ 2	9♊38	13♐26	9♓17	15♒45	14♒ 8	6♐ 7	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	9n53	27n44	4n 5	4n 6	0s 2	21n14	0s34	6s27	0s13	22s 6	0s 2	5n42	2s44	22n11	0n 3	21s34	1n 5	23s50	17s16	16s 1	16s19	25s47		n.a.
T 2	9 31	26 30	3 9	3 23	0 9	21 7	0 30	6 45	0 13	22 7	0 3	5 41	2 44	22 11	0 3	21 34	1 5	23 51	17 16	16 1	16 20	25 49		n.a.
F 3	9 9	23 36	2 3	2 39	0 17	20 58	0 26	7 2	0 14	22 8	0 3	5 40	2 44	22 11	0 3	21 34	1 5	23 51	17 16	16 0	16 21	25 50		n.a.
S 4	8 47	19 23	0 50	1 56	0 24	20 50	0 22	7 19	0 15	22 9	0 3	5 38	2 44	22 11	0 3	21 34	1 5	23 52	17 16	16 0	16 22	25 51		n.a.
S 5	8 24	14 11	0s25	1 13	0 31	20 40	0 18	7 36	0 16	22 10	0 3	5 37	2 45	22 11	0 3	21 34	1 5	23 52	17 16	16 0	16 23	25 52		n.a.
M 6	8 2	8 24	1 37	0 31	0 38	20 30	0 14	7 53	0 16	22 11	0 3	5 36	2 45	22 12	0 3	21 34	1 5	23 53	17 16	16 0	16 24	25 53		n.a.
T 7	7 39	2 22	2 43	0s12	0 45	20 20	0 10	8 10	0 17	22 12	0 3	5 34	2 45	22 12	0 3	21 34	1 5	23 53	17 16	16 1	16 25	25 54		n.a.
W 8	7 16	3s39	3 38	0 54	0 53	20 9	0 6	8 27	0 18	22 12	0 3	5 33	2 45	22 12	0 3	21 35	1 5	23 54	17 16	16 2	16 26	25 55		n.a.
T 9	6 53	9 23	4 22	1 35	1 0	19 57	0 2	8 43	0 18	22 13	0 3	5 32	2 45	22 12	0 3	21 35	1 5	23 54	17 16	16 3	16 27	25 56		n.a.
F 10	6 30	14 38	4 53	2 16	1 7	19 45	0n 2	9 0	0 19	22 14	0 3	5 30	2 46	22 12	0 3	21 35	1 4	23 55	17 16	16 5	16 28	25 57		n.a.
S 11	6 7	19 12	5 9	2 57	1 14	19 32	0 6	9 17	0 20	22 15	0 4	5 29	2 46	22 12	0 3	21 35	1 4	23 55	17 16	16 6	16 29	25 58		n.a.
S 12	5 44	22 57	5 12	3 37	1 21	19 19	0 10	9 34	0 21	22 17	0 4	5 27	2 46	22 12	0 3	21 35	1 4	23 55	17 16	16 7	16 30	25 59		n.a.
M13	5 21	25 42	5 1	4 17	1 28	19 5	0 14	9 50	0 21	22 18	0 4	5 26	2 46	22 12	0 3	21 35	1 4	23 56	17 16	16 8	16 31	26 0		n.a.
T 14	4 57	27 19	4 37	4 56	1 35	18 50	0 17	10 7	0 22	22 19	0 4	5 24	2 46	22 12	0 3	21 35	1 4	23 56	17 16	16 8	16 32	26 1		n.a.
W15	4 34	27 40	4 2	5 35	1 42	18 35	0 21	10 24	0 23	22 20	0 4	5 23	2 46	22 12	0 3	21 35	1 4	23 57	17 16	16 8	16 33	26 2		n.a.
T 16	4 10	26 44	3 15	6 13	1 49	18 19	0 24	10 40	0 23	22 21	0 4	5 21	2 47	22 12	0 3	21 35	1 4	23 57	17 16	16 8	16 33	26 3		n.a.
F 17	3 46	24 30	2 19	6 50	1 55	18 3	0 28	10 57	0 24	22 22	0 4	5 19	2 47	22 12	0 3	21 35	1 4	23 57	17 16	16 7	16 34	26 4		n.a.
S 18	3 23	21 3	1 15	7 27	2 1	17 46	0 31	11 13	0 25	22 23	0 4	5 18	2 47	22 12	0 3	21 36	1 4	23 58	17 16	16 7	16 35	26 5		n.a.
S 19	2 59	16 32	0 6	8 3	2 8	17 29	0 35	11 29	0 25	22 24	0 4	5 16	2 47	22 12	0 3	21 36	1 4	23 58	17 16	16 7	16 36	26 6		n.a.
M20	2 35	11 6	1n 6	8 38	2 14	17 11	0 38	11 46	0 26	22 25	0 5	5 14	2 47	22 12	0 3	21 36	1 4	23 59	17 16	16 7	16 37	26 7		n.a.
T 21	2 11	5 1	2 15	9 12	2 19	16 53	0 41	12 2	0 27	22 27	0 5	5 13	2 47	22 12	0 3	21 36	1 4	23 59	17 15	16 8	16 38	26 8		n.a.
W22	1 47	1n27	3 18	9 45	2 25	16 34	0 44	12 18	0 27	22 28	0 5	5 11	2 47	22 12	0 3	21 36	1 4	23 59	17 15	16 9	16 39	26 9		n.a.
T 23	1 23	7 58	4 11	10 16	2 30	16 15	0 47	12 34	0 28	22 29	0 5	5 9	2 47	22 12	0 3	21 36	1 4	24 0	17 15	16 11	16 40	26 10		n.a.
F 24	0 59	14 9	4 48	10 47	2 35	15 55	0 50	12 50	0 29	22 30	0 5	5 8	2 48	22 12	0 3	21 36	1 4	24 0	17 15	16 13	16 41	26 11		n.a.
S 25	0 35	19 36	5 7	11 17	2 40	15 35	0 53	13 6	0 29	22 31	0 5	5 6	2 48	22 12	0 3	21 37	1 4	24 0	17 15	16 15	16 42	26 12		n.a.
S 26	0 11	23 53	5 6	11 45	2 44	15 14	0 56	13 22	0 30	22 33	0 5	5 4	2 48	22 12	0 3	21 37	1 4	24 1	17 15	16 16	16 43	26 13		n.a.
M27	0s13	26 38	4 45	12 11	2 47	14 53	0 59	13 37	0 31	22 34	0 5	5 2	2 48	22 12	0 3	21 37	1 4	24 1	17 15	16 17	16 44	26 14		n.a.
T 28	0 38	27 37	4 7	12 36	2 51	14 31	1 2	13 53	0 31	22 35	0 5	5 0	2 48	22 12	0 3	21 37	1 4	24 1	17 15	16 18	16 45	26 15		n.a.
W29	1 2	26 47	3 15	12 59	2 53	14 9	1 4	14 8	0 32	22 36	0 6	4 59	2 48	22 12	0 3	21 37	1 4	24 2	17 15	16 18	16 46	26 16		n.a.
T 30	1s26	24n18	2n12	13s20	2s56	13n47	1n 7	14s24	0s32	22s38	0s 6	4n57	2s48	22n12	0n 3	21s37	1n 4	24s 2	17s14	16s18	16s47	26s16		n.a.

Julian Day Number = 1666148.5, Delta T = 03h23m04s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°09'23, Lahiri = - 6°02'23 Julian Calendar 1 Sept. 152 BCE == Greg. Calendar 29 Aug. 152 BCE

The year -151 astronomical counting style corresponds to year 152 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 152 BCE
geocentric

OCTOBER 152 BCE (-151) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 25 18	4♎33'46	4♌ 9	28♎ 3	27♌59	7♏22	12♐29	18°R57	9°R37	13♐27	9°R16	15♒46	14♒ 5	6♐13	n.a.	F 1
S 2	0 29 14	5°33'57	17°34	28°47	29°11	8° 6	12°38	18♈52	9♊36	13°28	9♓15	15°R47	14° 2	6°20	n.a.	S 2
S 3	0 33 11	6°34'10	0♍47	29°25	0♍24	8°51	12°47	18°48	9°35	13°30	9°14	15°46	13°59	6°27	n.a.	S 3
M 4	0 37 7	7°34'26	13°48	29°59	1°37	9°35	12°57	18°43	9°35	13°31	9°13	15°42	13°56	6°33	n.a.	M 4
T 5	0 41 4	8°34'43	26°38	0♏26	2°49	10°20	13° 6	18°38	9°34	13°32	9°12	15°36	13°53	6°40	n.a.	T 5
W 6	0 45 1	9°35'02	9♎17	0°47	4° 2	11° 4	13°16	18°33	9°33	13°33	9°11	15°28	13°49	6°47	n.a.	W 6
T 7	0 48 57	10°35'23	21°45	1° 0	5°15	11°49	13°25	18°28	9°32	13°34	9°10	15°18	13°46	6°54	n.a.	T 7
F 8	0 52 54	11°35'46	4♏ 1	1°R 6	6°28	12°34	13°35	18°23	9°31	13°36	9° 9	15° 6	13°43	7° 0	n.a.	F 8
S 9	0 56 50	12°36'11	16° 8	1° 3	7°41	13°18	13°45	18°19	9°30	13°37	9° 8	14°55	13°40	7° 7	n.a.	S 9
S 10	1 0 47	13°36'37	28° 6	0°51	8°55	14° 3	13°55	18°14	9°29	13°38	9° 7	14°45	13°37	7°14	n.a.	S 10
M11	1 4 43	14°37'05	9♐58	0°29	10° 8	14°48	14° 5	18° 9	9°28	13°40	9° 6	14°38	13°33	7°20	n.a.	M11
T 12	1 8 40	15°37'35	21°48	29♎57	11°21	15°33	14°15	18° 4	9°27	13°41	9° 5	14°32	13°30	7°27	n.a.	T 12
W13	1 12 36	16°38'06	3♑39	29°15	12°35	16°18	14°26	17°59	9°25	13°42	9° 4	14°29	13°27	7°34	n.a.	W13
T 14	1 16 33	17°38'38	15°37	28°23	13°48	17° 3	14°36	17°54	9°24	13°44	9° 3	14°D28	13°24	7°41	n.a.	T 14
F 15	1 20 30	18°39'12	27°46	27°22	15° 2	17°48	14°47	17°49	9°23	13°45	9° 2	14°28	13°21	7°47	n.a.	F 15
S 16	1 24 26	19°39'47	10♒13	26°13	16°15	18°33	14°57	17°44	9°21	13°47	9° 1	14°R29	13°18	7°54	n.a.	S 16
S 17	1 28 23	20°40'24	23° 2	24°58	17°29	19°19	15° 8	17°39	9°20	13°48	9° 1	14°28	13°14	8° 1	n.a.	S 17
M18	1 32 19	21°41'02	6♓16	23°39	18°43	20° 4	15°19	17°34	9°18	13°50	9° 0	14°26	13°11	8° 7	n.a.	M18
T 19	1 36 16	22°41'41	19°59	22°18	19°57	20°49	15°30	17°29	9°17	13°51	8°59	14°22	13° 8	8°14	n.a.	T 19
W20	1 40 12	23°42'21	4♈10	20°57	21°10	21°35	15°41	17°24	9°15	13°53	8°58	14°15	13° 5	8°21	n.a.	W20
T 21	1 44 9	24°43'03	18°45	19°41	22°24	22°20	15°52	17°20	9°14	13°55	8°57	14° 5	13° 2	8°28	n.a.	T 21
F 22	1 48 5	25°43'46	3♉37	18°30	23°38	23° 5	16° 4	17°15	9°12	13°56	8°57	13°54	12°59	8°34	n.a.	F 22
S 23	1 52 2	26°44'31	18°39	17°28	24°52	23°51	16°15	17°10	9°11	13°58	8°56	13°43	12°55	8°41	n.a.	S 23
S 24	1 55 58	27°45'17	3♊39	16°35	26° 6	24°37	16°26	17° 5	9° 9	14° 0	8°55	13°33	12°52	8°48	n.a.	S 24
M25	1 59 55	28°46'06	18°29	15°54	27°21	25°22	16°38	17° 0	9° 7	14° 1	8°54	13°26	12°49	8°54	n.a.	M25
T 26	2 3 52	29°46'55	3♋ 2	15°24	28°35	26° 8	16°49	16°56	9° 5	14° 3	8°54	13°21	12°46	9° 1	n.a.	T 26
W27	2 7 48	0♏47'47	17°14	15° 6	29°49	26°54	17° 1	16°51	9° 3	14° 5	8°53	13°18	12°43	9° 8	n.a.	W27
T 28	2 11 45	1°48'40	1♌ 5	14°D59	1♎ 3	27°40	17°13	16°46	9° 2	14° 7	8°52	13°D18	12°39	9°15	n.a.	T 28
F 29	2 15 41	2°49'34	14°35	15° 3	2°18	28°25	17°25	16°42	9° 0	14° 8	8°52	13°R18	12°36	9°21	n.a.	F 29
S 30	2 19 38	3°50'30	27°46	15°17	3°32	29°11	17°37	16°37	8°58	14°10	8°51	13°17	12°33	9°28	n.a.	S 30
S 31	2 23 34	4♏51'27	10♍42	15♎40	4♎47	29♏57	17♐49	16♈32	8♊56	14♐12	8♓51	13♒15	12♒30	9♐35	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	1s50	20n27	1n 2	13s39	2s57	13n24	1n 9	14s39	0s33	22s39	0s 6	4n55	2s48	22n12	0n 3	21s38	1n 4	24s 2	17s14	16s18	16s47	26s17		n.a.
S 2	2 14	15 36	0s10	13 56	2 58	13 0	1 12	14 54	0 34	22 40	0 6	4 53	2 48	22 12	0 3	21 38	1 3	24 2	17 14	16 17	16 48	26 18		n.a.
S 3	2 38	10 5	1 20	14 10	2 58	12 37	1 14	15 9	0 34	22 42	0 6	4 51	2 48	22 12	0 3	21 38	1 3	24 3	17 14	16 18	16 49	26 19		n.a.
M 4	3 2	4 13	2 25	14 21	2 57	12 13	1 16	15 24	0 35	22 43	0 6	4 49	2 48	22 12	0 3	21 38	1 3	24 3	17 14	16 19	16 50	26 20		n.a.
T 5	3 26	1s43	3 21	14 29	2 55	11 48	1 18	15 39	0 35	22 44	0 6	4 48	2 48	22 11	0 3	21 38	1 3	24 3	17 14	16 21	16 51	26 21		n.a.
W 6	3 50	7 29	4 6	14 33	2 52	11 23	1 21	15 53	0 36	22 45	0 6	4 46	2 48	22 11	0 3	21 39	1 3	24 3	17 13	16 23	16 52	26 22		n.a.
T 7	4 14	12 52	4 39	14 34	2 47	10 58	1 23	16 8	0 37	22 47	0 6	4 44	2 48	22 11	0 3	21 39	1 3	24 4	17 13	16 26	16 53	26 22		n.a.
F 8	4 38	17 40	4 58	14 31	2 42	10 33	1 24	16 22	0 37	22 48	0 6	4 42	2 48	22 11	0 3	21 39	1 3	24 4	17 13	16 29	16 54	26 23		n.a.
S 9	5 2	21 42	5 4	14 23	2 35	10 7	1 26	16 37	0 38	22 49	0 7	4 40	2 48	22 11	0 3	21 39	1 3	24 4	17 13	16 33	16 55	26 24		n.a.
S 10	5 26	24 46	4 56	14 11	2 26	9 41	1 28	16 51	0 38	22 51	0 7	4 38	2 48	22 11	0 3	21 39	1 3	24 4	17 13	16 36	16 56	26 25		n.a.
M11	5 50	26 44	4 35	13 53	2 16	9 14	1 30	17 5	0 39	22 52	0 7	4 36	2 48	22 11	0 3	21 40	1 3	24 4	17 12	16 38	16 57	26 26		n.a.
T 12	6 13	27 30	4 3	13 31	2 4	8 48	1 31	17 19	0 40	22 53	0 7	4 34	2 48	22 10	0 3	21 40	1 3	24 4	17 12	16 40	16 58	26 27		n.a.
W13	6 37	26 59	3 20	13 3	1 50	8 21	1 33	17 33	0 40	22 55	0 7	4 33	2 48	22 10	0 3	21 40	1 3	24 5	17 12	16 41	16 59	26 27		n.a.
T 14	7 0	25 14	2 27	12 29	1 34	7 53	1 34	17 46	0 41	22 56	0 7	4 31	2 48	22 10	0 3	21 40	1 3	24 5	17 12	16 41	16 59	26 28		n.a.
F 15	7 23	22 17	1 28	11 51	1 17	7 26	1 36	18 0	0 41	22 57	0 7	4 29	2 48	22 10	0 3	21 40	1 3	24 5	17 11	16 41	17 0	26 29		n.a.
S 16	7 47	18 15	0 23	11 9	0 59	6 58	1 37	18 13	0 42	22 59	0 7	4 27	2 48	22 10	0 3	21 41	1 3	24 5	17 11	16 41	17 1	26 30		n.a.
S 17	8 10	13 17	0n45	10 23	0 39	6 30	1 38	18 26	0 42	23 0	0 7	4 25	2 48	22 9	0 3	21 41	1 3	24 5	17 11	16 41	17 2	26 30		n.a.
M18	8 33	7 34	1 53	9 34	0 18	6 2	1 39	18 39	0 43	23 1	0 7	4 23	2 48	22 9	0 3	21 41	1 3	24 5	17 11	16 41	17 3	26 31		n.a.
T 19	8 56	1 18	2 57	8 45	0n 2	5 33	1 40	18 52	0 43	23 3	0 8	4 21	2 48	22 9	0 3	21 41	1 3	24 5	17 10	16 43	17 4	26 32		n.a.
W20	9 18	5n12	3 51	7 55	0 23	5 5	1 41	19 4	0 44	23 4	0 8	4 20	2 48	22 9	0 3	21 41	1 3	24 5	17 10	16 45	17 5	26 33		n.a.
T 21	9 41	11 37	4 33	7 8	0 43	4 36	1 42	19 17	0 44	23 5	0 8	4 18	2 48	22 9	0 3	21 42	1 3	24 5	17 10	16 48	17 6	26 33		n.a.
F 22	10 3	17 30	4 56	6 23	1 1	4 7	1 42	19 29	0 45	23 6	0 8	4 16	2 48	22 8	0 3	21 42	1 3	24 5	17 10	16 51	17 7	26 34		n.a.
S 23	10 26	22 22	5 0	5 43	1 19	3 38	1 43	19 41	0 45	23 8	0 8	4 14	2 48	22 8	0 3	21 42	1 3	24 6	17 9	16 54	17 8	26 35		n.a.
S 24	10 48	25 45	4 43	5 9	1 34	3 9	1 44	19 53	0 46	23 9	0 8	4 12	2 48	22 8	0 3	21 42	1 3	24 6	17 9	16 57	17 9	26 36		n.a.
M25	11 10	27 19	4 7	4 40	1 48	2 39	1 44	20 5	0 46	23 10	0 8	4 11	2 48	22 8	0 3	21 43	1 3	24 6	17 9	16 59	17 10	26 36		n.a.
T 26	11 31	26 57	3 16	4 18	2 0	2 10	1 45	20 16	0 47	23 11	0 8	4 9	2 47	22 7	0 3	21 43	1 3	24 6	17 8	17 0	17 10	26 37		n.a.
W27	11 53	24 47	2 13	4 2	2 9	1 40	1 45	20 27	0 47	23 13	0 8	4 7	2 47	22 7	0 3	21 43	1 3	24 6	17 8	17 1	17 11	26 38		n.a.
T 28	12 14	21 12	1 4	3 52	2 17	1 11	1 45	20 38	0 48	23 14	0 8	4 6	2 47	22 7	0 3	21 43	1 2	24 6	17 8	17 1	17 12	26 38		n.a.
F 29	12 36	16 32	0s 7	3 48	2 23	0 41	1 45	20 49	0 48	23 15	0 9	4 4	2 47	22 6	0 3	21 44	1 2	24 6	17 8	17 1	17 13	26 39		n.a.
S 30	12 57	11 12	1 16	3 49	2 27	0 11	1 45	21 0	0 49	23 16	0 9	4 2	2 47	22 6	0 3	21 44	1 2	24 6	17 7	17 1	17 14	26 40		n.a.
S 31	13s17	5n30	2s19	3s56	2n30	0s19	1n45	21s11	0s49	23s18	0s 9	4n 1	2s47	22n 6	0n 3	21s44	1n 2	24s 5	17s 7	17s 2	17s15	26s40		n.a.

Julian Day Number = 1666178.5, Delta T = 03h23m03s
Ecliptic obliquity = 23°42'56, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°09'19, Lahiri = - 6°02'18 Julian Calendar 1 Oct. 152 BCE == Greg. Calendar 28 Sept. 152 BCE

The year -151 astronomical counting style corresponds to year 152 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 152 BCE
geocentric

NOVEMBER 152 BCE (-151) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 27 31	5♏52'26	23♍24	16♎12	6♎ 1	0♐43	18♐ 1	16°R28	8°R54	14♐14	8°R50	13°R 9	12♒27	9♐41	n.a.	M 1
T 2	2 31 28	6°53'26	5♎56	16°52	7°16	1°29	18°13	16♈23	8♊52	14°16	8♓50	13♒ 1	12°24	9°48	n.a.	T 2
W 3	2 35 24	7°54'27	18°18	17°38	8°30	2°15	18°25	16°19	8°50	14°18	8°49	12°49	12°20	9°55	n.a.	W 3
T 4	2 39 21	8°55'30	0♏32	18°30	9°45	3° 2	18°38	16°15	8°47	14°20	8°48	12°35	12°17	10° 2	n.a.	T 4
F 5	2 43 17	9°56'33	12°39	19°28	10°59	3°48	18°50	16°10	8°45	14°22	8°48	12°20	12°14	10° 8	n.a.	F 5
S 6	2 47 14	10°57'38	24°39	20°30	12°14	4°34	19° 3	16° 6	8°43	14°24	8°48	12° 5	12°11	10°15	n.a.	S 6
S 7	2 51 10	11°58'43	6♐33	21°36	13°29	5°20	19°15	16° 2	8°41	14°26	8°47	11°52	12° 8	10°22	n.a.	S 7
M 8	2 55 7	12°59'50	18°23	22°45	14°43	6° 7	19°28	15°58	8°39	14°28	8°47	11°40	12° 5	10°28	n.a.	M 8
T 9	2 59 3	14° 0'57	0♑12	23°58	15°58	6°53	19°41	15°54	8°36	14°30	8°46	11°31	12° 1	10°35	n.a.	T 9
W10	3 3 0	15° 2'05	12° 2	25°13	17°13	7°39	19°53	15°50	8°34	14°32	8°46	11°26	11°58	10°42	n.a.	W10
T 11	3 6 57	16° 3'13	23°57	26°30	18°28	8°26	20° 6	15°46	8°32	14°34	8°46	11°23	11°55	10°48	n.a.	T 11
F 12	3 10 53	17° 4'22	6♒ 3	27°49	19°43	9°12	20°19	15°42	8°29	14°36	8°45	11°22	11°52	10°55	n.a.	F 12
S 13	3 14 50	18° 5'31	18°25	29°10	20°57	9°59	20°32	15°38	8°27	14°38	8°45	11°22	11°49	11° 2	n.a.	S 13
S 14	3 18 46	19° 6'41	1♓ 7	0♏32	22°12	10°45	20°45	15°35	8°25	14°40	8°45	11°21	11°45	11° 9	n.a.	S 14
M15	3 22 43	20° 7'51	14°15	1°55	23°27	11°32	20°58	15°31	8°22	14°42	8°44	11°20	11°42	11°15	n.a.	M15
T 16	3 26 39	21° 9'01	27°53	3°20	24°42	12°18	21°11	15°27	8°20	14°44	8°44	11°15	11°39	11°22	n.a.	T 16
W17	3 30 36	22°10'12	12♈ 1	4°45	25°57	13° 5	21°24	15°24	8°17	14°46	8°44	11° 8	11°36	11°29	n.a.	W17
T 18	3 34 32	23°11'23	26°38	6°11	27°12	13°52	21°38	15°21	8°15	14°48	8°44	10°59	11°33	11°35	n.a.	T 18
F 19	3 38 29	24°12'35	11♉39	7°38	28°27	14°38	21°51	15°17	8°12	14°51	8°43	10°48	11°30	11°42	n.a.	F 19
S 20	3 42 26	25°13'46	26°55	9° 6	29°42	15°25	22° 4	15°14	8°10	14°53	8°43	10°36	11°26	11°49	n.a.	S 20
S 21	3 46 22	26°14'59	12♊14	10°34	0♏57	16°12	22°18	15°11	8° 7	14°55	8°43	10°26	11°23	11°56	n.a.	S 21
M22	3 50 19	27°16'12	27°25	12° 3	2°12	16°59	22°31	15° 8	8° 5	14°57	8°43	10°18	11°20	12° 2	n.a.	M22
T 23	3 54 15	28°17'25	12♋18	13°32	3°27	17°46	22°45	15° 5	8° 2	14°59	8°43	10°12	11°17	12° 9	n.a.	T 23
W24	3 58 12	29°18'39	26°47	15° 2	4°42	18°33	22°58	15° 2	8° 0	15° 1	8°43	10°10	11°14	12°16	n.a.	W24
T 25	4 2 8	0♐19'54	10♌50	16°32	5°57	19°19	23°12	15° 0	7°57	15° 4	8°43	10°D 9	11°11	12°22	n.a.	T 25
F 26	4 6 5	1°21'09	24°26	18° 2	7°12	20° 6	23°25	14°57	7°55	15° 6	8°D43	10° 9	11° 7	12°29	n.a.	F 26
S 27	4 10 1	2°22'24	7♍38	19°33	8°27	20°53	23°39	14°54	7°52	15° 8	8°43	10°R 9	11° 4	12°36	n.a.	S 27
S 28	4 13 58	3°23'40	20°28	21° 4	9°42	21°40	23°52	14°52	7°50	15°10	8°43	10° 8	11° 1	12°42	n.a.	S 28
M29	4 17 55	4°24'56	3♎ 2	22°36	10°57	22°27	24° 6	14°50	7°47	15°13	8°43	10° 4	10°58	12°49	n.a.	M29
T 30	4 21 51	5♐26'12	15♎23	24♏ 7	12♏12	23♐14	24♐20	14♈48	7♊44	15♐15	8♓43	9♒57	10♒55	12♐56	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13s38	0s20	3s15	4s 7	2n31	0s49	1n45	21s21	0s50	23s19	0s 9	3n59	2s47	22n 6	0n 3	21s44	1n 2	24s 5	17s 7	17s 4	17s16	26s41		n.a.
T 2	13 58	6 2	4 0	4 22	2 31	1 19	1 45	21 31	0 50	23 20	0 9	3 57	2 47	22 5	0 3	21 45	1 2	24 5	17 6	17 6	17 17	26 42		n.a.
W 3	14 18	11 27	4 33	4 41	2 30	1 48	1 45	21 41	0 51	23 21	0 9	3 56	2 46	22 5	0 3	21 45	1 2	24 5	17 6	17 9	17 18	26 42		n.a.
T 4	14 38	16 21	4 53	5 3	2 29	2 18	1 44	21 50	0 51	23 22	0 9	3 54	2 46	22 5	0 3	21 45	1 2	24 5	17 6	17 13	17 19	26 43		n.a.
F 5	14 58	20 33	4 59	5 27	2 26	2 48	1 44	22 0	0 52	23 24	0 9	3 53	2 46	22 4	0 3	21 45	1 2	24 5	17 5	17 18	17 19	26 43		n.a.
S 6	15 17	23 52	4 52	5 54	2 22	3 18	1 43	22 9	0 52	23 25	0 9	3 51	2 46	22 4	0 3	21 46	1 2	24 5	17 5	17 22	17 20	26 44		n.a.
S 7	15 36	26 7	4 32	6 23	2 18	3 48	1 43	22 18	0 52	23 26	0 9	3 50	2 46	22 4	0 3	21 46	1 2	24 5	17 5	17 26	17 21	26 45		n.a.
M 8	15 55	27 12	4 1	6 53	2 13	4 18	1 42	22 27	0 53	23 27	0 10	3 48	2 46	22 3	0 3	21 46	1 2	24 5	17 4	17 29	17 22	26 45		n.a.
T 9	16 14	27 2	3 19	7 25	2 8	4 48	1 42	22 35	0 53	23 28	0 10	3 47	2 45	22 3	0 3	21 46	1 2	24 5	17 4	17 32	17 23	26 46		n.a.
W10	16 32	25 38	2 28	7 58	2 3	5 17	1 41	22 43	0 54	23 29	0 10	3 46	2 45	22 3	0 3	21 47	1 2	24 4	17 4	17 33	17 24	26 46		n.a.
T 11	16 50	23 3	1 31	8 31	1 57	5 47	1 40	22 51	0 54	23 30	0 10	3 44	2 45	22 2	0 3	21 47	1 2	24 4	17 3	17 34	17 25	26 47		n.a.
F 12	17 8	19 26	0 28	9 6	1 51	6 16	1 39	22 59	0 54	23 31	0 10	3 43	2 45	22 2	0 4	21 47	1 2	24 4	17 3	17 34	17 26	26 48		n.a.
S 13	17 25	14 54	0n37	9 41	1 44	6 46	1 38	23 6	0 55	23 32	0 10	3 42	2 45	22 2	0 4	21 47	1 2	24 4	17 3	17 34	17 27	26 48		n.a.
S 14	17 42	9 36	1 43	10 16	1 37	7 15	1 37	23 14	0 55	23 33	0 10	3 41	2 44	22 1	0 4	21 48	1 2	24 4	17 2	17 34	17 28	26 49		n.a.
M15	17 59	3 44	2 45	10 52	1 31	7 44	1 36	23 21	0 56	23 34	0 10	3 39	2 44	22 1	0 4	21 48	1 2	24 3	17 2	17 35	17 28	26 49		n.a.
T 16	18 15	2n30	3 40	11 27	1 24	8 13	1 35	23 27	0 56	23 35	0 10	3 38	2 44	22 0	0 4	21 48	1 2	24 3	17 2	17 36	17 29	26 50		n.a.
W17	18 31	8 50	4 23	12 3	1 17	8 41	1 33	23 34	0 56	23 36	0 10	3 37	2 44	22 0	0 4	21 49	1 2	24 3	17 1	17 38	17 30	26 50		n.a.
T 18	18 47	14 54	4 52	12 39	1 9	9 10	1 32	23 40	0 57	23 37	0 10	3 36	2 43	22 0	0 4	21 49	1 2	24 3	17 1	17 41	17 31	26 51		n.a.
F 19	19 2	20 16	5 1	13 14	1 2	9 38	1 31	23 46	0 57	23 38	0 11	3 35	2 43	21 59	0 4	21 49	1 2	24 2	17 1	17 44	17 32	26 51		n.a.
S 20	19 17	24 22	4 49	13 50	0 55	10 6	1 29	23 51	0 57	23 39	0 11	3 34	2 43	21 59	0 4	21 49	1 2	24 2	17 0	17 47	17 33	26 52		n.a.
S 21	19 32	26 45	4 16	14 25	0 48	10 34	1 28	23 57	0 58	23 40	0 11	3 33	2 43	21 58	0 4	21 50	1 2	24 2	17 0	17 50	17 34	26 52		n.a.
M22	19 47	27 7	3 26	14 59	0 40	11 2	1 26	24 2	0 58	23 41	0 11	3 32	2 43	21 58	0 4	21 50	1 2	24 2	17 0	17 52	17 35	26 53		n.a.
T 23	20 0	25 30	2 22	15 33	0 33	11 29	1 24	24 7	0 58	23 42	0 11	3 31	2 42	21 58	0 4	21 50	1 2	24 1	16 59	17 53	17 36	26 53		n.a.
W24	20 14	22 11	1 10	16 7	0 26	11 56	1 23	24 11	0 59	23 43	0 11	3 30	2 42	21 57	0 4	21 50	1 2	24 1	16 59	17 54	17 36	26 54		n.a.
T 25	20 27	17 39	0s 4	16 40	0 19	12 23	1 21	24 16	0 59	23 43	0 11	3 29	2 42	21 57	0 4	21 51	1 2	24 1	16 58	17 54	17 37	26 54		n.a.
F 26	20 40	12 21	1 15	17 13	0 12	12 50	1 19	24 20	0 59	23 44	0 11	3 29	2 41	21 56	0 4	21 51	1 2	24 0	16 58	17 54	17 38	26 55		n.a.
S 27	20 53	6 38	2 21	17 45	0 5	13 16	1 17	24 23	1 0	23 45	0 11	3 28	2 41	21 56	0 4	21 51	1 2	24 0	16 58	17 54	17 39	26 55		n.a.
S 28	21 5	0 48	3 17	18 16	0s 2	13 42	1 15	24 27	1 0	23 46	0 11	3 27	2 41	21 56	0 4	21 51	1 2	24 0	16 57	17 55	17 40	26 56		n.a.
M29	21 16	4s55	4 3	18 47	0 9	14 7	1 14	24 30	1 0	23 46	0 11	3 27	2 41	21 55	0 4	21 52	1 2	23 59	16 57	17 56	17 41	26 56		n.a.
T 30	21s27	10s21	4s36	19s17	0s16	14s32	1n12	24s33	1s 0	23s47	0s12	3n26	2s40	21n55	0n 4	21s52	1n 2	23s59	16s57	17s57	17s42	26s56		n.a.

Julian Day Number = 1666209.5, Delta T = 03h23m02s
Ecliptic obliquity = 23°42'55, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°09'15, Lahiri = - 6°02'14 Julian Calendar 1 Nov. 152 BCE == Greg. Calendar 29 Oct. 152 BCE

The year -151 astronomical counting style corresponds to year 152 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 152 BCE
geocentric

DECEMBER 152 BCE (-151) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 25 48	6♐27'29	27♎33	25♏40	13♏27	24♐ 2	24♐34	14°R45	7°R42	15♐17	8♓43	9°R48	10♒51	13♐ 3	n.a.	W 1
T 2	4 29 44	7°28'46	9♏36	27°12	14°42	24°49	24°48	14♈43	7♊39	15°19	8°43	9♒37	10°48	13° 9	n.a.	T 2
F 3	4 33 41	8°30'03	21°34	28°45	15°58	25°36	25° 1	14°41	7°37	15°22	8°43	9°24	10°45	13°16	n.a.	F 3
S 4	4 37 37	9°31'20	3♐27	0♐18	17°13	26°23	25°15	14°40	7°34	15°24	8°44	9°12	10°42	13°23	n.a.	S 4
S 5	4 41 34	10°32'37	15°19	1°51	18°28	27°10	25°29	14°38	7°32	15°26	8°44	9° 0	10°39	13°29	n.a.	S 5
M 6	4 45 31	11°33'54	27° 9	3°25	19°43	27°57	25°43	14°36	7°29	15°28	8°44	8°51	10°36	13°36	n.a.	M 6
T 7	4 49 27	12°35'11	8♑59	4°59	20°58	28°44	25°57	14°35	7°26	15°31	8°44	8°44	10°32	13°43	n.a.	T 7
W 8	4 53 24	13°36'27	20°53	6°34	22°13	29°32	26°11	14°34	7°24	15°33	8°45	8°39	10°29	13°49	n.a.	W 8
T 9	4 57 20	14°37'42	2♒52	8° 9	23°29	0♑19	26°25	14°32	7°21	15°35	8°45	8°D37	10°26	13°56	n.a.	T 9
F 10	5 1 17	15°38'58	15° 0	9°44	24°44	1° 6	26°39	14°31	7°19	15°38	8°45	8°37	10°23	14° 3	n.a.	F 10
S 11	5 5 13	16°40'12	27°22	11°20	25°59	1°54	26°53	14°30	7°16	15°40	8°46	8°38	10°20	14°10	n.a.	S 11
S 12	5 9 10	17°41'26	10♓ 1	12°56	27°14	2°41	27° 7	14°29	7°14	15°42	8°46	8°39	10°17	14°16	n.a.	S 12
M13	5 13 6	18°42'39	23° 2	14°32	28°29	3°28	27°21	14°29	7°11	15°44	8°46	8°R40	10°13	14°23	n.a.	M13
T 14	5 17 3	19°43'51	6♈30	16° 9	29°44	4°15	27°35	14°28	7° 9	15°47	8°47	8°38	10°10	14°30	n.a.	T 14
W15	5 21 0	20°45'02	20°26	17°47	0♐59	5° 3	27°49	14°27	7° 6	15°49	8°47	8°35	10° 7	14°36	n.a.	W15
T 16	5 24 56	21°46'13	4♉51	19°25	2°14	5°50	28° 4	14°27	7° 4	15°51	8°48	8°29	10° 4	14°43	n.a.	T 16
F 17	5 28 53	22°47'23	19°41	21° 3	3°30	6°37	28°18	14°26	7° 1	15°53	8°48	8°22	10° 1	14°50	n.a.	F 17
S 18	5 32 49	23°48'32	4♊50	22°42	4°45	7°25	28°32	14°26	6°59	15°56	8°49	8°15	9°57	14°56	n.a.	S 18
S 19	5 36 46	24°49'40	20° 8	24°22	6° 0	8°12	28°46	14°D26	6°56	15°58	8°49	8° 8	9°54	15° 3	n.a.	S 19
M20	5 40 42	25°50'47	5♋25	26° 2	7°15	9° 0	29° 0	14°26	6°54	16° 0	8°50	8° 3	9°51	15°10	n.a.	M20
T 21	5 44 39	26°51'54	20°29	27°43	8°30	9°47	29°14	14°26	6°51	16° 2	8°50	8° 0	9°48	15°17	n.a.	T 21
W22	5 48 36	27°53'00	5♌12	29°24	9°45	10°34	29°29	14°27	6°49	16° 5	8°51	7°D59	9°45	15°23	n.a.	W22
T 23	5 52 32	28°54'06	19°30	1♑ 6	11° 0	11°22	29°43	14°27	6°47	16° 7	8°51	7°59	9°42	15°30	n.a.	T 23
F 24	5 56 29	29°55'10	3♍18	2°48	12°15	12° 9	29°57	14°27	6°44	16° 9	8°52	8° 1	9°38	15°37	n.a.	F 24
S 25	6 0 25	0♑56'14	16°40	4°31	13°31	12°57	0♑11	14°28	6°42	16°11	8°53	8° 2	9°35	15°43	n.a.	S 25
S 26	6 4 22	1°57'18	29°36	6°14	14°46	13°44	0°25	14°29	6°40	16°14	8°53	8°R 3	9°32	15°50	n.a.	S 26
M27	6 8 18	2°58'21	12♎11	7°58	16° 1	14°31	0°39	14°29	6°37	16°16	8°54	8° 2	9°29	15°57	n.a.	M27
T 28	6 12 15	3°59'22	24°30	9°43	17°16	15°19	0°54	14°30	6°35	16°18	8°55	8° 0	9°26	16° 3	n.a.	T 28
W29	6 16 11	5° 0'24	6♏36	11°27	18°31	16° 6	1° 8	14°31	6°33	16°20	8°56	7°57	9°23	16°10	n.a.	W29
T 30	6 20 8	6° 1'24	18°33	13°13	19°46	16°54	1°22	14°32	6°31	16°22	8°56	7°52	9°19	16°17	n.a.	T 30
F 31	6 24 5	7♑ 2'24	0♐26	14♑58	21♐ 1	17♑41	1♑36	14♈34	6♊29	16♐25	8♓57	7♒46	9♒16	16♐24	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	21s38	15s19	4s56	19s46	0s23	14s57	1n10	24s35	1s 1	23s48	0s12	3n25	2s40	21n54	0n 4	21s52	1n 2	23s59	16s56	18s 0	17s43	26s57			n.a.
T 2	21 49	19 38	5 3	20 14	0 29	15 22	1 8	24 38	1 1	23 48	0 12	3 25	2 40	21 54	0 4	21 53	1 2	23 58	16 56	18 3	17 43	26 57			n.a.
F 3	21 59	23 7	4 56	20 41	0 36	15 46	1 5	24 40	1 1	23 49	0 12	3 24	2 40	21 54	0 4	21 53	1 2	23 58	16 56	18 6	17 44	26 58			n.a.
S 4	22 8	25 36	4 37	21 8	0 42	16 9	1 3	24 41	1 2	23 50	0 12	3 24	2 39	21 53	0 4	21 53	1 2	23 57	16 55	18 10	17 45	26 58			n.a.
S 5	22 17	26 57	4 5	21 33	0 48	16 33	1 1	24 43	1 2	23 50	0 12	3 24	2 39	21 53	0 4	21 53	1 2	23 57	16 55	18 13	17 46	26 58			n.a.
M 6	22 26	27 4	3 23	21 58	0 54	16 55	0 59	24 44	1 2	23 51	0 12	3 23	2 39	21 52	0 4	21 54	1 2	23 57	16 54	18 15	17 47	26 59			n.a.
T 7	22 34	25 56	2 32	22 21	1 0	17 18	0 57	24 45	1 2	23 51	0 12	3 23	2 38	21 52	0 4	21 54	1 2	23 56	16 54	18 17	17 48	26 59			n.a.
W 8	22 42	23 37	1 34	22 44	1 6	17 40	0 54	24 45	1 2	23 52	0 12	3 23	2 38	21 51	0 4	21 54	1 2	23 56	16 54	18 18	17 49	26 59			n.a.
T 9	22 49	20 15	0 31	23 5	1 11	18 1	0 52	24 46	1 3	23 52	0 12	3 22	2 38	21 51	0 4	21 54	1 2	23 55	16 53	18 19	17 50	27 0			n.a.
F 10	22 56	15 59	0n34	23 25	1 16	18 22	0 50	24 46	1 3	23 53	0 13	3 22	2 37	21 51	0 4	21 55	1 2	23 55	16 53	18 19	17 50	27 0			n.a.
S 11	23 2	10 59	1 39	23 44	1 21	18 42	0 47	24 45	1 3	23 53	0 13	3 22	2 37	21 50	0 4	21 55	1 2	23 54	16 53	18 19	17 51	27 1			n.a.
S 12	23 8	5 25	2 41	24 2	1 26	19 2	0 45	24 45	1 3	23 54	0 13	3 22	2 37	21 50	0 4	21 55	1 2	23 54	16 52	18 18	17 52	27 1			n.a.
M13	23 14	0n30	3 36	24 18	1 31	19 22	0 43	24 44	1 3	23 54	0 13	3 22	2 37	21 49	0 4	21 55	1 1	23 53	16 52	18 18	17 53	27 1			n.a.
T 14	23 19	6 36	4 21	24 34	1 35	19 40	0 40	24 42	1 4	23 55	0 13	3 22	2 36	21 49	0 4	21 56	1 1	23 53	16 52	18 19	17 54	27 2			n.a.
W15	23 23	12 35	4 53	24 47	1 39	19 59	0 38	24 41	1 4	23 55	0 13	3 22	2 36	21 49	0 4	21 56	1 1	23 52	16 51	18 20	17 55	27 2			n.a.
T 16	23 27	18 6	5 8	25 0	1 43	20 16	0 35	24 39	1 4	23 55	0 13	3 22	2 36	21 48	0 4	21 56	1 1	23 52	16 51	18 21	17 56	27 2			n.a.
F 17	23 31	22 42	5 2	25 11	1 46	20 33	0 33	24 37	1 4	23 56	0 13	3 22	2 35	21 48	0 4	21 56	1 1	23 51	16 50	18 23	17 56	27 2			n.a.
S 18	23 34	25 52	4 36	25 20	1 50	20 50	0 30	24 35	1 4	23 56	0 13	3 23	2 35	21 47	0 4	21 57	1 1	23 51	16 50	18 25	17 57	27 3			n.a.
S 19	23 37	27 10	3 50	25 28	1 52	21 6	0 28	24 32	1 4	23 56	0 13	3 23	2 35	21 47	0 4	21 57	1 1	23 50	16 50	18 26	17 58	27 3			n.a.
M20	23 39	26 23	2 47	25 34	1 55	21 21	0 25	24 29	1 5	23 56	0 14	3 23	2 34	21 47	0 4	21 57	1 1	23 50	16 49	18 28	17 59	27 3			n.a.
T 21	23 41	23 40	1 34	25 39	1 57	21 36	0 23	24 26	1 5	23 56	0 14	3 23	2 34	21 46	0 4	21 57	1 1	23 49	16 49	18 29	18 0	27 3			n.a.
W22	23 42	19 26	0 15	25 42	1 59	21 50	0 20	24 22	1 5	23 57	0 14	3 24	2 34	21 46	0 4	21 58	1 1	23 49	16 49	18 29	18 1	27 4			n.a.
T 23	23 43	14 10	1s 2	25 43	2 1	22 4	0 18	24 18	1 5	23 57	0 14	3 24	2 33	21 45	0 4	21 58	1 1	23 48	16 48	18 29	18 2	27 4			n.a.
F 24	23 43	8 20	2 13	25 43	2 2	22 16	0 15	24 14	1 5	23 57	0 14	3 25	2 33	21 45	0 4	21 58	1 1	23 48	16 48	18 28	18 3	27 4			n.a.
S 25	23 43	2 20	3 15	25 41	2 2	22 28	0 13	24 10	1 5	23 57	0 14	3 25	2 33	21 45	0 4	21 58	1 1	23 47	16 48	18 28	18 3	27 4			n.a.
S 26	23 42	3s34	4 4	25 36	2 3	22 40	0 10	24 5	1 5	23 57	0 14	3 26	2 33	21 44	0 4	21 58	1 1	23 47	16 47	18 28	18 4	27 5			n.a.
M27	23 41	9 10	4 41	25 31	2 2	22 51	0 8	24 0	1 5	23 57	0 14	3 26	2 32	21 44	0 4	21 59	1 1	23 46	16 47	18 28	18 5	27 5			n.a.
T 28	23 39	14 17	5 3	25 23	2 2	23 1	0 5	23 55	1 6	23 57	0 14	3 27	2 32	21 43	0 4	21 59	1 1	23 45	16 47	18 29	18 6	27 5			n.a.
W29	23 37	18 46	5 12	25 13	2 1	23 10	0 3	23 49	1 6	23 57	0 15	3 28	2 32	21 43	0 4	21 59	1 1	23 45	16 46	18 29	18 7	27 5			n.a.
T 30	23 35	22 27	5 6	25 1	1 59	23 19	0s 0	23 43	1 6	23 57	0 15	3 28	2 31	21 43	0 4	21 59	1 1	23 44	16 46	18 31	18 8	27 5			n.a.
F 31	23s32	25s10	4s48	24s48	1s57	23s27	0s 3	23s37	1s 6	23s57	0s15	3n29	2s31	21n42	0n 4	22s 0	1n 1	23s44	16s46	18s32	18s 8	27s 6			n.a.

Julian Day Number = 1666239.5, Delta T = 03h23m01s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°09'11, Lahiri = - 6°02'10 Julian Calendar 1 Dec. 152 BCE == Greg. Calendar 28 Nov. 152 BCE

The year -151 astronomical counting style corresponds to year 152 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 151 BCE
geocentric

JANUARY 151 BCE (-150) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 28 1	8♑ 3'22	12♐16	16♑44	22♐16	18♑28	1♑50	14♈35	6°R27	16♐27	8♓58	7°R40	9♒13	16♐30	n.a.	S 1
S 2	6 31 58	9° 4'19	24° 6	18°30	23°31	19°16	2° 4	14°37	6♊25	16°29	8°59	7♒35	9°10	16°37	n.a.	S 2
M 3	6 35 54	10° 5'16	5♑58	20°16	24°46	20° 3	2°18	14°38	6°23	16°31	9° 0	7°31	9° 7	16°44	n.a.	M 3
T 4	6 39 51	11° 6'11	17°55	22° 1	26° 2	20°51	2°33	14°40	6°21	16°33	9° 0	7°28	9° 3	16°50	n.a.	T 4
W 5	6 43 47	12° 7'05	29°57	23°47	27°17	21°38	2°47	14°42	6°19	16°35	9° 1	7°26	9° 0	16°57	n.a.	W 5
T 6	6 47 44	13° 7'57	12♒ 6	25°32	28°32	22°26	3° 1	14°44	6°17	16°37	9° 2	7°D26	8°57	17° 4	n.a.	T 6
F 7	6 51 40	14° 8'48	24°25	27°15	29°47	23°13	3°15	14°46	6°15	16°39	9° 3	7°27	8°54	17°10	n.a.	F 7
S 8	6 55 37	15° 9'37	6♓56	28°58	1♑ 2	24° 0	3°29	14°48	6°13	16°41	9° 4	7°28	8°51	17°17	n.a.	S 8
S 9	6 59 34	16°10'24	19°42	0♒40	2°17	24°48	3°43	14°50	6°11	16°43	9° 5	7°30	8°48	17°24	n.a.	S 9
M10	7 3 30	17°11'10	2♈46	2°19	3°32	25°35	3°57	14°52	6° 9	16°45	9° 6	7°31	8°44	17°31	n.a.	M10
T 11	7 7 27	18°11'54	16°10	3°56	4°47	26°23	4°11	14°55	6° 8	16°48	9° 7	7°R32	8°41	17°37	n.a.	T 11
W12	7 11 23	19°12'36	29°56	5°31	6° 2	27°10	4°25	14°58	6° 6	16°50	9° 8	7°32	8°38	17°44	n.a.	W12
T 13	7 15 20	20°13'17	14♉ 5	7° 2	7°17	27°57	4°39	15° 0	6° 4	16°51	9° 9	7°31	8°35	17°51	n.a.	T 13
F 14	7 19 16	21°13'56	28°34	8°29	8°32	28°45	4°53	15° 3	6° 3	16°53	9°10	7°29	8°32	17°57	n.a.	F 14
S 15	7 23 13	22°14'33	13♊22	9°51	9°47	29°32	5° 7	15° 6	6° 1	16°55	9°11	7°27	8°29	18° 4	n.a.	S 15
S 16	7 27 9	23°15'08	28°21	11° 8	11° 1	0♒19	5°21	15° 9	5°59	16°57	9°12	7°25	8°25	18°11	n.a.	S 16
M17	7 31 6	24°15'41	13♋23	12°19	12°16	1° 6	5°34	15°12	5°58	16°59	9°13	7°23	8°22	18°17	n.a.	M17
T 18	7 35 3	25°16'13	28°19	13°24	13°31	1°54	5°48	15°15	5°57	17° 1	9°14	7°23	8°19	18°24	n.a.	T 18
W19	7 38 59	26°16'43	13♌ 1	14°20	14°46	2°41	6° 2	15°18	5°55	17° 3	9°15	7°D23	8°16	18°31	n.a.	W19
T 20	7 42 56	27°17'11	27°23	15° 9	16° 1	3°28	6°16	15°22	5°54	17° 5	9°17	7°23	8°13	18°37	n.a.	T 20
F 21	7 46 52	28°17'37	11♍20	15°50	17°16	4°15	6°29	15°25	5°52	17° 7	9°18	7°24	8° 9	18°44	n.a.	F 21
S 22	7 50 49	29°18'03	24°51	16°21	18°31	5° 3	6°43	15°29	5°51	17° 9	9°19	7°25	8° 6	18°51	n.a.	S 22
S 23	7 54 45	0♒18'26	7♎56	16°42	19°46	5°50	6°57	15°33	5°50	17°10	9°20	7°25	8° 3	18°58	n.a.	S 23
M24	7 58 42	1°18'48	20°38	16°54	21° 1	6°37	7°10	15°36	5°49	17°12	9°21	7°26	8° 0	19° 4	n.a.	M24
T 25	8 2 38	2°19'08	3♏ 0	16°R55	22°16	7°24	7°24	15°40	5°48	17°14	9°22	7°R26	7°57	19°11	n.a.	T 25
W26	8 6 35	3°19'27	15° 8	16°47	23°30	8°11	7°37	15°44	5°47	17°16	9°24	7°26	7°54	19°18	n.a.	W26
T 27	8 10 32	4°19'45	27° 5	16°29	24°45	8°58	7°51	15°48	5°46	17°17	9°25	7°26	7°50	19°24	n.a.	T 27
F 28	8 14 28	5°20'01	8♐56	16° 2	26° 0	9°45	8° 4	15°53	5°45	17°19	9°26	7°25	7°47	19°31	n.a.	F 28
S 29	8 18 25	6°20'15	20°45	15°26	27°15	10°32	8°18	15°57	5°44	17°21	9°27	7°25	7°44	19°38	n.a.	S 29
S 30	8 22 21	7°20'27	2♑37	14°43	28°30	11°19	8°31	16° 1	5°43	17°22	9°29	7°D25	7°41	19°44	n.a.	S 30
M31	8 26 18	8♒20'38	14♑33	13♒54	29♑44	12♒ 7	8♑44	16♈ 6	5♊42	17♐24	9♓30	7♒25	7♒38	19♐51	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	23s28	26s46	4s17	24s32	1s54	23s34	0s 5	23s31	1s 6	23s57	0s15	3n30	2s31	21n42	0n 4	22s 0	1n 1	23s43	16s45	18s34	18s 9	27s 6		n.a.	
S 2	23 24	27 10	3 35	24 14	1 50	23 41	0 8	23 24	1 6	23 57	0 15	3 31	2 30	21 42	0 4	22 0	1 1	23 42	16 45	18 35	18 10	27 6		n.a.	
M 3	23 20	26 19	2 44	23 55	1 46	23 47	0 10	23 17	1 6	23 57	0 15	3 32	2 30	21 41	0 4	22 0	1 1	23 42	16 45	18 36	18 11	27 6		n.a.	
T 4	23 15	24 14	1 45	23 33	1 41	23 52	0 12	23 10	1 6	23 57	0 15	3 33	2 30	21 41	0 4	22 0	1 1	23 41	16 45	18 37	18 12	27 6		n.a.	
W 5	23 9	21 4	0 41	23 10	1 36	23 56	0 15	23 2	1 6	23 56	0 15	3 34	2 29	21 41	0 4	22 1	1 1	23 41	16 44	18 37	18 13	27 6		n.a.	
T 6	23 3	16 57	0n26	22 45	1 30	24 0	0 17	22 55	1 6	23 56	0 15	3 35	2 29	21 40	0 4	22 1	1 1	23 40	16 44	18 37	18 14	27 7		n.a.	
F 7	22 57	12 5	1 32	22 18	1 23	24 3	0 20	22 47	1 6	23 56	0 16	3 36	2 29	21 40	0 4	22 1	1 1	23 39	16 44	18 37	18 14	27 7		n.a.	
S 8	22 51	6 40	2 36	21 49	1 15	24 5	0 22	22 38	1 6	23 56	0 16	3 37	2 28	21 40	0 4	22 1	1 1	23 39	16 43	18 37	18 15	27 7		n.a.	
S 9	22 43	0 52	3 32	21 19	1 6	24 6	0 24	22 30	1 6	23 55	0 16	3 38	2 28	21 39	0 4	22 1	1 1	23 38	16 43	18 36	18 16	27 7		n.a.	
M10	22 36	5n 5	4 20	20 48	0 57	24 7	0 27	22 21	1 6	23 55	0 16	3 39	2 28	21 39	0 4	22 2	1 1	23 37	16 43	18 36	18 17	27 7		n.a.	
T 11	22 28	10 57	4 54	20 15	0 47	24 7	0 29	22 12	1 6	23 55	0 16	3 41	2 28	21 39	0 4	22 2	1 1	23 37	16 42	18 36	18 18	27 7		n.a.	
W12	22 19	16 27	5 13	19 41	0 36	24 6	0 31	22 3	1 6	23 54	0 16	3 42	2 27	21 38	0 4	22 2	1 1	23 36	16 42	18 36	18 19	27 7		n.a.	
T 13	22 10	21 14	5 14	19 7	0 24	24 4	0 34	21 53	1 6	23 54	0 16	3 43	2 27	21 38	0 4	22 2	1 2	23 35	16 42	18 36	18 19	27 7		n.a.	
F 14	22 1	24 51	4 55	18 32	0 11	24 2	0 36	21 43	1 6	23 54	0 16	3 45	2 27	21 38	0 4	22 2	1 2	23 35	16 42	18 37	18 20	27 7		n.a.	
S 15	21 51	26 54	4 16	17 57	0n 2	23 59	0 38	21 33	1 6	23 53	0 16	3 46	2 26	21 38	0 4	22 3	1 2	23 34	16 41	18 37	18 21	27 7		n.a.	
S 16	21 41	27 2	3 20	17 23	0 16	23 55	0 40	21 23	1 6	23 53	0 17	3 47	2 26	21 37	0 4	22 3	1 2	23 33	16 41	18 38	18 22	27 8		n.a.	
M17	21 31	25 10	2 9	16 49	0 31	23 50	0 42	21 13	1 6	23 52	0 17	3 49	2 26	21 37	0 4	22 3	1 2	23 33	16 41	18 38	18 23	27 8		n.a.	
T 18	21 20	21 33	0 50	16 16	0 46	23 45	0 44	21 2	1 6	23 52	0 17	3 50	2 25	21 37	0 4	22 3	1 2	23 32	16 41	18 38	18 24	27 8		n.a.	
W19	21 8	16 36	0s31	15 44	1 1	23 39	0 46	20 51	1 6	23 51	0 17	3 52	2 25	21 37	0 4	22 3	1 2	23 31	16 40	18 38	18 24	27 8		n.a.	
T 20	20 57	10 49	1 49	15 15	1 18	23 32	0 48	20 40	1 5	23 51	0 17	3 54	2 25	21 36	0 4	22 3	1 2	23 31	16 40	18 38	18 25	27 8		n.a.	
F 21	20 44	4 40	2 57	14 47	1 34	23 25	0 50	20 28	1 5	23 50	0 17	3 55	2 25	21 36	0 4	22 4	1 2	23 30	16 40	18 38	18 26	27 8		n.a.	
S 22	20 32	1s30	3 54	14 22	1 50	23 17	0 52	20 17	1 5	23 50	0 17	3 57	2 24	21 36	0 4	22 4	1 2	23 30	16 40	18 38	18 27	27 8		n.a.	
S 23	20 19	7 24	4 36	14 1	2 6	23 8	0 54	20 5	1 5	23 49	0 17	3 59	2 24	21 36	0 4	22 4	1 2	23 29	16 39	18 38	18 28	27 8		n.a.	
M24	20 6	12 49	5 4	13 42	2 22	22 58	0 56	19 53	1 5	23 49	0 18	4 0	2 24	21 36	0 4	22 4	1 2	23 28	16 39	18 37	18 29	27 8		n.a.	
T 25	19 52	17 36	5 16	13 27	2 37	22 48	0 58	19 41	1 5	23 48	0 18	4 2	2 24	21 35	0 4	22 4	1 2	23 27	16 39	18 37	18 29	27 8		n.a.	
W26	19 38	21 34	5 14	13 16	2 51	22 37	0 59	19 28	1 5	23 47	0 18	4 4	2 23	21 35	0 4	22 4	1 2	23 27	16 39	18 37	18 30	27 8		n.a.	
T 27	19 24	24 34	4 59	13 9	3 5	22 25	1 1	19 16	1 5	23 47	0 18	4 6	2 23	21 35	0 4	22 5	1 2	23 26	16 39	18 38	18 31	27 8		n.a.	
F 28	19 9	26 30	4 31	13 5	3 17	22 13	1 3	19 3	1 5	23 46	0 18	4 8	2 23	21 35	0 4	22 5	1 2	23 25	16 38	18 38	18 32	27 8		n.a.	
S 29	18 54	27 14	3 51	13 6	3 27	22 0	1 4	18 50	1 4	23 45	0 18	4 9	2 22	21 35	0 4	22 5	1 2	23 25	16 38	18 38	18 33	27 8		n.a.	
S 30	18 39	26 43	3 2	13 10	3 36	21 46	1 6	18 37	1 4	23 45	0 18	4 11	2 22	21 34	0 4	22 5	1 2	23 24	16 38	18 38	18 34	27 8		n.a.	
M31	18s23	24s58	2s 4	13s18	3n43	21s32	1s 7	18s23	1s 4	23s44	0s18	4n13	2s22	21n34	0n 4	22s 5	1n 2	23s23	16s38	18s38	18s34	27s 7		n.a.	

Julian Day Number = 1666270.5, Delta T = 03h23m00s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°09'06, Lahiri = - 6°02'06 Julian Calendar 1 Jan. 151 BCE == Greg. Calendar 29 Dec. 152 BCE

The year -150 astronomical counting style corresponds to year 151 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 151 BCE
geocentric

FEBRUARY 151 BCE (-150) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 30 14	9♒20'46	26♉37	12°R59	0♒59	12♒54	8♉57	16♈10	5°R41	17♐25	9♓31	7♒25	7♒35	19♐58	n.a.	T 1
W 2	8 34 11	10°20'53	8♒50	12♒ 0	2°14	13°40	9°11	16°15	5♊41	17°27	9°32	7°R25	7°31	20° 4	n.a.	W 2
T 3	8 38 7	11°20'58	21°15	11° 0	3°29	14°27	9°24	16°19	5°40	17°29	9°34	7°25	7°28	20°11	n.a.	T 3
F 4	8 42 4	12°21'01	3♓52	9°58	4°44	15°14	9°37	16°24	5°39	17°30	9°35	7°25	7°25	20°18	n.a.	F 4
S 5	8 46 1	13°21'01	16°42	8°57	5°58	16° 1	9°50	16°29	5°39	17°32	9°36	7°24	7°22	20°24	n.a.	S 5
S 6	8 49 57	14°21'00	29°46	7°58	7°13	16°48	10° 3	16°34	5°38	17°33	9°38	7°23	7°19	20°31	n.a.	S 6
M 7	8 53 54	15°20'56	13♈ 4	7° 2	8°28	17°35	10°16	16°39	5°38	17°34	9°39	7°22	7°15	20°38	n.a.	M 7
T 8	8 57 50	16°20'50	26°37	6°10	9°42	18°22	10°28	16°44	5°37	17°36	9°40	7°22	7°12	20°45	n.a.	T 8
W 9	9 1 47	17°20'41	10♉23	5°22	10°57	19° 8	10°41	16°49	5°37	17°37	9°42	7°21	7° 9	20°51	n.a.	W 9
T 10	9 5 43	18°20'30	24°24	4°41	12°12	19°55	10°54	16°55	5°37	17°39	9°43	7°D21	7° 6	20°58	n.a.	T 10
F 11	9 9 40	19°20'17	8♊38	4° 5	13°26	20°42	11° 7	17° 0	5°36	17°40	9°45	7°22	7° 3	21° 5	n.a.	F 11
S 12	9 13 36	20°20'02	23° 2	3°36	14°41	21°29	11°19	17° 5	5°36	17°41	9°46	7°22	7° 0	21°11	n.a.	S 12
S 13	9 17 33	21°19'44	7♋34	3°13	15°56	22°15	11°32	17°11	5°36	17°42	9°47	7°24	6°56	21°18	n.a.	S 13
M14	9 21 30	22°19'24	22° 9	2°56	17°10	23° 2	11°44	17°16	5°36	17°44	9°49	7°24	6°53	21°25	n.a.	M14
T 15	9 25 26	23°19'01	6♌41	2°46	18°25	23°48	11°57	17°22	5°D36	17°45	9°50	7°R25	6°50	21°31	n.a.	T 15
W16	9 29 23	24°18'37	21° 6	2°D42	19°39	24°35	12° 9	17°28	5°36	17°46	9°52	7°24	6°47	21°38	n.a.	W16
T 17	9 33 19	25°18'10	5♍16	2°44	20°54	25°21	12°21	17°33	5°36	17°47	9°53	7°23	6°44	21°45	n.a.	T 17
F 18	9 37 16	26°17'40	19° 8	2°52	22° 9	26° 8	12°33	17°39	5°36	17°48	9°54	7°21	6°40	21°51	n.a.	F 18
S 19	9 41 12	27°17'09	2♎39	3° 6	23°23	26°54	12°45	17°45	5°36	17°49	9°56	7°18	6°37	21°58	n.a.	S 19
S 20	9 45 9	28°16'36	15°47	3°24	24°38	27°41	12°57	17°51	5°37	17°50	9°57	7°15	6°34	22° 5	n.a.	S 20
M21	9 49 5	29°16'01	28°33	3°48	25°52	28°27	13° 9	17°57	5°37	17°51	9°59	7°12	6°31	22°11	n.a.	M21
T 22	9 53 2	0♓15'24	11♏ 0	4°16	27° 7	29°13	13°21	18° 3	5°37	17°52	10° 0	7°10	6°28	22°18	n.a.	T 22
W23	9 56 59	1°14'46	23°11	4°49	28°21	29°59	13°33	18° 9	5°38	17°53	10° 2	7° 9	6°25	22°25	n.a.	W23
T 24	10 0 55	2°14'05	5♐ 9	5°26	29°36	0♓46	13°45	18°16	5°38	17°54	10° 3	7°D 8	6°21	22°32	n.a.	T 24
F 25	10 4 52	3°13'23	17° 1	6° 7	0♓50	1°32	13°56	18°22	5°39	17°55	10° 5	7° 9	6°18	22°38	n.a.	F 25
S 26	10 8 48	4°12'38	28°51	6°52	2° 4	2°18	14° 8	18°28	5°39	17°56	10° 6	7°11	6°15	22°45	n.a.	S 26
S 27	10 12 45	5°11'52	10♉44	7°40	3°19	3° 4	14°19	18°35	5°40	17°57	10° 8	7°12	6°12	22°52	n.a.	S 27
M28	10 16 41	6♓11'04	22♉44	8♒31	4♓33	3♓50	14♉30	18♈41	5♊40	17♐58	10♓ 9	7♒14	6♒ 9	22♐58	n.a.	M28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	18s 7	22s 3	1s 0	13s29	3n47	21s17	1s 9	18s10	1s 4	23s43	0s19	4n15	2s22	21n34	0n 4	22s 5	1n 2	23s23	16s38	18s38	18s35	27s 7		n.a.	T 1
W 2	17 51	18 8	0n 8	13 42	3 50	21 1	1 10	17 56	1 4	23 42	0 19	4 17	2 21	21 34	0 4	22 5	1 2	23 22	16 37	18 38	18 36	27 7		n.a.	W 2
T 3	17 34	13 23	1 16	13 58	3 51	20 45	1 11	17 42	1 4	23 41	0 19	4 19	2 21	21 34	0 4	22 6	1 2	23 21	16 37	18 38	18 37	27 7		n.a.	T 3
F 4	17 17	8 0	2 22	14 17	3 49	20 29	1 13	17 28	1 3	23 41	0 19	4 21	2 21	21 34	0 4	22 6	1 2	23 21	16 37	18 38	18 38	27 7		n.a.	F 4
S 5	17 0	2 13	3 21	14 36	3 45	20 11	1 14	17 13	1 3	23 40	0 19	4 24	2 21	21 34	0 4	22 6	1 2	23 20	16 37	18 38	18 39	27 7		n.a.	S 5
S 6	16 43	3n45	4 11	14 57	3 40	19 53	1 15	16 59	1 3	23 39	0 19	4 26	2 20	21 34	0 4	22 6	1 2	23 19	16 37	18 38	18 39	27 7		n.a.	S 6
M 7	16 25	9 39	4 49	15 18	3 32	19 35	1 16	16 44	1 3	23 38	0 19	4 28	2 20	21 34	0 4	22 6	1 2	23 19	16 37	18 38	18 40	27 7		n.a.	M 7
T 8	16 7	15 12	5 11	15 40	3 24	19 16	1 17	16 29	1 3	23 37	0 19	4 30	2 20	21 34	0 4	22 6	1 2	23 18	16 37	18 39	18 41	27 7		n.a.	T 8
W 9	15 49	20 6	5 16	16 1	3 13	18 56	1 18	16 15	1 2	23 36	0 20	4 32	2 20	21 34	0 4	22 6	1 2	23 17	16 36	18 39	18 42	27 7		n.a.	W 9
T 10	15 30	23 59	5 3	16 22	3 2	18 36	1 19	15 59	1 2	23 35	0 20	4 35	2 19	21 33	0 4	22 6	1 2	23 17	16 36	18 39	18 43	27 7		n.a.	T 10
F 11	15 12	26 27	4 31	16 43	2 50	18 15	1 20	15 44	1 2	23 34	0 20	4 37	2 19	21 33	0 4	22 6	1 2	23 16	16 36	18 39	18 43	27 6		n.a.	F 11
S 12	14 53	27 13	3 42	17 2	2 37	17 54	1 21	15 29	1 2	23 34	0 20	4 39	2 19	21 33	0 4	22 7	1 2	23 15	16 36	18 38	18 44	27 6		n.a.	S 12
S 13	14 33	26 7	2 38	17 20	2 23	17 32	1 21	15 13	1 2	23 33	0 20	4 41	2 19	21 33	0 4	22 7	1 2	23 15	16 36	18 38	18 45	27 6		n.a.	S 13
M14	14 14	23 15	1 23	17 38	2 9	17 10	1 22	14 58	1 1	23 32	0 20	4 44	2 18	21 33	0 4	22 7	1 2	23 14	16 36	18 38	18 46	27 6		n.a.	M14
T 15	13 54	18 53	0 4	17 54	1 55	16 47	1 23	14 42	1 1	23 31	0 20	4 46	2 18	21 33	0 4	22 7	1 2	23 14	16 36	18 38	18 47	27 6		n.a.	T 15
W16	13 34	13 27	1s15	18 8	1 41	16 24	1 23	14 26	1 1	23 30	0 21	4 49	2 18	21 33	0 4	22 7	1 2	23 13	16 36	18 38	18 47	27 6		n.a.	W16
T 17	13 14	7 24	2 28	18 22	1 27	16 1	1 24	14 10	1 1	23 29	0 21	4 51	2 18	21 33	0 4	22 7	1 2	23 12	16 36	18 38	18 48	27 5		n.a.	T 17
F 18	12 54	1 8	3 30	18 33	1 13	15 37	1 24	13 54	1 0	23 28	0 21	4 53	2 18	21 33	0 4	22 7	1 2	23 12	16 35	18 39	18 49	27 5		n.a.	F 18
S 19	12 33	5s 1	4 19	18 44	0 59	15 12	1 25	13 37	1 0	23 27	0 21	4 56	2 17	21 33	0 4	22 7	1 2	23 11	16 35	18 39	18 50	27 5		n.a.	S 19
S 20	12 13	10 47	4 53	18 52	0 46	14 48	1 25	13 21	1 0	23 26	0 21	4 58	2 17	21 34	0 4	22 7	1 2	23 10	16 35	18 40	18 51	27 5		n.a.	S 20
M21	11 52	15 55	5 11	19 0	0 33	14 22	1 25	13 5	0 59	23 25	0 21	5 1	2 17	21 34	0 4	22 7	1 2	23 10	16 35	18 41	18 52	27 5		n.a.	M21
T 22	11 31	20 16	5 14	19 5	0 20	13 57	1 25	12 48	0 59	23 24	0 22	5 3	2 17	21 34	0 4	22 7	1 2	23 9	16 35	18 42	18 52	27 4		n.a.	T 22
W23	11 9	23 39	5 3	19 10	0 7	13 31	1 25	12 31	0 59	23 23	0 22	5 6	2 16	21 34	0 4	22 7	1 2	23 8	16 35	18 42	18 53	27 4		n.a.	W23
T 24	10 48	25 58	4 38	19 12	0s 5	13 5	1 25	12 14	0 59	23 21	0 22	5 9	2 16	21 34	0 4	22 8	1 2	23 8	16 35	18 42	18 54	27 4		n.a.	T 24
F 25	10 26	27 5	4 2	19 13	0 16	12 38	1 25	11 57	0 58	23 20	0 22	5 11	2 16	21 34	0 4	22 8	1 2	23 7	16 35	18 42	18 55	27 4		n.a.	F 25
S 26	10 5	26 58	3 15	19 13	0 27	12 11	1 25	11 40	0 58	23 19	0 22	5 14	2 16	21 34	0 4	22 8	1 2	23 7	16 35	18 41	18 56	27 3		n.a.	S 26
S 27	9 43	25 37	2 20	19 11	0 38	11 44	1 25	11 23	0 58	23 18	0 22	5 16	2 16	21 34	0 4	22 8	1 2	23 6	16 35	18 41	18 56	27 3		n.a.	S 27
M28	9s21	23s 4	1s19	19s 7	0s48	11s16	1s25	11s 6	0s57	23s17	0s22	5n19	2s15	21n34	0n 4	22s 8	1n 2	23s 5	16s35	18s41	18s57	27s 3		n.a.	M28

Julian Day Number = 1666301.5, Delta T = 03h22m59s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°09'02, Lahiri = - 6°02'02 Julian Calendar 1 Feb. 151 BCE == Greg. Calendar 29 Jan. 151 BCE

The year -150 astronomical counting style corresponds to year 151 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 151 BCE
geocentric

MARCH 151 BCE (-150) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 20 38	7♓10'14	4♒54	9♒26	5♓48	4♓36	14♉42	18♈48	5♊41	17♐59	10♓10	7°R15	6♒ 6	23♐ 5	n.a.	T 1
W 2	10 24 34	8° 9'22	17°19	10°24	7° 2	5°22	14°53	18°54	5°42	17°59	10°12	7♒14	6° 2	23°12	n.a.	W 2
T 3	10 28 31	9° 8'27	29°59	11°24	8°17	6° 8	15° 4	19° 1	5°43	18° 0	10°13	7°12	5°59	23°18	n.a.	T 3
F 4	10 32 27	10° 7'31	12♓57	12°27	9°31	6°54	15°15	19° 8	5°44	18° 1	10°15	7° 9	5°56	23°25	n.a.	F 4
S 5	10 36 24	11° 6'32	26°11	13°32	10°45	7°40	15°26	19°14	5°45	18° 1	10°16	7° 4	5°53	23°32	n.a.	S 5
S 6	10 40 21	12° 5'31	9♈40	14°40	12° 0	8°26	15°37	19°21	5°46	18° 2	10°18	6°58	5°50	23°38	n.a.	S 6
M 7	10 44 17	13° 4'28	23°22	15°51	13°14	9°12	15°47	19°28	5°47	18° 3	10°19	6°53	5°46	23°45	n.a.	M 7
T 8	10 48 14	14° 3'23	7♉14	17° 3	14°28	9°57	15°58	19°35	5°48	18° 3	10°21	6°47	5°43	23°52	n.a.	T 8
W 9	10 52 10	15° 2'15	21°15	18°18	15°42	10°43	16° 8	19°42	5°49	18° 4	10°22	6°44	5°40	23°58	n.a.	W 9
T 10	10 56 7	16° 1'05	5♊20	19°34	16°57	11°29	16°19	19°49	5°50	18° 4	10°24	6°42	5°37	24° 5	n.a.	T 10
F 11	11 0 3	16°59'53	19°29	20°53	18°11	12°14	16°29	19°56	5°51	18° 5	10°25	6°D41	5°34	24°12	n.a.	F 11
S 12	11 4 0	17°58'38	3♋40	22°13	19°25	13° 0	16°39	20° 3	5°52	18° 5	10°27	6°42	5°31	24°18	n.a.	S 12
S 13	11 7 56	18°57'21	17°50	23°36	20°39	13°45	16°49	20°10	5°54	18° 5	10°28	6°43	5°27	24°25	n.a.	S 13
M14	11 11 53	19°56'02	1♌59	25° 0	21°54	14°31	16°59	20°17	5°55	18° 6	10°29	6°R44	5°24	24°32	n.a.	M14
T 15	11 15 50	20°54'40	16° 3	26°26	23° 8	15°16	17° 9	20°24	5°57	18° 6	10°31	6°44	5°21	24°38	n.a.	T 15
W16	11 19 46	21°53'16	0♍ 1	27°54	24°22	16° 2	17°18	20°31	5°58	18° 6	10°32	6°42	5°18	24°45	n.a.	W16
T 17	11 23 43	22°51'49	13°49	29°24	25°36	16°47	17°28	20°39	6° 0	18° 7	10°34	6°37	5°15	24°52	n.a.	T 17
F 18	11 27 39	23°50'21	27°23	0♓55	26°50	17°32	17°37	20°46	6° 1	18° 7	10°35	6°31	5°12	24°58	n.a.	F 18
S 19	11 31 36	24°48'50	10♎42	2°28	28° 4	18°17	17°47	20°53	6° 3	18° 7	10°37	6°23	5° 8	25° 5	n.a.	S 19
S 20	11 35 32	25°47'18	23°43	4° 3	29°18	19° 2	17°56	21° 1	6° 4	18° 7	10°38	6°14	5° 5	25°12	n.a.	S 20
M21	11 39 29	26°45'44	6♏25	5°40	0♈32	19°48	18° 5	21° 8	6° 6	18° 7	10°40	6° 6	5° 2	25°19	n.a.	M21
T 22	11 43 25	27°44'08	18°51	7°18	1°47	20°33	18°14	21°15	6° 8	18° 7	10°41	5°58	4°59	25°25	n.a.	T 22
W23	11 47 22	28°42'31	1♐ 2	8°58	3° 1	21°18	18°23	21°23	6°10	18° 7	10°42	5°53	4°56	25°32	n.a.	W23
T 24	11 51 19	29°40'51	13° 1	10°39	4°15	22° 3	18°32	21°30	6°12	18°R 7	10°44	5°49	4°52	25°39	n.a.	T 24
F 25	11 55 15	0♈39'10	24°54	12°22	5°29	22°48	18°40	21°38	6°13	18° 7	10°45	5°47	4°49	25°45	n.a.	F 25
S 26	11 59 12	1°37'28	6♉43	14° 7	6°43	23°32	18°49	21°45	6°15	18° 7	10°47	5°D47	4°46	25°52	n.a.	S 26
S 27	12 3 8	2°35'43	18°36	15°54	7°57	24°17	18°57	21°53	6°17	18° 7	10°48	5°48	4°43	25°59	n.a.	S 27
M28	12 7 5	3°33'58	0♒38	17°42	9°11	25° 2	19° 5	22° 1	6°19	18° 7	10°49	5°R49	4°40	26° 5	n.a.	M28
T 29	12 11 1	4°32'10	12°52	19°33	10°25	25°47	19°13	22° 8	6°21	18° 7	10°51	5°49	4°37	26°12	n.a.	T 29
W30	12 14 58	5°30'21	25°24	21°24	11°39	26°31	19°21	22°16	6°24	18° 7	10°52	5°47	4°33	26°19	n.a.	W30
T 31	12 18 54	6♈28'30	8♓16	23♓18	12♈52	27♓16	19♉29	22♈23	6♊26	18♐ 7	10♓53	5♒43	4♒30	26♐25	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊		☊		⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl		decl		decl		decl	lat
T 1	8s59	19s28	0s13	19s 2	0s58	10s48	1s25	10s49	0s57	23s16	0s23	5n22	2s15	21n34	0n 4	22s 8	1n 2	23s 5	16s35	18s40	18s58	27s 3			n.a.
W 2	8 36	14 57	0n55	18 55	1 7	10 20	1 24	10 31	0 57	23 15	0 23	5 24	2 15	21 35	0 4	22 8	1 2	23 4	16 35	18 40	18 59	27 2			n.a.
T 3	8 14	9 43	2 1	18 46	1 16	9 51	1 24	10 14	0 56	23 14	0 23	5 27	2 15	21 35	0 4	22 8	1 2	23 4	16 35	18 41	19 0	27 2			n.a.
F 4	7 52	3 58	3 3	18 36	1 24	9 23	1 23	9 56	0 56	23 13	0 23	5 30	2 15	21 35	0 4	22 8	1 2	23 3	16 35	18 42	19 0	27 2			n.a.
S 5	7 29	2n 4	3 56	18 25	1 32	8 54	1 23	9 39	0 55	23 12	0 23	5 33	2 15	21 35	0 4	22 8	1 2	23 2	16 35	18 43	19 1	27 1			n.a.
S 6	7 6	8 6	4 36	18 12	1 39	8 25	1 22	9 21	0 55	23 11	0 23	5 35	2 14	21 35	0 4	22 8	1 2	23 2	16 35	18 45	19 2	27 1			n.a.
M 7	6 43	13 51	5 2	17 57	1 46	7 55	1 22	9 3	0 55	23 10	0 24	5 38	2 14	21 35	0 4	22 8	1 2	23 1	16 35	18 46	19 3	27 1			n.a.
T 8	6 21	18 58	5 11	17 41	1 52	7 26	1 21	8 46	0 54	23 8	0 24	5 41	2 14	21 36	0 4	22 8	1 2	23 1	16 35	18 47	19 3	27 0			n.a.
W 9	5 58	23 6	5 1	17 23	1 58	6 56	1 20	8 28	0 54	23 7	0 24	5 44	2 14	21 36	0 4	22 8	1 3	23 0	16 35	18 48	19 4	27 0			n.a.
T 10	5 35	25 55	4 33	17 4	2 3	6 26	1 19	8 10	0 54	23 6	0 24	5 46	2 14	21 36	0 4	22 8	1 3	23 0	16 35	18 49	19 5	27 0			n.a.
F 11	5 11	27 5	3 48	16 43	2 8	5 56	1 19	7 52	0 53	23 5	0 24	5 49	2 14	21 36	0 4	22 8	1 3	22 59	16 35	18 49	19 6	26 59			n.a.
S 12	4 48	26 29	2 50	16 20	2 12	5 25	1 18	7 34	0 53	23 4	0 24	5 52	2 13	21 36	0 4	22 8	1 3	22 59	16 35	18 49	19 7	26 59			n.a.
S 13	4 25	24 10	1 41	15 56	2 16	4 55	1 17	7 16	0 52	23 3	0 25	5 55	2 13	21 37	0 4	22 8	1 3	22 58	16 35	18 48	19 7	26 59			n.a.
M14	4 2	20 22	0 26	15 31	2 19	4 24	1 16	6 58	0 52	23 2	0 25	5 58	2 13	21 37	0 4	22 8	1 3	22 58	16 35	18 48	19 8	26 58			n.a.
T 15	3 39	15 24	0s50	15 4	2 22	3 54	1 14	6 40	0 52	23 1	0 25	6 1	2 13	21 37	0 4	22 8	1 3	22 57	16 35	18 48	19 9	26 58			n.a.
W16	3 15	9 41	2 3	14 35	2 24	3 23	1 13	6 22	0 51	23 0	0 25	6 3	2 13	21 37	0 4	22 8	1 3	22 57	16 35	18 49	19 10	26 57			n.a.
T 17	2 52	3 34	3 7	14 5	2 25	2 52	1 12	6 3	0 51	22 59	0 25	6 6	2 13	21 38	0 4	22 8	1 3	22 56	16 35	18 50	19 11	26 57			n.a.
F 18	2 28	2s36	3 59	13 33	2 26	2 21	1 11	5 45	0 50	22 58	0 26	6 9	2 13	21 38	0 4	22 8	1 3	22 56	16 35	18 52	19 11	26 57			n.a.
S 19	2 5	8 31	4 37	13 0	2 27	1 50	1 10	5 27	0 50	22 57	0 26	6 12	2 12	21 38	0 4	22 8	1 3	22 55	16 36	18 54	19 12	26 56			n.a.
S 20	1 42	13 56	5 0	12 25	2 27	1 19	1 8	5 9	0 50	22 56	0 26	6 15	2 12	21 39	0 4	22 8	1 3	22 55	16 36	18 56	19 13	26 56			n.a.
M21	1 18	18 38	5 7	11 49	2 27	0 48	1 7	4 50	0 49	22 54	0 26	6 18	2 12	21 39	0 5	22 8	1 3	22 54	16 36	18 58	19 14	26 55			n.a.
T 22	0 55	22 25	4 59	11 11	2 26	0 17	1 5	4 32	0 49	22 53	0 26	6 21	2 12	21 39	0 5	22 8	1 3	22 54	16 36	19 0	19 14	26 55			n.a.
W23	0 31	25 8	4 38	10 31	2 24	0n14	1 4	4 14	0 48	22 52	0 26	6 24	2 12	21 40	0 5	22 8	1 3	22 53	16 36	19 1	19 15	26 54			n.a.
T 24	0 8	26 40	4 5	9 51	2 22	0 45	1 2	3 55	0 48	22 51	0 27	6 27	2 12	21 40	0 5	22 8	1 3	22 53	16 36	19 2	19 16	26 54			n.a.
F 25	0n16	26 58	3 22	9 8	2 20	1 17	1 0	3 37	0 47	22 50	0 27	6 30	2 12	21 40	0 5	22 8	1 3	22 52	16 36	19 2	19 17	26 54			n.a.
S 26	0 39	26 2	2 30	8 25	2 16	1 48	0 59	3 19	0 47	22 49	0 27	6 33	2 12	21 41	0 5	22 8	1 3	22 52	16 36	19 2	19 18	26 53			n.a.
S 27	1 3	23 54	1 31	7 40	2 13	2 19	0 57	3 0	0 46	22 48	0 27	6 35	2 12	21 41	0 5	22 8	1 3	22 51	16 36	19 2	19 18	26 53			n.a.
M28	1 26	20 42	0 28	6 53	2 9	2 50	0 55	2 42	0 46	22 47	0 27	6 38	2 11	21 41	0 5	22 8	1 3	22 51	16 37	19 2	19 19	26 52			n.a.
T 29	1 49	16 32	0n38	6 5	2 4	3 21	0 53	2 23	0 46	22 46	0 28	6 41	2 11	21 42	0 5	22 8	1 3	22 51	16 37	19 2	19 20	26 52			n.a.
W30	2 13	11 35	1 43	5 16	1 59	3 52	0 52	2 5	0 45	22 45	0 28	6 44	2 11	21 42	0 5	22 8	1 3	22 50	16 37	19 3	19 21	26 51			n.a.
T 31	2n36	6s 2	2n44	4s25	1s53	4n23	0s50	1s47	0s45	22s45	0s28	6n47	2s11	21n42	0n 5	22s 8	1n 3	22s50	16s37	19s 4	19s21	26s51			n.a.

Julian Day Number = 1666329.5, Delta T = 03h22m58s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'58, Lahiri = - 6°01'58 Julian Calendar 1 March 151 BCE == Greg. Calendar 26 Feb. 151 BCE

The year -150 astronomical counting style corresponds to year 151 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 151 BCE
geocentric

APRIL 151 BCE (-150) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 22 51	7♈26'37	21♓30	25♓13	14♈ 6	28♓ 1	19♑37	22♈31	6♊28	18°R 6	10♓55	5°R36	4♒27	26♐32	n.a.	F 1
S 2	12 26 47	8°24'43	5♈ 6	27°10	15°20	28°45	19°44	22°39	6°30	18♐ 6	10°56	5♒27	4°24	26°39	n.a.	S 2
S 3	12 30 44	9°22'47	19° 0	29° 9	16°34	29°30	19°52	22°47	6°32	18° 6	10°57	5°17	4°21	26°45	n.a.	S 3
M 4	12 34 41	10°20'49	3♉10	1♈ 9	17°48	0♈14	19°59	22°54	6°35	18° 5	10°59	5° 7	4°17	26°52	n.a.	M 4
T 5	12 38 37	11°18'50	17°28	3°11	19° 2	0°58	20° 6	23° 2	6°37	18° 5	11° 0	4°58	4°14	26°59	n.a.	T 5
W 6	12 42 34	12°16'48	1♊51	5°14	20°16	1°43	20°13	23°10	6°39	18° 5	11° 1	4°50	4°11	27° 5	n.a.	W 6
T 7	12 46 30	13°14'45	16°13	7°19	21°30	2°27	20°20	23°18	6°42	18° 4	11° 3	4°45	4° 8	27°12	n.a.	T 7
F 8	12 50 27	14°12'40	0♋29	9°25	22°43	3°11	20°26	23°25	6°44	18° 4	11° 4	4°43	4° 5	27°19	n.a.	F 8
S 9	12 54 23	15°10'33	14°39	11°33	23°57	3°55	20°33	23°33	6°47	18° 3	11° 5	4°D42	4° 2	27°25	n.a.	S 9
S 10	12 58 20	16° 8'24	28°39	13°41	25°11	4°39	20°39	23°41	6°49	18° 3	11° 6	4°R42	3°58	27°32	n.a.	S 10
M11	13 2 16	17° 6'13	12♌31	15°50	26°25	5°24	20°45	23°49	6°52	18° 2	11° 8	4°42	3°55	27°39	n.a.	M11
T 12	13 6 13	18° 4'00	26°13	18° 0	27°38	6° 8	20°51	23°57	6°55	18° 2	11° 9	4°40	3°52	27°45	n.a.	T 12
W13	13 10 10	19° 1'45	9♍46	20°11	28°52	6°51	20°57	24° 5	6°57	18° 1	11°10	4°36	3°49	27°52	n.a.	W13
T 14	13 14 6	19°59'28	23° 9	22°21	0♉ 6	7°35	21° 3	24°12	7° 0	18° 0	11°11	4°30	3°46	27°59	n.a.	T 14
F 15	13 18 3	20°57'10	6♎21	24°32	1°20	8°19	21° 8	24°20	7° 3	18° 0	11°12	4°20	3°43	28° 5	n.a.	F 15
S 16	13 21 59	21°54'51	19°20	26°42	2°33	9° 3	21°14	24°28	7° 5	17°59	11°14	4° 9	3°39	28°12	n.a.	S 16
S 17	13 25 56	22°52'30	2♏ 6	28°52	3°47	9°47	21°19	24°36	7° 8	17°58	11°15	3°56	3°36	28°19	n.a.	S 17
M18	13 29 52	23°50'07	14°39	1♉ 1	5° 0	10°30	21°24	24°44	7°11	17°58	11°16	3°43	3°33	28°25	n.a.	M18
T 19	13 33 49	24°47'44	26°57	3° 9	6°14	11°14	21°29	24°52	7°14	17°57	11°17	3°32	3°30	28°32	n.a.	T 19
W20	13 37 45	25°45'19	9♐ 4	5°15	7°28	11°57	21°34	24°59	7°17	17°56	11°18	3°22	3°27	28°39	n.a.	W20
T 21	13 41 42	26°42'53	21° 1	7°19	8°41	12°41	21°38	25° 7	7°20	17°55	11°19	3°16	3°23	28°45	n.a.	T 21
F 22	13 45 39	27°40'26	2♑51	9°22	9°55	13°24	21°43	25°15	7°23	17°54	11°20	3°11	3°20	28°52	n.a.	F 22
S 23	13 49 35	28°37'58	14°40	11°22	11° 8	14° 8	21°47	25°23	7°26	17°53	11°21	3° 9	3°17	28°59	n.a.	S 23
S 24	13 53 32	29°35'29	26°32	13°21	12°22	14°51	21°51	25°31	7°29	17°53	11°22	3° 9	3°14	29° 5	n.a.	S 24
M25	13 57 28	0♉32'58	8♒33	15°17	13°35	15°34	21°55	25°39	7°32	17°52	11°23	3° 9	3°11	29°12	n.a.	M25
T 26	14 1 25	1°30'27	20°48	17°10	14°49	16°18	21°58	25°47	7°35	17°51	11°24	3° 8	3° 8	29°19	n.a.	T 26
W27	14 5 21	2°27'55	3♓21	19° 1	16° 3	17° 1	22° 2	25°54	7°38	17°50	11°25	3° 6	3° 4	29°25	n.a.	W27
T 28	14 9 18	3°25'22	16°18	20°49	17°16	17°44	22° 5	26° 2	7°41	17°49	11°26	3° 1	3° 1	29°32	n.a.	T 28
F 29	14 13 14	4°22'49	29°41	22°34	18°29	18°27	22° 8	26°10	7°44	17°48	11°27	2°54	2°58	29°39	n.a.	F 29
S 30	14 17 11	5♉20'14	13♈30	24♉17	19♉43	19♈10	22♑11	26♈18	7♊47	17♐46	11♓28	2♒44	2♒55	29♐45	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	2n59	0s 4	3n39	3s33	1s47	4n54	0s48	1s28	0s44	22s44	0s28	6n50	2s11	21n43	0n 5	22s 8	1n 3	22s49	16s37	19s 5	19s22	26s50		n.a.
S 2	3 22	6n 3	4 22	2 40	1 40	5 24	0 46	1 10	0 44	22 43	0 28	6 53	2 11	21 43	0 5	22 8	1 3	22 49	16 37	19 7	19 23	26 50		n.a.
S 3	3 46	12 0	4 51	1 45	1 33	5 55	0 44	0 52	0 43	22 42	0 29	6 56	2 11	21 44	0 5	22 8	1 3	22 49	16 38	19 10	19 24	26 49		n.a.
M 4	4 9	17 26	5 3	0 50	1 25	6 25	0 42	0 33	0 43	22 41	0 29	6 59	2 11	21 44	0 5	22 8	1 3	22 48	16 38	19 12	19 24	26 49		n.a.
T 5	4 32	21 58	4 56	0n 7	1 17	6 56	0 40	0 15	0 42	22 40	0 29	7 2	2 11	21 44	0 5	22 8	1 3	22 48	16 38	19 15	19 25	26 48		n.a.
W 6	4 54	25 11	4 30	1 4	1 8	7 26	0 38	0n 3	0 42	22 39	0 29	7 5	2 11	21 45	0 5	22 7	1 3	22 48	16 38	19 17	19 26	26 47		n.a.
T 7	5 17	26 46	3 48	2 2	0 59	7 56	0 35	0 21	0 41	22 38	0 29	7 8	2 11	21 45	0 5	22 7	1 3	22 47	16 38	19 18	19 27	26 47		n.a.
F 8	5 40	26 34	2 51	3 1	0 49	8 25	0 33	0 40	0 41	22 38	0 30	7 11	2 10	21 46	0 5	22 7	1 3	22 47	16 38	19 18	19 27	26 46		n.a.
S 9	6 3	24 38	1 44	4 1	0 40	8 55	0 31	0 58	0 40	22 37	0 30	7 14	2 10	21 46	0 5	22 7	1 3	22 47	16 39	19 19	19 28	26 46		n.a.
S 10	6 25	21 11	0 32	5 0	0 30	9 25	0 29	1 16	0 40	22 36	0 30	7 17	2 10	21 46	0 5	22 7	1 3	22 46	16 39	19 18	19 29	26 45		n.a.
M11	6 48	16 35	0s41	6 0	0 19	9 54	0 26	1 34	0 39	22 35	0 30	7 20	2 10	21 47	0 5	22 7	1 3	22 46	16 39	19 19	19 30	26 45		n.a.
T 12	7 10	11 10	1 52	7 0	0 9	10 23	0 24	1 52	0 39	22 35	0 30	7 23	2 10	21 47	0 5	22 7	1 3	22 46	16 39	19 19	19 31	26 44		n.a.
W13	7 32	5 18	2 54	8 0	0n 2	10 51	0 22	2 10	0 38	22 34	0 31	7 26	2 10	21 48	0 5	22 7	1 3	22 45	16 39	19 20	19 31	26 43		n.a.
T 14	7 54	0s43	3 47	8 59	0 12	11 20	0 20	2 28	0 38	22 33	0 31	7 29	2 10	21 48	0 5	22 7	1 3	22 45	16 40	19 22	19 32	26 43		n.a.
F 15	8 16	6 37	4 26	9 58	0 23	11 48	0 17	2 46	0 37	22 33	0 31	7 32	2 10	21 49	0 5	22 7	1 3	22 45	16 40	19 24	19 33	26 42		n.a.
S 16	8 38	12 8	4 51	10 56	0 33	12 16	0 15	3 4	0 36	22 32	0 31	7 35	2 10	21 49	0 5	22 7	1 3	22 45	16 40	19 27	19 34	26 42		n.a.
S 17	9 0	17 2	5 0	11 53	0 44	12 44	0 12	3 22	0 36	22 31	0 32	7 37	2 10	21 50	0 5	22 7	1 3	22 44	16 40	19 30	19 34	26 41		n.a.
M18	9 21	21 6	4 55	12 48	0 54	13 11	0 10	3 40	0 35	22 31	0 32	7 40	2 10	21 50	0 5	22 7	1 3	22 44	16 41	19 33	19 35	26 40		n.a.
T 19	9 43	24 11	4 36	13 42	1 4	13 38	0 8	3 58	0 35	22 30	0 32	7 43	2 10	21 51	0 5	22 6	1 3	22 44	16 41	19 35	19 36	26 40		n.a.
W20	10 4	26 6	4 5	14 34	1 13	14 5	0 5	4 15	0 34	22 30	0 32	7 46	2 10	21 51	0 5	22 6	1 3	22 44	16 41	19 38	19 37	26 39		n.a.
T 21	10 25	26 47	3 23	15 24	1 22	14 31	0 3	4 33	0 34	22 29	0 32	7 49	2 10	21 52	0 5	22 6	1 4	22 44	16 41	19 39	19 37	26 38		n.a.
F 22	10 46	26 14	2 33	16 12	1 30	14 57	0 0	4 51	0 33	22 29	0 33	7 52	2 10	21 52	0 5	22 6	1 4	22 43	16 42	19 40	19 38	26 38		n.a.
S 23	11 7	24 29	1 36	16 58	1 38	15 23	0n 2	5 8	0 33	22 28	0 33	7 55	2 10	21 53	0 5	22 6	1 4	22 43	16 42	19 41	19 39	26 37		n.a.
S 24	11 27	21 40	0 35	17 42	1 45	15 48	0 5	5 26	0 32	22 28	0 33	7 58	2 10	21 53	0 5	22 6	1 4	22 43	16 42	19 41	19 40	26 36		n.a.
M25	11 48	17 52	0n29	18 23	1 52	16 13	0 7	5 43	0 32	22 28	0 33	8 1	2 10	21 54	0 5	22 6	1 4	22 43	16 42	19 41	19 40	26 36		n.a.
T 26	12 8	13 17	1 32	19 2	1 58	16 37	0 10	6 0	0 31	22 27	0 34	8 4	2 10	21 54	0 5	22 6	1 4	22 43	16 43	19 41	19 41	26 35		n.a.
W27	12 28	8 1	2 33	19 38	2 3	17 1	0 12	6 17	0 30	22 27	0 34	8 7	2 10	21 55	0 5	22 6	1 4	22 43	16 43	19 41	19 42	26 34		n.a.
T 28	12 48	2 17	3 27	20 13	2 7	17 25	0 14	6 35	0 30	22 27	0 34	8 9	2 10	21 55	0 5	22 6	1 4	22 42	16 43	19 42	19 42	26 33		n.a.
F 29	13 8	3n43	4 12	20 44	2 11	17 48	0 17	6 52	0 29	22 26	0 34	8 12	2 10	21 56	0 5	22 5	1 4	22 42	16 44	19 44	19 43	26 33		n.a.
S 30	13n27	9n44	4n44	21n13	2n14	18n11	0n19	7n 9	0s29	22s26	0s35	8n15	2s10	21n56	0n 5	22s 5	1n 4	22s42	16s44	19s46	19s44	26s32		n.a.

Julian Day Number = 1666360.5, Delta T = 03h22m57s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'54, Lahiri = - 6°01'54 Julian Calendar 1 Apr. 151 BCE == Greg. Calendar 29 March 151 BCE

The year -150 astronomical counting style corresponds to year 151 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 151 BCE
geocentric

MAY 151 BCE (-150) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 21 8	6♉17'38	27♈43	25♉56	20♉56	19♈53	22♊14	26♈26	7♊50	17°R45	11♓29	2°R33	2♒52	29♐52	n.a.	S 1
M 2	14 25 4	7°15'02	12♉14	27°33	22°10	20°36	22°16	26°33	7°53	17♐44	11°30	2♒22	2°49	29°59	n.a.	M 2
T 3	14 29 1	8°12'24	26°58	29° 7	23°23	21°19	22°19	26°41	7°57	17°43	11°31	2°11	2°45	0♊ 5	n.a.	T 3
W 4	14 32 57	9° 9'46	11♊46	0♊38	24°37	22° 2	22°21	26°49	8° 0	17°42	11°32	2° 3	2°42	0°12	n.a.	W 4
T 5	14 36 54	10° 7'06	26°29	2° 6	25°50	22°44	22°23	26°57	8° 3	17°41	11°33	1°57	2°39	0°19	n.a.	T 5
F 6	14 40 50	11° 4'25	11♋ 2	3°31	27° 3	23°27	22°25	27° 4	8° 6	17°40	11°34	1°54	2°36	0°25	n.a.	F 6
S 7	14 44 47	12° 1'43	25°21	4°52	28°17	24°10	22°27	27°12	8°10	17°38	11°35	1°53	2°33	0°32	n.a.	S 7
S 8	14 48 43	12°59'00	9♌24	6°11	29°30	24°52	22°28	27°20	8°13	17°37	11°35	1°53	2°29	0°39	n.a.	S 8
M 9	14 52 40	13°56'16	23°10	7°27	0♊44	25°35	22°29	27°27	8°16	17°36	11°36	1°52	2°26	0°45	n.a.	M 9
T 10	14 56 37	14°53'31	6♍41	8°39	1°57	26°17	22°30	27°35	8°20	17°35	11°37	1°51	2°23	0°52	n.a.	T 10
W11	15 0 33	15°50'44	19°57	9°48	3°10	27° 0	22°31	27°43	8°23	17°33	11°38	1°47	2°20	0°59	n.a.	W11
T 12	15 4 30	16°47'57	3♎ 1	10°54	4°23	27°42	22°32	27°50	8°27	17°32	11°38	1°40	2°17	1° 5	n.a.	T 12
F 13	15 8 26	17°45'09	15°52	11°57	5°37	28°24	22°32	27°58	8°30	17°31	11°39	1°31	2°14	1°12	n.a.	F 13
S 14	15 12 23	18°42'20	28°32	12°56	6°50	29° 7	22°33	28° 5	8°33	17°29	11°40	1°20	2°10	1°19	n.a.	S 14
S 15	15 16 19	19°39'30	11♏ 1	13°51	8° 3	29°49	22°R33	28°13	8°37	17°28	11°41	1° 8	2° 7	1°25	n.a.	S 15
M16	15 20 16	20°36'40	23°20	14°43	9°16	0♉31	22°33	28°20	8°40	17°27	11°41	0°56	2° 4	1°32	n.a.	M16
T 17	15 24 12	21°33'49	5♐28	15°31	10°29	1°13	22°33	28°28	8°44	17°25	11°42	0°45	2° 1	1°39	n.a.	T 17
W18	15 28 9	22°30'58	17°27	16°16	11°43	1°55	22°32	28°35	8°47	17°24	11°42	0°36	1°58	1°45	n.a.	W18
T 19	15 32 6	23°28'07	29°20	16°56	12°56	2°37	22°31	28°43	8°51	17°22	11°43	0°29	1°54	1°52	n.a.	T 19
F 20	15 36 2	24°25'15	11♑ 8	17°32	14° 9	3°19	22°31	28°50	8°54	17°21	11°44	0°25	1°51	1°59	n.a.	F 20
S 21	15 39 59	25°22'23	22°56	18° 5	15°22	4° 1	22°30	28°58	8°58	17°19	11°44	0°23	1°48	2° 5	n.a.	S 21
S 22	15 43 55	26°19'31	4♒48	18°33	16°35	4°43	22°28	29° 5	9° 1	17°18	11°45	0°D23	1°45	2°12	n.a.	S 22
M23	15 47 52	27°16'38	16°48	18°57	17°48	5°24	22°27	29°12	9° 5	17°16	11°45	0°24	1°42	2°19	n.a.	M23
T 24	15 51 48	28°13'46	29° 1	19°16	19° 1	6° 6	22°25	29°19	9° 8	17°15	11°46	0°R24	1°39	2°25	n.a.	T 24
W25	15 55 45	29°10'54	11♓34	19°31	20°14	6°48	22°24	29°27	9°12	17°13	11°46	0°23	1°35	2°32	n.a.	W25
T 26	15 59 42	0♊ 8'01	24°29	19°41	21°27	7°29	22°22	29°34	9°16	17°12	11°47	0°21	1°32	2°39	n.a.	T 26
F 27	16 3 38	1° 5'09	7♈52	19°47	22°40	8°11	22°19	29°41	9°19	17°10	11°47	0°16	1°29	2°45	n.a.	F 27
S 28	16 7 35	2° 2'16	21°44	19°R48	23°53	8°52	22°17	29°48	9°23	17° 9	11°48	0° 9	1°26	2°52	n.a.	S 28
S 29	16 11 31	2°59'24	6♉ 3	19°45	25° 6	9°34	22°15	29°55	9°26	17° 7	11°48	0° 1	1°23	2°59	n.a.	S 29
M30	16 15 28	3°56'32	20°45	19°37	26°19	10°15	22°12	0♉ 2	9°30	17° 6	11°48	29♊52	1°20	3° 5	n.a.	M30
T 31	16 19 24	4♊53'40	5♊44	19♊25	27♊32	10♉56	22♊ 9	0♉ 9	9♊33	17♐ 4	11♓49	29♊44	1♒16	3♊12	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	13n46	15n25	4n59	21n40	2n16	18n33	0n22	7n26	0s28	22s26	0s35	8n18	2s10	21n57	0n 5	22s 5	1n 4	22s42	16s44	19s49	19s45	26s31			n.a.
M 2	14 5	20 22	4 56	22 5	2 18	18 55	0 24	7 43	0 28	22 26	0 35	8 21	2 10	21 57	0 5	22 5	1 4	22 42	16 44	19 52	19 45	26 31			n.a.
T 3	14 24	24 8	4 33	22 27	2 19	19 16	0 27	7 59	0 27	22 25	0 35	8 24	2 10	21 58	0 5	22 5	1 4	22 42	16 45	19 54	19 46	26 30			n.a.
W 4	14 43	26 17	3 52	22 46	2 19	19 37	0 29	8 16	0 26	22 25	0 36	8 26	2 10	21 58	0 5	22 5	1 4	22 42	16 45	19 56	19 47	26 29			n.a.
T 5	15 1	26 35	2 55	23 4	2 18	19 57	0 32	8 33	0 26	22 25	0 36	8 29	2 10	21 59	0 5	22 5	1 4	22 42	16 45	19 57	19 48	26 28			n.a.
F 6	15 19	25 3	1 48	23 19	2 16	20 17	0 34	8 49	0 25	22 25	0 36	8 32	2 10	21 59	0 5	22 5	1 4	22 42	16 46	19 58	19 48	26 28			n.a.
S 7	15 37	21 53	0 35	23 33	2 14	20 36	0 36	9 6	0 25	22 25	0 36	8 35	2 10	22 0	0 5	22 4	1 4	22 42	16 46	19 58	19 49	26 27			n.a.
S 8	15 55	17 28	0s40	23 44	2 10	20 54	0 39	9 22	0 24	22 25	0 37	8 37	2 10	22 1	0 5	22 4	1 4	22 42	16 46	19 58	19 50	26 26			n.a.
M 9	16 12	12 13	1 50	23 53	2 7	21 12	0 41	9 38	0 23	22 25	0 37	8 40	2 10	22 1	0 5	22 4	1 4	22 42	16 47	19 58	19 51	26 25			n.a.
T 10	16 29	6 29	2 53	24 0	2 2	21 30	0 43	9 54	0 23	22 25	0 37	8 43	2 10	22 2	0 5	22 4	1 4	22 42	16 47	19 59	19 51	26 24			n.a.
W11	16 46	0 34	3 46	24 6	1 56	21 47	0 46	10 10	0 22	22 25	0 37	8 46	2 10	22 2	0 5	22 4	1 4	22 42	16 47	19 59	19 52	26 24			n.a.
T 12	17 3	5s15	4 25	24 9	1 50	22 3	0 48	10 26	0 22	22 25	0 38	8 48	2 10	22 3	0 5	22 4	1 4	22 42	16 48	20 1	19 53	26 23			n.a.
F 13	17 19	10 46	4 50	24 11	1 43	22 19	0 50	10 42	0 21	22 26	0 38	8 51	2 10	22 3	0 5	22 4	1 4	22 42	16 48	20 3	19 53	26 22			n.a.
S 14	17 35	15 45	5 1	24 11	1 35	22 34	0 52	10 58	0 20	22 26	0 38	8 54	2 10	22 4	0 5	22 4	1 4	22 42	16 48	20 5	19 54	26 21			n.a.
S 15	17 51	20 0	4 57	24 10	1 27	22 48	0 55	11 14	0 20	22 26	0 38	8 56	2 10	22 4	0 5	22 3	1 4	22 42	16 49	20 8	19 55	26 20			n.a.
M16	18 7	23 19	4 39	24 7	1 18	23 2	0 57	11 29	0 19	22 26	0 39	8 59	2 10	22 5	0 5	22 3	1 4	22 42	16 49	20 11	19 56	26 19			n.a.
T 17	18 22	25 32	4 9	24 2	1 8	23 15	0 59	11 44	0 19	22 27	0 39	9 2	2 10	22 5	0 5	22 3	1 4	22 42	16 49	20 13	19 56	26 19			n.a.
W18	18 37	26 33	3 28	23 57	0 57	23 27	1 1	12 0	0 18	22 27	0 39	9 4	2 10	22 6	0 5	22 3	1 4	22 42	16 50	20 15	19 57	26 18			n.a.
T 19	18 51	26 20	2 37	23 49	0 46	23 39	1 3	12 15	0 17	22 27	0 39	9 7	2 10	22 7	0 5	22 3	1 4	22 42	16 50	20 17	19 58	26 17			n.a.
F 20	19 6	24 55	1 41	23 41	0 34	23 50	1 5	12 30	0 17	22 28	0 40	9 9	2 10	22 7	0 5	22 3	1 4	22 42	16 50	20 18	19 58	26 16			n.a.
S 21	19 20	22 23	0 40	23 31	0 21	24 1	1 7	12 45	0 16	22 28	0 40	9 12	2 10	22 8	0 5	22 3	1 4	22 42	16 51	20 18	19 59	26 15			n.a.
S 22	19 33	18 54	0n24	23 21	0 8	24 10	1 9	13 0	0 15	22 28	0 40	9 15	2 10	22 8	0 5	22 2	1 4	22 42	16 51	20 18	20 0	26 14			n.a.
M23	19 47	14 36	1 27	23 9	0s 6	24 19	1 11	13 14	0 15	22 29	0 40	9 17	2 10	22 9	0 5	22 2	1 4	22 42	16 51	20 18	20 1	26 13			n.a.
T 24	20 0	9 39	2 27	22 56	0 20	24 28	1 13	13 29	0 14	22 29	0 41	9 20	2 11	22 9	0 5	22 2	1 4	22 42	16 52	20 18	20 1	26 13			n.a.
W25	20 12	4 12	3 22	22 43	0 35	24 35	1 14	13 44	0 14	22 30	0 41	9 22	2 11	22 10	0 5	22 2	1 4	22 43	16 52	20 18	20 2	26 12			n.a.
T 26	20 25	1n35	4 8	22 28	0 50	24 42	1 16	13 58	0 13	22 31	0 41	9 25	2 11	22 11	0 5	22 2	1 4	22 43	16 52	20 19	20 3	26 11			n.a.
F 27	20 37	7 29	4 43	22 13	1 6	24 48	1 18	14 12	0 12	22 31	0 41	9 27	2 11	22 11	0 5	22 2	1 4	22 43	16 53	20 20	20 3	26 10			n.a.
S 28	20 48	13 13	5 2	21 58	1 22	24 54	1 20	14 26	0 12	22 32	0 42	9 29	2 11	22 12	0 5	22 2	1 4	22 43	16 53	20 21	20 4	26 9			n.a.
S 29	21 0	18 27	5 4	21 41	1 38	24 58	1 21	14 40	0 11	22 32	0 42	9 32	2 11	22 12	0 5	22 1	1 4	22 43	16 54	20 23	20 5	26 8			n.a.
M30	21 11	22 44	4 46	21 25	1 54	25 2	1 23	14 54	0 10	22 33	0 42	9 34	2 11	22 13	0 5	22 1	1 4	22 43	16 54	20 25	20 6	26 7			n.a.
T 31	21n21	25n34	4n 8	21n 8	2s10	25n 6	1n24	15n 8	0s10	22s34	0s42	9n37	2s11	22n13	0n 5	22s 1	1n 4	22s44	16s54	20s26	20s 6	26s 6			n.a.

Julian Day Number = 1666390.5, Delta T = 03h22m56s
Ecliptic obliquity = 23°42'54, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'50, Lahiri = - 6°01'50 Julian Calendar 1 May 151 BCE == Greg. Calendar 28 Apr. 151 BCE

The year -150 astronomical counting style corresponds to year 151 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 151 BCE
geocentric

JUNE 151 BCE (-150) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 23 21	5♊50'48	20♊50	19°R 8	28♊45	11♉38	22°R 6	0♉16	9♊37	17°R 3	11♓49	29°R38	1♒13	3♑19	n.a.	W 1
T 2	16 27 17	6°47'56	5♋53	18♊48	29°58	12°19	22♑ 3	0°23	9°41	17♐ 1	11°49	29♑34	1°10	3°25	n.a.	T 2
F 3	16 31 14	7°45'04	20°44	18°23	1♋11	13° 0	21°59	0°30	9°44	16°59	11°50	29°32	1° 7	3°32	n.a.	F 3
S 4	16 35 11	8°42'11	5♌19	17°55	2°24	13°41	21°55	0°36	9°48	16°58	11°50	29°D32	1° 4	3°39	n.a.	S 4
S 5	16 39 7	9°39'19	19°32	17°25	3°37	14°22	21°52	0°43	9°52	16°56	11°50	29°32	1° 0	3°45	n.a.	S 5
M 6	16 43 4	10°36'26	3♍23	16°51	4°50	15° 3	21°48	0°50	9°55	16°55	11°50	29°33	0°57	3°52	n.a.	M 6
T 7	16 47 0	11°33'32	16°53	16°16	6° 3	15°44	21°44	0°56	9°59	16°53	11°50	29°R33	0°54	3°59	n.a.	T 7
W 8	16 50 57	12°30'39	0♎ 3	15°39	7°16	16°25	21°39	1° 3	10° 2	16°51	11°51	29°32	0°51	4° 5	n.a.	W 8
T 9	16 54 53	13°27'46	12°56	15° 1	8°28	17° 6	21°35	1°10	10° 6	16°50	11°51	29°28	0°48	4°12	n.a.	T 9
F 10	16 58 50	14°24'53	25°33	14°23	9°41	17°47	21°30	1°16	10°10	16°48	11°51	29°23	0°45	4°19	n.a.	F 10
S 11	17 2 46	15°22'00	7♏59	13°45	10°54	18°27	21°25	1°23	10°13	16°47	11°51	29°16	0°41	4°25	n.a.	S 11
S 12	17 6 43	16°19'07	20°13	13° 9	12° 7	19° 8	21°20	1°29	10°17	16°45	11°51	29° 9	0°38	4°32	n.a.	S 12
M13	17 10 40	17°16'14	2♐19	12°34	13°19	19°49	21°15	1°35	10°20	16°43	11°51	29° 1	0°35	4°39	n.a.	M13
T 14	17 14 36	18°13'22	14°18	12° 1	14°32	20°29	21°10	1°41	10°24	16°42	11°51	28°54	0°32	4°45	n.a.	T 14
W15	17 18 33	19°10'30	26°11	11°32	15°45	21°10	21° 5	1°48	10°27	16°40	11°51	28°49	0°29	4°52	n.a.	W15
T 16	17 22 29	20° 7'39	8♑ 0	11° 6	16°57	21°50	20°59	1°54	10°31	16°38	11°R51	28°45	0°26	4°59	n.a.	T 16
F 17	17 26 26	21° 4'48	19°48	10°44	18°10	22°31	20°53	2° 0	10°35	16°37	11°51	28°43	0°22	5° 5	n.a.	F 17
S 18	17 30 22	22° 1'58	1♒37	10°26	19°22	23°11	20°47	2° 6	10°38	16°35	11°51	28°D42	0°19	5°12	n.a.	S 18
S 19	17 34 19	22°59'08	13°30	10°13	20°35	23°51	20°42	2°12	10°42	16°34	11°51	28°43	0°16	5°19	n.a.	S 19
M20	17 38 16	23°56'20	25°32	10° 5	21°48	24°31	20°35	2°18	10°45	16°32	11°51	28°45	0°13	5°25	n.a.	M20
T 21	17 42 12	24°53'32	7♓46	10°D 3	23° 0	25°12	20°29	2°24	10°49	16°30	11°51	28°46	0°10	5°32	n.a.	T 21
W22	17 46 9	25°50'45	20°18	10° 6	24°12	25°52	20°23	2°29	10°52	16°29	11°51	28°R47	0° 6	5°39	n.a.	W22
T 23	17 50 5	26°47'59	3♈11	10°15	25°25	26°32	20°16	2°35	10°56	16°27	11°51	28°47	0° 3	5°45	n.a.	T 23
F 24	17 54 2	27°45'14	16°30	10°29	26°37	27°12	20°10	2°41	10°59	16°26	11°50	28°46	0° 0	5°52	n.a.	F 24
S 25	17 57 58	28°42'30	0♉16	10°50	27°50	27°52	20° 3	2°46	11° 3	16°24	11°50	28°43	29♑57	5°59	n.a.	S 25
S 26	18 1 55	29°39'47	14°29	11°16	29° 2	28°32	19°56	2°52	11° 6	16°22	11°50	28°40	29°54	6° 5	n.a.	S 26
M27	18 5 51	0♋37'05	29° 8	11°48	0♌15	29°12	19°49	2°57	11°10	16°21	11°50	28°36	29°51	6°12	n.a.	M27
T 28	18 9 48	1°34'25	14♊ 7	12°27	1°27	29°52	19°42	3° 3	11°13	16°19	11°50	28°32	29°47	6°19	n.a.	T 28
W29	18 13 45	2°31'45	29°18	13°11	2°39	0♊31	19°35	3° 8	11°17	16°18	11°49	28°30	29°44	6°25	n.a.	W29
T 30	18 17 41	3♋29'06	14♋30	14♊ 0	3♌51	1♊11	19♑28	3♉13	11♊20	16♐16	11♓49	28♑28	29♑41	6♑32	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21n32	26n36	3n12	20n51	2s26	25n 8	1n26	15n21	0s 9	22s35	0s43	9n39	2s11	22n14	0n 5	22s 1	1n 4	22s44	16s55	20s28	20s 7	26s 5		n.a.
T 2	21 42	25 38	2 4	20 33	2 41	25 10	1 27	15 34	0 8	22 35	0 43	9 41	2 11	22 14	0 5	22 1	1 4	22 44	16 55	20 29	20 8	26 4		n.a.
F 3	21 51	22 52	0 47	20 16	2 57	25 11	1 28	15 48	0 8	22 36	0 43	9 44	2 11	22 15	0 5	22 1	1 4	22 44	16 55	20 29	20 8	26 3		n.a.
S 4	22 0	18 39	0s31	19 59	3 11	25 11	1 30	16 1	0 7	22 37	0 43	9 46	2 11	22 15	0 5	22 1	1 4	22 45	16 56	20 29	20 9	26 2		n.a.
S 5	22 9	13 27	1 46	19 43	3 25	25 11	1 31	16 14	0 7	22 38	0 44	9 48	2 12	22 16	0 5	22 0	1 4	22 45	16 56	20 29	20 10	26 1		n.a.
M 6	22 18	7 42	2 52	19 26	3 38	25 9	1 32	16 27	0 6	22 39	0 44	9 50	2 12	22 17	0 5	22 0	1 4	22 45	16 57	20 29	20 11	26 0		n.a.
T 7	22 26	1 45	3 47	19 11	3 50	25 7	1 33	16 39	0 5	22 40	0 44	9 53	2 12	22 17	0 5	22 0	1 4	22 45	16 57	20 29	20 11	25 59		n.a.
W 8	22 33	4s 7	4 29	18 57	4 1	25 5	1 34	16 52	0 5	22 41	0 44	9 55	2 12	22 18	0 5	22 0	1 4	22 46	16 57	20 29	20 12	25 58		n.a.
T 9	22 41	9 41	4 56	18 43	4 10	25 1	1 35	17 4	0 4	22 42	0 44	9 57	2 12	22 18	0 5	22 0	1 4	22 46	16 58	20 30	20 13	25 57		n.a.
F 10	22 48	14 45	5 8	18 31	4 18	24 57	1 36	17 16	0 3	22 43	0 45	9 59	2 12	22 19	0 5	22 0	1 4	22 46	16 58	20 31	20 13	25 56		n.a.
S 11	22 54	19 8	5 5	18 20	4 25	24 52	1 37	17 29	0 3	22 44	0 45	10 1	2 12	22 19	0 5	21 59	1 4	22 46	16 58	20 32	20 14	25 55		n.a.
S 12	23 0	22 37	4 48	18 10	4 30	24 46	1 37	17 40	0 2	22 45	0 45	10 3	2 12	22 20	0 5	21 59	1 4	22 47	16 59	20 34	20 15	25 54		n.a.
M13	23 6	25 5	4 19	18 2	4 34	24 40	1 38	17 52	0 1	22 46	0 45	10 6	2 12	22 20	0 5	21 59	1 4	22 47	16 59	20 35	20 15	25 53		n.a.
T 14	23 11	26 23	3 38	17 56	4 36	24 33	1 39	18 4	0 1	22 47	0 46	10 8	2 13	22 21	0 5	21 59	1 4	22 47	16 59	20 37	20 16	25 52		n.a.
W15	23 16	26 27	2 48	17 52	4 36	24 25	1 39	18 15	0 0	22 48	0 46	10 10	2 13	22 21	0 5	21 59	1 4	22 48	17 0	20 38	20 17	25 51		n.a.
T 16	23 21	25 18	1 50	17 50	4 35	24 16	1 40	18 27	0n 1	22 49	0 46	10 12	2 13	22 22	0 5	21 59	1 4	22 48	17 0	20 39	20 17	25 50		n.a.
F 17	23 25	23 2	0 48	17 49	4 32	24 7	1 40	18 38	0 1	22 50	0 46	10 14	2 13	22 22	0 5	21 59	1 4	22 48	17 1	20 39	20 18	25 49		n.a.
S 18	23 28	19 46	0n16	17 51	4 28	23 57	1 40	18 49	0 2	22 51	0 47	10 16	2 13	22 23	0 5	21 58	1 4	22 49	17 1	20 39	20 19	25 48		n.a.
S 19	23 32	15 41	1 20	17 55	4 22	23 46	1 41	19 0	0 3	22 52	0 47	10 17	2 13	22 24	0 5	21 58	1 4	22 49	17 1	20 39	20 20	25 47		n.a.
M20	23 34	10 56	2 21	18 0	4 16	23 35	1 41	19 10	0 3	22 53	0 47	10 19	2 13	22 24	0 5	21 58	1 4	22 49	17 2	20 39	20 20	25 46		n.a.
T 21	23 37	5 42	3 18	18 8	4 7	23 23	1 41	19 21	0 4	22 55	0 47	10 21	2 14	22 25	0 5	21 58	1 4	22 50	17 2	20 39	20 21	25 45		n.a.
W22	23 39	0 8	4 6	18 17	3 58	23 10	1 41	19 31	0 5	22 56	0 47	10 23	2 14	22 25	0 5	21 58	1 4	22 50	17 2	20 38	20 22	25 44		n.a.
T 23	23 41	5n36	4 43	18 29	3 48	22 57	1 41	19 41	0 5	22 57	0 48	10 25	2 14	22 26	0 5	21 58	1 4	22 51	17 3	20 38	20 22	25 42		n.a.
F 24	23 42	11 15	5 6	18 42	3 37	22 43	1 41	19 51	0 6	22 58	0 48	10 27	2 14	22 26	0 5	21 58	1 4	22 51	17 3	20 39	20 23	25 41		n.a.
S 25	23 42	16 34	5 13	18 56	3 26	22 28	1 40	20 1	0 7	22 59	0 48	10 29	2 14	22 27	0 5	21 57	1 4	22 51	17 4	20 39	20 24	25 40		n.a.
S 26	23 43	21 10	5 2	19 12	3 13	22 13	1 40	20 11	0 7	23 1	0 48	10 30	2 14	22 27	0 5	21 57	1 4	22 52	17 4	20 40	20 24	25 39		n.a.
M27	23 43	24 35	4 30	19 29	3 0	21 57	1 40	20 20	0 8	23 2	0 49	10 32	2 14	22 28	0 5	21 57	1 4	22 52	17 4	20 41	20 25	25 38		n.a.
T 28	23 42	26 24	3 40	19 48	2 47	21 41	1 39	20 30	0 9	23 3	0 49	10 34	2 15	22 28	0 5	21 57	1 4	22 53	17 5	20 41	20 26	25 37		n.a.
W29	23 41	26 16	2 34	20 7	2 33	21 24	1 39	20 39	0 9	23 4	0 49	10 35	2 15	22 29	0 5	21 57	1 3	22 53	17 5	20 42	20 26	25 36		n.a.
T 30	23n40	24n11	1n16	20n27	2s18	21n 6	1n38	20n48	0n10	23s 6	0s49	10n37	2s15	22n29	0n 5	21s57	1n 3	22s54	17s 5	20s42	20s27	25s35		n.a.

Julian Day Number = 1666421.5, Delta T = 03h22m55s
Ecliptic obliquity = 23°42'53, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'46, Lahiri = - 6°01'45 Julian Calendar 1 June 151 BCE == Greg. Calendar 29 May 151 BCE

The year -150 astronomical counting style corresponds to year 151 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 151 BCE
geocentric

JULY 151 BCE (-150) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 21 38	4♋26'29	29♋34	14♊56	5♌ 4	1♊51	19°R21	3♉18	11♊23	16°R15	11°R49	28°D27	29♑38	6♑39	n.a.	F 1
S 2	18 25 34	5°23'51	14♌23	15°57	6°16	2°30	19♑13	3°23	11°27	16♐13	11♓48	28♑28	29°35	6°45	n.a.	S 2
S 3	18 29 31	6°21'15	28°49	17° 4	7°28	3°10	19° 6	3°28	11°30	16°12	11°48	28°29	29°32	6°52	n.a.	S 3
M 4	18 33 27	7°18'39	12♍51	18°16	8°40	3°49	18°59	3°33	11°33	16°10	11°48	28°30	29°28	6°59	n.a.	M 4
T 5	18 37 24	8°16'05	26°27	19°34	9°52	4°29	18°51	3°38	11°37	16° 9	11°47	28°31	29°25	7° 5	n.a.	T 5
W 6	18 41 20	9°13'30	9♎39	20°56	11° 5	5° 8	18°43	3°43	11°40	16° 7	11°47	28°R32	29°22	7°12	n.a.	W 6
T 7	18 45 17	10°10'57	22°29	22°23	12°17	5°48	18°36	3°47	11°43	16° 6	11°46	28°31	29°19	7°18	n.a.	T 7
F 8	18 49 14	11° 8'25	5♏ 1	23°55	13°29	6°27	18°28	3°52	11°47	16° 4	11°46	28°30	29°16	7°25	n.a.	F 8
S 9	18 53 10	12° 5'54	17°18	25°31	14°41	7° 6	18°20	3°56	11°50	16° 3	11°45	28°28	29°12	7°32	n.a.	S 9
S 10	18 57 7	13° 3'23	29°23	27°12	15°53	7°45	18°13	4° 1	11°53	16° 2	11°45	28°26	29° 9	7°38	n.a.	S 10
M11	19 1 3	14° 0'54	11♐20	28°56	17° 4	8°24	18° 5	4° 5	11°56	16° 0	11°44	28°24	29° 6	7°45	n.a.	M11
T 12	19 5 0	14°58'26	23°12	0♋43	18°16	9° 3	17°57	4° 9	11°59	15°59	11°44	28°22	29° 3	7°52	n.a.	T 12
W13	19 8 56	15°55'59	5♑ 1	2°34	19°28	9°42	17°49	4°13	12° 3	15°58	11°43	28°20	29° 0	7°58	n.a.	W13
T 14	19 12 53	16°53'33	16°50	4°27	20°40	10°21	17°41	4°18	12° 6	15°56	11°43	28°19	28°57	8° 5	n.a.	T 14
F 15	19 16 49	17°51'09	28°40	6°22	21°52	11° 0	17°33	4°22	12° 9	15°55	11°42	28°D19	28°53	8°12	n.a.	F 15
S 16	19 20 46	18°48'46	10♒34	8°19	23° 3	11°39	17°26	4°25	12°12	15°54	11°41	28°19	28°50	8°18	n.a.	S 16
S 17	19 24 43	19°46'25	22°35	10°18	24°15	12°18	17°18	4°29	12°15	15°52	11°41	28°20	28°47	8°25	n.a.	S 17
M18	19 28 39	20°44'05	4♓44	12°18	25°27	12°57	17°10	4°33	12°18	15°51	11°40	28°21	28°44	8°32	n.a.	M18
T 19	19 32 36	21°41'46	17° 5	14°19	26°38	13°35	17° 2	4°37	12°21	15°50	11°39	28°22	28°41	8°38	n.a.	T 19
W20	19 36 32	22°39'30	29°41	16°20	27°50	14°14	16°54	4°40	12°24	15°49	11°39	28°22	28°38	8°45	n.a.	W20
T 21	19 40 29	23°37'15	12♈35	18°21	29° 1	14°53	16°47	4°43	12°27	15°47	11°38	28°22	28°34	8°52	n.a.	T 21
F 22	19 44 25	24°35'02	25°50	20°23	0♍13	15°31	16°39	4°47	12°30	15°46	11°37	28°R22	28°31	8°58	n.a.	F 22
S 23	19 48 22	25°32'51	9♉29	22°23	1°24	16°10	16°31	4°50	12°33	15°45	11°37	28°22	28°28	9° 5	n.a.	S 23
S 24	19 52 18	26°30'41	23°31	24°24	2°35	16°48	16°24	4°53	12°35	15°44	11°36	28°22	28°25	9°12	n.a.	S 24
M25	19 56 15	27°28'34	7♊56	26°24	3°47	17°26	16°16	4°56	12°38	15°43	11°35	28°22	28°22	9°18	n.a.	M25
T 26	20 0 12	28°26'29	22°42	28°23	4°58	18° 5	16° 9	4°59	12°41	15°42	11°34	28°D22	28°18	9°25	n.a.	T 26
W27	20 4 8	29°24'25	7♋42	0♌21	6° 9	18°43	16° 1	5° 2	12°44	15°41	11°33	28°22	28°15	9°32	n.a.	W27
T 28	20 8 5	0♌22'23	22°48	2°18	7°20	19°21	15°54	5° 5	12°47	15°40	11°33	28°R22	28°12	9°38	n.a.	T 28
F 29	20 12 1	1°20'23	7♌52	4°14	8°31	19°59	15°46	5° 7	12°49	15°39	11°32	28°22	28° 9	9°45	n.a.	F 29
S 30	20 15 58	2°18'25	22°45	6° 8	9°43	20°37	15°39	5°10	12°52	15°38	11°31	28°22	28° 6	9°52	n.a.	S 30
S 31	20 19 54	3♌16'28	7♍19	8♌ 2	10♍54	21♊16	15♑32	5♉12	12♊54	15♐37	11♓30	28♑22	28♑ 3	9♑58	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23n38	20n22	0s 6	20n48	2s 4	20n48	1n37	20n57	0n11	23s 7	0s49	10n39	2s15	22n30	0n 5	21s57	1n 3	22s54	17s 6	20s42	20s28	25s33		n.a.
S 2	23 36	15 19	1 27	21 9	1 49	20 29	1 37	21 5	0 11	23 8	0 49	10 40	2 15	22 30	0 5	21 56	1 3	22 54	17 6	20 42	20 28	25 32		n.a.
S 3	23 34	9 31	2 40	21 30	1 35	20 9	1 36	21 14	0 12	23 9	0 50	10 42	2 15	22 31	0 5	21 56	1 3	22 55	17 6	20 42	20 29	25 31		n.a.
M 4	23 31	3 25	3 41	21 52	1 20	19 49	1 35	21 22	0 13	23 11	0 50	10 43	2 16	22 31	0 5	21 56	1 3	22 55	17 7	20 42	20 30	25 30		n.a.
T 5	23 27	2s40	4 28	22 13	1 6	19 29	1 34	21 30	0 13	23 12	0 50	10 45	2 16	22 31	0 5	21 56	1 3	22 56	17 7	20 42	20 30	25 29		n.a.
W 6	23 23	8 26	4 59	22 33	0 51	19 8	1 33	21 38	0 14	23 13	0 50	10 46	2 16	22 32	0 5	21 56	1 3	22 56	17 7	20 42	20 31	25 28		n.a.
T 7	23 19	13 41	5 14	22 52	0 37	18 46	1 31	21 46	0 15	23 14	0 50	10 47	2 16	22 32	0 5	21 56	1 3	22 57	17 8	20 42	20 32	25 26		n.a.
F 8	23 14	18 15	5 14	23 11	0 24	18 24	1 30	21 53	0 16	23 16	0 51	10 49	2 16	22 33	0 5	21 56	1 3	22 57	17 8	20 42	20 32	25 25		n.a.
S 9	23 9	21 58	4 59	23 28	0 10	18 2	1 29	22 1	0 16	23 17	0 51	10 50	2 17	22 33	0 5	21 56	1 3	22 58	17 8	20 42	20 33	25 24		n.a.
S 10	23 4	24 39	4 31	23 44	0n 2	17 39	1 27	22 8	0 17	23 18	0 51	10 52	2 17	22 34	0 5	21 55	1 3	22 58	17 9	20 43	20 34	25 23		n.a.
M11	22 58	26 13	3 52	23 57	0 15	17 15	1 26	22 15	0 18	23 19	0 51	10 53	2 17	22 34	0 5	21 55	1 3	22 59	17 9	20 43	20 34	25 22		n.a.
T 12	22 52	26 35	3 2	24 9	0 26	16 52	1 24	22 22	0 18	23 20	0 51	10 54	2 17	22 35	0 5	21 55	1 3	22 59	17 9	20 44	20 35	25 20		n.a.
W13	22 45	25 43	2 6	24 19	0 37	16 27	1 23	22 28	0 19	23 22	0 51	10 55	2 17	22 35	0 5	21 55	1 3	23 0	17 10	20 44	20 36	25 19		n.a.
T 14	22 38	23 41	1 3	24 26	0 47	16 3	1 21	22 35	0 20	23 23	0 51	10 57	2 17	22 35	0 5	21 55	1 3	23 0	17 10	20 44	20 36	25 18		n.a.
F 15	22 30	20 38	0n 2	24 30	0 57	15 38	1 19	22 41	0 20	23 24	0 52	10 58	2 18	22 36	0 5	21 55	1 3	23 1	17 10	20 44	20 37	25 17		n.a.
S 16	22 23	16 42	1 7	24 32	1 5	15 12	1 17	22 47	0 21	23 25	0 52	10 59	2 18	22 36	0 5	21 55	1 3	23 1	17 11	20 44	20 38	25 15		n.a.
S 17	22 14	12 5	2 11	24 31	1 13	14 46	1 15	22 53	0 22	23 26	0 52	11 0	2 18	22 37	0 5	21 55	1 3	23 2	17 11	20 44	20 38	25 14		n.a.
M18	22 6	6 58	3 9	24 28	1 20	14 20	1 13	22 59	0 23	23 27	0 52	11 1	2 18	22 37	0 6	21 55	1 3	23 2	17 11	20 44	20 39	25 13		n.a.
T 19	21 57	1 30	3 59	24 22	1 26	13 53	1 11	23 5	0 23	23 29	0 52	11 2	2 18	22 38	0 6	21 54	1 3	23 3	17 11	20 44	20 40	25 12		n.a.
W20	21 47	4n 8	4 39	24 13	1 32	13 26	1 9	23 10	0 24	23 30	0 52	11 3	2 19	22 38	0 6	21 54	1 3	23 4	17 12	20 44	20 40	25 10		n.a.
T 21	21 37	9 43	5 6	24 2	1 36	12 59	1 6	23 15	0 25	23 31	0 52	11 4	2 19	22 38	0 6	21 54	1 3	23 4	17 12	20 43	20 41	25 9		n.a.
F 22	21 27	15 1	5 17	23 48	1 40	12 31	1 4	23 20	0 25	23 32	0 53	11 5	2 19	22 39	0 6	21 54	1 3	23 5	17 12	20 43	20 42	25 8		n.a.
S 23	21 17	19 44	5 12	23 31	1 43	12 3	1 2	23 25	0 26	23 33	0 53	11 6	2 19	22 39	0 6	21 54	1 3	23 5	17 13	20 43	20 42	25 6		n.a.
S 24	21 6	23 30	4 48	23 12	1 45	11 35	0 59	23 30	0 27	23 34	0 53	11 7	2 19	22 40	0 6	21 54	1 3	23 6	17 13	20 43	20 43	25 5		n.a.
M25	20 54	25 55	4 5	22 51	1 46	11 7	0 56	23 34	0 28	23 35	0 53	11 7	2 20	22 40	0 6	21 54	1 3	23 6	17 13	20 43	20 44	25 4		n.a.
T 26	20 43	26 36	3 6	22 28	1 47	10 38	0 54	23 38	0 28	23 36	0 53	11 8	2 20	22 40	0 6	21 54	1 3	23 7	17 13	20 44	20 44	25 2		n.a.
W27	20 31	25 22	1 52	22 3	1 47	10 9	0 51	23 43	0 29	23 37	0 53	11 9	2 20	22 41	0 6	21 54	1 3	23 7	17 14	20 43	20 45	25 1		n.a.
T 28	20 18	22 16	0 31	21 36	1 47	9 40	0 48	23 46	0 30	23 38	0 53	11 10	2 20	22 41	0 6	21 54	1 3	23 8	17 14	20 43	20 46	25 0		n.a.
F 29	20 5	17 40	0s53	21 8	1 46	9 10	0 45	23 50	0 30	23 39	0 53	11 10	2 21	22 41	0 6	21 54	1 3	23 8	17 14	20 43	20 46	24 59		n.a.
S 30	19 52	12 1	2 11	20 38	1 44	8 40	0 42	23 54	0 31	23 40	0 53	11 11	2 21	22 42	0 6	21 54	1 3	23 9	17 14	20 44	20 47	24 57		n.a.
S 31	19n39	5n50	3s20	20n 6	1n42	8n10	0n39	23n57	0n32	23s41	0s53	11n12	2s21	22n42	0n 6	21s53	1n 3	23s10	17s15	20s44	20s47	24s56		n.a.

Julian Day Number = 1666451.5, Delta T = 03h22m54s
Ecliptic obliquity = 23°42'52, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'42, Lahiri = - 6°01'41 Julian Calendar 1 July 151 BCE == Greg. Calendar 28 June 151 BCE

The year -150 astronomical counting style corresponds to year 151 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 151 BCE
geocentric

AUGUST 151 BCE (-150) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 23 51	4♌14'32	21♍29	9♌55	12♍ 5	21♊53	15°R25	5♉15	12♊57	15°R36	11°R29	28°R21	27♑59	10♑ 5	n.a.	M 1
T 2	20 27 47	5°12'38	5♎14	11°46	13°15	22°31	15♑18	5°17	13° 0	15♐35	11♓28	28♑20	27°56	10°12	n.a.	T 2
W 3	20 31 44	6°10'46	18°32	13°36	14°26	23° 9	15°11	5°19	13° 2	15°34	11°27	28°20	27°53	10°18	n.a.	W 3
T 4	20 35 41	7° 8'55	1♏25	15°24	15°37	23°47	15° 4	5°21	13° 5	15°33	11°26	28°D19	27°50	10°25	n.a.	T 4
F 5	20 39 37	8° 7'06	13°57	17°12	16°48	24°25	14°58	5°23	13° 7	15°32	11°25	28°19	27°47	10°31	n.a.	F 5
S 6	20 43 34	9° 5'18	26°11	18°58	17°58	25° 2	14°51	5°25	13° 9	15°31	11°24	28°20	27°44	10°38	n.a.	S 6
S 7	20 47 30	10° 3'32	8♐13	20°43	19° 9	25°40	14°45	5°27	13°12	15°31	11°23	28°21	27°40	10°45	n.a.	S 7
M 8	20 51 27	11° 1'48	20° 6	22°27	20°20	26°18	14°39	5°28	13°14	15°30	11°22	28°22	27°37	10°51	n.a.	M 8
T 9	20 55 23	12° 0'06	1♑55	24°10	21°30	26°55	14°32	5°30	13°16	15°29	11°21	28°23	27°34	10°58	n.a.	T 9
W10	20 59 20	12°58'25	13°43	25°51	22°41	27°33	14°26	5°31	13°18	15°28	11°20	28°24	27°31	11° 5	n.a.	W10
T 11	21 3 16	13°56'46	25°34	27°32	23°51	28°10	14°21	5°32	13°21	15°28	11°19	28°R25	27°28	11°11	n.a.	T 11
F 12	21 7 13	14°55'08	7♒30	29°11	25° 1	28°47	14°15	5°33	13°23	15°27	11°18	28°24	27°24	11°18	n.a.	F 12
S 13	21 11 10	15°53'33	19°33	0♍49	26°11	29°25	14° 9	5°35	13°25	15°27	11°17	28°23	27°21	11°25	n.a.	S 13
S 14	21 15 6	16°52'00	1♓46	2°26	27°21	0♋ 2	14° 4	5°35	13°27	15°26	11°16	28°21	27°18	11°31	n.a.	S 14
M15	21 19 3	17°50'28	14° 9	4° 2	28°31	0°39	13°58	5°36	13°29	15°25	11°15	28°19	27°15	11°38	n.a.	M15
T 16	21 22 59	18°48'59	26°45	5°37	29°41	1°16	13°53	5°37	13°31	15°25	11°14	28°15	27°12	11°45	n.a.	T 16
W17	21 26 56	19°47'32	9♈33	7°11	0♎51	1°53	13°48	5°38	13°33	15°24	11°13	28°12	27° 9	11°51	n.a.	W17
T 18	21 30 52	20°46'07	22°37	8°43	2° 1	2°30	13°44	5°38	13°35	15°24	11°12	28°10	27° 5	11°58	n.a.	T 18
F 19	21 34 49	21°44'44	5♉56	10°15	3°11	3° 7	13°39	5°39	13°37	15°24	11°11	28° 8	27° 2	12° 5	n.a.	F 19
S 20	21 38 45	22°43'24	19°31	11°46	4°21	3°44	13°34	5°39	13°38	15°23	11°10	28°D 7	26°59	12°11	n.a.	S 20
S 21	21 42 42	23°42'07	3♊24	13°15	5°30	4°21	13°30	5°39	13°40	15°23	11° 9	28° 7	26°56	12°18	n.a.	S 21
M22	21 46 39	24°40'51	17°34	14°44	6°40	4°57	13°26	5°R39	13°42	15°23	11° 8	28° 8	26°53	12°25	n.a.	M22
T 23	21 50 35	25°39'38	2♋ 0	16°11	7°49	5°34	13°22	5°39	13°43	15°22	11° 7	28°10	26°50	12°31	n.a.	T 23
W24	21 54 32	26°38'28	16°38	17°37	8°58	6°11	13°18	5°39	13°45	15°22	11° 5	28°11	26°46	12°38	n.a.	W24
T 25	21 58 28	27°37'20	1♌25	19° 3	10° 8	6°47	13°14	5°39	13°47	15°22	11° 4	28°R11	26°43	12°45	n.a.	T 25
F 26	22 2 25	28°36'14	16°13	20°27	11°17	7°23	13°11	5°38	13°48	15°22	11° 3	28°10	26°40	12°51	n.a.	F 26
S 27	22 6 21	29°35'10	0♍55	21°50	12°26	8° 0	13° 8	5°38	13°50	15°21	11° 2	28° 8	26°37	12°58	n.a.	S 27
S 28	22 10 18	0♍34'08	15°25	23°11	13°35	8°36	13° 5	5°37	13°51	15°21	11° 1	28° 4	26°34	13° 4	n.a.	S 28
M29	22 14 14	1°33'08	29°36	24°32	14°44	9°12	13° 2	5°37	13°52	15°21	11° 0	27°58	26°30	13°11	n.a.	M29
T 30	22 18 11	2°32'10	13♎23	25°51	15°52	9°49	12°59	5°36	13°54	15°21	10°58	27°53	26°27	13°18	n.a.	T 30
W31	22 22 8	3♍31'14	26♎45	27♍ 9	17♎ 1	10♋25	12♑57	5♉35	13♊55	15°D21	10♓57	27♑48	26♑24	13♑24	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	19n25	0s29	4s14	19n34	1n39	7n40	0n36	24n 0	0n33	23s42	0s53	11n12	2s21	22n42	0n 6	21s53	1n 2	23s10	17s15	20s44	20s48	24s54			n.a.
T 2	19 11	6 34	4 52	19 0	1 36	7 10	0 33	24 3	0 33	23 43	0 54	11 13	2 21	22 43	0 6	21 53	1 2	23 11	17 15	20 44	20 49	24 53			n.a.
W 3	18 57	12 9	5 13	18 25	1 32	6 39	0 30	24 6	0 34	23 44	0 54	11 13	2 22	22 43	0 6	21 53	1 2	23 11	17 15	20 44	20 49	24 52			n.a.
T 4	18 42	17 2	5 17	17 49	1 29	6 9	0 27	24 9	0 35	23 44	0 54	11 14	2 22	22 43	0 6	21 53	1 2	23 12	17 16	20 44	20 50	24 50			n.a.
F 5	18 27	21 3	5 6	17 12	1 24	5 38	0 24	24 11	0 35	23 45	0 54	11 14	2 22	22 44	0 6	21 53	1 2	23 12	17 16	20 44	20 51	24 49			n.a.
S 6	18 11	24 4	4 41	16 34	1 20	5 7	0 20	24 13	0 36	23 46	0 54	11 15	2 22	22 44	0 6	21 53	1 2	23 13	17 16	20 44	20 51	24 48			n.a.
S 7	17 56	25 56	4 4	15 56	1 15	4 36	0 17	24 15	0 37	23 47	0 54	11 15	2 22	22 44	0 6	21 53	1 2	23 14	17 16	20 44	20 52	24 46			n.a.
M 8	17 40	26 37	3 17	15 17	1 9	4 5	0 13	24 17	0 38	23 47	0 54	11 15	2 23	22 45	0 6	21 53	1 2	23 14	17 16	20 44	20 53	24 45			n.a.
T 9	17 23	26 4	2 22	14 37	1 4	3 33	0 10	24 19	0 38	23 48	0 54	11 16	2 23	22 45	0 6	21 53	1 2	23 15	17 17	20 43	20 53	24 43			n.a.
W10	17 7	24 20	1 21	13 57	0 58	3 2	0 6	24 21	0 39	23 49	0 54	11 16	2 23	22 45	0 6	21 53	1 2	23 15	17 17	20 43	20 54	24 42			n.a.
T 11	16 50	21 32	0 16	13 17	0 52	2 31	0 3	24 22	0 40	23 50	0 54	11 16	2 23	22 46	0 6	21 53	1 2	23 16	17 17	20 43	20 54	24 41			n.a.
F 12	16 33	17 48	0n50	12 36	0 46	1 59	0s 1	24 23	0 41	23 50	0 54	11 16	2 24	22 46	0 6	21 53	1 2	23 16	17 17	20 43	20 55	24 39			n.a.
S 13	16 15	13 19	1 54	11 55	0 39	1 27	0 5	24 24	0 41	23 51	0 54	11 16	2 24	22 46	0 6	21 53	1 2	23 17	17 17	20 43	20 56	24 38			n.a.
S 14	15 58	8 16	2 54	11 14	0 32	0 56	0 9	24 25	0 42	23 51	0 54	11 16	2 24	22 46	0 6	21 53	1 2	23 18	17 18	20 44	20 56	24 36			n.a.
M15	15 40	2 50	3 46	10 32	0 26	0 24	0 12	24 26	0 43	23 52	0 54	11 17	2 24	22 47	0 6	21 53	1 2	23 18	17 18	20 44	20 57	24 35			n.a.
T 16	15 21	2n48	4 29	9 51	0 19	0s 7	0 16	24 26	0 44	23 53	0 54	11 17	2 24	22 47	0 6	21 53	1 2	23 19	17 18	20 45	20 58	24 33			n.a.
W17	15 3	8 23	4 58	9 9	0 11	0 39	0 20	24 26	0 44	23 53	0 54	11 17	2 25	22 47	0 6	21 53	1 2	23 19	17 18	20 45	20 58	24 32			n.a.
T 18	14 44	13 44	5 13	8 27	0 4	1 11	0 24	24 27	0 45	23 54	0 54	11 17	2 25	22 47	0 6	21 53	1 2	23 20	17 18	20 46	20 59	24 31			n.a.
F 19	14 25	18 32	5 12	7 46	0s 3	1 42	0 28	24 27	0 46	23 54	0 54	11 16	2 25	22 48	0 6	21 53	1 2	23 20	17 18	20 46	20 59	24 29			n.a.
S 20	14 6	22 30	4 53	7 4	0 11	2 14	0 32	24 26	0 47	23 55	0 54	11 16	2 25	22 48	0 6	21 53	1 2	23 21	17 18	20 47	21 0	24 28			n.a.
S 21	13 46	25 17	4 17	6 22	0 18	2 46	0 36	24 26	0 47	23 55	0 54	11 16	2 26	22 48	0 6	21 53	1 2	23 21	17 19	20 47	21 1	24 26			n.a.
M22	13 27	26 32	3 25	5 41	0 26	3 17	0 40	24 25	0 48	23 56	0 54	11 16	2 26	22 48	0 6	21 53	1 2	23 22	17 19	20 46	21 1	24 25			n.a.
T 23	13 7	26 1	2 19	5 0	0 34	3 49	0 44	24 25	0 49	23 56	0 54	11 16	2 26	22 49	0 6	21 53	1 2	23 23	17 19	20 46	21 2	24 23			n.a.
W24	12 47	23 42	1 3	4 19	0 41	4 20	0 48	24 24	0 50	23 56	0 54	11 16	2 26	22 49	0 6	21 53	1 2	23 23	17 19	20 46	21 3	24 22			n.a.
T 25	12 26	19 47	0s18	3 38	0 49	4 52	0 53	24 23	0 51	23 57	0 54	11 15	2 26	22 49	0 6	21 53	1 2	23 24	17 19	20 46	21 3	24 20			n.a.
F 26	12 6	14 37	1 37	2 57	0 57	5 23	0 57	24 22	0 51	23 57	0 54	11 15	2 27	22 49	0 6	21 53	1 1	23 24	17 19	20 46	21 4	24 19			n.a.
S 27	11 45	8 38	2 50	2 17	1 5	5 54	1 1	24 20	0 52	23 57	0 54	11 15	2 27	22 49	0 6	21 53	1 1	23 25	17 19	20 46	21 4	24 17			n.a.
S 28	11 24	2 17	3 50	1 38	1 13	6 25	1 5	24 19	0 53	23 58	0 54	11 14	2 27	22 50	0 6	21 53	1 1	23 25	17 19	20 47	21 5	24 16			n.a.
M29	11 3	4s 2	4 35	0 58	1 20	6 56	1 9	24 17	0 54	23 58	0 54	11 14	2 27	22 50	0 6	21 53	1 1	23 26	17 19	20 48	21 6	24 14			n.a.
T 30	10 41	9 58	5 2	0 19	1 28	7 27	1 13	24 15	0 55	23 58	0 54	11 13	2 28	22 50	0 6	21 53	1 1	23 26	17 19	20 49	21 6	24 13			n.a.
W31	10n20	15s15	5s12	0s19	1s36	7s57	1s18	24n13	0n55	23s58	0s54	11n13	2s28	22n50	0n 6	21s53	1n 1	23s27	17s19	20s50	21s 7	24s11			n.a.

Julian Day Number = 1666482.5, Delta T = 03h22m53s
Ecliptic obliquity = 23°42'52, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'37, Lahiri = - 6°01'37 Julian Calendar 1 Aug. 151 BCE == Greg. Calendar 29 July 151 BCE

The year -150 astronomical counting style corresponds to year 151 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 151 BCE
geocentric

SEPTEMBER 151 BCE (-150) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 26 4	4♍30'20	9♏42	28♍26	18♎10	11♋ 1	12°R54	5°R34	13♊56	15♐21	10°R56	27°R44	26♑21	13♑31	n.a.	T 1
F 2	22 30 1	5°29'28	22°16	29°41	19°18	11°37	12♑52	5♉33	13°57	15°21	10♓55	27♑41	26°18	13°38	n.a.	F 2
S 3	22 33 57	6°28'37	4♐32	0♎54	20°26	12°13	12°50	5°31	13°58	15°21	10°54	27°D40	26°15	13°44	n.a.	S 3
S 4	22 37 54	7°27'49	16°33	2° 6	21°35	12°48	12°49	5°30	13°59	15°21	10°53	27°41	26°11	13°51	n.a.	S 4
M 5	22 41 50	8°27'03	28°25	3°16	22°43	13°24	12°47	5°29	14° 0	15°21	10°51	27°42	26° 8	13°58	n.a.	M 5
T 6	22 45 47	9°26'18	10♑13	4°25	23°51	14° 0	12°46	5°27	14° 1	15°22	10°50	27°44	26° 5	14° 4	n.a.	T 6
W 7	22 49 43	10°25'36	22° 2	5°31	24°59	14°35	12°45	5°25	14° 2	15°22	10°49	27°R45	26° 2	14°11	n.a.	W 7
T 8	22 53 40	11°24'55	3♒57	6°35	26° 6	15°11	12°44	5°23	14° 3	15°22	10°48	27°45	25°59	14°18	n.a.	T 8
F 9	22 57 36	12°24'16	15°59	7°37	27°14	15°46	12°43	5°22	14° 4	15°22	10°47	27°43	25°55	14°24	n.a.	F 9
S 10	23 1 33	13°23'39	28°14	8°36	28°21	16°22	12°42	5°20	14° 5	15°23	10°46	27°39	25°52	14°31	n.a.	S 10
S 11	23 5 30	14°23'05	10♓42	9°32	29°29	16°57	12°42	5°18	14° 5	15°23	10°44	27°33	25°49	14°38	n.a.	S 11
M12	23 9 26	15°22'32	23°24	10°25	0♏36	17°32	12°D42	5°15	14° 6	15°23	10°43	27°25	25°46	14°44	n.a.	M12
T 13	23 13 23	16°22'01	6♈21	11°15	1°43	18° 7	12°42	5°13	14° 7	15°24	10°42	27°17	25°43	14°51	n.a.	T 13
W14	23 17 19	17°21'33	19°30	12° 2	2°49	18°43	12°42	5°11	14° 7	15°24	10°41	27° 8	25°40	14°57	n.a.	W14
T 15	23 21 16	18°21'07	2♉53	12°44	3°56	19°17	12°43	5° 8	14° 8	15°25	10°40	27° 0	25°36	15° 4	n.a.	T 15
F 16	23 25 12	19°20'44	16°26	13°22	5° 3	19°52	12°43	5° 6	14° 8	15°25	10°39	26°54	25°33	15°11	n.a.	F 16
S 17	23 29 9	20°20'22	0♊10	13°54	6° 9	20°27	12°44	5° 3	14° 8	15°26	10°37	26°49	25°30	15°17	n.a.	S 17
S 18	23 33 5	21°20'04	14° 2	14°22	7°15	21° 2	12°45	5° 0	14° 9	15°26	10°36	26°48	25°27	15°24	n.a.	S 18
M19	23 37 2	22°19'47	28° 4	14°44	8°21	21°37	12°47	4°57	14° 9	15°27	10°35	26°D47	25°24	15°31	n.a.	M19
T 20	23 40 59	23°19'34	12♋14	14°59	9°27	22°11	12°48	4°54	14° 9	15°27	10°34	26°48	25°21	15°37	n.a.	T 20
W21	23 44 55	24°19'22	26°30	15° 8	10°32	22°46	12°50	4°51	14° 9	15°28	10°33	26°R49	25°17	15°44	n.a.	W21
T 22	23 48 52	25°19'13	10♌51	15°R 9	11°38	23°20	12°52	4°48	14° 9	15°29	10°32	26°48	25°14	15°51	n.a.	T 22
F 23	23 52 48	26°19'06	25°14	15° 2	12°43	23°54	12°54	4°45	14°R 9	15°30	10°31	26°45	25°11	15°57	n.a.	F 23
S 24	23 56 45	27°19'01	9♍34	14°46	13°48	24°29	12°56	4°41	14° 9	15°30	10°29	26°39	25° 8	16° 4	n.a.	S 24
S 25	0 0 41	28°18'58	23°45	14°22	14°53	25° 3	12°58	4°38	14° 9	15°31	10°28	26°31	25° 5	16°11	n.a.	S 25
M26	0 4 38	29°18'58	7♎43	13°48	15°57	25°37	13° 1	4°34	14° 9	15°32	10°27	26°21	25° 1	16°17	n.a.	M26
T 27	0 8 34	0♎18'59	21°22	13° 6	17° 2	26°11	13° 4	4°31	14° 9	15°33	10°26	26° 9	24°58	16°24	n.a.	T 27
W28	0 12 31	1°19'02	4♏40	12°14	18° 6	26°44	13° 7	4°27	14° 9	15°34	10°25	25°59	24°55	16°31	n.a.	W28
T 29	0 16 27	2°19'07	17°36	11°15	19°10	27°18	13°10	4°23	14° 9	15°35	10°24	25°49	24°52	16°37	n.a.	T 29
F 30	0 20 24	3♎19'14	0♐11	10♎ 8	20♏13	27♋52	13♑13	4♉20	14♊ 8	15♐36	10♓23	25♑42	24♑49	16♑44	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n58	19s42	5s 5	0s57	1s43	8s28	1s22	24n11	0n56	23s59	0s54	11n12	2s28	22n50	0n 6	21s53	1n 1	23s27	17s19	20s51	21s 7	24s10		n.a.
F 2	9 36	23 7	4 44	1 34	1 51	8 58	1 26	24 9	0 57	23 59	0 54	11 12	2 28	22 50	0 6	21 53	1 1	23 28	17 19	20 52	21 8	24 8		n.a.
S 3	9 14	25 23	4 10	2 10	1 58	9 28	1 30	24 6	0 58	23 59	0 54	11 11	2 28	22 51	0 6	21 53	1 1	23 28	17 20	20 52	21 9	24 6		n.a.
S 4	8 52	26 26	3 25	2 45	2 5	9 58	1 35	24 4	0 59	23 59	0 54	11 10	2 29	22 51	0 6	21 53	1 1	23 29	17 20	20 52	21 9	24 5		n.a.
M 5	8 30	26 15	2 33	3 20	2 12	10 28	1 39	24 1	0 59	23 59	0 54	11 10	2 29	22 51	0 6	21 53	1 1	23 29	17 20	20 52	21 10	24 3		n.a.
T 6	8 7	24 53	1 34	3 54	2 19	10 57	1 43	23 58	1 0	23 59	0 54	11 9	2 29	22 51	0 6	21 53	1 1	23 30	17 20	20 51	21 11	24 2		n.a.
W 7	7 45	22 24	0 31	4 27	2 26	11 26	1 47	23 55	1 1	23 59	0 54	11 8	2 29	22 51	0 6	21 53	1 1	23 30	17 20	20 51	21 11	24 0		n.a.
T 8	7 22	18 57	0n34	4 58	2 33	11 55	1 51	23 52	1 2	23 59	0 54	11 8	2 29	22 51	0 6	21 54	1 1	23 31	17 20	20 51	21 12	23 59		n.a.
F 9	6 59	14 41	1 37	5 29	2 39	12 24	1 56	23 48	1 3	23 59	0 54	11 7	2 29	22 51	0 6	21 54	1 1	23 31	17 20	20 51	21 12	23 57		n.a.
S 10	6 36	9 46	2 37	5 58	2 45	12 52	2 0	23 45	1 3	23 59	0 54	11 6	2 30	22 51	0 6	21 54	1 1	23 32	17 20	20 52	21 13	23 55		n.a.
S 11	6 13	4 23	3 31	6 25	2 50	13 21	2 4	23 41	1 4	23 59	0 54	11 5	2 30	22 51	0 6	21 54	1 1	23 32	17 20	20 53	21 14	23 54		n.a.
M12	5 50	1n15	4 15	6 51	2 56	13 48	2 8	23 37	1 5	23 59	0 54	11 4	2 30	22 52	0 6	21 54	1 1	23 33	17 20	20 55	21 14	23 52		n.a.
T 13	5 26	6 55	4 47	7 16	3 0	14 16	2 12	23 34	1 6	23 59	0 54	11 3	2 30	22 52	0 6	21 54	1 1	23 33	17 20	20 57	21 15	23 51		n.a.
W14	5 3	12 24	5 4	7 38	3 5	14 43	2 16	23 30	1 7	23 59	0 54	11 2	2 30	22 52	0 6	21 54	1 1	23 33	17 19	20 58	21 15	23 49		n.a.
T 15	4 39	17 22	5 5	7 58	3 8	15 10	2 20	23 25	1 8	23 59	0 53	11 1	2 31	22 52	0 6	21 54	1 1	23 34	17 19	21 0	21 16	23 47		n.a.
F 16	4 16	21 33	4 49	8 16	3 12	15 37	2 24	23 21	1 8	23 59	0 53	11 0	2 31	22 52	0 6	21 54	1 1	23 34	17 19	21 1	21 16	23 46		n.a.
S 17	3 52	24 36	4 17	8 31	3 14	16 3	2 28	23 17	1 9	23 59	0 53	10 59	2 31	22 52	0 6	21 54	1 0	23 35	17 19	21 2	21 17	23 44		n.a.
S 18	3 28	26 12	3 29	8 44	3 16	16 29	2 32	23 12	1 10	23 59	0 53	10 58	2 31	22 52	0 6	21 54	1 0	23 35	17 19	21 2	21 18	23 42		n.a.
M19	3 5	26 10	2 28	8 53	3 16	16 54	2 36	23 8	1 11	23 59	0 53	10 57	2 31	22 52	0 6	21 55	1 0	23 35	17 19	21 2	21 18	23 41		n.a.
T 20	2 41	24 26	1 17	8 59	3 16	17 19	2 40	23 3	1 12	23 58	0 53	10 56	2 31	22 52	0 6	21 55	1 0	23 36	17 19	21 2	21 19	23 39		n.a.
W21	2 17	21 7	0 2	9 1	3 15	17 44	2 44	22 58	1 13	23 58	0 53	10 55	2 32	22 52	0 6	21 55	1 0	23 36	17 19	21 2	21 19	23 38		n.a.
T 22	1 53	16 31	1s14	8 59	3 12	18 9	2 47	22 53	1 14	23 58	0 53	10 53	2 32	22 52	0 6	21 55	1 0	23 37	17 19	21 2	21 20	23 36		n.a.
F 23	1 29	10 58	2 26	8 52	3 8	18 32	2 51	22 48	1 14	23 58	0 53	10 52	2 32	22 52	0 6	21 55	1 0	23 37	17 19	21 3	21 21	23 34		n.a.
S 24	1 5	4 52	3 28	8 41	3 3	18 56	2 54	22 42	1 15	23 57	0 53	10 51	2 32	22 52	0 6	21 55	1 0	23 37	17 19	21 4	21 21	23 33		n.a.
S 25	0 41	1s24	4 16	8 25	2 56	19 19	2 58	22 37	1 16	23 57	0 53	10 50	2 32	22 52	0 6	21 55	1 0	23 38	17 19	21 6	21 22	23 31		n.a.
M26	0 16	7 29	4 48	8 4	2 47	19 42	3 1	22 32	1 17	23 57	0 53	10 48	2 32	22 52	0 7	21 55	1 0	23 38	17 19	21 8	21 22	23 29		n.a.
T 27	0s 8	13 5	5 2	7 38	2 37	20 4	3 5	22 26	1 18	23 56	0 53	10 47	2 32	22 52	0 7	21 56	1 0	23 38	17 18	21 10	21 23	23 27		n.a.
W28	0 32	17 55	5 0	7 6	2 24	20 25	3 8	22 20	1 19	23 56	0 53	10 46	2 32	22 52	0 7	21 56	1 0	23 39	17 18	21 12	21 24	23 26		n.a.
T 29	0 56	21 47	4 42	6 29	2 10	20 47	3 11	22 15	1 20	23 56	0 53	10 44	2 33	22 52	0 7	21 56	1 0	23 39	17 18	21 13	21 24	23 24		n.a.
F 30	1s20	24s30	4s11	5s48	1s54	21s 7	3s15	22n 9	1n21	23s55	0s53	10n43	2s33	22n52	0n 7	21s56	1n 0	23s39	17s18	21s15	21s25	23s22		n.a.

Julian Day Number = 1666513.5, Delta T = 03h22m52s
Ecliptic obliquity = 23°42'53, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'33, Lahiri = - 6°01'33 Julian Calendar 1 Sept. 151 BCE == Greg. Calendar 29 Aug. 151 BCE

The year -150 astronomical counting style corresponds to year 151 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 151 BCE
geocentric

OCTOBER 151 BCE (-150) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 24 21	4♎19'23	12♐27	8°R56	21♏17	28♋25	13♑17	4°R16	14°R 8	15♐37	10°R22	25°R37	24♑46	16♑50	n.a.	S 1
S 2	0 28 17	5°19'33	24°29	7♎39	22°20	28°59	13°21	4♉12	14♊ 7	15°38	10♓21	25♑35	24°42	16°57	n.a.	S 2
M 3	0 32 14	6°19'45	6♑21	6°21	23°23	29°32	13°25	4° 8	14° 7	15°39	10°20	25°D34	24°39	17° 4	n.a.	M 3
T 4	0 36 10	7°19'59	18° 9	5° 4	24°25	0♌ 5	13°29	4° 4	14° 6	15°40	10°19	25°35	24°36	17°10	n.a.	T 4
W 5	0 40 7	8°20'14	29°58	3°50	25°27	0°38	13°33	3°59	14° 6	15°41	10°18	25°R35	24°33	17°17	n.a.	W 5
T 6	0 44 3	9°20'31	11♒54	2°42	26°29	1°11	13°38	3°55	14° 5	15°42	10°17	25°33	24°30	17°24	n.a.	T 6
F 7	0 48 0	10°20'49	24° 2	1°41	27°31	1°44	13°43	3°51	14° 4	15°43	10°16	25°30	24°27	17°30	n.a.	F 7
S 8	0 51 56	11°21'09	6♓25	0°49	28°32	2°17	13°48	3°47	14° 4	15°44	10°15	25°24	24°23	17°37	n.a.	S 8
S 9	0 55 53	12°21'30	19° 6	0° 8	29°33	2°49	13°53	3°42	14° 3	15°46	10°14	25°15	24°20	17°44	n.a.	S 9
M10	0 59 50	13°21'54	2♈ 6	29♍38	0♐33	3°22	13°58	3°38	14° 2	15°47	10°13	25° 4	24°17	17°50	n.a.	M10
T 11	1 3 46	14°22'19	15°25	29°20	1°33	3°54	14° 3	3°33	14° 1	15°48	10°12	24°51	24°14	17°57	n.a.	T 11
W12	1 7 43	15°22'45	29° 0	29°D14	2°33	4°27	14° 9	3°29	14° 0	15°49	10°11	24°38	24°11	18° 4	n.a.	W12
T 13	1 11 39	16°23'14	12♉48	29°19	3°32	4°59	14°15	3°24	13°59	15°51	10°10	24°27	24° 7	18°10	n.a.	T 13
F 14	1 15 36	17°23'44	26°46	29°35	4°31	5°31	14°21	3°19	13°58	15°52	10° 9	24°17	24° 4	18°17	n.a.	F 14
S 15	1 19 32	18°24'17	10♊50	0♎ 0	5°30	6° 3	14°27	3°15	13°57	15°54	10° 8	24°10	24° 1	18°23	n.a.	S 15
S 16	1 23 29	19°24'51	24°56	0°34	6°27	6°35	14°33	3°10	13°56	15°55	10° 7	24° 6	23°58	18°30	n.a.	S 16
M17	1 27 25	20°25'27	9♋ 2	1°17	7°25	7° 6	14°39	3° 5	13°55	15°56	10° 6	24° 5	23°55	18°37	n.a.	M17
T 18	1 31 22	21°26'05	23° 7	2° 7	8°22	7°38	14°46	3° 1	13°53	15°58	10° 5	24° 4	23°52	18°43	n.a.	T 18
W19	1 35 19	22°26'45	7♌11	3° 3	9°18	8° 9	14°53	2°56	13°52	15°59	10° 5	24° 4	23°48	18°50	n.a.	W19
T 20	1 39 15	23°27'27	21°12	4° 4	10°14	8°40	15° 0	2°51	13°51	16° 1	10° 4	24° 2	23°45	18°57	n.a.	T 20
F 21	1 43 12	24°28'11	5♍10	5°11	11°10	9°12	15° 7	2°46	13°49	16° 2	10° 3	23°58	23°42	19° 3	n.a.	F 21
S 22	1 47 8	25°28'56	19° 2	6°22	12° 5	9°43	15°14	2°41	13°48	16° 4	10° 2	23°51	23°39	19°10	n.a.	S 22
S 23	1 51 5	26°29'42	2♎48	7°36	12°59	10°13	15°21	2°36	13°46	16° 6	10° 1	23°41	23°36	19°17	n.a.	S 23
M24	1 55 1	27°30'31	16°22	8°53	13°52	10°44	15°29	2°31	13°45	16° 7	10° 1	23°29	23°32	19°23	n.a.	M24
T 25	1 58 58	28°31'21	29°42	10°13	14°45	11°15	15°37	2°26	13°43	16° 9	10° 0	23°15	23°29	19°30	n.a.	T 25
W26	2 2 54	29°32'12	12♏47	11°35	15°38	11°45	15°45	2°21	13°42	16°11	9°59	23° 2	23°26	19°37	n.a.	W26
T 27	2 6 51	0♏33'04	25°34	12°59	16°29	12°15	15°53	2°16	13°40	16°12	9°59	22°50	23°23	19°43	n.a.	T 27
F 28	2 10 48	1°33'58	8♐ 3	14°24	17°20	12°45	16° 1	2°11	13°38	16°14	9°58	22°40	23°20	19°50	n.a.	F 28
S 29	2 14 44	2°34'53	20°16	15°51	18°11	13°15	16° 9	2° 6	13°37	16°16	9°57	22°33	23°17	19°57	n.a.	S 29
S 30	2 18 41	3°35'49	2♑17	17°19	19° 0	13°45	16°18	2° 1	13°35	16°18	9°57	22°29	23°13	20° 3	n.a.	S 30
M31	2 22 37	4♏36'46	14♑ 8	18♎48	19♐48	14♌14	16♑26	1♉56	13♊33	16♐19	9♓56	22♑27	23♑10	20♑10	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	1 s44	26 s 0	3 s28	5 s 3	1 s36	21 s28	3 s18	22n 3	1n22	23 s55	0 s53	10n41	2 s33	22n52	0n 7	21 s56	1n 0	23 s39	17 s18	21 s16	21 s25	23 s21		n.a.	S 1
S 2	2 8	26 13	2 38	4 15	1 17	21 47	3 21	21 57	1 23	23 54	0 53	10 40	2 33	22 52	0 7	21 56	1 0	23 40	17 18	21 16	21 26	23 19		n.a.	S 2
M 3	2 32	25 14	1 41	3 25	0 57	22 7	3 23	21 51	1 24	23 54	0 52	10 39	2 33	22 52	0 7	21 56	1 0	23 40	17 18	21 16	21 26	23 17		n.a.	M 3
T 4	2 57	23 7	0 39	2 36	0 36	22 25	3 26	21 44	1 24	23 53	0 52	10 37	2 33	22 52	0 7	21 57	1 0	23 40	17 17	21 16	21 27	23 16		n.a.	T 4
W 5	3 21	20 1	0n23	1 47	0 16	22 43	3 29	21 38	1 25	23 53	0 52	10 36	2 33	22 52	0 7	21 57	1 0	23 41	17 17	21 16	21 28	23 14		n.a.	W 5
T 6	3 45	16 3	1 26	1 1	0n 5	23 1	3 32	21 32	1 26	23 52	0 52	10 34	2 33	22 52	0 7	21 57	1 0	23 41	17 17	21 16	21 28	23 12		n.a.	T 6
F 7	4 9	11 23	2 25	0 18	0 24	23 18	3 34	21 25	1 27	23 52	0 52	10 33	2 33	22 52	0 7	21 57	1 0	23 41	17 17	21 17	21 29	23 10		n.a.	F 7
S 8	4 32	6 11	3 19	0n19	0 43	23 34	3 36	21 19	1 28	23 51	0 52	10 31	2 33	22 52	0 7	21 57	1 0	23 41	17 17	21 18	21 29	23 9		n.a.	S 8
S 9	4 56	0 38	4 4	0 52	1 0	23 50	3 39	21 12	1 29	23 51	0 52	10 30	2 33	22 52	0 7	21 57	1 0	23 41	17 16	21 20	21 30	23 7		n.a.	S 9
M10	5 20	5n 4	4 37	1 18	1 15	24 6	3 41	21 5	1 30	23 50	0 52	10 28	2 34	22 52	0 7	21 58	0 59	23 42	17 16	21 22	21 30	23 5		n.a.	M10
T 11	5 44	10 41	4 56	1 38	1 29	24 20	3 43	20 58	1 31	23 49	0 52	10 26	2 34	22 51	0 7	21 58	0 59	23 42	17 16	21 24	21 31	23 3		n.a.	T 11
W12	6 7	15 54	5 0	1 51	1 41	24 35	3 45	20 52	1 32	23 49	0 52	10 25	2 34	22 51	0 7	21 58	0 59	23 42	17 16	21 27	21 31	23 2		n.a.	W12
T 13	6 31	20 23	4 45	1 58	1 51	24 48	3 46	20 45	1 33	23 48	0 52	10 23	2 34	22 51	0 7	21 58	0 59	23 42	17 16	21 29	21 32	23 0		n.a.	T 13
F 14	6 54	23 46	4 14	2 0	2 0	25 1	3 48	20 38	1 34	23 47	0 52	10 22	2 34	22 51	0 7	21 58	0 59	23 42	17 15	21 30	21 33	22 58		n.a.	F 14
S 15	7 18	25 45	3 27	1 56	2 6	25 14	3 49	20 31	1 35	23 47	0 52	10 20	2 34	22 51	0 7	21 58	0 59	23 42	17 15	21 32	21 33	22 56		n.a.	S 15
S 16	7 41	26 4	2 28	1 47	2 12	25 25	3 51	20 23	1 36	23 46	0 52	10 18	2 34	22 51	0 7	21 59	0 59	23 43	17 15	21 32	21 34	22 54		n.a.	S 16
M17	8 4	24 43	1 19	1 33	2 15	25 36	3 52	20 16	1 37	23 45	0 52	10 17	2 34	22 51	0 7	21 59	0 59	23 43	17 15	21 33	21 34	22 53		n.a.	M17
T 18	8 27	21 47	0 5	1 15	2 18	25 47	3 53	20 9	1 38	23 44	0 52	10 15	2 34	22 51	0 7	21 59	0 59	23 43	17 14	21 33	21 35	22 51		n.a.	T 18
W19	8 50	17 35	1 s 9	0 54	2 19	25 57	3 54	20 2	1 39	23 44	0 52	10 13	2 34	22 50	0 7	21 59	0 59	23 43	17 14	21 33	21 35	22 49		n.a.	W19
T 20	9 13	12 25	2 18	0 29	2 19	26 6	3 54	19 55	1 40	23 43	0 51	10 12	2 34	22 50	0 7	21 59	0 59	23 43	17 14	21 33	21 36	22 47		n.a.	T 20
F 21	9 35	6 39	3 19	0 2	2 18	26 15	3 55	19 47	1 41	23 42	0 51	10 10	2 34	22 50	0 7	22 0	0 59	23 43	17 14	21 34	21 37	22 45		n.a.	F 21
S 22	9 58	0 36	4 7	0 s28	2 17	26 23	3 55	19 40	1 42	23 41	0 51	10 8	2 34	22 50	0 7	22 0	0 59	23 43	17 13	21 35	21 37	22 44		n.a.	S 22
S 23	10 20	5 s24	4 41	0 59	2 15	26 30	3 55	19 32	1 43	23 40	0 51	10 7	2 34	22 50	0 7	22 0	0 59	23 43	17 13	21 37	21 38	22 42		n.a.	S 23
M24	10 42	11 5	4 58	1 33	2 12	26 37	3 55	19 25	1 44	23 39	0 51	10 5	2 34	22 50	0 7	22 0	0 59	23 43	17 13	21 39	21 38	22 40		n.a.	M24
T 25	11 4	16 8	4 58	2 8	2 8	26 43	3 55	19 17	1 45	23 38	0 51	10 3	2 34	22 49	0 7	22 0	0 59	23 43	17 13	21 41	21 39	22 38		n.a.	T 25
W26	11 26	20 20	4 43	2 44	2 4	26 49	3 55	19 10	1 47	23 37	0 51	10 2	2 34	22 49	0 7	22 1	0 59	23 43	17 12	21 43	21 39	22 36		n.a.	W26
T 27	11 48	23 28	4 13	3 21	1 59	26 54	3 54	19 2	1 48	23 36	0 51	10 0	2 34	22 49	0 7	22 1	0 59	23 43	17 12	21 45	21 40	22 34		n.a.	T 27
F 28	12 9	25 23	3 32	3 59	1 54	26 58	3 53	18 55	1 49	23 35	0 51	9 58	2 34	22 49	0 7	22 1	0 59	23 43	17 12	21 47	21 40	22 32		n.a.	F 28
S 29	12 30	26 2	2 42	4 38	1 49	27 2	3 52	18 47	1 50	23 34	0 51	9 57	2 34	22 49	0 7	22 1	0 59	23 43	17 11	21 48	21 41	22 31		n.a.	S 29
S 30	12 52	25 27	1 45	5 17	1 43	27 5	3 51	18 40	1 51	23 33	0 51	9 55	2 33	22 49	0 7	22 2	0 59	23 43	17 11	21 49	21 41	22 29		n.a.	S 30
M31	13 s12	23 s41	0 s44	5 s57	1n37	27 s 8	3 s49	18n32	1n52	23 s32	0 s51	9n53	2 s33	22n48	0n 7	22 s 2	0n59	23 s43	17 s11	21 s49	21 s42	22 s27		n.a.	M31

Julian Day Number = 1666543.5, Delta T = 03h22m52s
Ecliptic obliquity = 23°42'53, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'29, Lahiri = - 6°01'29 Julian Calendar 1 Oct. 151 BCE == Greg. Calendar 28 Sept. 151 BCE

The year -150 astronomical counting style corresponds to year 151 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 151 BCE
geocentric

NOVEMBER 151 BCE (-150) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 26 34	5♏37'44	25♉55	20♎17	20♐36	14♌44	16♉35	1°R52	13°R31	16♐21	9°R55	22°D27	23♉ 7	20♉16	n.a.	T 1
W 2	2 30 30	6°38'42	7♒44	21°48	21°23	15°13	16°44	1♉47	13♊29	16°23	9♓55	22°R27	23° 4	20°23	n.a.	W 2
T 3	2 34 27	7°39'42	19°39	23°18	22° 9	15°42	16°53	1°42	13°27	16°25	9°54	22♉27	23° 1	20°30	n.a.	T 3
F 4	2 38 23	8°40'42	1♓47	24°50	22°54	16°11	17° 2	1°37	13°25	16°27	9°54	22°24	22°58	20°36	n.a.	F 4
S 5	2 42 20	9°41'43	14°12	26°21	23°37	16°39	17°11	1°32	13°23	16°29	9°53	22°19	22°54	20°43	n.a.	S 5
S 6	2 46 17	10°42'45	26°59	27°53	24°20	17° 8	17°21	1°27	13°21	16°31	9°53	22°12	22°51	20°50	n.a.	S 6
M 7	2 50 13	11°43'47	10♈ 9	29°25	25° 2	17°36	17°30	1°22	13°19	16°33	9°52	22° 2	22°48	20°56	n.a.	M 7
T 8	2 54 10	12°44'51	23°43	0♏57	25°42	18° 4	17°40	1°17	13°17	16°34	9°52	21°51	22°45	21° 3	n.a.	T 8
W 9	2 58 6	13°45'55	7♉38	2°30	26°21	18°32	17°49	1°12	13°15	16°36	9°51	21°39	22°42	21°10	n.a.	W 9
T 10	3 2 3	14°47'00	21°52	4° 2	27° 0	18°59	17°59	1° 8	13°13	16°38	9°51	21°28	22°38	21°16	n.a.	T 10
F 11	3 5 59	15°48'06	6♊18	5°35	27°36	19°27	18° 9	1° 3	13°11	16°40	9°51	21°19	22°35	21°23	n.a.	F 11
S 12	3 9 56	16°49'13	20°49	7° 8	28°12	19°54	18°20	0°58	13° 9	16°42	9°50	21°13	22°32	21°30	n.a.	S 12
S 13	3 13 52	17°50'20	5♋19	8°41	28°46	20°21	18°30	0°54	13° 6	16°45	9°50	21°10	22°29	21°36	n.a.	S 13
M14	3 17 49	18°51'29	19°44	10°14	29°18	20°48	18°40	0°49	13° 4	16°47	9°50	21°D 9	22°26	21°43	n.a.	M14
T 15	3 21 46	19°52'39	4♌ 0	11°47	29°49	21°14	18°51	0°44	13° 2	16°49	9°49	21° 9	22°23	21°50	n.a.	T 15
W16	3 25 42	20°53'49	18° 5	13°21	0♉18	21°41	19° 1	0°40	12°59	16°51	9°49	21°R10	22°19	21°56	n.a.	W16
T 17	3 29 39	21°55'01	2♍ 0	14°54	0°46	22° 7	19°12	0°36	12°57	16°53	9°49	21° 9	22°16	22° 3	n.a.	T 17
F 18	3 33 35	22°56'13	15°43	16°28	1°12	22°33	19°23	0°31	12°55	16°55	9°48	21° 7	22°13	22° 9	n.a.	F 18
S 19	3 37 32	23°57'26	29°14	18° 1	1°37	22°58	19°34	0°27	12°52	16°57	9°48	21° 2	22°10	22°16	n.a.	S 19
S 20	3 41 28	24°58'40	12♎35	19°35	1°59	23°23	19°45	0°22	12°50	16°59	9°48	20°55	22° 7	22°23	n.a.	S 20
M21	3 45 25	25°59'54	25°44	21° 9	2°20	23°48	19°56	0°18	12°47	17° 1	9°48	20°45	22° 4	22°29	n.a.	M21
T 22	3 49 21	27° 1'09	8♏41	22°43	2°38	24°13	20° 7	0°14	12°45	17° 3	9°48	20°35	22° 0	22°36	n.a.	T 22
W23	3 53 18	28° 2'25	21°26	24°18	2°55	24°38	20°18	0°10	12°42	17° 6	9°48	20°25	21°57	22°43	n.a.	W23
T 24	3 57 15	29° 3'41	3♐57	25°52	3° 9	25° 2	20°30	0° 6	12°40	17° 8	9°48	20°16	21°54	22°49	n.a.	T 24
F 25	4 1 11	0♐ 4'57	16°15	27°27	3°22	25°26	20°41	0° 2	12°37	17°10	9°48	20° 8	21°51	22°56	n.a.	F 25
S 26	4 5 8	1° 6'13	28°21	29° 2	3°32	25°50	20°53	29♈58	12°35	17°12	9°47	20° 3	21°48	23° 3	n.a.	S 26
S 27	4 9 4	2° 7'30	10♉17	0♐37	3°40	26°13	21° 5	29°54	12°32	17°14	9°D47	20° 1	21°44	23° 9	n.a.	S 27
M28	4 13 1	3° 8'46	22° 7	2°13	3°45	26°36	21°17	29°51	12°30	17°17	9°47	20°D 0	21°41	23°16	n.a.	M28
T 29	4 16 57	4°10'03	3♒53	3°49	3°48	26°59	21°28	29°47	12°27	17°19	9°48	20° 1	21°38	23°23	n.a.	T 29
W30	4 20 54	5♐11'19	15♒40	5♐25	3°R49	27♌21	21♉40	29♈43	12♊25	17♐21	9♓48	20♉ 2	21♉35	23♉29	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s33	20s54	0n18	6s37	1n31	27s10	3s48	18n24	1n53	23s31	0s51	9n52	2s33	22n48	0n 7	22s 2	0n59	23s43	17s10	21s49	21s43	22s25		n.a.
W 2	13 53	17 15	1 20	7 17	1 25	27 11	3 46	18 17	1 54	23 30	0 51	9 50	2 33	22 48	0 7	22 2	0 59	23 43	17 10	21 49	21 43	22 23		n.a.
T 3	14 13	12 53	2 19	7 56	1 19	27 12	3 43	18 9	1 55	23 28	0 51	9 48	2 33	22 48	0 7	22 2	0 59	23 43	17 10	21 49	21 44	22 21		n.a.
F 4	14 33	7 58	3 13	8 36	1 12	27 12	3 41	18 1	1 57	23 27	0 51	9 47	2 33	22 47	0 7	22 3	0 59	23 43	17 10	21 50	21 44	22 19		n.a.
S 5	14 53	2 37	3 59	9 16	1 5	27 11	3 38	17 54	1 58	23 26	0 51	9 45	2 33	22 47	0 7	22 3	0 59	23 43	17 9	21 50	21 45	22 17		n.a.
S 6	15 12	2n58	4 34	9 56	0 59	27 10	3 35	17 46	1 59	23 25	0 51	9 44	2 33	22 47	0 7	22 3	0 59	23 43	17 9	21 52	21 45	22 16		n.a.
M 7	15 32	8 35	4 56	10 35	0 52	27 9	3 32	17 38	2 0	23 23	0 51	9 42	2 33	22 47	0 7	22 3	0 59	23 43	17 9	21 53	21 46	22 14		n.a.
T 8	15 51	13 58	5 2	11 14	0 45	27 6	3 28	17 31	2 1	23 22	0 51	9 40	2 33	22 46	0 7	22 4	0 58	23 43	17 8	21 55	21 46	22 12		n.a.
W 9	16 9	18 47	4 51	11 53	0 38	27 4	3 24	17 23	2 3	23 21	0 51	9 39	2 33	22 46	0 7	22 4	0 58	23 42	17 8	21 57	21 47	22 10		n.a.
T 10	16 27	22 39	4 21	12 31	0 31	27 0	3 20	17 16	2 4	23 19	0 50	9 37	2 32	22 46	0 7	22 4	0 58	23 42	17 8	21 59	21 47	22 8		n.a.
F 11	16 45	25 8	3 35	13 9	0 24	26 57	3 15	17 8	2 5	23 18	0 50	9 36	2 32	22 46	0 7	22 4	0 58	23 42	17 7	22 0	21 48	22 6		n.a.
S 12	17 3	25 57	2 34	13 47	0 17	26 52	3 10	17 0	2 6	23 17	0 50	9 34	2 32	22 45	0 7	22 4	0 58	23 42	17 7	22 1	21 48	22 4		n.a.
S 13	17 21	25 0	1 23	14 24	0 10	26 48	3 5	16 53	2 7	23 15	0 50	9 33	2 32	22 45	0 7	22 5	0 58	23 42	17 7	22 2	21 49	22 2		n.a.
M14	17 38	22 22	0 8	15 0	0 4	26 42	2 59	16 45	2 9	23 14	0 50	9 31	2 32	22 45	0 7	22 5	0 58	23 42	17 6	22 2	21 49	22 0		n.a.
T 15	17 55	18 22	1s 8	15 36	0s 3	26 36	2 54	16 38	2 10	23 12	0 50	9 30	2 32	22 45	0 7	22 5	0 58	23 41	17 6	22 2	21 50	21 58		n.a.
W16	18 11	13 23	2 19	16 11	0 10	26 30	2 47	16 31	2 11	23 11	0 50	9 28	2 31	22 44	0 7	22 5	0 58	23 41	17 6	22 2	21 50	21 56		n.a.
T 17	18 27	7 46	3 20	16 45	0 17	26 23	2 41	16 23	2 13	23 9	0 50	9 27	2 31	22 44	0 7	22 6	0 58	23 41	17 5	22 2	21 51	21 54		n.a.
F 18	18 43	1 52	4 9	17 19	0 23	26 16	2 33	16 16	2 14	23 7	0 50	9 26	2 31	22 44	0 7	22 6	0 58	23 41	17 5	22 2	21 52	21 52		n.a.
S 19	18 59	4s 2	4 44	17 52	0 29	26 8	2 26	16 9	2 15	23 6	0 50	9 24	2 31	22 43	0 7	22 6	0 58	23 40	17 4	22 3	21 52	21 50		n.a.
S 20	19 14	9 39	5 2	18 24	0 36	26 0	2 18	16 1	2 17	23 4	0 50	9 23	2 31	22 43	0 7	22 6	0 58	23 40	17 4	22 4	21 53	21 48		n.a.
M21	19 29	14 46	5 4	18 56	0 42	25 52	2 10	15 54	2 18	23 2	0 50	9 22	2 31	22 43	0 7	22 6	0 58	23 40	17 4	22 5	21 53	21 47		n.a.
T 22	19 43	19 8	4 51	19 26	0 48	25 42	2 1	15 47	2 19	23 1	0 50	9 20	2 30	22 42	0 7	22 7	0 58	23 40	17 3	22 7	21 54	21 45		n.a.
W23	19 57	22 32	4 22	19 56	0 54	25 33	1 52	15 40	2 21	22 59	0 50	9 19	2 30	22 42	0 7	22 7	0 58	23 39	17 3	22 9	21 54	21 43		n.a.
T 24	20 11	24 49	3 42	20 25	1 0	25 23	1 43	15 33	2 22	22 57	0 50	9 18	2 30	22 42	0 7	22 7	0 58	23 39	17 3	22 10	21 55	21 41		n.a.
F 25	20 24	25 50	2 52	20 53	1 5	25 13	1 33	15 26	2 23	22 55	0 50	9 17	2 30	22 42	0 7	22 7	0 58	23 39	17 2	22 11	21 55	21 39		n.a.
S 26	20 37	25 36	1 54	21 19	1 11	25 2	1 22	15 19	2 25	22 54	0 50	9 15	2 30	22 41	0 7	22 8	0 58	23 38	17 2	22 12	21 56	21 37		n.a.
S 27	20 49	24 11	0 52	21 45	1 16	24 51	1 11	15 13	2 26	22 52	0 50	9 14	2 29	22 41	0 7	22 8	0 58	23 38	17 2	22 12	21 56	21 35		n.a.
M28	21 2	21 41	0n11	22 10	1 21	24 40	1 0	15 6	2 28	22 50	0 50	9 13	2 29	22 41	0 7	22 8	0 58	23 38	17 1	22 12	21 57	21 33		n.a.
T 29	21 13	18 18	1 15	22 34	1 26	24 28	0 48	14 59	2 29	22 48	0 50	9 12	2 29	22 40	0 7	22 8	0 58	23 37	17 1	22 12	21 57	21 31		n.a.
W30	21s25	14s11	2n15	22s56	1s31	24s16	0s36	14n53	2n30	22s46	0s50	9n11	2s29	22n40	0n 7	22s 9	0n58	23s37	17s 0	22s12	21s58	21s29		n.a.

Julian Day Number = 1666574.5, Delta T = 03h22m51s
Ecliptic obliquity = 23°42'52, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'25, Lahiri = - 6°01'24 Julian Calendar 1 Nov. 151 BCE == Greg. Calendar 29 Oct. 151 BCE

The year -150 astronomical counting style corresponds to year 151 B.C.E historical counting style.

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ASTRODIENST EPHEMERIS for the year 151 BCE
geocentric

DECEMBER 151 BCE (-150) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 24 51	6♐12'35	27♒34	7♐ 1	3°R47	27♌43	21♑53	29°R40	12°R22	17♐23	9♓48	20♑ 4	21♑32	23♑36	n.a.	T 1
F 2	4 28 47	7°13'50	9♓39	8°38	3♑43	28° 5	22° 5	29♈36	12♊20	17°26	9°48	20°R 4	21°29	23°42	n.a.	F 2
S 3	4 32 44	8°15'06	22° 2	10°15	3°36	28°26	22°17	29°33	12°17	17°28	9°48	20° 3	21°25	23°49	n.a.	S 3
S 4	4 36 40	9°16'20	4♈45	11°52	3°27	28°47	22°29	29°30	12°14	17°30	9°48	20° 0	21°22	23°56	n.a.	S 4
M 5	4 40 37	10°17'35	17°54	13°30	3°15	29° 8	22°42	29°27	12°12	17°32	9°48	19°55	21°19	24° 2	n.a.	M 5
T 6	4 44 33	11°18'49	1♉30	15° 8	3° 0	29°29	22°54	29°24	12° 9	17°35	9°48	19°49	21°16	24° 9	n.a.	T 6
W 7	4 48 30	12°20'03	15°33	16°46	2°43	29°49	23° 7	29°21	12° 7	17°37	9°49	19°43	21°13	24°16	n.a.	W 7
T 8	4 52 26	13°21'16	0♊ 0	18°25	2°24	0♍ 8	23°19	29°18	12° 4	17°39	9°49	19°37	21°10	24°22	n.a.	T 8
F 9	4 56 23	14°22'30	14°45	20° 4	2° 2	0°27	23°32	29°15	12° 1	17°41	9°49	19°32	21° 6	24°29	n.a.	F 9
S 10	5 0 20	15°23'43	29°40	21°44	1°38	0°46	23°45	29°13	11°59	17°44	9°49	19°29	21° 3	24°36	n.a.	S 10
S 11	5 4 16	16°24'55	14♋37	23°23	1°12	1° 5	23°58	29°10	11°56	17°46	9°50	19°D28	21° 0	24°42	n.a.	S 11
M12	5 8 13	17°26'08	29°28	25° 3	0°44	1°23	24°10	29° 8	11°54	17°48	9°50	19°28	20°57	24°49	n.a.	M12
T 13	5 12 9	18°27'20	14♌ 6	26°44	0°14	1°41	24°23	29° 5	11°51	17°51	9°50	19°29	20°54	24°56	n.a.	T 13
W14	5 16 6	19°28'32	28°27	28°24	29♐43	1°58	24°36	29° 3	11°49	17°53	9°51	19°31	20°50	25° 2	n.a.	W14
T 15	5 20 2	20°29'43	12♍29	0♑ 5	29°10	2°14	24°50	29° 1	11°46	17°55	9°51	19°32	20°47	25° 9	n.a.	T 15
F 16	5 23 59	21°30'54	26°12	1°46	28°35	2°31	25° 3	28°59	11°43	17°57	9°52	19°R32	20°44	25°16	n.a.	F 16
S 17	5 27 56	22°32'05	9♎36	3°26	28° 0	2°47	25°16	28°57	11°41	18° 0	9°52	19°31	20°41	25°22	n.a.	S 17
S 18	5 31 52	23°33'16	22°42	5° 7	27°24	3° 2	25°29	28°55	11°38	18° 2	9°52	19°29	20°38	25°29	n.a.	S 18
M19	5 35 49	24°34'26	5♏33	6°48	26°47	3°17	25°43	28°53	11°36	18° 4	9°53	19°25	20°35	25°35	n.a.	M19
T 20	5 39 45	25°35'36	18°10	8°28	26°10	3°31	25°56	28°52	11°33	18° 6	9°53	19°21	20°31	25°42	n.a.	T 20
W21	5 43 42	26°36'46	0♐35	10° 7	25°34	3°45	26° 9	28°50	11°31	18° 9	9°54	19°17	20°28	25°49	n.a.	W21
T 22	5 47 38	27°37'54	12°49	11°46	24°57	3°59	26°23	28°49	11°28	18°11	9°55	19°13	20°25	25°55	n.a.	T 22
F 23	5 51 35	28°39'02	24°53	13°24	24°21	4°12	26°36	28°47	11°26	18°13	9°55	19°11	20°22	26° 2	n.a.	F 23
S 24	5 55 31	29°40'09	6♑51	15° 0	23°45	4°24	26°50	28°46	11°24	18°15	9°56	19° 9	20°19	26° 9	n.a.	S 24
S 25	5 59 28	0♑41'15	18°42	16°35	23°11	4°36	27° 4	28°45	11°21	18°18	9°56	19°D 9	20°16	26°15	n.a.	S 25
M26	6 3 25	1°42'21	0♒29	18° 7	22°37	4°47	27°17	28°44	11°19	18°20	9°57	19° 9	20°12	26°22	n.a.	M26
T 27	6 7 21	2°43'25	12°16	19°37	22° 5	4°58	27°31	28°43	11°16	18°22	9°58	19°10	20° 9	26°29	n.a.	T 27
W28	6 11 18	3°44'27	24° 4	21° 4	21°35	5° 8	27°45	28°43	11°14	18°24	9°58	19°12	20° 6	26°35	n.a.	W28
T 29	6 15 14	4°45'29	5♓59	22°28	21° 6	5°17	27°59	28°42	11°12	18°27	9°59	19°13	20° 3	26°42	n.a.	T 29
F 30	6 19 11	5°46'29	18° 4	23°47	20°39	5°26	28°13	28°42	11° 9	18°29	10° 0	19°14	20° 0	26°49	n.a.	F 30
S 31	6 23 7	6♑47'28	0♈23	25♑ 1	20♐15	5♍35	28♑27	28♈41	11♊ 7	18♐31	10♓ 1	19♑15	19♑56	26♑55	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	21s36	9s29	3n10	23s18	1s35	24s 3	0s24	14n47	2n32	22s44	0s50	9n10	2s28	22n40	0n 7	22s 9	0n58	23s37	17s 0	22s12	21s58	21s27			n.a.
F 2	21 46	4 23	3 57	23 38	1 39	23 50	0 11	14 40	2 33	22 42	0 50	9 9	2 28	22 39	0 7	22 9	0 58	23 36	17 0	22 12	21 59	21 25			n.a.
S 3	21 56	1n 0	4 35	23 57	1 43	23 37	0n 3	14 34	2 35	22 40	0 50	9 8	2 28	22 39	0 7	22 9	0 58	23 36	16 59	22 12	21 59	21 23			n.a.
S 4	22 6	6 29	5 0	24 14	1 47	23 24	0 16	14 28	2 36	22 38	0 50	9 7	2 28	22 39	0 7	22 9	0 58	23 36	16 59	22 12	22 0	21 20			n.a.
M 5	22 15	11 52	5 11	24 30	1 50	23 10	0 30	14 22	2 38	22 36	0 50	9 6	2 27	22 38	0 7	22 10	0 58	23 35	16 59	22 13	22 0	21 18			n.a.
T 6	22 24	16 53	5 4	24 45	1 53	22 56	0 45	14 16	2 39	22 34	0 50	9 6	2 27	22 38	0 7	22 10	0 58	23 35	16 58	22 14	22 1	21 16			n.a.
W 7	22 32	21 9	4 40	24 58	1 56	22 42	1 0	14 11	2 41	22 32	0 50	9 5	2 27	22 38	0 8	22 10	0 58	23 34	16 58	22 15	22 1	21 14			n.a.
T 8	22 40	24 15	3 57	25 10	1 59	22 27	1 14	14 5	2 43	22 30	0 50	9 4	2 27	22 37	0 8	22 10	0 58	23 34	16 58	22 16	22 2	21 12			n.a.
F 9	22 47	25 47	2 58	25 21	2 1	22 12	1 30	13 59	2 44	22 27	0 50	9 3	2 26	22 37	0 8	22 11	0 58	23 34	16 57	22 16	22 2	21 10			n.a.
S 10	22 54	25 29	1 46	25 29	2 2	21 57	1 45	13 54	2 46	22 25	0 50	9 3	2 26	22 37	0 8	22 11	0 58	23 33	16 57	22 17	22 3	21 8			n.a.
S 11	23 1	23 21	0 27	25 36	2 4	21 42	2 0	13 49	2 47	22 23	0 50	9 2	2 26	22 36	0 8	22 11	0 58	23 33	16 56	22 17	22 3	21 6			n.a.
M12	23 7	19 37	0s55	25 42	2 5	21 27	2 16	13 44	2 49	22 21	0 50	9 1	2 26	22 36	0 8	22 11	0 58	23 32	16 56	22 17	22 4	21 4			n.a.
T 13	23 12	14 42	2 11	25 45	2 5	21 11	2 32	13 39	2 51	22 18	0 50	9 1	2 25	22 36	0 8	22 11	0 58	23 32	16 56	22 17	22 4	21 2			n.a.
W14	23 17	9 3	3 18	25 47	2 5	20 56	2 47	13 34	2 52	22 16	0 50	9 0	2 25	22 35	0 8	22 12	0 58	23 31	16 55	22 17	22 5	21 0			n.a.
T 15	23 22	3 5	4 11	25 48	2 5	20 40	3 2	13 30	2 54	22 14	0 50	9 0	2 25	22 35	0 8	22 12	0 58	23 31	16 55	22 16	22 5	20 58			n.a.
F 16	23 26	2s53	4 49	25 46	2 4	20 25	3 18	13 25	2 56	22 11	0 50	8 59	2 25	22 35	0 8	22 12	0 58	23 30	16 55	22 16	22 6	20 56			n.a.
S 17	23 30	8 34	5 9	25 42	2 2	20 9	3 33	13 21	2 57	22 9	0 50	8 59	2 24	22 34	0 8	22 12	0 58	23 30	16 54	22 17	22 6	20 54			n.a.
S 18	23 33	13 46	5 14	25 37	2 0	19 54	3 47	13 17	2 59	22 6	0 50	8 58	2 24	22 34	0 8	22 13	0 58	23 29	16 54	22 17	22 7	20 52			n.a.
M19	23 36	18 15	5 2	25 29	1 57	19 39	4 1	13 13	3 1	22 4	0 50	8 58	2 24	22 34	0 8	22 13	0 58	23 29	16 54	22 17	22 7	20 49			n.a.
T 20	23 38	21 50	4 36	25 20	1 54	19 24	4 15	13 9	3 2	22 1	0 50	8 58	2 23	22 33	0 8	22 13	0 58	23 28	16 53	22 18	22 8	20 47			n.a.
W21	23 40	24 22	3 57	25 9	1 50	19 10	4 28	13 6	3 4	21 59	0 50	8 57	2 23	22 33	0 8	22 13	0 58	23 28	16 53	22 19	22 8	20 45			n.a.
T 22	23 42	25 41	3 7	24 56	1 45	18 56	4 41	13 2	3 6	21 56	0 50	8 57	2 23	22 33	0 8	22 13	0 58	23 27	16 53	22 19	22 9	20 43			n.a.
F 23	23 42	25 47	2 10	24 41	1 39	18 42	4 53	12 59	3 8	21 54	0 50	8 57	2 22	22 32	0 8	22 14	0 58	23 27	16 52	22 19	22 9	20 41			n.a.
S 24	23 43	24 40	1 8	24 24	1 33	18 29	5 5	12 56	3 9	21 51	0 50	8 57	2 22	22 32	0 8	22 14	0 58	23 26	16 52	22 20	22 9	20 39			n.a.
S 25	23 43	22 26	0 2	24 6	1 26	18 17	5 16	12 54	3 11	21 48	0 50	8 57	2 22	22 32	0 8	22 14	0 58	23 25	16 52	22 20	22 10	20 37			n.a.
M26	23 42	19 16	1n 2	23 46	1 18	18 5	5 26	12 51	3 13	21 46	0 50	8 57	2 22	22 31	0 8	22 14	0 58	23 25	16 51	22 20	22 10	20 35			n.a.
T 27	23 41	15 19	2 5	23 24	1 9	17 54	5 35	12 49	3 15	21 43	0 50	8 57	2 21	22 31	0 8	22 14	0 58	23 24	16 51	22 20	22 11	20 33			n.a.
W28	23 40	10 48	3 2	23 1	0 59	17 44	5 44	12 47	3 16	21 40	0 50	8 57	2 21	22 31	0 8	22 15	0 58	23 24	16 50	22 19	22 11	20 30			n.a.
T 29	23 38	5 50	3 52	22 37	0 48	17 34	5 52	12 45	3 18	21 37	0 50	8 57	2 21	22 30	0 8	22 15	0 58	23 23	16 50	22 19	22 12	20 28			n.a.
F 30	23 35	0 36	4 32	22 12	0 37	17 25	5 59	12 43	3 20	21 34	0 50	8 57	2 20	22 30	0 8	22 15	0 58	23 23	16 50	22 19	22 12	20 26			n.a.
S 31	23s32	4n44	5n 1	21s46	0s24	17s17	6n 5	12n42	3n22	21s32	0s50	8n57	2s20	22n30	0n 8	22s15	0n58	23s22	16s50	22s19	22s13	20s24			n.a.

Julian Day Number = 1666604.5, Delta T = 03h22m50s
Ecliptic obliquity = 23°42'51, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'21, Lahiri = - 6°01'20 Julian Calendar 1 Dec. 151 BCE == Greg. Calendar 28 Nov. 151 BCE

The year -150 astronomical counting style corresponds to year 151 B.C.E historical counting style.

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